#### DIRECTIONS FOR RIGGING HAY CARRIERS



#### DIRECTIONS FOR REVERSING ALL NEY SWIVEL CARRIERS

Pull carrier to trip block or bumper, letting fork pulley drop out of carrier. Take graft rope out of pulley at end of barn. While standing on floor beneath carrier, give rope a little slack from hand to carrier and give it a circular throw to obtain half turn in swivel. Rethread pulleys in end of barn in which you wish to operate, then the carrier is ready.

Before pulling draft rope out of pulleys, tie a small rope to the end of it so that small rope will remain through pulleys for pulling draft rope through them when again

#### DIRECTIONS FOR PUTTING UP TRACK

Attach track to every rafter by means of track eyes and rafter irons. Attach trip block directly over unloading place. To prevent carrier from running off track, bolt carrier stop or pulley fastener to end of track. Tie a rope at this point from one rafter to the other, letting rope hang 4 or 5 inches under track, or nail a board to rafter close to track. rafters close to track.

#### MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARNS

Center Drive

For 50-Foot Barn—One Carrier, 50 feet Steel Track, 25 Track Eyes, 25 Rafter Brackets, 5 Pulleys, 6 Floor Hooks, 130 feet %-inch Manila Rope, 55 feet %-inch Check Rope, 50 feet %-inch Reverse Rope.

For 60-Foot Barn—One Carrier, 60 feet Steel Track, 31 Track Eyes, 31 Rafter Brackets, 5 Pulleys, 6 Floor Hooks, 160 feet %-inch Manila Rope, 60 feet %-inch Check Rope, 60 feet %-inch Reverse Rope.

For 80-Foot Barn—One Carrier, 74 feet Track, 37 Track Eyes, 37 Rafter Brackets, 4 Pulleys, 6 Floor Hooks, 200 feet %-inch Manila Rope, 70 feet %-inch Check Rope, 80 feet %-inch Reverse Rope.

If required to take hay in at end of barn and have rope pass down at far end of horse, same amount of draft rope. If draft rope be returned to same end of barn and then down, requires about one-fourth more of draft rope.

See Our Complete Line Forks, Hoes, Shovels, Rakes and Other **Farming Implements** 

#### HAY CARRIERS

Cut Haying Time - Save Dollars

• For heavy usage—strong frame and parts made of improved malleable iron with certified average tensile strength of 27 tons to square inch—33% stronger than cast iron. Track wheels and sheaves made of best grade cast iron. Aluminum finish resists rust.

Genuine Ney products guarantee satisfaction in material, workmanship and operation.

#### ONE-WAY RIGHT-ANGLE LIFT SLING CARRIERS Rope and Cables Not Included.



#### FOR ROPE

For one or two forks or slings. Operates from end of barn.

Eight wheels and long wheel base distribute load on track and rafters. Less rope wearrope grips are long and straight, automatically adjust themselves to distribute clamping pres-sure. Will not cut the rope. (%-inch to %-inch rope can be used.)

Adjustable to any make of standard steel track. Equipped regularly with one pair of No. 204 Ney sling pulleys and one trip block No. AB 15. If No. AB 15 cannot be used be sure to specify trip block wanted.

Length over all 24 inches. Height including pulleys 30 inches. Wide flanged lifting pulleys. Right angle draft. Nine-inch roller bearing draft wheel. Three-inch track wheels.

With 8 Track Wheels.

AB 156—Weight each 65 lbs..... Each \$25.85

#### HEAVY-DUTY OPEN THROAT FORK CARRIERS SWIVEL AND REVERSIBLE Rope Not Included.



#### FOR ROPE

Fills mow closer to roof comb than any other carrier can!

Has lifting pulley pivotally held by its axle hubs— free to swing back into horizontal position, making it possible to drag load over obstructions.

Listed as a fork carrier but well adapted for slings, by use of self-locking sling pulleys with Ney registering head. registering For any type of barn. Runs on

barn. Runs on
Ney double angle
track but is adproper trip block is used. For %-inch draft rope (fourstrand manila preferred) but will operate with %-inch
rope. Length over all 21 inches. Height including fork
pulley 18½ inches. Extra light draft. Seven-inch roller
bearing sheaves, 3-inch steel bushed track wheels.

Complete with one No. 138X fork pulley and over X

Complete with one No. 138X fork pulley and one No. AB 12 trip block.

Packing-bulk.

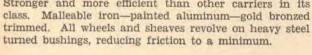
AB 276—Weight each 40 lbs..... Each \$15.00

### HAY CARRIERS

NEY

#### STANDARD OPEN THROAT FORK CARRIERS Rope Not Included

Stronger and more efficient than other carriers in its class. Malleable iron-painted aluminum-gold bronzed trimmed. All wheels and sheaves revolve on heavy steel







Swivel and reversiblebest used as a fork carrier but may be used as a sling carrier with proper self-locking sling pulleys having Ney No. RH24X registering head. Fork pulley has patented snap hook for safer lifting. Lifting pulleys lock directly on side or frame of carrier -not depending on separate dogs or lugs to hold the load.

With this carrier the fork can be carried within 7 inches of the track.

Adapted for any standard hay carrier track. Comes with one No. 107X Fork Pulley and one No. AB 12 trip block. If No. AB 12 cannot be used specify trip block wanted. Length over all 151/2 inches. Height 161/2 inches. Wide flanged lifting pulleys; 4-inch iron rope sheaves; 3-inch track wheels. No springs. Carry full H-inch rope.

AB 86—Weight each 26 lbs. Each \$12.00

### ADJUSTABLE OLD STYLE FORK CARRIERS Rope Not Included.





Cut shows lifting or fork pulley on No. AB 6 carrier.

Operates on all standard steel tracks. Preferred by many who know its good, long record. Famous for simplicity, locking mechanism has but two parts. Operated by gravity, no springs. Never fails to give satisfaction.

Swivel and reversible. Made entirely of malleable iron, painted aluminum, gold bronzed trimmed. All track travelers and sheaves revolve on turned steel bushings. Carrier cannot pass the bumper or trip back while in operation. Easily, quickly reversed from the floor. Carry full

Complete with pulley No. 403 and No. AB 12 trip block. Length of carrier 15 inches. Height over all 22 inches. Thread %-inch.

AB 6—Weight each 25 lbs.....Each \$12.00

Packing-bulk.

#### HAY FORKS

Rope Not Included.





Unusually wide spread iron

This hay fork takes bigger loads than the largest grapple forks and handles any kind of hay or straw. Lifts clean, does not drop the edges or tear up the loads. Unequalled for unloading short, dry stuff. Serves as well as sling and saves the bother of handling them in the field and at the mow or stack.

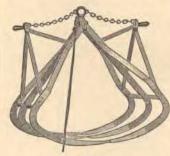
Certified malleable iron castings - shock resisting special steel tines, in pairs, with flexible joint. Dependable automatic fork head, with nonwear lock. Load chains heavy electric welded steel for greater strains.

AB 3039-Standard Size for ordinary use. Tines 26 inches long. Spread 61/2 feet. Weight each ... Each \$12.00

AB 3041-Giant Size. For use where conditions permit handling largest possible fork loads; requires sling mow doors. Tines 32 inches long. Spread 7½ feet. Weight each 45 Each \$14.00

## AUTOMATIC BALANCED GRAPPLE

- · Highest quality spring steel and malleable iron, japanned finish, with points of tines polished.
- · Rigid—securely braced to strengthen and prevent spreading of tines.
- Easy to use—grip handle on each side for convenience. in setting or placing . . . designed to operate automatically with minimum amount of effort on gravity-
- Trip lock and tines connected by coil chains,
- · Return to the load in a closed position.

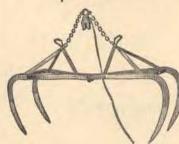


#### SIX-TINE

Length-open 58 inches. closed 3814 inches.

Height 37% inches. width 191/2 inches.

AB 412-Weight each 56 lbs. .... Each \$12.95



#### FOUR-TINE

Length - open 58 inches, closed 381/4 inches.

Height 37¼ inches, width 15½ inches.

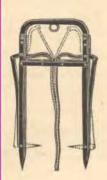
AB 411 - Weight each 42 lbs. ....Each \$11.65

Packing-bulk.

#### HAY FORKS

NEY

#### ALFALFA DOUBLE HARPOON SPEAR POINT



For unloading alfalfa or any extra heavy duty. High grade steel and malleable iron—finished in black japan with points lacquered.

Head 23¼ inches wide. Welded ring 2 inches in diameter. Harpoon points 4 inches long. Malleable iron trip levers 13 inches long. Two center braces riveted to frame 23½ inches wide. Height over all 47 inches. Length of tines, 32 inches. Width over all 27 inches.

AB 318—Weight each 32 lbs. ..... Each \$6.00



#### DOUBLE HARPOON SPEAR POINT

Rope Not Included

Steel japanned. Head 17 inches wide. Riveted ring 1% inches in diameter. Harpoon points 3½ inches long. Malleable iron trip levers 10¾ inches long. Two center braces riveted to frame 17 inches wide.

### HARRIS DOUBLE HARPOON Height Length Width

Nos.	Each	Over All, In.	of Tines, In.	Over All, In.	Wt. Each, Lbs.
AB 313	\$3.00	36½	24	$19\frac{1}{2}$ $19\frac{1}{2}$	18
AB 315	3.25	41½	291/4		20



#### NELLIS PATTERN—SINGLE HARPOON

Very satisfactory, especially for long, heavy timothy hay. Sets with one spring steel lock lever and locks either open or closed. Painted black, trimmed in gold bronze. Length over all, closed, 32 inches; open, 36 inches.

AB 319-Weight each 11 lbs......Each \$5.50

Packing-bulk.

#### HAY SLINGS

NEY'S END TRIP

CHAIN

Easy to handle and adjustable to any size rack. Lock can be hooked into any chain link desired and the chain will not kink or tangle.

No. 3/0 brown pattern bright finish chain, with malleable iron attachments. Complete with three chains each 19½ feet long.

AB 27C—Weight each

12 lbs. ...... Each \$1.89

Packing—bulk.

#### HAY SLINGS

#### ROPE—HARDWARE MANILA

Made from two ½-inch ropes. Adjustable for 16 to 20 foot racks. Rope eyes are firmly attached and will not pull off rope. All attachments are malleable iron.

AB 21X—Made from two ½-inch ropes.

Weight each 3½ lbs......Each \$1.49

One in a carton.

### ROPE HITCHES



Saves time and trouble in taking up and letting out rope. Does away with the untieing of hard knots and wasting of rope by cutting knots.

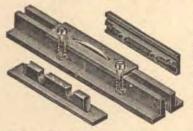
Unbreakable malleable iron, japanned swivel. Length 8 inches.

AB 158—Weight per dozen 20 lbs......Each \$0.49

Packing-bulk.

#### HAY CARRIER TRACK

NEY



Construction prevents the track wheels from striking hangers or splices. Double angle steel track is 2 inches wide on the tread.

In 6, 8, and 12 foot lengths. Complete with splices or couplings. Weight of splice 1 lb.

AB 6—Weight per foot 2 lbs.....Per Foot \$0.25

Packing-bulk.

### TRACK HANGING HOOKS

NEX

Plain malleable iron. Keeps track angles properly spaced under heavy loads.



Double angle track eye. Can be used on track at any point. For No. AB 6 double track. Length 5¼ inches.

AB 601—Weight per dozen 4 lbs.....Each \$0.20



With open eye, Length 5% inches.

AB 604—Weight per dozen 5 lbs......Each \$0.20

Packing-bulk.

#### FLOOR HOOKS



Plain wrought steel floor hooks for use with hay fork pulleys. Diameter rod %-inch. Length over all 7½ inches, Length of screw 3½ inches.

AB 1—Weight per dozen 8½ lbs..... Each \$0.15

Packing-bulk.

#### RAFTER BRACKETS



Used in connection with hanging hooks for putting up either wood or iron track. Natural finish. Length over all 7 inches.

AB 436—Weight per dozen 4 lbs......Each \$0.05

Packing-bulk.

#### BUMPERS

NEV

Malleable iron for strength and long wear.

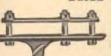


Double bead. For Louden and Porter 2-inch track.

AB 16-Weight each 12 lbs. ..... Each \$0.95

Packing-bulk.

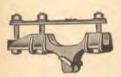
#### TRIP OR BUMPER



Plain malleable iron. For 2-inch double angle steel track No. AB 6. For No. 150 Hay carrier.

AB 8-Weight per dozen 18 lbs......Each \$0.95

Packing-bulk.



For Meyers, Janesville, Hudson and Strickler 2½-inch track.

AB 17-Weight each 16 lbs. ..... Each \$0.95

Packing-bulk.

#### TRIP BLOCKS



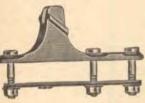
NEY

Plain malleable iron - dependable and tough.

For Ney, Olson, Law Goshen, Rochester and Ricker track.

For Hay Carriers Nos. AB 6, AB 86, 176, 177, AB 276 and 277.

AB 12-Weight per dozen 15 lbs...... Each \$0.75



For Ney, Olson, Law Go-shen, Rochester and Ricker track.

For hay carriers Nos. 151, AB 156 and 157.

AB 15—Weight per dozen 18 lbs...Each \$0.95

Packing-bulk.

### HAY RACK BRACKETS AND CLAMPS

#### WENZELMAN PATTERN



These clamps, diagonally astride timbers, brace them and prevent splitting. They mean less cutting and fitting of timbers. Sills will not be weakened by bolt holes and timbers will not have edgewise holes through them.

Set consists of 8 high quality steel clamps with nuts, 8 flanged malleable iron center brackets, and round steel one-piece clamp. Inside width 2% inches. With stamped steel top and bottom washer plates.

%-INCH ROUND STEEL

Nos.	Per Set	Length, Inches	Wt. Per Dozen Sets, Lbs.
AB1	\$1.35	14	135
AB 2	1.49	16	147
	One set in a w	rood box.	

#### HAY FORK PULLEYS

#### NEY'S KNOT PASSING



Hardwood wheel 11/2 inches thick, diameter 6 inches. Heavy cast iron japanned frame 3% inches wide. Height over all 111/2 inches. Sheave revolves on self-oiling hollow pin.

AB 122-Weight per dozen 40 lbs. Each \$1.00



High grade cast iron frame, with malleable iron swivel eye. Oil finish hard maple sheave 6x1% inches, on 1-inch hollow cast iron pin. Over all size 11x6x3% inches. All metal parts black japanned.

AB 106-Weight per dozen

48 lbs......Each \$0.95



Steel frame, japanned. Hardwood wheel 1½ inches thick, diameter 6 inches. Extreme width 3% inches. Height over all 11 inches. Wheel revolves on cast iron pin %x21/2 inches.

AB H110-Weight per dozen 36 lbs. ..... Each \$0.65



#### NEY'S REED PATTERN

Wood frame pulley. Hardwood wheel 11/4 inches thick, diameter 4% inches. Wood frame, riveted, 3% inches wide. Steel strap.

AB 111-Weight per dozen



#### NEY'S SELF-OILING PULLEY

Hardwood wheel 11/2 inches thick, diameter 6 inches. Cast iron frame 21/2 inches wide. Height over all 10 inches. Wheel revolves on 14-inch hollow pin.

AB 114-Weight per dozen



#### STANDARD

Japanned cast iron frame. Cast iron wheel 11/2 inches thick, diameter 5 inches. Shell 21/2 inches wide. Height over all 81/2 inches Wheel revolves on %-inch pin.

AB 115-Weight per dozen

40 lbs......Each \$0.39

Packed in barrels.

### HAY FORK PULLEY SHEAVES



WOOD SHEAVES ONLY

Hardwood, yellow stained. Diameter 6 inches, thickness 1% inches.

AB 609-Weight per dozen 13 lbs......Each \$0.39

Packed in barrels.

# HAY KNIVES SIMMONS

#### STRAIGHT OR HEATH'S PATTERN

Heavy wrought steel plate, with three V-shaped beveled forged steel blades riveted on. Heavy wrought iron step and strap riveted to handle. Head secured by three rivets through handle and strap. Natural finish white ash handle with pressed steel D and black wood grip. Length over all 39¼ inches, width head 9 inches.

AB S11/2-Weight per dozen 62 lbs......Each \$1.95

One-half dozen in a box.

## EXTRA SECTIONS FOR HEATH'S PATTERN UPRIGHT HAY KNIVES

AB HS-Weight per dozen 6 lbs...... Each \$0.25

Packing-bulk



## SERRATED SICKLE EDGE

These knives will loose packed hay, straw and pea-vines for feed, either from stack, mow or bale faster and with

less labor than other knives.

The handles are adjustable to any desired angle, for either right or left-hand operation. They are offset to prevent injury to operator's hands from stack. Grip on front handle is adjustable and gives knife same leverage at all angles.

Malleable iron ridged back frame, with four-section serrated sickle edge blade riveted on. Frame and blade aluminum finish. Heavy malleable iron black japanned handle shanks, with 4¼-inch natural finish wood grips secured by large bolt and nut. Length cutting edge 19 inches. Length frame 29½ inches. Length over all 22 inches. 32 inches.

AB S2—Weight per dozen 74 lbs...... Each \$2.19

One-half dozen in a box.

#### EXTRA SECTIONS FOR No. AB S2 HAY KNIVES

Nos.	Each	
ABPS	\$0.50	Point Section
ABMS	.25	Middle Section
	Packing-bulk	



Malleable iron frame, ridged back painted dark green. Adjustable locking, japanned handle piece, with two 4-inch hardwood grips bolted on. Four-section steel, sickle edge, cutting blades riveted on. Length of cut 19 inches. Length over all 37½ inches.

AB S1—Weight per dozen 74 lbs.......Each \$2.19

One-half dozen in a wood box.

#### EXTRA SECTIONS FOR No. ABSI HAY KNIVES

Nos.	Each	
ABP	\$0.50	Point Section
ABM	.39	Middle Section
	Weight each 516 ou	nces

Packing-bulk.

#### HAY HOOKS



KLICKER Forged from steel, tempered and natural finish. Hard wood handle. Shank extend through handle and is rivete at top with washer. Flus rivet head. Diameter hoo

inch. Length handle 5% inches. Length over a 91/4 inches.

AB 21K—Weight per dozen 6 lbs...... Each \$0.2

One-half dozen in a carton.



Forged from tool steel, na ural finish and tempere Black finish hardwood har dle. Shank extends throughandle, and is riveted at to with washer. Diameter how with washer. Length over a second of the steel of the st

inch. 111/2 inches.

AB 22—Weight per dozen 9 lbs.....Each \$0.3

Packing-bulk.

## COTTON OR BOX HOOKS

KLICKER



Forged steel, tempered an polished. Natural finish hard wood handle. Shank extend through handle and is riveted at top with washer; flush rive head. Diameter hook % included the control of the control

AB 10K—Weight per dozen 6 lbs.....Each \$0.2

These all-steel, loop hand box hooks have the added ac vantage over regular cross be type in that they can be use while wearing mittens. A steel, natural finish. Diam Loop 2¼x4½ inches inside. Lengt

eter steel 17 inch. over all 11 inches.

AB 286—Weight per dozen 12 lbs.....Each \$0.4

Packing-bulk.

#### SCALE BEAMS



#### WITH TWO POISES

Steel beam. Hardened pivots and bearings. Hangers an pivots properly arranged to prevent binding. Complet with two cast-iron poises and steel hooks.

Beam and poises painted black; white lettering.

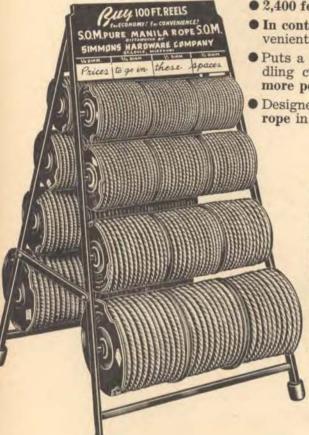
Nos.	Each	Capacity, Lbs.	Weight Complete Lbs.
AB 200	\$2.15	200	9
AB 300	3.75	300	16
	Six in a case,	with poises.	

#### SCALE WEIGHTS

	For Platform Sc	For Platform Scales				
	Japanned cast iron.	Tested. Weight				
Nos.	Each	Each, Ll				
AB P50	\$0.65	50				
AB P100	.75	100				
AB P200	1.15	200				
	Packing—bulk.					

# Now! SIMMONS Orange Marked Manila Rope

## on the new "Rope Retailer"



- 2,400 feet of rope in less than 4 square feet of floor space!
- In continuous 100-foot reels that are economical and conveniently "packaged" to fill a tested consumer demand.
- Puts a famous rope on display and results in lower handling costs and larger profits by selling more rope to more people.
- Designed for the best, easiest and quickest handling of rope in the modern hardware store.

The beauty of this efficient "rope retailer" is that it contains the favorite, fast-selling SIMMONS Orange Marked Pure Manila Rope in the four most popular sizes.

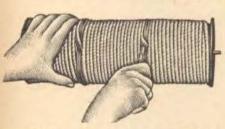
This is a strong, durable, pure manila rope of exceptionally good color and appearance. It is water-resistant, rot-proofed, will not freeze and will give excellent service. It is pliable and easy to handle, wet or dry.

With this handy reel and stand arrangement you can keep the rope clean and attractively displayed.

Deal consists of 2,400 feet of rope on the new 100-foot reels plus free display stand.

Stand is strong, all-metal construction with durable lacquered finish. Space for prices to be clearly displayed. Compact!

#### "ROPE RETAILER" MAKES ROPE EASY TO HANDLE



- 1. A single knife stroke cuts rope and separates reels, giving you either 100-foot or 200-foot "package".
- 2. The 300 feet of rope in three continuous 100-foot reels may be sold as a compact basic unit.
- 3. Any cut length may be unreeled from end unit without affecting other 100-foot reels.
- 4. If cut length is made at one end, 100-foot unit may be removed from opposite end, leaving center reel intact.

CY SOM/R-Deal. Includes six 100-foot reels of rope, three connected, in each of the following sizes: 14, 16, 3 and 1/4 inch in diameter. Total weight of fully loaded stand-not over 115 lbs.

#### REFILLS-600 FEET PER CARTON

Nos.	Per 100 Ft. Coil	Diameter, Inch	Weight Per Carton, Lbs.
CY 600/1/4	\$0.65	1/4	121/2
CY 600/5/16	.89	5 16	171/2
CY 600/3/8	1.19	3/8	25
CY 600/1/2	1.95	1/2	45

#### SIMMONS FAMOUS QUALITY-BRANDED ROPE

- Strong, tough pure manila rope for excellent service for all types of jobs.
- Water-resistant, rot-proofed rope that lives up to its quality appearance—will not freeze.
- · Easy to handle wet or dry, because it is soft and pliable, yet firm lay.



Pure Manila-Orange and Green Stripe Equal in quality to any rope made.

Strictly first quality—outstanding for service and quality. Meets the requirements of the Bureau of Standards as to tensile strength, oil and fiber contents. It is light in color.

Identified by an orange and green colored yarn appearing on the outside of sizes % inch and larger, and by an orange and green colored cord running through the center of one strand of smaller sizes.

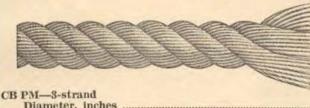
#CB SGM—3-strand Diameter, inches	1/2	5/8	3/4	7/8	1	
and to sense brace bearing	\$0.01 \$2.25	3.89	4.79	Base Price	7.85	

5.79



CB SOM—3-strand	3/16	. 1/4	5/16	3/8
Add to base price—per pound Per 100 foot	\$0.05		.67	.03 1.10
CB SOM4—4-strand, without core Diameter, inches	13/16		7/8	
Per pound	Bas	e Pri	ce	

\$4.95



Per 100 foot.....

### Pure Manila-Orange Marked

One of America's most popular ropes!

This rope needs no introduction—it is the popular S. O. M. Meets Government specifications for tensile strength and oil content.

Identified by an orange colored cord appearing on outside of sizes 1/4 inch and larger, and by an orange colored cord running through the center of one strand of smaller sizes.

A10	1/2	716	%8	2/4	13/16	7/8	1	11/4
1.27	.01 1.79	2.49	2.95	3.75	4.40	ase P: 4.95	rice 6.00	9.40
CB Se Dia	OM4/C	1-st	trand.	with	center	core		7/8
Per Per	poun 100	d foot	**********			Ba \$4.95	se Pri	ce 5.79

#### Pure Manila-Not Marked

A good grade Manila rope at popular prices. Full tensile strength, but made of slightly coarser fibre. Has no identification marks. Somewhat darker in color than Nos. CB SOM or CB SGM.

CB	PM—3-strand Diameter, inches	± ¼	5/16	3/8	1/2	5/8	3/4 7/1	8
	Add to base price,—per pound	\$0.55	.04	.03	.01 1.69	.00½ 2.89	Base Price 3.69 4.7	75

Approximate Weight and Strength of New SIMMONS Quality Manila Rope. (Safe Working Load is approximately 20% of Breaking Strain.)

Diam.,	Length Full Coils	of Full Coils, Lbs.	Weight V 720 Ft. Half Coils, Lbs.	per Foot, Lbs.	Approxi- mate Break, Lbs.	Diam.,	Length Full Coils	of Full	Weight 720 Ft. Half Coils, Lbs.	per	Approxi- mate Break, Lbs.
9/16	3000	45	*****	.015	450	5/8	1200	160	96	.133	4,400
1/4	2750	55	*****	.020	600	3/4	1200	200	120	.167	5,400
5/16	2250 1620	65 66	******	.029	1,000 1,350	13/16	1200	234	141	.195	6,500
3/8 7/16	1200	70	******	.0526	1,750	1/8	1200 1200	270 324	160 195	.225	7,700
1/2	1200	90	54	.0750	2,650	11/4	1200	502	300	.418	9,000 13,500
9/16	1200	125	75	.104	3,450						10,000

4-strand rope is from 5% to 7% heavier than 3-strand rope.

Note to Dealer: We carry in stock the following sizes:

CB SOM— 18 to 18 inch in full coils. 16 to 14 inch in both full coils and half coils. CB SOM4— 18 and 18 inch in both full coils and half coils. CB SOM4/C— 18 and 18 inch in both full coils and half coils. CB PM— 18 to 18 inch in half coils. 18 and 18 inch in full coils.

Any size rope or any size coil in either of the above grades can be furnished on direct shipment from the factory at the prices given above.

Note: When ordering state number and specify diameter.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# SISAL ROPE



Evenly spun uniform ropes with good appearance and extra fine quality.

Made from selected fibre of good color and strength.



Illustrations actual size.

#### SIMMONS LILY WHITE

Pure unoiled white Java sisal, 3 strands.

A special rope made from the highest quality Java sisal fibre obtainable, white in color, lustrous and smooth in appearance, and having greater strength than ordinary sisal ropes. This is the best sisal rope that can be made. Sometimes referred to as bolt rope.

Nos.	Per 100 Ft.	Diameter, Inch	Add to Base, Per Lb.
CB SLW3/16	\$0.33	100	\$0.04
CB SLW4	.43	14	.03
CB SLW5/16	.59	16	.03
CB SLW3/8	.89	3/8	.02
CB SLW7/16	.98	70	.01
CB SLW1/2	1.59	1/2	.01
CB SLW%16	2.19	10	.01
CB SLW3/4	3.09	34	****

#### STANDARD SISAL

Three strands. Standard white unoiled sisal rope of superior quality at popular prices.

Nos.	Per 100 Ft.	Diameter, Inch	to Base, Per Lb.
CB SS3/16	\$0.29	10	\$0.04
CB SS1/4	.39	1/4	.03
CB SS%ie	.54	10	.03
CB SS%	.79	3/8	.02
CB SS7/16	.89	70	.01
CB SS1/2	1.45	1/2	.01
CB SS%	2.45	5/8	.001/2
CB SS3/4	2.89	34	****

Sisal rope  $\frac{1}{10}$  to  $\frac{7}{10}$ -inch inclusive, furnished in full coils only.  $\frac{1}{10}$ -inch and larger both full coils and  $\frac{1}{10}$  coils. Unless otherwise specified, full coils will always be shipped.

#### LARIAT ROPE



LIGHTNING BRAND YACHT LARIAT

Finest quality. Carefully made of highest grade selected strictly pure long white manila fibre,

Hard laid, evenly twisted, smooth and glossy. Highest tensile strength, this is one of the best and most satisfactory lariat ropes made.

#### SILK MANILA YACHT LINE

Three Strand

Nos.	Per Lb.	Diameter, In.	Feet, Per Coil
CB LMY3%	\$0.89	3/8	2100
CB LMY37/16	.89	70	1400
	Four Strang	1	
CB LMY43/8	.89	3/8	2100
CB LMY47/16	.89	17	1500

#### AMERICAN BRAND

Very high quality lariat rope made of No. 1 grade white manila fibre, hard laid, with red and green markers running through entire length of rope. Evenly twisted, smooth running and of high tensile strength—will give long satisfactory service.

M	<b>A</b> 7	NI.	10	28
TAN	-	200	-	-

	Three Stra	and	
Nos.	Per Lb.	Diameter, In.	Feet, Per Coil
CB AML3% CB AML37/16	\$0.45 .45	3/8 7 10	2100 1400
	Four Stra	nd	
CB AML43/8 CB AML47/16	.47 .47	3/8 1/8	2100 1500

#### ROYAL BRAND

A good quality, well made, hard laid, long strand white sisal rope of sufficient strength and smoothness to recommend it for lariat uses.

#### SISAL-UNOILED

Three Strand

Nos.	Per Lb.	Diameter, In.	Feet, Per Coil
CB RSL3%	\$0.27	3%	2100
CB RSL37/16	.27	In	1400
	Four Stran	d	
CB RSL4%	.30	3/8	2100
CB RSL47/16	.30	17a	1500

SOLD IN FULL COILS (100 LBS.) OR HALF COILS (50 LBS.)

#### COTTON ROPE



#### SIMMONS ORANGE MARKED

A good quality standard white cotton thread rope, with distinctive orange color thread running through one strand. Well made, good color, uniform in size. Not filled.

		Diam.,		er Tube,
Nos.	Per Lb.	In.	Strand	Lbs.
CB SOC%e3	\$0.27	150	3	35
CB SOC%3	.27	3%	3	37
CB SOC5/164	.27	10	4	35
CB SOC%4	.27	3/8	4	37

#### REGAL

Good quality plain cotton rope. Well made, good color and uniform in size. Not filled.

		Diam.,		Weight erTube,
Nos.	Per Lb.	In.	Strand	Lbs.
CB RC%164	\$0.25	is.	4	35
CB RC3/84	.25	3/8	4	37

Wrapped in paper and burlapped.

SOLD IN FULL COILS ONLY

## TWINES

Types suitable for various wrapping purposes.

### PARCEL POST TWINE

Especially suitable for wrapping parcel post packages. Strong enough for all general household uses. Strong and serviceable-first grade white cotton.



In 214-Pound Cones 10-Ply-5000 Feet on a Cone CB 10PC .....Per Cone \$0.85

16-Ply-3000 Feet on a Cone CB 16PC.....Per Cone \$0.85 200 lbs. in a case.



An excellent, large ball of twine. In 21/2-Pound Balls 10-Ply-1000 Feet in a Ball CB 10P......Per Ball \$0.19

16-Ply-600 Feet in a Ball CB 16P.....Per Ball \$0.19

150 lbs. in a case.

#### WHITE COTTON TWINE



Fine white cotton. In Balls, Six Balls in a Pound 4-Ply-4800 Feet in a Pound CB 4......Per Ball \$0.07

20 balls, 5 lbs. in a cotton sack. 100 lbs. in a bale.





In 21/2-Pound Cones 4-Ply-4800 Feet in a Pound



In 2-Pound Tubes 4x6 Inches 4-Ply-3200 Feet in a Pound

CB 94......Per Cone \$0.80 CB 64.....Per Cone \$0.60

150 lbs. in a case.

#### WRAPPING TWINE

#### CLOVER

The largest and the best. Excellent for kite twine, household use, fishing line, crochet cord and all general uses.



Ball 21/2x23/4 Inches

Assortment of twelve balls, 210 feet in a ball.

CB 5C-Assortment. Weight per assortment 1 lb.

Per Ball \$0.05



Ball 234x314 Inches

Assortment of twelve balls, 300 feet in a ball.

CB 10C-Assortment. Weight per assortment 1% Ibs...... Per Ball \$0.10

Twelve balls in an attractive display carton.



#### FLOSS TWINE CLOVER

In assorted colors.

For gift wrapping, kite twine, lunch twine.

Large balls of 4-ply cotton twine, dyed in assorted bright colors.

Ball 21/4 x21/4 Inches

Assortment of twelve balls, 120 feet in a ball.

CB 5F-Assortment. Weight per assortment

34 lb. .....Per Ball \$0.05

Twelve balls in an attractive display

#### HEMP TWINE CLOVER

Best quality, fine finished India hemp. Looks as large as ordinary 1/2-pound ball.

Ball 3x3 Inches Assortment of twelve balls, 125 feet

in a ball.

CB 10H-Assortment. Weight per assortment

2 lbs. .....Per Ball \$0.10

Twelve balls in an attractive display carton.



## TIMINES



Illustrations Actual Size

#### POLISHED HEMP

Strong, smooth, uniform twine made of best quality, well polished, selected India hemp.

Twelve Balls in a Package

	THE REAL PROPERTY.	and the specialist	90	
Nos.	Per Ball	No. Ft., Per Ball	Wt., Ozs.	Each, Lb.
CB 182	\$0.10	1080	2	****
CB 18Q	.15	1080	****	1/4
	Six Balls	in a Package		
CB 18H	.25	1080		1/4
CB 36H	.25	590	****	1/2 1/2
	Ir	Bulk		
CB 41/2 Q	.10	290	****	1/4
CB 41/2H	.20	290	heal	1/4 1/2
CB 6	.35	195	244	1
	150 lbs	in a bale.		

#### PAPER FLEECE

#### STANDARD

Fully meets the new specifica-tions of the Wool Growers' Association.

Strong and durable.

Made from best quality Kraft papers.

In Two-Pound Tubes

Single ply, 1/8 inch in diameter, 300 feet to a pound.

CB 1 ......Per Tube \$0.45

50 lbs. in a carton.

#### SACKING



#### Illustration Actual Size

For sewing grain sacks. Sail or sacking twine in skeins. Breaking strain 63 pounds.

4-Ply Jute-585 Feet in a Pound

CB 4ST-Weight per bundle 12 lbs......Per Lb. \$0.37

In 12-lb. bundles, 144 lbs. in a bale. Sold only in full bundles.

#### VEGETABLE TWINE



A strong, clean pure fibre jute twine, soft and strong, for general wrapping; also for tying up tomato vines, plants, asparagus, grapes, etc.

In 1/2-Lb. Balls CB 2UJ-2-ply; about 855 feet to a pound......Per Ball \$0.10

150 lbs. in a bale.

#### WIRE ROPE CLIPS



#### CROSBY PATTERN

For those who want the ultimate in strength and gripping power.

Extra large selected steel U-bolt with clean, perfect cut threads. Extra heavy, perfect-fitting semi-finished nuts. Finest drop forged base, extra heavy where strain is greatest.

MAN.

Galvanized (By Hot Dip Process)

Each	For Wire Rope, In.	Each, Lbs.	List, Each
\$0.35	1/4	.25	\$0.35
.40	3/2		.40
.45	1/2		.45
.55	5/8		.55
.65	3/4		.65
.75	7/9		.75
.85	1	3.	.85
	\$0.35 .40 .45 .55 .65	Each Rope, In. \$0.35	Each Rope, In. Lbs.  \$0.35

Packing-bulk.



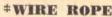
#### CINCINNATI PATTERN

Wrought iron, plain black finish. Lower section fluted. Complete with nuts. Light, strong and durable in construction. (Dimensions given are only approximate and subject to a slight variation.)

Plain Black Finish

		For	II ASICU	CK L'III	311	Wt.	Std.
		Wire				Per	List,
37	-		, Lg.,	Wd.,	Std.	100,	Per
Nos.	Each	In.	In.	In.	Pkg.	Lbs.	100
CB 30 1/4	\$0.05	1/4	1/2	11/4	200	161/2	\$ 6.50
CB 305/16	.06	16	11/2	1%	175	18	7.00
CB 303/8	.07	3/8	2	11/2	200	25	9.70
CB 307/16	,12	16	2	1%	200	30	12.50
CB 301/2	.14	1/2	21/2	21/8	200	371/2	14.50
CB 30 %	.16	5/8	2%	21/8	125	62	19.00
CB 30 3/4	.24	%	3	21/4	150	101	27.00
			Galva	nized			
CB G301/4	.07	3/4	1/2	11/4	200	161/2	8.00
CB G305/16	.08	16	11/2	1%	175	18	9.00
CB G30 3/8	.10	3/8	2	11/2	200	25	12.00
CB G307/16	.15	16	2	1%	200	30	15.50
CB G301/2	.17	1/2	21/2	21/8	200	371/2	18.50
CB G30 %	.20	5/8	234	21/8	125	62	24.50
CB G30 ¾	.29	3/4	3	21/4	150	101	35.00

In SIMMONS Cast Iron Ranges, you find **Superior Quality** Low Price





#### STANDARD ELEVATOR HOISTING-BRIGHT IRON

For passenger and freight elevators and inside transmission only

The toughest, strongest, longest wearing rope you've ever used! 114 sturdy steel wires in 6 strands—each carefully tempered for strength and flexibility.

Lubricated hemp center prevents internal corrosion.

Nos.	Per Foot	Diam., In.	App. Circ. Inches	App. Breaking Strain, Tons	Proper Working Load, Tons	Minimum Dia., Drum or Sheave Inches	Wt. Per Foot, Ozs.	Std. List, Per Foot
#CB IH1	\$0.39	1	3	14.5	2.90	6.6	251/4	\$0.26
# CB IH 7/8	.32	7/8	23/4	11.8	2.36	5.5	1914	.21
# CB IH3/4	.27	34	21/4	8.5	1.70	4.5	141/4	.17
# CB IH 5/8	.22	5/4	2	6.	1.20	4	10	.13%
# CB IH9/16	.19	20	134	4.7	.94	3.5	8	.111/4
# CB IH 1/2	.15	1/4	11/2	3.9	.78	3.	61/4	.091/2
# CB IH7/16	.13	71	11/4	2.9	.58	2.75	31/2	.081/2
# CB IH 3/8	.12	3/8	11/8	2.4	.48	2.25	21/2	.071/2
# CB IH5/16	.11	700	1	1.5	.30	2.	1 3/3	.0634
# CB IH 1/4	.10	1/4	3/4	1.1	.22	1.50	- 73	.061/2

#### STANDARD HOISTING-CAST STEEL

Particularly adapted for service in mines, derricks, hay presses and inclined planes, cableways, cargo and coal hoists, conveyors and skip hoists.

The wire used in the construction is of the best quality of cast steel, possessing double the strength of iron in the same diameter.

# CB CS1 # CB CS 1/8 # CB CS 3/4 # CB CS 3/4 # CB CS 1/2 # CB CS 3/8 # CB CS 5/16 # CB CS 3/4	\$0.35 .28 .23 .18 .13 .11 .10 .09½	7/8 3/4 5/8 1/2 3/8 1/4	3 2¾ 2¼ 2 1½ 1% 1	29.5 22.8 16.8 11.8 7.7 4.5 3.2 2.1	5.9 4.5 3.3 2.3 1.9 .9 .6	6.6 5.5 4.5 4. 3. 2.25 2.	25¼ 19¼ 14¼ 10 6¼ 3¾ 2½ 1%	\$0.31 .25 .20½ .15¾ .12 .09½ .09½
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#### HOISTING; MONITOR STEEL; BRIGHT WIRE

Particularly adapted to use on derricks, dredges, stump pullers, skidders, ballast unloaders, and for logging purposes. Carefully selected, high grade, improved, the most powerful wire rope made. For service where great strength is required it has no equal.

reduited to vitto r	to origination.							
#CB MS1	\$0.53	1	3	45.	9.	4	251/4	\$0.50
#CB MS 1/8	.42	7/8	23/4	35.	7.	31/2	191/4	,39
#CB MS 1/4	.32	3/4	21/4	26.3	5.3	3	141/4	.31
#CB MS 1/8	.24	5/8	2	19.	3.8	21/2	10	.221/2
# CB MS 1/2	.18	1/2	11/2	12.1	2.4	2	61/4	.17
#CB MS 1/8	.15	3/8	11/8	6.75	1.35	11/2	31/2	.141/2
#CB MS1/4	.14	1/4	3/4	3.15	.63	1	1%	.13

Furnished with wire core at an advance of 15% over above prices.

When ordering state stock number and for what purposes rope is to be used.

The manufacturers are prepared at their works for splicing rope to make endless. Write for prices.

Put up in coils and reels. No extra charge for reels. Can be furnished any length desired. We cannot accept the return of cut lengths of wire rope.

#### **‡IRON WIRE SASH CORD**

### \*WIRE CABLE



Used principally for window weights, bell cords, automobile brakes, whistles and shades.

Consists of six strands, each strand seven wires, and cotton core.

	GALVA	NIZED I	RON WII	&E		
Nos.	Per Ft.	Diam.,	The Marie Control	Per 100	Std. List, Per	
The second secon		In.	Lbs.	Ft., Lbs.	100Ft.	
# CB G26	\$0.041/2	1/4	2200	10.10	\$4.00	
# CB G27	.04	34	1800	7.7	3.50	
#CB G271/2	.031/2	10	1400	5.6	3.00	
# CB G28	.021/2	1/8	550	2.5	2.25	
#CB G281/2	.021/4	32	320	1.4	2.00	
	BRIG	HT IRO	N WIRE			
#CB 26	.03	3/4	2200	10.10	3.00	
# CR 27	.02.3/	35	1800	77	2.75	



#### SINGLE GALVANIZED STRAND OR GUY ROD

Seven galvanized fence wires. Twisted.

For guys, single cord, street railways, telephone companies, electric light plants, fencing and such purposes where little tensile strength and no flexibility is needed

Nos.	Per Ft.	In.	Lbs.	Ft., Lbs.	100Ft.	and an inexp	pensive su	bstitute	for wire	rope is	desired.
CB G26	\$0.041/2	1/4	2200	10.10	\$4.00						
CB G27	.04	32	1800	7.7	3.50						-
CB G271/2	.031/2	30	1400	5.6	3.00						Std.
CB G28	.021/2	1/8	550	2.5	2.25				Breaking	Weight	List,
OB G281/2	.021/4	32	320	1.4	2.00			Diam.,	Strain,	Per 100	Per
	BRIGHT	IRON		4000	15.00	Nos.	Per Ft.	In.	Lbs.	Ft., Lbs.	100Ft.
CB 26	.03	1/4	2200	10.10	3.00	# CB GS1/4	\$0.06	1/2	8500	51	\$5.50
CB 27	.023/4	32	1800	7.7	2.75	( A)		100	200	200	
CB 271/2	.021/4	10	1400	5.6	2.25		.04	3/8	5000	29	3.50
OB 28	.013/4	1/8	550	2.5	1.75	# CB GS5/16	.02 %	76	3800	21	2.50
CB 281/2	.01 1/2	20	320	1.4	1.50	# CB GS 1/4	.02	1/4	2300	12	1.75

In reels of 500 and 1000 feet. Also cut lengths.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

## BLOCKS

FOR MANILA ROPE

Varnished hardwood shell, cross-bolted. Japanned cast-iron single sheave. Japanned head, straps, hinge, and hook or eye.

#### STANDARD OR DROP LINK PATTERN

With hinged swivel hook

With loose hook

#CY 385-Iron bushed.

#CY 387-Iron bushed.

#CV 385R-Roller bushed.

#CY 387R-Roller bushed.

No			

	Iron	Bushed	Roller	Bushed	Phosphor Br	onze Bushed		For	
Length		Std.	24000000	Std.		Std.	Size	Diam.	Wt.
Shell,		List,		List,		List,	Sheave,	Rope,	Each,
Inches	Each	Each	Each	Each	Each	Each	Inches	Inches	Lbs.
6	\$ 3.10	\$ 4.00	\$ 3.60	\$ 4.65	\$ 4.15	\$ 5.25	3 x11/8 x 1/2	7/8	6
7	3.70	4.75	4.25	5.50	4.65	6.00	31/2 x1 1/4 x 1/2	7/s	81/2
8	4.49	5.75	5.15	6.60	5.65	7.25	4½x1%x %	1	12
9	5.30	6.75	6.00	7.75	6.60	8.50	5 x1%x %	11/8	15
10	6.65	8.50	7.85	10.00	8.60	11.00	5% x1% x %	11/4	21
12	8.98	10.00	10.30	11.50	12.30	13.00	6 1/4 x 2 1/8 x 8/4	11/2	31
14	12.59	13.00	14.45	15.00	15.85	16.50	8 x21/4 x 7/8	1%	44
16	17.65	17.00	20.65	20.00	22.65	22.00	9 x25/sx1	2	63
18	30.90	25.00	34.95	28.50	37.95	31.00	10 x3 x1	234	89
20	46.90	38.00	52.85	43.00	56.50	46.00	11 x3½x1¼	*21/2	128
22	67.65	55.00	77.25	63.00	83.25	68.00	11% x4 4 x1 1/2	3	165
24	85.85	70.00	98.85	78.00	104.85	86.00	121/2×41/2×11/2	31/2	210
26	109.50	90.00			134.50	110.00	14 x434x134	4	250

#### MALLEABLE IRON SHELL

#### FOR MANILA ROPE TAR BOX PATTERN

Plain bushed. Safe-head cannot become unlocked accident-ally, the locking device is simple to operate, effective.

Hub bearing sheaves reduce fric-

tion to a minimum.

Strong, extremely well made with malleable iron shell with rounded edges, painted red, and japanned cast-iron plain bushed sheaves.



Diam.

#### FOR WIRE ROPE

STEEL SHELL

Japanned steel shell, with steel braces or bolts. Cast-iron japanned single sheave. Wrought-iron straps, link and hinged swivel

CY 940-Iron bushed.

#CY 940

Std.

CY 940B-Phosphor bronze or metalline bushed, self-lubricating.

#CY 940B

Std.

Wt.

For

CB 401/6	CB 401/8
6	8
3	41/2
. 7/8	1
121/4	151/2
81/2	13
\$4.50	6.50
4.29	6.35
	6 3 . % 12¼ 8½ \$4.50



STEEL SI

### FOR MANILA ROPE

#### Plain Bushed

Japanned pressed steel shell. Running full length of strap on the side opposite link, Japanned cast-iron plain bushed sheaves, wrought-iron head, straps, link and swivel hook, and steel axle pin.

	Diam		Std.		Std.	FOF	Wt.
	Sheav	e.	List,		List,	Rope,	Each,
	Inches		Each	Each	Each	Ins.	Lbs.
	10	\$11.90	\$16.00	\$13.50	\$18.00	5/8	38
	12	13.50	18.00	15.65	21.00	5/8	55
	14	17.45	20.00	20.95	24.00	3/4	75
	16	27.35	28.00	31.85	33.00	3/4 7/8	120
	18	50.45	38.00	57.95	44.00	1	170
	20	65.65	50.00	75.75	58.00	11/4	235
Н	ELL						
	Nos.		CE	390/7	CB 390/8	CB	391/0
	Toth	Shall In		7	8		10

Note: When ordering-state number and specify diameter of sheave.

Lgth. Shell, In. 31/2 Diam. Sheave, In. 51/2 For Rope Diam., In. % to % 1 to 11% 1¼ to 1% 111/2 14 17 Lgth. Over All, In. Weight Each, Lbs. 10% 191/4 \$4.75 Std. List, Each 5.75 8.50 Each 4.25 5.00 7.50

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Block Open

BALL PATTERN

## TACKLE BLOCKS

#### REGULAR-IRON STRAPPED FOR MANILA ROPE

Varnished, hardwood shell, riveted together. Japanned, cast iron sheave. Wrought iron straps. Loose hook and



Nos.

**CB 26R8** 

2,60





### PATENT ROLLER BUSHED SINGLE SHEAVE—ALL WITH BECKETS

For Lgth. Diam. Rope Wt. Std. Shell, Shvs., Dia., Lgth., Each, List, Each In. In. In. In. Lbs. Each **CB 26R4** \$1.25 4 21/4 91/4 11/2 \$1.20 **CB 26R5** 1.35 5 3 13 234 1.25 31/2 **CB 26R6** 1.50 6 14 4 1.50 41/4 **CB 26R7** 1.75 7 15 5% 1.70

181%

81/4

2.25

					100 mm	15-74-	
DOUBLE	SHEAT	VE-	ONE-I	IALF	WITH	BECK	ETS
CB 27R4	\$2.30	4	21/4	1/2	914	21/6	\$2.25
CB 27R5	2.40	5	3	5/8	13	41/4	2.35
CB 27R6	2.90	6	31/2	3/4	14	61/2	2.85
CB 27R7	3.50	7	41/4	7/8	17	91/2	3.35
CB 27R8	4.95	8	4%	1	19	13	4.15

434

#### TRIPLE SHEAVE-ONE-THIRD WITH BECKETS 21/4 **CB 28R4** \$3.25 4 10 \$3.25 **CB 28R6** 4.50 6 336 91/2 15 4.40

#### PLAIN BUSHED-FOR MANILA ROPE SINGLE SHEAVE—ALL WITH BECKETS

For Lgth, Diam. Rope Wto Std. Shell, Shve., Dia., Lgth., Each, List. Nos. Each In. In. In. In. Lbs. Each CB 26/3 \$0.75 3 1% 3/8 71/2 1 \$0.70 21/4 CB 26/4 1/2 .89 91/4 4 11/2 .85 5/8 CB 26/5 .95 3 21/2 5 111/2 .90 CB 26/6 1.15 6 31/2 34 13 4 1.10 CB 26/7 1.39 7 414 7/8 15 5% 1.30 CB 26/8 1.95 8 5 1 19 81/2 1.65

#### DOUBLE SHEAVE-ONE-HALF WITH BECKETS CB 27/3 1.39 3 1% 8 11/2 1.30

CB 27/4 21/4 1.65 4 21/2 101/4 1.60 % CB 27/5 3 1.79 5 121/2 41/4 1.75 CB 27/6 CB 27/7 2.10 6 31/2 14 61/2 2.00 2.50 7 41/4 17 9 2.40 CB 27/8 3.40 8 5 1 19 111/2 2.85

#### TRIPLE SHEAVE—ONE-THIRD WITH BECKETS

CB 28/4 2.15 21/4 4 10% 2.15 CB-28/5 2.30 5/8 3/4 3 121/2 5 5% 2.25 CB 28/6 31/2 151/2 3.00 6 9 2.90 CB 28/7 3.60 7 414 17 11% 3,50 CB 28/8 5.00 8 5 1 19 13 4.25

Packing-bulk

OVAL STEEL







No. CB 261

No. CB 262

No. CB 263

#### ANVIL PATTERN FOR MANILA ROPE

Steel hook, shell, pin and strap japanned. Regular mortise. Plain iron bushed, with beckets.

#### SINGLE SHEAVE—PLAIN BUSHED

				For		
37		Block,	Diam. Sh'ves,	Rope Diam.,		Std. List,
Nos.	Each	In.	In.	In.	Lbs.	Each
CB 261/3	\$0.55	3	2	3/8	7/8	\$0.70
CB 261/4	.69	5	21/4	1/2	11/4	.85
CB 261/5	.75	5	234	5/8	2	.90
OB 261/6	.89	6	31/4	3/4	3	1.10
CB 261/7	1.00	7	41/4	7/8	434	1.30
CB 261/8	1.65	8	4 3/4	1	634	1.65
CB 261/10	2.80	10	6	11/4	8	2.75
	1	DOUBL	E SHE	AVE		
CB 262/3	\$1.00	3	2	3/8	11/2	\$1.30
CB 262/4	1.25	4	21/4	1/2	2	1.60
CB 262/5	1.39	5	23/4	5/8	23/4	1.75
CB 262/6	1.50	6	31/4	3/4	5	2.00
CB 262/7	1.90	7	41/4	7/8	7%	2.40
CB 262/8	2.95	8	4 3/4	1	101/4	2.85
		TRIPL	E SHE	AVE		
CB 263/4	\$1.65	4	21/2	1/2	4	\$2.15
OB 263/5	1.85	5	234	5/8	5	2.25
CB 263/6	2.25	6	31/2	3/4	7	2.90
CB 263/7	2.75	7	41/4	7/8	11	3.50
CB 263/8	4.35	8	5	1	15	4.25
		Pack	ing—bu	lk.		



# ENAMELWARE

IS

Long Wearing, Easy to Clean

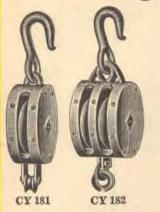
and

Attractive

When ordering-specify number of blocks wanted with beckets.

## \*Heavy Thick Mortise Tackle Blocks

FOR MANILA ROPE



Length

16

10x1 %x%

11x21/x1

134

17.45

21.95

11.00

14.00

For

Single blocks, all with beckets. Double, one-half with beckets. Triple, one-third with beckets.

Weights of roller bushed blocks same as corresponding iron bushed.

Varnished hardwood shell, double cross-bolted. Japanned cast iron sheaves, wrought straps, with beckets.



#CY 183 - Triple

Std.

Wt.

WITH EXTRA HEAVY LOOSE SIDE HOOKS AND STRAPS IRON BUSHED #CY 181 - Single #CY 182 - Double

Std.

Wt.

Wt

Std.

Length	No NO	FOF		istu.	W.		Std.	Wt.		Std.	Wt.
Shell,	Size Sheave,	Rope,		List	Each,	2000	List	Each,	1000	List	Each.
Inches	Inches	Inches	Each	Each	Lbs.	Each	Each	Lbs.	Each	Each	Lbs.
7	4x11/4x1/4	1	\$ 2.49	\$ 2.25	8	\$ 4.39	\$ 4.00	13	\$ 5.95	\$ 5.50	17
8	4%x1%x5%	11/8	2.98	2.75	12	4.98	4.50	19	6.98	6.30	
9	51/2×13/8×5/8	11/8	3.49	3.15	17	5.85	5.25				26
10	614 x1 1/2 x 1/4	11/4	4.49					25	- 7.95	7.25	35
	0 74 X1 72 X 74			4.00	20	7.25	6.50	31	9.45	8.50	43
11	7x1½x¾	11/4	7.59	5.25	26	11.95	8.50	38	17.95	12.50	62
12	8x1%x%	11/4	7.69	5.25	32	11.95	8.50	45	18.15	12.50	72
13	9x1%x%	11/2	11.59	8.00	42	18.85	13.00	62	24.65	17.00	82
14	91/4 x1 1/8 x 1/8	1 3/4	11.69	8.00	51	18.95	13.00	72	24.75	17.00	96
15	10x1%x%	184	13.15	9.00	55	23.85	15.00	80	28.95		
16	11x2¼x1	2	16.79	11.50	67	26.35	18.00			20.00	112
10.	TIME 74 AL		10.10	11.00	01	20.00	18.00	110	40.75	28.00	148
				ROI	LLER BI	ISHED					
			#CY	181R — S			182R — D	ouble	1 4000	183R — T	atata
7	4x11/4x1/2	1	\$ 3.29	\$ 3.00	8	\$ 5.95	\$ 5.50		0 0 45	10011-1	
8	4%x1%x5%	11/8	3.85	3.50				13	\$ 8.45	\$ 7.75	17
	194 X 1 78 X 78				12	6.59	6.00	19	9.45	8.55	26
9	51/2x13/8x5/8	11/8	4.49	4.00	17	7.65	6.95	25	10.80	9.80	35
10	6¼x1½x¾	114	5.80	5.25	20	9.89	9.00	31	13.50	12.25	43
11	7x1½x¾	134	9.39	6.50	26	15.79	11.00	38	23.45	16.25	62
12	8x1%x¾	11/4	9.45	6.50	32	15.85	11.00	45	23.50	16.25	72
13	9x1%x%	11/2	13.95	9.75	42	23.75	16.50	62	31.95	20.20	
14	91/2 x1 7/8 x 7/8	184	14.15	9.75	51	23.85				22.25	82
15					100000		16.50	72	32.15	22.25	96
	10x1%x%	1%	15.95	11.00	55	27.40	19.00	80	37.50	26.00	112
16	11x21/4x1	2	19.25	14.00	67	33.30	23.00	110	51.25	35.50	148
		,	VITH EX	TRA HEA	VY SHA	CKLES A	ND STRA	PS			
			#CY	7 201 — Sin	ngle	+CY	202 - Do	uble	I #CV	203 — Tr	inla
Length		For		Std.	Wt.	13.00	Std.	Wt.		Std.	Wt.
Shell.	Size Sheave,	Rope.		List	Each.		List	Each,		List	
Inches	Inches	Inches	Each	Each	Lbs.	Each	Each		Wante	List	Each,
7	4x11/4x1/4	1	\$ 2.95	\$ 2.25	8			Lbs.	Each	Each	Lbs.
8						\$ 5.20	\$ 4.00	13	\$ 7.15	\$ 5.50	17
	4%x1%x%	11/8	3.59	2.75	12	5.90	4.50	19	8.25	6.30	26
9	5%x1%x%	11/8	4.19	3.15	17	6.90	5.25	25	9.50	7.25	35
10	614x114x34	114	5.29	4.00	20	8.59	6.50	31	12.20	8.50	43
11	7x11/2x8/4	134	8.29	5.25	26	13.45	8.50	38	19.79	12.50	62
12	8x1%x%	11/2	8.39	5.25	32	13.55	8.50	45	19.89	12.50	72
13	9x1%x%	11/2	12.69	8.00	42	20.60	13.00	62	26.89		
14	91/2 x1 7/8 x 7/8	134	12.79	8.00	51	20.70	13.00	72		17.00	82
15	10x1%x%	134	14.35	9.00	55			100000000000000000000000000000000000000	27.10	17.00	96
					100000	23.80	15.00	80	31.79	20.00	112
16	11x21/4x1	2	18.35	11.25	67	28.70	18,00	110	44.50	28.00	148
				ROI	LLER BU	ISHED					
			#CY	201R - S	ingle	#CY	202R - D	ouble	# CV	203R — T	rinto
7	4x11/4x1/2	1	\$ 3.89	\$ 3.00	8	\$ 7.10	\$ 5.50	13	\$ 9.95	\$ 7.75	
8	4%x1%x5%	11/8	4.50	3.50	12	7.49	6.00	19	11.15	9 1.10	17
9	5%x1%x%	11/8	5.25	4.00	17	8.95	6.95	25		8.55	26
10	614x11/2x34	114	6.85	5.25	20				12.75	9.80	35
11		1.17				11.75	9.00	31	15.95	12.25	43
	7x1½x¾	11/4	10.25	6.50	26	17.25	11.00	38	25.50	16.25	62
12	8x1%x%	11/4	10.35	6.50	32	17.35	11.00	45	25.65	16.25	72
13	9x1%x%	11/2	15.35	9.75	42	25.95	16.50	62	26.95	22.25	82
14	91/2 x17/8 x 7/8	134	15.55	9.75	51	26.10	16.50	72	34.95	22.25	96
15	10x1%x%	134	17.45	11.00	55	29.95	19.00	80	40.85	26.00	00

Packing - bulk. Note: When ordering-specify number of blocks wanted with beckets.

55

67

29.95

36.25

19.00

23.00

80

110

# Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

40.85

55.95

26.00

35.50

112

148

## \*Steel Tackle Blocks



#### FOR WIRE ROPE

Japanned steel shell, with steel braces or bolts. Cast-iron japanned sheaves and supplementary rollers at middle corners. Wrought iron straps, swivel hooks or shackles, and beckets.

Single blocks, all with beckets. Double, onehalf with beckets. Triple, one-third with beckets.

Weight of bronze or metaline bushed blocks same as corresponding iron bushed.



#### WITH SWIVEL HOOKS

IRON BUSHED											BRONZE OR METALINE BRICATING BUSHED					
	#CY 641C— #CY 642C— Single Double Diam. For Std. Wt. Std. Wt.						100000000000000000000000000000000000000	Y 643C- Triple	-		641B—		TOUR PROPERTY OF THE PROPERTY			
Diam. Sheave,	For			Wt. Each,			Wt. Each,			Wt.	-	Std. List.	-	TO SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE		Std. List.
Ins.	Ins.	Each	Each	Lbs.	Each	Each	Lbs.	Each	Each	Lbs.	Each	Each		Each		Each
10 12	5/8 5/8	\$ 8.75 12.50		47	\$12.95 17.75	17.00	75	\$17.45 23.95	23.00	100	The second second					
14 16	3/4 7/8	17.45 26.75	14.00 21.50		23.80 38.65	19.00		32.50 45.95		130		Control of the Control	017		40.25 58.75	THE RESERVE OF THE PARTY OF THE
	10					Service 1	-	CIWW A	-	-						

#### WITH SHACKLE

								PARKER.	CARALI							
		# C	Y 651C-	_	20121	Y 652C		#C	Y 653C	_	#CY (	551B—	#CY (	652B—	+CY (	553B—
Single			Double Triple		Single		Double		Triple							
10	5/8	\$ 8.75	\$10.00	33	\$12.95	\$15.00	50	\$17.45	\$20.00	71	\$10.25	\$13.00	\$16.45	\$21.00	\$21.95	\$28.00
12	5/8		12.00		17.75	17.00	75	23.95	23.00	100	14.45	15.00	22.25	23.00	29.95	31.00
14	3/4	17.45	14.00	65	23.80	19.00	100	32.50	26.00	130	19.85	17.00	29.35	25.00	40.25	34.00
16	7/8	26.75	21.50	97	38.65	31.00	147	45.95	39.50	210	29.30	25.00	44.45	38.00	58.75	50.00
						1										







CY 743C

#### DIAMOND PATTERN, EXTRA HEAVY

Japanned steel shell. Separate shell for each sheave, with heavy steel braces or butts or bolts. Cast-iron japanned sheaves, and supplementary rollers at middle corners. Wrought iron straps, swivel-hooks or shackles, and beckets. The center straps in double and triple blocks extend full length of shell, furnishing proper support for center pin in middle of the block. Single blocks, all with beckets. Double, one-half with beckets. Triple, one-third with beckets.

Weights of bronze or metaline bushed blocks same as corresponding iron bushed.

### WITH SWIVEL HOOKS

	IRON BUSHED										SELF-LUBRICATING BUSHED					
		#C	Y 731C	Dillion		Y 732C		# CY 733C-			#CY 731B-		#CY 732B-		±CV 789R_	
		Single DOUBLE			Triple			Single		Double		Triple				
Diam.	For		Std.	Wt.		Std.		1	Std.			Std.		Std.	-	Std.
Sheave,	Rope,		List,	1000		List,			List,			List,		List,		List,
Ins.	Ins.	Each	Each		Each	Each		Each	Each				Each	Each	Each	Each
10	5/8	\$13.25	\$14.00	42	\$17.65			\$24.75	1000					\$26.00	\$29.25	\$37.00
12	3/4	18.35	16.00	-	26.45		100000	35.50		123635	19.65		14.00.410.00	29.00	42.50	41.00
14	3/4	24.85	18.00		34.65			49.85		The second second	26.15		200000	31.00	55.85	45.00
16	7/8	33.50	31.00		55.35			63.95			44.45	36.00		50.00	88.95	72.00
18	1	47.65	34.50	165	62.75	45.00	275	83.50	60.00	350	49.65	40.00	69.95	56.00	96.85	78.00
						W	ITH	SHA	CKLI	E						

						44	RAAR	SHITT	CHARLE	1.2						
		# C	Y 741C	_	#C	Y 742C	_	#C	Y 743C	_	#CY	741B-	+CY	742B-	# CY 7	43B-
			Single		]	Double			Triple		Sin	gle	Dot	able	Tri	ple
10	5/8				\$17.65		85	\$24.75	\$28.00	120	\$13.35	\$17.00	\$20.95	\$26.00	\$29.25	\$37.00
12	8/4	18.35	16.00	65	26.45	23.00	110	35.50	31.00	160	19.65	19.00	29.95	29.00	42.50	41.00
14	3/4	24.85	18.00	82	34.65	25.00	135	49.85	36.00	200	26.15	21.00	38.45	31.00	55.85	45.00
16	7/8	33.50	31.00	120	55.35	40.00	200	63.95	46.00	275	44.45	36.00	61.85	50.00	88.95	72.00
18	1	47.65	34.50	165	62.75	45.00	275				49.65					
							73	taken - to							-	

Packing-bulk.

Note: When ordering—state number and specify diameter of sheave. Also specify number of blocks wanted with beckets. 

# Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### TACKLE BLOCK SHEAVES

#### FOR WIRE ROPE BLOCKS

Extra deep grooved edge to prevent rope from slipping. Japanned cast iron, with perforated body.



No. CB 1161 Iron Bushed

No. CB 1173 Phosphor Bronze or Metaline Bushed

		- 1			Thick		
	CB 1	161	CB 1	173	ness	For	
Size		Std.		Std.	at	Wire	Wt.
Sheave,		List,		List,	Hub,	Rope, I	Cach,
Inches	Each	Each	Each	Each			Lbs.
3x1/2x3/8	\$0.27	\$0.20	\$0.95	\$0.75	1/2	1/4	½ 1
4x 5/8 x 1/2	.55	.40	1.55	1.25	3/4	10	1
4x3/4x1/2	.55	.40	1.55	1.25	10	3/8	11/2
5x 1/8 x 8/8	.80	.60	1.65	1.35	11	%, 1/2	21/4
6x3/4x5/8	1.00	.80	1.95	1.50	1	3/8	21/4
6x1x3/4	1.00	.89	2.20	1.60	110	3/8	31/2
7x1x3/4	1.65		2.50	2.00	110	1/2	5
8x1x3/4	1.65	1.30		2.00		1/2	
8x1 1/4 x 7/8	2.15	1.60	3.65	2.70		5/8, 1/2	5½ 7
9x1 1/4 x 1/8	2.85	2.20	4.25	3.30	13%	5/8	10
10x1x7/8	2.25	1.60	3.45	2.50		1/2	10
10x11/4x7/8		2.20	4.25	3.30	13%	5/8	11
10x1 1/2x1	3.55	2.60	5.15	4.10	1%	5% -	13
12x11/4x1	4.40	3.40	5.60		1%	5/8	13
12x11/2x1	4.75	3.50	5.95		1%	3/4	15
14x11/2x11/8		5.30	8.85	6.80	1%	3/4	24
16x1 1/2 x1 1/4	8.45	6.30	10.25	8.60	1%	3/4, 7/8	33

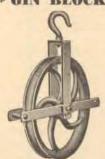
When ordering—specify number and size wanted.

Japanned cast iron with concaved edge to prevent rope slipping.

#### PLAIN IRON BUSHED FOR MANILA ROPE

Nos.	Each	For Block, In.	Diam. Sheave, In.	For Rope, In.	Wt. Per Doz., Lbs.	Std. List, Per Doz.
CB 11014	80.17	4	21/4	1/2	6	\$1.44
CB 11015	.27	5	3	5/8	8	2.40
CB 11016	.39	6	31/4	3/4	12	3.00
CB 11017	.45	7	41/4	7/8	18	3.60
CB 11018	.59	8	5	1	24	4.20
CB 110110	1.10	10	61/4	11/8	36	6.60
	1	Packing-	-bulk.			

#### # GIN BLOCKS



SPECIAL LIGHT

Forged steel hook, frame and pin. Gray iron sheave, roller bushed.

Nos.	Each	Diam. Sheave, In.	For Rope, In.	Wt. Each, Lbs.	Std. List, Each
#CY 35010	\$3.95	10	% to 1	12	\$4.00
<b>#CY 35012</b>	5.35	12	% to 1	14	4.40
#CY 35014	6.50	14	1	22	6.60
	P	icking_bu	He		

\* TACKLE BLOCK SHEAVES
FOR REGULAR ROPE BLOCKS



#### For Manila Rope

Japanned cast iron in spoke pattern, with grooved edge to prevent rope slipping.



No. CB 1102

Iron Bushed
#CB 1101—Regular
PH

10 1		No.	WV U.	Stu.
Block,	-	Size of	Each,	List,
Inches	Each	Sheave, Inches	Lbs.	Each
3	\$0.14	1%x1/2x%	1/8	\$0.09
4	.17	21/4×5/4×3/8	1/2	.12
5	.27	3x 3/4 x 3/8	1	.20
6	.39	3½x1x½	11/2	.25
6 7 8	.45	4½x1x½	134	.30
	.59	4% x1% x5%	2 3	.35
10	1.10	61/4 x11/4 x 1/8	3	.55
	‡CB	1111—Thick Mortise	В	
8	.75	4%x1%x%	2 %	.40
10	1.29	614x11/2x34	3 1/8	.65
12	2.15	8x1%x¾	6%	1.05
14	2.35	91/2×17/8×7/8	11	1.50
16	3.15	11x2¼x1	171/2	2.00
	1	Roller Bushed		
	#(	OB 1102—Regular		
3	.45	1%x1/2x3/8	1/8	.40
4	.49	21/4 x 5/8 x 3/8	1/2	.45
4 5 6 7	.65	3x3/4 x3/8	1	.55
6	.75	3½x1x½	11/2	.65
7	.89	4½x1x½	134	.75
8	1.25	4%x1%x%	1 ¾ 2	1.00
10	1.65	61/4 x11/4 x 7/8	3	1.35
	# CB 1	1112—Thick Mortise		
8	1.45	4%x1%x5%	23/4	1.15
10	2.39	61/4 x11/2 x 3/4	35%	1.60

When ordering—specify number and size wanted.

Packing-bulk.

# KEEN KUTTER

# QUALITY

Saves You Time,

Effort and Money.

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## \* Wright Hand Traveling Cranes

#### TIMKEN TAPERED ROLLER BEARINGS



#### SINGLE BEAM CRANE TYPE B-9

Wright hand traveling cranes are built in any desired capacity and to suit any special or exacting specification. They can be furnished in the regular overhead or underhung type, constructed with single or double beam, with the bridge beam set down to save headroom or with it built on top of the end trucks, or, in fact, any way that the building construction might demand. The use of crane wheels that run on T-rails are recommended but cranes can be furnished with wheels to operate on channels, or on the top flanges or the lower flanges, of I-beam track.

Wright hand cranes are constructed with built up structural steel end frames. These trucks are not only lighter and stronger than cast ones, but the chance of breakage due to a defective casting is eliminated. The trucks are rigidly braced to the bridge member, and are thus prevented from working out of alignment, no matter how severe the service.

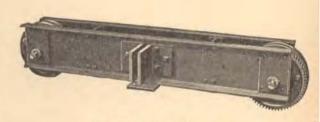
All truck wheels run on Timken tapered roller bearings (two to a wheel) which are supported on large steel axles securely bolted into the truck frame. The Timken bearing, because of its tapered design, absorbs not only all radial but also all thrust load and allows the crane to be operated along the runways with from 35 to 50 per cent of the effort required for cranes fitted with plain or plain roller bearings.

A squaring shaft of cold rolled steel is geared to one wheel on each end truck and assures uniform travel of both sides of the crane, preventing any tendency to bind. Keyed to this squaring shaft is the handwheel, which is operated by a pendant chain. A loop chain guide prevents the hand chain from ever sagging or leaving the handwheel pockets.



#### DOUBLE BEAM UNDERHUNG CRANE TYPE B-36

In quoting, it is necessary that we have the weight of the load to be handled; the distance from center to center of the runway track; the distance from the center of the runway track to the wall; the distance from the top of the track to the ceiling, and the height of the track from the floor.



#### CRANE END TRUCK

End trucks can be furnished separately either with or without squaring shaft, handwheel and pendant chain, so that you may purchase the necessary I-beam locally and fabricate the crane in the shop.

Note—Cranes can be furnished wired for use with Wright electric hoists.

Note—Complete data and price for complete cranes furnished on receipt of specifications indicating crane requirements.

#### WRIGHT HYATT BEARING TROLLEYS



Wright Hyatt bearing trolleys are constructed with heavy steel side plates and chilled tread wheels, which revolve on Hyatt bearings.

A heavy, cold-rolled steel equalizing pin connects the two halves of the trolley. This not only equalizes the load and takes care of any irregularities of the track, but also permits

the trolley to be adjusted for sizes of I-beam other than standard. It can be easily removed so that the trolley can be placed on the track at any point.

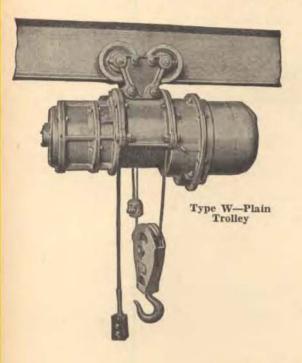
The side plates extend beyond the trolley wheels and act as bumpers. The wheels are supported by heavy steel axles. Although the trolley is of rugged construction, it is extremely flexible and operates smoothly around a very small radius curve.

#### PLAIN-NOT GEARED

Nos.	Std. List, Each	Rated Capacity, in Tons	Adjustable for Standard I-Beams	Smallest Radius Curve, Inches	Diam. of Thread of Wheel, Inches	Net Weight Each, Lbs.
CX 181/2	\$30.00	1/2	5, 6, 7, 8	19	3%	31
CX 181	35.00	1	6, 7, 8, 9	20	4%	44
CX 1811/2	45.00	11/2	7, 8, 9, 10	29	5%	84
#CX 182	58.00	2	8, 9, 10, 12	35	6%	107
<b>#CX 183</b>	75.00	3	9, 10, 12, 15	42	71/4	136

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

## WRIGHT ELECTRIC HOISTS



#### TYPE W

Single construction, low upkeep. Highly recommended for installation where high operating speeds, economical operation and low cost maintenance are first essentials.

FOR SPECIFICATIONS AND PRICES . . . SEE FOLLOWING PAGE

#### OUTSTANDING FEATURES IN DESIGN:

 Motors—The motors are especially designed for this type of hoist—dust-proof and weather-proof for both indoor and outdoor service. The windings are heavily impregnated to protect against moisture. Ball bearings reduce friction to a minimum.

Direct current motors are of the series type—two pole, with interpoles for ratings larger than two horse-power. They will start across the line with rheostats when single speed control is used.

Squirrel-cage induction motors (high resistance type) are furnished for single speed hoists to be used with alternating current. They give a maximum starting torque with low starting current—not over 2½ to 3 times the normal full load current. Slip-ring A. C. motors are used for variable speed control.

Controls—Either pendent cord or push button control
is furnished for single speed hoists. The control
switch carries only current for energizing contactor
and not load current. The control contactors for
making and breaking the main circuit are of the
mechanical interlocking type.

The variable speed controller works in connection with a mechanically interlocked, reversing type contactor for making and breaking the main circuits. The controllers are of the face-plate type and are fully enclosed—a protection against dust and weather. Both A.C. and D.C. controllers are the same type, except for changes due to the different current characteristics.

 Limit Switch—The safety type limit switch is weight operated. The hoist will not operate if the limit switch weight becomes disconnected or improperly connected. Should the load block drift excessively after the circuit is opened, the limit switch momentarily establishes a lowering circuit and thus positively prevents the load block from jamming the drum.

- Tru-Lay Cable—Tru-Lay is more flexible and outlasts ordinary wire rope for hoists because it is preformed. There is no tendency to unstrand and the internal tortional stress is removed. Tru-Lay bends easily and hugs closely to the drums and sheaves with less slippage.
- Drums—In order to insure efficient operation and extra long cable life, the drums are at least thirty times the diameter of the Tru-Lay Cable. Machine cut grooves (for the entire lift) prevent the cable from overlapping. The drum flanges are guarded so that the cable cannot wedge between the drum and hoist frame.
- Safety Type Load Blocks—The sheaves of the load blocks are completely shrouded to prevent accident.
- Brakes—The mechanical brake is adjustable from the outside. The large brake area and low operating pressure insures long life with little wear under severe service conditions. The brake action is positive and unaffected by overload or temperature.

The stopping brake is of the motor solenoid type. The brake provides for accurate control and has the same capacity as the mechanical holding brake. It is easily adjustable to suit any control conditions. Special linings insure long life.

Materials—The shafts and gears are made of alloy steel.
 The motor coupling and connections are of the splined type, insuring a positive drive.

The gears and pinions are precision cut (20° stub teeth) from forged steel blanks and heat-treated. Pinions are hardened and ground.

The swivel load hooks are of forged steel and will not open to drop the load.

 Bearings—Roller bearings are used throughout except for the motors. Friction is reduced to a minimum. The motors are equipped with ball bearings.

#### **\*WRIGHT ELECTRIC HOISTS**

#### TYPE W-SPECIFICATIONS AND PRICES

Drum parallel to runway beam. Standard lift 18 feet. Two parts single cable. Single speed control pendant ropes.

	ating Current- TT TROLLEY-				V	WITH
				Ioistin	ıg	
	04.0				, Net	
	Std. List.		Con	Ft.	Wt. Each,	
Nos.	Each	Frame	Cap., Lbs.	Min.		Nos.
# CX WC01	\$ 278.30	W1/4	500	38	165	#CX WB01
#CX WC06	338.80	W1/2	1,000	35	325	#CX WB06
#CX WC12	438.33	W1	2,000	32	425	#CX WB12
‡CX WC18	597.14	W3	4,000	32	690	#CX WB18
≠CX WC24	698.78	W3	6,000	32	765	‡CX WB24
WITHOU	T TROLLEY-	-HOOK	SUSPE	NSIO	N	
#CX WC02	\$ 284.35	W1/4	500	38	170	
#CX WC07	356.95	W1/2	1,000	35	340	WITH
#CX WC13	457.38	W1	2,000	32	440	#CX WB02
#CX WC19	616.20	W3 W3	6,000	32 32	715 790	#CX WB07
‡CX WC25	718.74	yv a	0,000	04	100	<b>#CX WB13</b>
	PLAIN T	ROLLEY				‡CX WB19
#CX WC03	\$ 302.50	W1/4	500	38	195	<b>#CX WB25</b>
#CX WC08	375.10	W 1/2	1,000	35	380	
≠CX WC14	482.79	W1 W3	2,000	32 32	490 775	
#CX WC20	647.95 752.02	W3	6,000	32	850	
‡CX WC26			COM MATERIAL	-		‡CX WB03
	GEARED T			32	530	#CX WB08
#CX WC15	\$ 508.20 686.07	W1 W3	2,000	32	815	#CX WB14
# CX WC21 # CX WC27	791.95	W3	6,000	32	890	<b>‡CX WB20</b>
+CA WON	MOTOR T		28 0000	1000		<b>‡CX WB26</b>
			1,000	125	810	
+ CV SECTO	\$ 010.60			440	010	
+ CX WC10	\$ 919.60	W½ W1		125	980	
<b>#CX WC16</b>	1,060.87	W1 W3	2,000	125 125	980 1,185	
		W1	2,000			
#CX WC16 #CX WC22 #CX WC28	1,060.87 1,238.74	W1 W3 W3	2,000 4,000 6,000	125 125	1,185 1,260	+CX WB15
#CX WC16 #CX WC22 #CX WC28	1,060.87 1,238.74 1,370.93	W1 W3 W3 Cycle—2	2,000 4,000 6,000	125 125	1,185 1,260	#CX WB21
#CX WC16 #CX WC22 #CX WC28 Alternation	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5	W1 W3 W3 Cycle—2 50 Volts	2,000 4,000 6,000 and 3	125 125 Phase	1,185 1,260	
#CX WC16 #CX WC22 #CX WC28 Alternation	1,060.87 1,238.74 1,370.93 ng Current—25	W1 W3 W3 Cycle—2 50 Volts	2,000 4,000 6,000 and 3 USPEN	125 125 Phase	1,185 1,260	#CX WB21
#CX WC16 #CX WC22 #CX WC28 Alternation	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5	W1 W3 W3 Cycle—2 50 Volts	2,000 4,000 6,000 and 3 USPEN	125 125 Phase VSION oisting Speed,	1,185 1,260	#CX WB21
#CX WC16 #CX WC22 #CX WC28 Alternation	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—	W1 W3 W3 Cycle—2 50 Volts	2,000 4,000 6,000 and 3 USPEN	125 125 Phase VSION oistin Speed, Ft.	1,185 1,260 9 Net Wt.	#CX WB21
# CX WC16 # CX WC22 # CX WC28 Alternatio	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List,	W1 W3 W3 6 Cycle—2 50 Volts	2,000 4,000 6,000 and 3 USPEN H	125 125 Phase VSION oistin Speed, Ft. Per	1,185 1,260 g Net Wt. Each,	#CX WB21
# CX WC16 # CX WC22 # CX WC28 Alternatio	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S	2,000 4,000 6,000 and 3 USPEN H (Cap., Lbs.	125 125 Phase VSION oistin Speed, Ft. Per Min.	1,185 1,260 g Net Wt. Each, Lbs.	# CX WB27 # CX WB27 # CX WB10 # CX WB16
# CX WC16 # CX WC22 # CX WC28 Alternatin WITHOU Nos. # CX WD01	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List,	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S	2,000 4,000 6,000 and 3 USPEN H	125 125 Phase VSION oisting Speed, Ft. Per	1,185 1,260 g Net Wt. Each,	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
# CX WC16 # CX WC22 # CX WC28 Alternatio	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S	2,000 4,000 6,000 and 3 USPEN H S Cap., Lbs. 500	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25	1,185 1,260 9 Net Wt. Each, Lbs. 165 325 425	# CX WB27 # CX WB27 # CX WB10 # CX WB16
# CX WC16 # CX WC22 # CX WC28 Alternatio WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD18	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Ench \$ 278.30 338.80 438.33 597.14	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W1/4 W1/2 W1 W3	2,000 4,000 6,000 and 3 USPEN H 5 Cap., Lbs. 500 1,000 2,000 4,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternatio WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD18 *CX WD24	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W1/2 W1 W3 W3	2,000 4,000 6,000 and 3 USPEN H (Sap., Lbs. 500 2,000 4,000 6,000	125 125 Phase VSION oisting Speed, Ft. Per Min. 31 28 25 25 25	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690 765	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternatio WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD18 *CX WD24	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Ench \$ 278.30 338.80 438.33 597.14	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W1/2 W1 W3 W3	2,000 4,000 6,000 and 3 USPEN H (Sap., Lbs. 500 2,000 4,000 6,000	Phase VSION Oistin Speed, Ft. Per Min. 31 28 25 25 25 VSION	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690 765	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternatio  WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD12 *CX WD18 *CX WD24  WITHOU *CX WD02	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W1/2 W1 W3 W3 -HOOK S	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500	125 125 Phase VSION oistin, Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31	1,185 1,260 1,260 Net Wt. Each, Lbs. 165 325 425 690 765	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternatio  WITHOU  Nos. *CX WD61 *CX WD66 *CX WD12 *CX WD18 *CX WD18 *CX WD24  WITHOU  *CX WD02 *CX WD07	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W12 W1 W3 W3 W3 W4 W12	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 VSION 31 28	1,185 1,260 Net Wt. Each, 165 325 425 690 765	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternation WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD18 *CX WD24 WITHOU *CX WD02 *CX WD07 *CX WD07 *CX WD13	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W15 W1 W3 W3 -HOOK S W14 W15 W1	2,000 4,000 6,000 and 3 USPEN 500 1,000 2,000 4,000 0,000 1,000 2,000	Per Min. 31 28 25 25 VSION 31 28 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765	# CX WB27 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28
*CX WC16 *CX WC22 *CX WC28 Alternation WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD24 WITHOU *CX WD02 *CX WD07 *CX WD07 *CX WD13 *CX WD19	1,060.87 1,238.74 1,370.93 ang Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20	W1 W3 W3 6 Cycle—2 50 Volts -BOLT S Frame W14 W1/2 W1 W3 W3 W1/4 W1/2 W1/4 W1/2 W1/4 W1/4 W1/4 W1/4 W1/4 W1/4 W1/4 W1/4	2,000 4,000 6,000 and 3 USPEN 1,000 2,000 4,000 0,000 0,000 1,000 2,000 1,000 2,000 4,000 4,000	125 125 Phase VSION oisting Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690 765 170 340 440 715	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22
*CX WC16 *CX WC22 *CX WC28 Alternation WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD18 *CX WD24 WITHOU *CX WD02 *CX WD07 *CX WD07 *CX WD13	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74	W1 W3 W3 6 Cycle—2 50 Volts —BOLT S Frame W14 W1/2 W1 W3 W3 W14 W1/2 W1 W1/2 W1 W1/2 W1	2,000 4,000 6,000 and 3 USPEN 500 1,000 2,000 4,000 0,000 1,000 2,000	Per Min. 31 28 25 25 VSION 31 28 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765	# CX WB27 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28
*CX WC16 *CX WC22 *CX WC28 Alternation  WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD18 *CX WD24  WITHOU' *CX WD02 *CX WD07 *CX WD13 *CX WD19 *CX WD19 *CX WD25	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TH	W1 W3 W3 G Cycle—2 50 Volts -BOLT S Frame W14 W12 W1 W3 W3 W14 W12 W1 W14 W14 W14 W14 W14 W14 W14 W15 W14 W15 W14 W15 W16 W16 W16 W16 W16 W16 W16 W16 W16 W16	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD18 # CX WD24 WITHOU # CX WD02 # CX WD07 # CX WD13 # CX WD13 # CX WD19 # CX WD25	1,060.87 1,238.74 1,370.93 ang Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TE \$ 302.50	W1 W3 W3 Cycle—2 50 Volts -BOLT S Frame W14 W15 W1 W3 W1 W15 W14 W15 W14 W15 W14 W15 W14 W15 W15 W16 W16 W16 W17 W17 W18 W18 W18 W18 W18 W18 W18 W18 W18 W18	2,000 4,000 6,000 and 3 USPEN 1,000 2,000 4,000 0,000 1,000 2,000 4,000 1,000 2,000 4,000 6,000	125 125 Phase VSION oisting Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25	1,185 1,260 9 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD12 # CX WD18 # CX WD02 # CX WD07 # CX WD07 # CX WD13 # CX WD19 # CX WD03 # CX WD08	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10	W1 W3 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W14 W12 W1 W3 W3 W3 -HOOK S W14 W12 W1 W3 W3 W3 ROLLEY W14 W1/2	2,000 4,000 6,000 and 3 USPEN H S 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oisting Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690 765 170 340 440 715 790	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB22 # CX WB28  WITHOUT
# CX WC16 # CX WC22 # CX WC28 Alternatio WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD12 # CX WD13 # CX WD07 # CX WD03 # CX WD19 # CX WD19 # CX WD08 # CX WD08	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TH \$ 302.50 375.10 482.79	W1 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W1/4 W1/2 W1 W3 W3 W3  HOOK S W1/4 W1/2 W1 W3 W3 W3  ROLLEY W1/4 W1/2 W1	2,000 4,000 6,000 and 3 USPEN H 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION olstin, Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 1,260 1,260 Net Wt. Each, Lbs. 165 325 425 690 765 170 340 440 715 790	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD12 # CX WD18 # CX WD02 # CX WD07 # CX WD07 # CX WD13 # CX WD19 # CX WD03 # CX WD08	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10	W1 W3 W3 G Cycle—2 50 Volts —BOLT S Frame W14 W12 W1 W3 W3 -HOOK S W14 W12 W1 W3 W3 W3 ROLLEY W14 W12 W14 W3 W3	2,000 4,000 6,000 and 3 USPEN H S 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oisting Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, Lbs. 165 325 425 690 765 170 340 440 715 790	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3
*CX WC16 *CX WC22 *CX WC28 Alternatio  WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD12 *CX WD18 *CX WD12 *CX WD13 *CX WD07 *CX WD13 *CX WD19 *CX WD25  *CX WD03 *CX WD08 *CX WD08 *CX WD08 *CX WD08 *CX WD14 *CX WD20	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY— Std. List, Ench \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10 482.79 647.95	W1 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W1/4 W1/2 W1 W3 W3 W3  HOOK S W1/4 W1/2 W1 W3 W3 W3  ROLLEY W1/4 W1/2 W1 W3 W3 W3	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260	# CX WB21 # CX WB27 # CX WB10 # CX WB16 # CX WB22 # CX WB28 # CX WB28 # CX WB28
*CX WC16 *CX WC22 *CX WC28 Alternation  WITHOUT  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD12 *CX WD18 *CX WD12 *CX WD13 *CX WD07 *CX WD13 *CX WD19 *CX WD19 *CX WD25  *CX WD08 *CX WD08 *CX WD08 *CX WD08 *CX WD26	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 F TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TH \$ 302.50 375.10 482.79 647.95 752.02	W1 W3 W3 W3 Cycle—2 50 Volts  BOLT S  Frame W14 W1/2 W1 W3 W3 W3  HOOK S W1/4 W1/2 W1 W3 W3  ROLLEY W1 W3 W3  ROLLEY W1 W3 W3  ROLLEY W1 W3 W3	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 25 VSION 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3
*CX WC16 *CX WC22 *CX WC28 Alternatio  WITHOU  Nos. *CX WD01 *CX WD06 *CX WD12 *CX WD12 *CX WD18 *CX WD12 *CX WD13 *CX WD07 *CX WD13 *CX WD19 *CX WD25  *CX WD03 *CX WD08 *CX WD08 *CX WD08 *CX WD08 *CX WD14 *CX WD20	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Ench \$ 278.30 338.80 438.33 597.14 698.78 F TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10 482.79 647.95 752.02 GEARED T	W1 W3 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W14 W1/2 W1 W3 W3 W3 -HOOK S W1/4 W1/2 W1 W3 W3 ROLLEY W1 W3 W3 W3 ROLLEY W1	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3
*CX WC16 *CX WC22 *CX WC28 Alternation  WITHOU  Nos. *CX WD61 *CX WD66 *CX WD12 *CX WD18 *CX WD12 *CX WD13 *CX WD07 *CX WD13 *CX WD19 *CX WD25  *CX WD08 *CX WD08 *CX WD08 *CX WD08 *CX WD14 *CX WD26 *CX WD26 *CX WD26	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10 482.79 647.95 752.02 GEARED T \$ 508.20	W1 W3 W3 W3 Cycle—2 50 Volts  BOLT S  Frame W14	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790 195 380 490 775 850	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD18 # CX WD14 WITHOU # CX WD07 # CX WD07 # CX WD13 # CX WD13 # CX WD19 # CX WD14 # CX WD08 # CX WD14 # CX WD26 # CX WD26 # CX WD15 # CX WD21	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10 482.79 647.95 752.02 GEARED T \$ 508.20 686.07	W1 W3 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W14 W1/2 W1 W3 W3 W3 -HOOK S W1/4 W1/2 W1 W3 W3 ROLLEY W1 W3 W3 W3 -ROLLEY W1 W3 W3 W3	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790 195 380 490 775 850 815	# CX WB21 # CX WB10 # CX WB16 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3 W 3 W 3 Frames W 1/2
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD18 # CX WD14 WITHOU # CX WD07 # CX WD07 # CX WD13 # CX WD13 # CX WD19 # CX WD14 # CX WD08 # CX WD14 # CX WD26 # CX WD26 # CX WD15 # CX WD21	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74 PLAIN TF \$ 302.50 375.10 482.79 647.95 752.02 GEARED T \$ 508.20 686.07 791.95	W1 W3 W3 W3 G Cycle—2 50 Volts  BOLT S  Frame W14 W12 W1 W3 W3 W3 CHOOK S W14 W12 W1 W3 W3 W3 ROLLEY W1 W3 W3 ROLLEY	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000 500 1,000 2,000 4,000 6,000	125 125 Phase SSION olstin, Sped, Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790 195 380 490 775 850 815	# CX WB21 # CX WB10 # CX WB16 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3 W 3 W 3
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOUT NOS. # CX WD01 # CX WD12 # CX WD12 # CX WD13 # CX WD03 # CX WD13 # CX WD19 # CX WD19 # CX WD25 # CX WD16 # CX WD26 # CX WD26 # CX WD16 # CX WD15 # CX WD27 # CX WD16	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 F TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74  PLAIN TH \$ 302.50 375.10 482.79 647.95 752.02 GEARED T \$ 508.20 686.07 791.95 MOTOR TI \$ 919.60 1,060.87	W1 W3 W3 W3 Cycle—2 50 Volts  BOLT S  Frame W¼ W1 W3 W3 W3 -HOOK S W¼ W1 W3 W3 ROLLEY W1 W3 W3 ROLLEY W1 W3 W3 ROLLEY W1 W3 W3 ROLLEY	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin, Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 1,260 Net Wt. Each, Lbs. 165 325 425 690 765 170 340 440 715 790 195 380 490 775 850 815 890	# CX WB21 # CX WB27  # CX WB10 # CX WB16 # CX WB28  # CX WB28  WITHOUT  Frames W 1/2 W1 W3 W3 W1 W1 W3 W1 W3 W1 W3
# CX WC16 # CX WC22 # CX WC28 Alternation WITHOU Nos. # CX WD01 # CX WD06 # CX WD12 # CX WD18 # CX WD14 WITHOU # CX WD07 # CX WD07 # CX WD13 # CX WD13 # CX WD19 # CX WD25 # CX WD25 # CX WD08 # CX WD26 # CX WD26 # CX WD26 # CX WD27 # CX WD27 # CX WD15 # CX WD27 # CX WD10	1,060.87 1,238.74 1,370.93 ng Current—25 220-440-5 T TROLLEY—  Std. List, Each \$ 278.30 338.80 438.33 597.14 698.78 T TROLLEY— \$ 284.35 356.95 457.38 616.20 718.74  PLAIN TF \$ 302.50 375.10 482.79 647.95 752.02 GEARED T \$ 508.20 686.07 791.95 MOTOR TI \$ 919.60	W1 W3 W3 W3 Cycle—2 50 Volts  BOLT S  Frame W14 W12 W1 W3 W3 W3 -HOOK S W14 W12 W1 W3 W3 ROLLEY W1 W3 W3	2,000 4,000 6,000 and 3 USPEN H 500 1,000 2,000 4,000 6,000 USPEN 500 1,000 2,000 4,000 6,000 500 1,000 2,000 4,000 6,000	125 125 Phase VSION oistin Speed, Ft. Per Min. 31 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1,185 1,260 9 Net Wt. Each, 165 325 425 690 765 170 340 440 715 790 195 380 490 775 850 530 815 890	# CX WB21 # CX WB10 # CX WB16 # CX WB16 # CX WB22 # CX WB28  WITHOUT  Frames W 1/4 W 1/2 W 1 W 3 W 3 W 3

WITHOUT	TROLLEY-	BOLT 8		NSIO! Ioistii	
					, Net
	Std.			Ft.	Wt.
	List,		Cap.,	Per	Each
Nos.	Each	Frame		Min.	
#CX WB01	\$ 278.30	W1/4	500	34	17
#CX WB06	338.80	W1/2	1,000	28	
#CX WB12	438.33	W1	2,000	28	44
‡CX WB18	622.55	W3	4,000	28	720
‡CX WB24	725.40	W3	6,000	25	79
WITHOUT	TROLLEY-	-ноок	SUSPE	NSIO	N
#CX WB02	\$ 284.35	W1/4	500	34	180
#CX WB07	356.95	W 1/2	1,000	28	555
‡CX WB13	457.38	Wi	2,000	28	460
‡CX WB19	641.61	W3	4,000	28	745
‡CX WB25	745.36	W3	6,000	28	820
	PLAIN T	ROLLEY			
#CX WB03	\$ 302.50	W 1/4	500	34	205
#CX WB08	375.10	W 1/2	1.000	28	395
#CX WB14	482.79	W1	2,000	28	510
‡CX WB20	673.37	W3	4,000	28	805
‡CX WB26	778.64	W3	6,000	25	880
	GEARED T	PROLLEY			
‡CX WB15	\$ 508.20	W1	2,000	28	550
#CX WB21	711.57	W3	4.000	28	845
‡CX WB27	818.57	W3	6,000	25	920
+ COL MIDIO	MOTOR T		1 000	105	00=
‡CX WB10	\$ 919.60	W½ W1	1,000	125 125	825
‡CX WB16	1,060.87	WI	2,000	120	1,000

Direct Current-115-230 Volts

#### MOTOR AND ROPE SPECIFICATIONS WITHOUT TROLLEY, PLAIN TROLLEY, AND GEARED TROLLEY H. P., Hoist Frames Motor No. Size 34 W1/4 2 品1% W 1/2 2 W1 品% 3 2 7½ 7½ W3 2 W3 2 170 MOTOR TROLLEY H. P., Trolley Rope Frames Motor No. Size W1/2

1/4

1/2

11/2

1

W3

W3

1,264.15

1,397.55

4,000

6,000 125

125

1,215

1,290

For shipping weight, add 15% to 20% to above weights.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

2

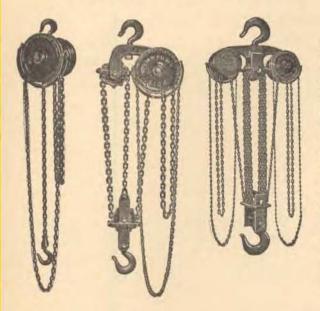
2

22

14

% 品

## \*WRIGHT HIGH SPEED HOISTS



#### IMPROVED MODEL

Lift heavy loads quickly and easily. Their design, ruggedness and precision of manufacture mean long life—50 to 100 per cent longer life than the ordinary spur-geared hoist.

The Timken tapered roller bearing at the lower swivel hook prevents the load chain from becoming twisted, thus the load chain always rides squarely into the load wheel pockets.

The load chain is of special analysis steel to give great strength and long life. Each link is electrically welded on the side, and is die-formed to assure evenness of pitch.

The new patented load chain guide completely shrouds the upper half of the load sheave—another Wright safety feature which prevents the load chain from ever riding out of the load pockets, a condition that might have serious results. It also protects the load pockets from dust and dirt.

The main driving spindle runs on a ball bearing which greatly reduces wear at this vital point. The hoist is easily oiled—spring covered oil tubes go to all vital parts.

A loop hand chain guide prevents the hand chain from fouling.

Ft. of

All exposed parts, including chain, rustproof zinc coated—making it serviceable in moist or other corrosive atmospheres.

								-	Chain	
		-				Afferlmanns		Chain	Chain verhauled	Shinning
		Extra		Dom		Minimum Dist. Bet.		to Lift	to Lift	Weight
	Std. List.	Lift† Std. List,		Reg.	Load,		Ft. and	Load,	Load,	Each,
Nos.	Each	Per Ft.	Capacity	Feet	Lbs.	Inches	Inches	Lbs.	One Ft.	Lbs.
#CX WHS300	\$ 60.00	\$ 1.80	*300 Lbs.	8	680	13	9'1"	52	6.5	80
#CX WHS1/4	70.00	1.80	1/4 Ton	8	840	13	9'1"	48	11.86	80
#CX WHS700	90.00	1.90	*7,00 Lbs.	8	1,570	16	9'4"	76	10.33	118
#CX WHS1/2	70.00	1.80	1/2 Ton	8	1,680	13	9'1"	56	20.5	79
#CX WHS1000	90.00	1.90	*1000 Lbs.	8	1,680	16	9'4"	65	17.4	118
CX WHS1	90.00	1.90	1 Ton	8	3,360	16	9'4"	72	31.4	118
CX WHS11/2	120.00	2.00	1½ Ton	8	5,040	181/2	9'61/2"	99	35	163
CX WHS2	140.00	2.10	2 Ton	9	6,700	21	10'9"	104	43.1	230
#CX WHS3S	180.00	2.60	**3 Ton	10	10,100	23	11'11"	97	77.93	259
	180.00	3.00	3 Ton	10	10,100	241/2	12'1/2"	102	70	225
#CX WHS3	220.00	3.20	4 Ton	10	13,400	29	12'5"	108	86.2	328
#CX WHS4	280.00	4.20	**5 Ton	12	16,800	32	14'8"	83	153.2	373
#CX WHS5S	280.00	4.30	5 Ton	12	16.800	36%	15'%"	92	129.3	405
#CX WHS5	330.00	4.20	**6 Ton	12	20,200	32	14'8"	99	153.2	373
#CX WHS6S	330.00	4.30	6 Ton	12	20,200	36%	15'%"	1101	129.32	405
#CX WHS6		5.40	8 Ton	12	26,900	37	15'1"	1121	172.42	520
#CX WHS8	400.00	6.50	10 Ton	12	33,600	50	16'1/2"	1151	215.52	644
#CX WHS10	480.00 600.00	8.60	12 Ton	12	40,300	50	16'2"	1101	129.32	1014
#CX WHS12	Transaction Co.		16 Ton	12	53,800	51	16'3"	1121	172.42	1222
#CX WHS16	720.00	10.80	20 Ton	12	67,200	53	16'5"	1151	$215.5^{2}$	1387
#CX WHS20	850.00	13.00	25 Ton	12	84,000	53	16'5"	1251	258.62	1490
#CX WHS25	950.00	15.30			100,900	58	16'10"	1071	3832	1740
#CX WHS30	1700.00	18.00	30 Ton	12 12	149,400	75	18'3"	1221	459.62	3400
#CX WHS40	2700.00	21.20	40 Ton	12	148,400	10	10.0	100	200.0	

Hoists 12 tons and larger have two hand chains.

#### WRITE FOR LATEST PRICES

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

<sup>\*</sup> Special quick lift hoists.

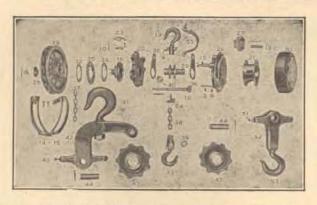
<sup>\*\* 3</sup> ton single chain; 5 and 6 ton double chains.

<sup>†</sup> Price includes both hand and load chains.

<sup>1</sup> Sum of effort on both hand chains.

<sup>2</sup> On each hand chain.

### #REPAIRS FOR WRIGHT IMPROVED MODEL HIGH SPEED HOISTS.



NOTE-When ordering Repairs be sure to Specify Number and Name of Part and Model and Capacity of Hois for which intended,

All Items are Priced Each Except where Otherwise Specified.

		1 77 3	b i	1		10.00	I II ark				-		_		
Nos.	TOTAL	1/4 8	4	1 440	1 4		a 3 Ton	1	1	Low Mar		-	1	1	
44000	ITEM	72	1 -	11/2	1 2	Sgl.	Dbl.	4	5	1 6	8	10	12	16	20
-		Ton	Ton	Ton	Ton	Ch'ir	Ch'in	Ton	Ton		Ton	Ton	Ton		
±701	-Pawl Stud	\$ .50	18 .75	18 .90						-	-	and the second district of the law or widow	-	Ton	Ton
	- Campill Companion Ct. 4	90 400			10000000	O DEVICE STATE		\$ .95	\$ .95	\$ .95	\$ .95	\$ .95	\$ .95	\$ .95	\$ .95
200 63	-Small Separator Stud	.60	.75	.90	1.10	1.10	.90	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
#4	-Top Hook Cross Head	1.10	1.60	2.35	2,95	3.60	5 5 6	The Property of	3 7 7 7 7 5	14/04/20	The state of the	A CONTRACTOR	1.10	7.70	1.10
#8	-Load Chain Guide Bolt	-30		THE PARTY.				****	100.0	4000		****		****	
	-Long Chain Guide Bolt			.60		.75	.60	.75	.75	.75	.75	.75	.75	.75	.78
<b>‡10</b>	-Pawl Spring	.15	.25	.30	.30	.30	.30	.30	.30						
# 12	-Large Separator Stud	.95	1.10	1.35	1.45				1 2 2 2			.30	-30	.30	.30
#13	-Ton Hook					1.45	1.35	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
No. of A. of St.	-Top Hook	1.85	2.95	3.65	4.40	8.80			****					- Page	1
年14-15-	Hand Chain Guides	4.40	5.15	7.35	8.80	8.80	7.35	8.80	8.80	8.80	8.80			****	
#16	-Disc Hub	3.50	4.40	6.60	8.10					DOCUME.		8.80	8.80	8.80	8.80
	Particular or Philadelphia				200	8.10	6.60	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10
H- 1.1.0	-Driving Pinion	4.40	5.15	7.35	8.80	8.80	7,35	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80
#19	-Gear and Pinion Studs	.65	-90	1.10	1.35	1.35	1.10	1,35	1.35	1.35			100000000000000000000000000000000000000		
±19/S	-Gear and Pinion Stud						1000000000	10000	Machine M.	The state of the s	1.35	1.35	1.35	1.35	1.35
<b>‡720</b>	Databat Charle			****	1111	1.35	5000	****	V.t. v. v.	5.0 m.e.	2000		****	****	1114
10. 5 70.5	-Ratchet Case	4.40	6.60	8.80	9,55	9.55	8.80	9.55	9,55	9.55	9.55	9.55	9.55	9.55	9.55
<b>‡721</b>	-Pinion Cage	3.65	5.15	7.35	9.55	12.00	7,35	9.55	9,55	9.55	9.55				
# 23	-Pawl	.60	.75								1	9.55	9.55	9.55	9.55
	Statemen			.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90
	-Stripper	_50	.50	.75	.90	.90	.75	.90	.90	.90	.90	.90	.90	.90	.90
# 25	-Check Washer	.65	.90	1.10	1.25	1.25	1.10	1.25	1.25	1.25					
	-Internal Gear	7.35	8.80	12.50						Maria Contraction	1.25	1.25	1.25	1.25	1.25
					14.00	14.00	12.50	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	-Gear and Pinion	2.60	3.30	4.40	5,90	5.90	4.40	5,90	5.90	5.90	5.90	5.90	5.90	5.90	5.90
#27/S	-Gear and Pinion	71+4				5.90			177-200	The same	1			1	
±728 -	-Hand Wheel	4.40	5.15	7.35	8.80	8.80		0.00	2724	****	****	****	1777	****	8.80
# 729							7.35	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80
	-Load Sheave	7.85	8.80	13.25	14.70	18.00	13.25	14,70	14.70	14.70	14.70	14.70	14.70	14.70	14.70
±730 ·	-Gear Cover	2.20	3.30	5.15	5.90	7.00	5.15	5.90	5.90	5.90			MIT 753 TUTO CO. U		
# 32	-Galvanized Disc	.30	.45								5.90	5.90	5.90	5.90	5.90
State of the local division in which the local division in the loc		198.97	.40	.60	.75	-75	.60	.75	.75	.75	.75	.75	.75	.75	.75
400	-Lower Hook Assembly		1							1		2000	120,000	Time to	
	Swivel Hook	3.65	5.50	6.60	8.80	12.00			100000					March 1	
#34 -	-Leather Disc	.95	1.10	1.45	1.45			21.2	****	****	2002	****	****	****	20.00
	Potabat Dia					1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
	-Ratchet Disc	1.50	2.00	2.60	2.95	2.95	2.60	2,95	2.95	2.95	2.95	2.95	2.95	2.95	2.95
<b>#736</b> -	-Suspension Plate	1.50	2.95	4.40	5.50	5.50	4.40	5.50	5.50	5.50	5,50	5.50			
	-Hand Chain, per foot	.50	.50	.50		.50							5.50	5.50	5.50
200	Committee Ward Charles				.50		.50	.50	.50	.50	.50	.50	.50	.50	-50
	Complete Hand Chain	8.00	8.00	8.00	9.00	11.00	11.00	12.00	14.00	14.00	14.00	15.00	15.00	15.00	15.00
#38 -	-Lond Chain, per foot	.80	.90	1.00	1.10	1.60	1.00	1.10	1.10	1.10	1.10				
	Complete Load Chain,					2100	2.00	2.10	1410	7.10	1.10	1.10	1.10	1.10	1.10
		m 0.0	0.46			22 22		ALC: UNK	10 K 10 K	1000	-	1			
	without Hook	7.20	8.10	9.00	11.00	17.60	24.00	27.50	48.40	48.40	63.80	79.20	102.30	128,70	160.60
±739 -	Bearing for Lower										20100			140,10	200.00
-	Swivel Hook	.55	.80	1.00	1.00	1 00	7 20	0.00	0.00						
#40 -	-Ball Bearing for Driving	.00	.00	4.00	1.00	1.20	1.20	2.00	2.80		****	466.6	****	****	****
++ -247			===											11 37 3 44 1	1 (50000)
	Pinion	.70	.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1 00	4 60	7.00
<b>#741</b> -	-Top Hook		100000	Control of the Control	C 2750	- 625A63	8.80	The second second	BUTTANIA TU		CHARLES TO SECURE		1.00	1.00	1.00
	-Top Yoke		***	440.4	****	797.5			17.65	26.50			55.15	73.50	161.80
		****	****		****		20.60	30.90	36.75	44.10	58.80	88.25	95.60	103,00	110.30
	-Top Guard and Guides	0.04		1011	4000			****	10.30				23.50	25.00	26.50
	Top or Bottom Pin		****	1000			1.45	1.85						77122-0-00120	
	-Top or Bottom Sheave	200000							1.85	3.65	4.40	5.15	5.15	6.60	8.80
		23.9.1	444.0	****	****	133.0	5.90	6.60	6.60	6.60	6.60	8.80	8.80	8.80	8.80
	-Bottom Guard and Guides	****	277.5	****	****	1912	8.10	11.00	11.00	14.70				25.00	29,40
中752 -	-Bottom Side Plates and	3	1	1			1			2210	21.00	22.00	20.00	20.00	20,40
***************************************										EV BIN	LANCE FOR CO.	Jan Branch	-	12.11	The same of
A marin	Cross Head	600.0	****		177.716	25000	7.35		14.00	23.50	29.40	36.75	36.75	39.70	42.56
中753 -	Bottom Hook	200.0	****	****			8.80	13.25	17.65	26,50		CAST PROPERTY IN		73.50	161.80
中 55 -	-Lond Chain Guide	1.10	1.45	2.20	2.55	3.00	2.20	2.55	2.55						
	-Detachable Load Chain		21.20	2,20	4,00	0.00	Sec. 61 70	2.00	2.00	2.55	2,55	2.55	2.55	2.55	2,55
4700 -															
	Coupling	-34.5		64.00				****	3.00	3.00	3.00	3.20	4.00	4.00	4.00
±765 -	Load Wheel Bearing	2.20	2.75	3.50	5,50	8.00	3.50	5.50	5.50			3.75			1 PC 1 PC 1 TO 1
		2.42	ALC: NO PERSON NAMED IN COLUMN TO PERSON NAM				7	0.00	0.00	5.50	5.50	5.50	5.50	5.50	5.50
	-Oil Retainer	On	Requ		****		****	****		****	1444				Ores .
	Bearings for Bottom Block	On	Requ	est				****	41		****		12 X 600	Sec. 221, 221	740000
# 768 -	Bearings for Top Block	On	Recu							200	1000 h		****	****	3
						****	****	****	***	****	****	****		****	Deser.
	-Lower Swivel Hook, old type	3.65	5,50	6.60	8.80	11.00	72.0.0	****	****	****			****		
#33/S =	-Hook Shackle Shells, per pair	1.95	2.80	3.25	4.45	5.30	****	****			****		****		100
		-	- Control of the Cont	112.00	- Control	1	1000	acce.							100.00

Use price in 1/2 ton column for 300 lb. Quick-Lift Hoists and in 1 ton column for 700 and 1000 lb. Specifying Quick-Lift Hoists.

<sup>#</sup> Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

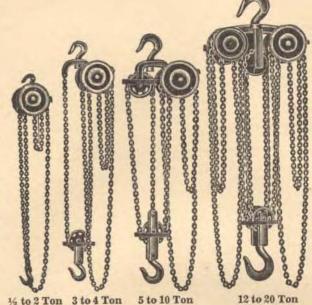
Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

## \*CHAIN HOISTS

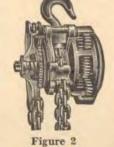
FORD TRIBLOC CHAIN HOISTS have patented loop hand chain guide, malleable frame, drop-forged steel hooks. All parts interchangeable.

Illustrations show the various styles of construction.

	Standard	Minimum						
	List and Retail Price,		will	Bet.	Chain	Wt.		
		Cap.,	Hoist,	Hooks,	Pull	Each,		
Nos.	Each	Tons	Feet	Inches	Lbs.	Lbs.		
#CY F1/2	\$70.00	1/2	8	15	62	53		
#CY F1	90.00	1	8	17	82	80		
#CY F11/	120.00	11/2	8	191/2	110	124		
#CYF2	140.00	2	9	24	120	188		
#CY F3	180.00	3	10	32	114	200		
#CY F4	222.00	4	10	37	124	290		
#CY F5	280.00	5	12	45	110	380		
#CY F6	330.00	6	12	46	130	390		
#CY F8	400.00	8	12	51	135	470		
<b>#CY F10</b>	480.00	10	12	57	140	570		
<b>#CY F12</b>	600.00	12	12	57	130	800		
<b>#CY F16</b>	720.00	16	12	61	135	1000		
<b>‡CY F20</b>	850.00	20	12	77	140	1375		







hoisting clamps the discs solidly together.

The hoisting mechanism (Fig. 1) consists of a balanced train of spur gears, from the small central pinion to the shrouded internal gear, of heavy pitch, constituting a part of the frame and of the full diameter of the block.

Figure 1
Figure 2
The sustaining mechanism (Fig. 2) consists of a set of friction discs, one of which has external ratchet teeth engaging with a drop-forged the central hub, and in

Packing-bulk.

# #EXTRA HOIST For Ford Tribloc Chain Hoists ALL CHAINS INCLUDED

	Std. List and
For	Retail Price,
Block Nos.	Per Foot
#CY F1/2	\$1.80
#CY Fi	1.90
#CY F11/2	2.00
#CY F2	2.10
‡CY F3	8.00
#CY F4	3.20
#CY F5	4.30
+CYF6	4.30
#CY F8	5.40
<b>‡CY F10</b>	6.50
<b>#CY F12</b>	8.50
<b>#CY F16</b>	10.80
‡CY F20	13.00

\*EXTRA HOIST

Packing—buik

#### CHAIN HOISTS

#### WESTON-Plain Bushed

Differential or direct. With malleable frames; cast wheels; wrought hooks and steel chain.

					Comprising 4-foot chain.		
Nos.	Each	Capacity, Tons	Will Hoist, Feet	Weight Each, Lbs.	Per Foot	Std. List Per Foot	
CB W1/2 CB W1 \$CY W11/2 \$CY W2	\$19.95 26.45 32.50 40.85	1 1 1½ 2	7 8 8½ 9	30 51 81 122	\$2.75 3.00 3.25 3.50	\$4.80 5.00 5.40 5.60	

Note: If block is wanted to lift higher than shown above, extra chain must be ordered—four feet of chain for every foot of extra hoist.

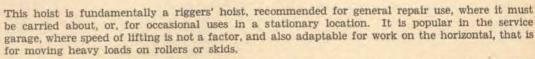
Packing-bulk.

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# Wright Screw Gear Hoists





Extremely simple in construction—holds the load securely at any point and will not lower except by a reverse pull on the hand chain by the operator.

On this hoist a hand chain drives the handwheel which is keyed directly to the worm shaft. The phosphor bronze worm wheel, into which this worm meshes, has a S. A. E. steel axle to which the load sheaves are firmly keyed. All working parts are packed in grease in the sealed housing.

Thrust plug, against which the worm makes its bearing, is heat treated to insure hardness. It is reversible, one end for fast and other end for slow lowering. Both hooks are drop forged.

Although it is less than one-half as efficient as the Wright improved high-speed type, and proportionately slower, yet, with the one-ton size one man can lift the capacity load by exerting 86 pounds pull on the hand chain.

The steel load chain is electrically welded, heat treated and proof tested. A chain with a high ultimate strength, high elastic limit and extreme toughness, yet possessing plenty of ductility to make it resistent to breakage under shock loads.

Load chain guards and guides prevent the load chain from riding out of the load wheel pockets. The hand chain guide is of the non-fouling type. Thrust bearings in the lower hook permits swiveling of load without twisting of chain.

Detachable shackles permit of easy chain replacement.

Nos.	Std. List,	Extra Lift Std. List, Per Ft.	Rated Cap., Tons	Regular Lift, Feet	Min. Dist. Bet. Hooks, Inches	Chair Lbs.	n Pull Ft.	The second section is a second	rd Chain in Feet Hand	Shipping Weights, Lbs.
CX 301/4	\$50.00	\$2.50	1/2	8	13	69	39	18	16	62
CX 301	60.00	2.60	1	8	15	86	60	18	16	82
CX 3011/4	80.00	2.70	11/2	8	17	94	80	18	16	106
#CX 302	100.00	2.80	2	8 8 8	21	116	92	20	18	142
#CX 303	150.00	3.00	2	10	24	130	128	24	21	214
#CX 304	190.00	3.80		10	25	142	155	24	21	278
#CX 305	280.00	4.00	3 5	12	34	145	186	30	26	410
#CX 306	360.00	5.60	6	12	28	145	256	55	26	410
≠CX 308	420.00	6.00	6 8	12	33	164	306	55	26	470
<b>‡CX 3010</b>	550.00	6.40	10	12	44	148	382	57	26	660
				Packir	ng—bulk.					

# ROLLER BEARING STEEL HOISTS

### STARLINE-SELF-LOCKING-DOUBLE SHEAVE

Safe, sure and easy to operate. These hoists elevate, lower, lock and unlock with one rope only. The malleable iron lock attached to axle pin acts quickly. When pull on draft rope is stopped and rope moved slightly outward, away from the block, or if pulling in that direction, hoist locks instantly. The heavier the load the more securely it holds and locks. Lock is instantly released by a slight pull or a little snap of the rope toward the block.

All steel double sheave upper and lower blocks, heavy reinforced steel yoke on each block attached to axle pin. Extra heavy. Reinforced drop forged hooks attached to yoke by special double-pressed and riveted swivel sliding on yoke, making block very flexible. Hardened steel sheave axles with cold rolled steel bearings. Keyed axles held in place by cotter pins, are easily removed and replaced. They will not turn when heavily loaded, avoiding cutting sides of hoist.

## WITHOUT ROPES Red Synthetic Enamel Finish

100-Lb. Pull on Diameter Size, Weight For Sheaves, Axle, Rope Will Each, Rope, Lift, Lbs. Lbs. Cap., Lbs. In. Inches In. Each Nos. 300 21/4 3/8 43% 1500 % to 1/2 **CB 202** \$1.19 21/2 350 514 2500 % to % To **CB 222** 1.98 400 7 5000 1/2 to 1/8 **CB** 232 3.19

Packing—bulk.

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#### PORTABLE PLATFORM SCALES FAIRBANKS

You'll have many uses for an accurate portable scale for weighing various produce. Here is one of the finest scales made for general use.



#### WITH WOODEN PLAT-FORM PANEL

For weighing heavy merchan-dise. Durably built to withstand hard usage. Loops, bear-ings, nose irons and weights are "Parkerized" for rustresistance.

The wooden pillar is well braced with iron rods. Arrow tip single brass beam and slidtip single brass beam and sid-ing poise fitted with a set screw. A wooden panel is se-cured in the center of the platform. Attractively finished in blue with bronze stripes, well varnished for protection.

Beam graduated to 100 lbs. by 1/2 lbs.

	WITH WHI	EELS	Plat-	Wt.
	and Retail,	Cap.,	form,	Each,
Nos.	Each	Lbs.	Inches	Lbs.
AY 1120F	\$60.00	1500	22x31	315
AY 1118F	80.00	2000	25x32	385
AY 1116F	90.00	2500	25x34	450

ALL METAL

Popular choice for general weighing of merchandise in every form.

every form.

Lever system is made heavy, with a large factor of safety, sustains accuracy.

"Parkerized" loops, bearings, nose irons and weights are rust-resistant, assuring long life.

Durably constructed with pillar, cap and platform cover made of sheet steel, pressed to shape and reinforced, rigid and serviceable. Non-corrosive aluminum alloy arrowtip single beam, with center-indicating poise. Overall height 3 feet, 7 inches. Finished in blue with bronze stripe, all well varnished.

WITHOUT WHEELS
Capacity 1.000 lbs. Beam graduated to 100 lbs. by ½ lbs. Platform 18x27 inches.

AB 1124-Weight each 205 lbs.

Std. List and Retail, Each \$31.75



#### FAIRBANKS Duplex Beam

The latest development in portable beam scales. Provides portable beam scales. Provides exceptional speed and convenience in weighing because of direct reading without loose counterpoise weights. Ideal for use in all industrial operations. Entire scale is built throughout for accurate and reliable service. reliable service.

## All Metal With Steel Clad Platform

Beams are made of cast brass with raised figures and gradu-ations for quick and easy reading. Mounted on two fulcrum stands rigidly attached to top of metal pillar shelf. Sliding poises are of center indicating type.

Loops, bearings, and nose irons "Parkerized" to make them rust-resistant. Heavy cast-iron frames and wheels. Full length axles. Tempered steel knife bearings. Overall

height 4 feet. Attractively and durably finished in black enamel with blue pillar.

	Std. List	and the	Cap. Main	Cap. Other	Size Plat-	Wt.	
Nos. AR 12064F	and Retail, Each \$44.40	Lbs.	Beam, Lbs. 1000x10	Lbs.	In.	Lbs.	
AR 12066F	37.10	500	500x10	10x1/4	16x25	215	

One in a case.

#### PORTABLE PLATFORM SCALES FAIRBANKS



#### All Metal With Double Beam

Exceptionally convenient for general industrial weighing as the lower beam may be used for tare weights of containers. Scale is built throughout for accurate and reliable service.

- Loops, bearings, nose irons and weights are "Parkerized" to make them rust-resistant.
- · Arrow tip beam fitted with two center-indicating brass poises with beveled edges to eliminate shadows from the

beam and insure more accurate reading.

Pillar, cap and platform cover made of heavy sheet steel. Heavy cast-iron frame and wheels. Full length axles. Overall height 3 feet 7 inches. Finished in blue with bronze stripe. Well varnished for protection.

Capacity of Beam 100 lbs. x 1/2 lbs.

	Std. List	Letter Inc.		Weight
	and Retail,	Cap.,	Platform,	
Nos.	Each	Lbs.	Inches	Lbs.
AR 1278F	\$37.10	500	16x25	165
AR 1280F		1000	18x27	180

#### FAIRBANKS STANDARD



#### Portable With Drop Levers

Excellent for general heavy duty weighing, especially where heavy boxes, barrels and castings are handled on and off the platform, causing jars and shocks to the mechanism.

- Drop levers protect scale mechanism from abuse, retain the accuracy.
- "Parkerized" loops, bearings, pivots and weights are rust-resistant, give longer life service.

Arrow-tip single brass beam and sliding poise fitted with set screw. Wooden pillar well braced with iron rods. Finished in blue with bronze stripes. Well varnished.

#### WITH WHEELS AND DROP LEVER

	Std. List and Retail,	Ca- pacity,	ity of Beam,	Size of Plat- form,	Wt. Each,
Nos.	Each	Lbs.	Lbs.	Ins.	Lbs.
AY 1174F	\$53.00	1000	100	18x27	230
AY 1170F	70.00	1500	100	22x31	330
AY 1168F	90.00	2000	100	25x32	415
AY 1166F	100.00	2500	100	25x34	470

## AMERICAN



Heavy cast iron frame, plat-form and wheels, enameled black. Hardwood pillar and cap enameled blue and striped in gold. Polished brass beam, graduated on both sides, Brass sliding poise. The steel pivots are carefully hardened and finished.

Capacity of beam-50 lbs. by

#AY 49 #AY 51 Nos. Capacity, Lbs. 600 1000 Platform, Inches 16x24 18x25 150 Weight Each, Lbs. 165 \$24.75 27.75

One in a case.

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## STANDARD TRUCKS

Sturdily constructed of highest grade materials for greatest strength.

The varnished hardwood handles are comfortable to grip. Mortised wood cross braces. Japanned iron handle straps and nose iron in one piece. Easy-rolling, cast-iron japanned wheels revolve on ¾ inch steel axle with malleable iron axle brackets. The flat steel legs and leg braces are riveted.



#### STANDARD-RAILROAD

Withstands hard, rough usage. Unsurpassed for any purpose where a sturdy, reliable truck is needed.

Heavy varnished hardwood handles with handle grips painted black. Four mortised, iron strapped, hardwood cross braces with two iron center braces, give greatest strength. Full length japanned iron handle straps and one-piece nose iron. Extra heavy cast-iron japanned wheels on 1-inch steel axle are easy-rolling. Malleable iron axle brackets. Flat steel

japanned iron handle straps and one-piece nose iron. Extra heavy cast-iron japanned wheels on 1-inch steel axle are easy-rolling. Malleable iron axle brackets. Flat steel legs and leg-braces are riveted on. Length over all 63 inches. Width 24 inches. Diameter of wheels 10½ inches. Heavy full-ironed. Handle straps extend to grip, about 48 inches.

.....

AB R4—Weight each 115 lbs......Each \$17.95



#### WAREHOUSE

Built for heavy duty.

Full-ironed. Handle straps extend up to grips, about 37 inches.

AB WF2—Length over all 51 inches, width 20 inches, diameter of wheel 8½ inches, four cross braces. Weight each 70 lbs...Each \$12.00

Packing-bulk.



#### WAREHOUSE

This popular type is designed for warehouse and general store use. Half-ironed. Handle straps extend up about 23 inches.

AB WH1—Length over all 48 inches, width 19 inches, diameter of wheel 7 inches, three cross braces. Weight each 45 lbs...Each \$9.75

#### STANDARD-BAG

Especially constructed with solid nose iron for handling bags.

Well built, with varnished hardwood handles and four mortised cross braces. Japanned iron handle straps and nose iron one-piece. Easy-rolling cast-iron japanned wheels on % inch steel axle, with malleable iron axle brackets. Handle straps extend up about 7 inches. Length over all 46 inches, width 17 inches. Wheel 5% inches in diameter.

#### Without Legs

AB 5-Weight each 20 lbs......Each \$5.85



#### STANDARD-GROCERY

Light to handle, but strong enough for general use.

Regular strap nose iron, three bolted cross braces and handle straps that extend up about 11 inches. Length over all 48 inches, width 19 inches. Wheel 6 inches in diameter. Steel axle ¾ inch in diameter.

#### Without Legs

AB 10-Weight each 20 lbs....Each \$5.85

Packing-bulk.

The

# KEEN KUTTER

Name on Tools

means the

FINEST QUALITY OFFERED ANYWHERE

#### CORN SHELLERS

· Operate easily and quickly . . . take all the corn off

These corn shellers are designed to give years of satis-



#### BLACK HAWK

BLACK HAWK
Shells clean—deposits corn in box or bin and cob outside. Easy to operate. Easily attached to barrel, box, bin or tub without tools, no holes to bore, just clamp it on. All parts are fully guaranteed and will be replaced without cost. Black japanned and gold bronze finish. Sturdily constructed, with maland crank. Extra long, over all 17 inches, width

leable iron hopper, separator and crank. Extra long, fully chilled bearings. Height over all 17 inches, width over all 10 inches. Toothed disc wheel 8 inches in diameter, crank 11 inches long.

Shells 8 to 14 bushels of corn per hour.

AB BH-Weight each 15 lbs......Each \$3.19

In cartons of ¼ or ¼ dozen and barrels of one dozen.



#### R & H

Shells all size ears thoroughly snells all size ears thoroughly and rapidly—deposits corn in the box or barrel and cob outside. Attaches easily and quickly to box or barrel. All parts are fully warranted by the factory against breakage and defect.

Attractively finished in red and gold baked japan. Strongly made of malleable fron, with chilled bearings. Height over all 11 miches, width over all 10% inches. Toothed disc wheel 8% inches in diameter. Crank 7 inches long.

AY 30-Weight per dozen 180 lbs...... Each \$2.69

Packed 1¼ dozen in a barrel.



#### PATCH'S PONY

Shells clean all kinds of field corn and throws out the cobs. Fastens to bin, box, barrel or tub by two clamps. Two extra clamps are furnished with each sheller. Sturdy and efficient. Made of japanned malleable iron, with hardened bearings that insure smooth running. Pressure is regulated by a heavy No. 9-gauge wire coil spring. Diameter of shell wheel 7¼ inches, studded with hinch oval teeth. Steel shaft with bearing is 4½ inches. Height over all 10 inches, width over all 10 inches. Adjustable hopper—inches. Length of crank 9% inches. Adjustable hopper—width 3¼ inches, depth 4 inches. Length of crank 9%

#AB 1902—Weight per dozen 168 lbs.......Each \$2.29

One dozen in a barrel.



An economy model that shells all sizes of field corn—throwing out cobs. give excellent service.

Cast iron, japanned. To bolt or screw to box. Hardened bearings. Adjustable hopper 3 inches wide, 3½ inches deep. The pressure is regulated by a heavy 10-gauge wire coil spring. Shell wheel 8 inches in diameter is studded over all 10 inches. Crank 7¼ inches long.

AB 51 G Weight per dozen 144 by Fach 51 90

AB 5LG-Weight per dozen 144 lbs......Each \$1.89

One and two dozen in a barrel.

CORN MILLS





No. AB 1

No. AB 2

Cast iron one-piece cylinder stem and base piece, heavily tinned, smoothly finished. Cast iron detachable crank 10½ inches long, with smooth ebonized wood handle, Hardened cast iron grinding plate discs are serrated and finished dull nickel for easy cleaning—no tarnish. Removable cast iron front bracket and aluminum hood, with adjusting nuts at each side. Nickel plated steel round hopper. Diameter at top of body 3½ inches; base 1½x3¼ inches. Fastens to table by thumb nut or may be screwed on for permanent use. be screwed on for permanent use.

Will grind approximately 2 bushels per hour.

		Cap. Hopper,		Height Over All,	
Nos.	Each	Lbs.	Inches	Inches	Lbs.
AB 1	\$3.98	11/4	51/4 x3	14	11
AB 2	4.89	3 1/4	51/4×71/4	181/2	13
		Six in a	case.		

#### GRIST MILLS





For grinding salt, corn, wheat, rye, peas and all similar grains. Will also grind dry bones, shells,

Cast-iron body and hopper, painted vermilion. Strong steel alloy grinders, adjustable by thumb screw to coarse, medium thumb screw to coarse, medium or fine. Large, oval open hopper 5%x4½ inches, Large 18-inch cast-iron balance wheel with hardwood grip handle—easier, faster turning. Two feet for screwing to table. Height from table to top of hopper 8½ inches.

Capacity about 20 lbs. of fine meal per hour.

AB SGM-Weight each 30 lbs..... Each \$4.95

One in a crate.

### FODDER SQUEEZERS



A time saver to every corn raiser. One man can do the work of two. Japanned malleable iron frame, point 2½ inches long, with head at end. Length over all 5 inches. Without rope.

AB 1—Weight per dozen 5 lbs..... Each \$0.23

One-half dozen in a cardboard box.

Use KEEN KUTTER Pocket Cutlery

# CORN HUSKING EQUIPMENT

#### CORN HUSKERS

- Make husking easier and quicker, save time and labor, reduce the number of motions necessary to clean the ear.
- Protect your hands from cuts. May be worn on bare hands, or over gloves or mittens.

These various styles, designed to meet the individual requirements of farmers all over the country, are made of highest grade materials. Carefully and expertly constructed to withstand hard use, and at the same time be comfortable to wear. Will not chafe the hands. They will pay for themselves many times in one season, in efficient service, and time saved.



#### CLARK'S ORIGINAL "CORN KING"

One-piece heavy grain leather palm One-piece heavy grain leather palm pad and wrist piece, with 6-inch lacing strap across back of hand. Coldrolled steel palm plate can be bent to fit any hand. The adjustable patented spear point hook, secured to palm plate by screw, can be shifted and tightened to any position desired. Wired buckle and dee. All metal parts cadmium plated.

parts cadmium plated.

#### Right Hand

AB A-Weight per dozen 3 lbs. Each \$0.55



#### CLARK'S DANDY

Well fitting heavy split leather with long strap passing around the thumb, twice across the back of hand to an easy-open buckle. Cold-rolled steel palm plate 1%x3 inches. Single corrugated stationary hook stamped out of palm plate. All metal parts cadmium plated.

#### Right Hand

AB DD-Weight per dozen 1% lbs.... Each \$0.25

#### BOSS



Adjustable twin spur: palm plate has 19 holes permitting adjust-ment of spurs to 9 different positions.

Muleskin pad under palm plate. Muleskin pad under palm plate.

Select chrome calfskin wrist
piece 2% inches wide fastened
by two ¼-inch straps and
buckles. Reinforced ½-inch
leather hand strap with buckle
fastenings. Cold-rolled shaped steel palm plate 3½x2½
inches. Two twin spur corrugated steel hooks held in
position by lugs. All metal parts nickel-plated.

#### Right Hand

AB T3—Weight per dozen 3½ lbs......Each \$0.59

#### BOSS



Works efficiently, fits comfortably.

Heavy one-piece chrome grain leather palm pad and double strapped 24-inch wide wrist piece. Three ½-inch leather straps with nickel-plated buckle fastenings. Nickel-plated and buffed curved sheet steel palm plate 422 inches fits around and parted to the plate fastenings. 4x3 inches fits around and protects base of thumb. Single stationary steel

hook and slotted arm. Hand strap passes through metal slot.

#### Right Hand

AB 50C—Weight per dozen 3 lbs......Each \$0.49

One dozen in a carton.



Adjustable single spur: palm plate has 19 holes for various adjustments.

Muleskin pad under palm plate
Reinforced leather hand strap
with nickel-plated buckle
Leather wrist piece 2 inches
wide, goes twice around wrist
and fastens with nickel-plated
Polished cold-rolled shaped steel palm plate

buckle. Polish 31/4 x21/4 inches.

#### Right Hand

AB CC—Weight per dozen 3 lbs......Each \$0.49

#### BOSS



Leather wrist piece 21/4 inches wide Leather wrist piece 2% inches when goes twice around wrist, fastens with Lustro finish buckle. Sturdy steel palm plate 34x24 inches Lustro finish. Single corrugated hook stamped out of palm plate.

AB T06RH-Right hand.

Each \$0.49

AB T06LH-Left hand.

Each .49

Weight per dozen 314 lbs.

#### BOSS



Simple serviceable huskers, comfortable to use, thriftily priced.

Select chrome calfskin. Leather wrist piece 2¼ inches wide. Fastened by two ½-inch straps and buckles. Leather reversible hand strap ½-inch wide with buckle fastening. Cold-rolled shaped steel palm plate 4¼ inches long, 3 inches wide. Single stationary steel hook. All metal parts nickel-plated.

#### Right Hand

AB 12RH—Weight per dozen 21/2 lbs......Each \$0.39

One dozen in a carton.

### **HUSKING GLOVES**

#### BOSS

All leather—waterproof brown muleskin, with open fingers to give you freedom of action. Reinforced thumb. Palm and fingers thickly studded with tinned rivets and steel discs for quick work and protec-tion of your hands. Tinned tion of your hands. Tinned concave stamped steel pin 4% inches long. Single strap with buckle.

AB 9-Weight per dozen pairs 8 lbs ...... Per Pair \$1.45

One-half dozen pair in a carton.

#### HUSKING PINS



BOSS

Made to wear over glove. Exmade to wear over glove. Extra select chrome calfskin straight finger guard 1½ inches wide. Strap ½ inches wide with nickel-plated sliding loop and brass screw tip adjustment. Round forged steel, nickel-plated pin 5 inches long, with flattened end.

AB G—Weight per dozen 11/4 lbs...... Each \$0.37

One dozen in a carton.

#### BOSS



The pin that cuts through the husk quickly, easily. The concave stamped polished steel pin 4½ inches long is clamped to the brown split muleskin finger guard 1¼ inches wide. A select chrome calfskin adjustable finger strap 1¼ inches wide fastens by an adjustable end

AB N—Weight per dozen 11/4 lbs...... Each \$0.23



BOSS

Easy to use—with adjustable strap, and calfskin finger guard.

Concave stamped polished steel pin 4% inches long, riveted to select chrome calfskin finger strap 1-inch wide, and large select chrome calfskin finger guard 1¼ inches wide. Adjusting strap ¼-inch wide, that fastens with XC tin-plated buckle fastening.

Right Hand

AB200RH—Weight per dozen 1 lb......Each \$0.15

Three dozen in a carton.



#### BOSS UNIVERSAL

Adjustable to any size. Heavy sheet steel body and pin, nickel-plated and polished. When closed it is 4 inches long, open it is 5% inches.

AB 2700—Weight per dozen 1 lb......Each \$0.12

Two dozen in a carton.



#### BOSS

An inexpensive husking pin. Concave stamped tinned steel pin 4% inches long riveted to brown split muleskin strap 1 inch wide. Three compartments. Thong

fastening. Right hand. AB 2000RH—Weight per dozen % lb......Each \$0.10

Three dozen in a carton.

#### WRIST SUPPORTERS

Give excellent support to weak or injured wrists.

Gives additional wrist support for heavy labor farm work where extra strain is put on wrist.



Extra select chrome calfskin  $2\frac{1}{2}$  inches wide,  $16\frac{1}{2}$  inches long. Goes twice around the wrist. Nickel-plated buckle fastening. AB 2-Weight per dozen 11/4

.... Each \$0.27



Chrome calfskin  $2\frac{1}{2}$  inches wide, 8 inches long, with two  $\frac{1}{2}$  inch straps and XC plate (tinned) buckles.

AB 21X—Weight per dozen 11/4

lbs. ..... Each \$0.23

#### BOSS

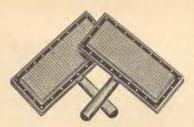


Extra wide. Made of chrome calfskin 3¼ inches wide, 8¼ inches long, with three ½ inch straps and XC plate (tinned) buckles, riveted on.

AB X23-Weight per dozen 11/4

One dozen in a carton.

#### COTTON CARDS



GENUINE OLD WHITTEMORE

Patent improved.

For carding cotton. Natural finish wood Natural linish wood back and handle. Back 10%x4% inches. Leather face with embedded curved steel wire bristles. Leather bound edges. Bristle area 91/4 x31/4 inches.

AB 10BW-Weight per dozen pairs 21 lbs.....

.....Per Pair \$2.00

One dozen pairs in a case.

#### KNEE PADS COTTON PICKERS'



One solid piece of high grade russet leather. Felt lined, sewed around edge; 11/2-inch leather straps with buckle riveted on. Length 7 inches, width 51/2 inches.

ABH-Weight per dozen pairs 11 lbs......Per Pair \$1.00

Two dozen pairs in a box.



#### Shaped to fit the knee.

Waterproof and durable. High grade 3-ply black rubber tire fabric. Felt lining sewed in. Turned up at front and riveted; ½-inch leather straps to buckle around knee, riveted on. Nickel plated buckles, riveted on. Made in rights and lefts. Length 8 inches, width over all 5½ inches.

AB 20-Weight per dozen pairs

Packing-bulk.

#### PINE TAR



DIXIE

Used on husking gloves to keep leather soft and pliable, and to prolong its life. Also used in animal husbandry, for tree surgery, for packing the hoof in horse shoeing, for making tar soap.

In full measure tin cans. Contains less than 2% moisture.

	IN SEAL TO	r CANS	No. Cans	Wt.
Nos.	Each	Size	Case, Doz.	Case, Lbs.
AB 511HP	\$0.12	1/2 Pt.	6	56
AB 511P	.19	1 Qt.	2	33
AB 511Q	.35	1 Qt.	2	55
	IN SCREW T	OP CANS		
AB 611HP	.15	1/2 Pt.	6	48
AB 611P	.25	1 Pt.	4	63

OUR HARNESS LINE IS COMPLETE AND PRICED RIGHT

## WORK GLOVES-Protect Your Hands at Work or Play

· Full-cut for your comfort!

· Durably made, will give you long wear.

#### MEN'S CANTON FLANNEL GLOVES



#### "LUCKIES"

These heavy gloves are well made to protect the wrist-will not slip off while working.

Brown fleece continuous palm and cuff and white canton flannel back. Shirred elastic wrist—deep flexible cuff. Neatly bound around prening with brown opening with brown leatherette.

Men's Size AB644-Weight per dozen pairs 41/2 lbs.

Per Pair \$0.29

#### SHORT SLIP-ON

These neatly tailored gloves are made of white canton flannel with nap in-side. Well-shaped fourchette fingers. Opening is bound in black cloth.

Men's Size-9-Ounce

AB 202-Weight per dozen pairs 1% lbs......Per Pair \$0.17

One dozen pairs in a carton.



· Give long wear, perfect protection for your hands.

Well made. Canton flannel, with nap inside. Seamed back pattern. Close-fitting knitted wrist.

#### ALL MEN'S SIZES

Nos.	Per Pair	Flannel Weight, Ozs.	Color Knit Wrist	Weight Per Doz. Pairs, Ozs.
AY C53	\$0.09	51/4	Light Bh	ie 26
AY CIN	.10	7	Navy	32
AY C8N	.10	8	Navy	38
AY CION	.12	10	Navy	42
AB C12N	.15	12	Navy	44

One dozen pairs in a bundle.

AY C53 and AY C7N-twenty-five dozen pairs in a case. Others-twenty dozen pairs in a case.

#### CANTON FLANNEL GLOVES

Designed to give added protection to the hand, roomy and comfortable, yet not bulky—may be worn with freedom of action. Sturdily made.



"Corn top" two-thumb reversible. Give double wear, are made of long nap (outside) eastern white fiannel, Gunn cut. Dark blue knit wrist. Stamped "corn top" fits snugly.

	MEN'S	Flannel	Weight
Nos.	Per Pair	Weight, Ozs.	Per Doz. Pairs, Ozs.
AB 225	\$0.15	8	28
AB 1378	.18	11	47
	One dozen neir	e in a carton	



Two-thumb reversible. Give double wear. Strongly made of white canton flannel with nap outside. Knitted wrist. Flannel weight 8ounce.

MEN'S SIZE

AY CSNH-Weight per dozen pairs 38 ozs. Per Pair \$0.13

One dozen pairs in a bundle. 20 dozen pairs in a case.

#### COTTON CHORE MITTENS



Easy to slip on—protects your hands in doing daily tasks.

Quilted and lined. Strongly made two-ply, outside ply heavy brown flannel with nap out; inside ply of heavy weight flannel. Quilted with red thread. Snug fitting blue knit wrist. Flannel weight 8 ounces.

#### MEN'S SIZE

AY 7922-Weight per dozen pairs Per Pair \$0.20

Ten dozen pairs in a carton.

#### HUSKERS' COTTON MITTENS

"CORN TOP"



Made of high-grade canton flannel (33 inches) with nap out. Two thumbs with inside patch of medium weight canton flannel, with nap out, with two rows of red stitching. Outseams red stitched. Blue knit wrist, "Corn top" stamped on. Flannel weight 12 ounces.

#### MEN'S SIZE

AY 734—Weight per dozen pairs 47 ozs. Per Pair \$0.17

One dozen pairs in a carton.

## CANTON FLANNEL WORK GLOVES-Protect the Hands of Farmers, Workmen, Engineers

· Comfortable, roomy gloves, not bulky.

· Perfectly sewn with strong thread.

You'll find just the kind you need for your particular type of work. With knitted wrists that fit snugly or cuffed styles, easy to slip off. Made for comfort and protection—heavy high-grade materials, at low prices.

KEEN KUITER

First quality gloves expertly made, yet amazingly low in price . . . the kind men prefer for working . . . they'll last



#### Brown Palm

Serviceable, brown palm gloves will not show dirt so easily. Blue striped yellow flannel back, with sin-gle brown flannel palm and full brown forefinger, nap outside. Fourchette fingers. Snug fitting brown knit wrist.
Trade mark "KEEN
KUMER" printed in
black on back of each glove, your assurance of highest quality.

Men's size-8-ounce.

AB 200BR-Weight per dozen pairs 11/4 .....Per Pair \$0.15



A-1 quality—full size -low price.

Gunn-cut for greater flexibility of the fingers and more comfort in wearing. Good quality full long nap Pepperell flannel, with knit wrist. Trade mark "KEEN KUTTER" printed in red on back of each glove, your assurance of highest quality.

### 12-OUNCE LONG NAP PEPPERELL FLANNEL

AB 300R—Red knit wrist......Per Pair

8-OUNCE LONG NAP PEPPERELL FLANNEL

AB 100B-Blue knit wrist......Per Pair \$0.13

AB 100R—Red knit wrist......Per Pair

Weight per dozen pairs 11/2 lbs.



#### ENGINEER SPECIAL

action gloves-allow ample freedom in handling throttles, or operating machinery, yet protect your hands.

Heavy weight canton flan-nel with nap inside, Seamless back pattern with dou-ble cuff, overcast in red. "Engineer Special" printed on the cuffs.

Men's size-9-ounce.

AB 259ES - Weight per dozen pairs 31/2 lbs.....Per Pair \$0.23

One dozen pairs in a carton.



#### QUILTED AND LINED

Two-ply—Outside ply, medium weight brown flannel with nap out. Inside ply, medium Inside ply, medium weight gray flannel with nap in. Close fitting tan knit wrist.

AB 3876 - Men's size. Weight per dozen pairs 31/8 lbs.

Per Pair \$0.20

AB 3876GS - Giant size. Weight per dozen pairs 31/6 lbs.....Per Pair \$0.23

### QUILTED AND LINED



AB 626—Weight per dozen pairs 31/4 lbs...Per Pair \$0.23



#### WHITE CANTON FLANNEL

Clute cut, light weight gloves that give necessary protection to your hands for light work. Seamed back pattern, with nap inside. Blue knit wrist.

			Wt. Pe		
			Flannel	Doz.	
	Per	Sizes	Wt.,	Pairs	
Nos.	Pair	For	Ozs.	Ozs.	
AB 404	\$0.12	Men	7	32	
AY 258	.19	Men's G	Hant		
		Extra L	arge 12	49	

One dozen pairs in a carton.

FOR PENETRATING WARMTH

USE A

SIMMONS CIRCULATOR HEATER

## LEATHER PALM WORK GLOVES-Give Extra Protection, Wear Longer

 Leather palm insures perfect protection, will last much longer than all-fabric gloves — made to withstand hard wear. • Full cut and roomy, gives hand plenty of freedom.

· Stitched with strong thread, will not rip out easily.



#### ONE BUCK LUMBERJACK

Well made and double stitched. Heavy canvas Genuine backs horsehide palm, wrist piece; full leather fingers. Leather reinforcement around the thumb. Wide leather knuckle band. Rubberized, waterproof double cuff with trade mark illustration

and more comfort in wearing.

#### Men's Size

AB 866-Weight per dozen pairs 71/2 lbs...Per Pair \$1.00



#### WHITE MULE

New harmonizing gray stripe flannel, with selected side split leather palm, wrist piece, knuckle strap, full leather forefinger and tips of fingers. Rubberized inseam cuff. Gunncut for greater flexi-bility of the fingers and more comfort in wearing. Elastic strap across back of wrist. Blue cloth bound around opening.

Men's, Large Size

AB 229WM-Weight per dozen pairs

716 lbs. ... Per Pair \$0.75



medium weight glove that is expertly made of fine materials—gives satisfac-tory service at a nominal cost.

Blue striped yellow canton flannel, with double cuff. Seam-less back. Continu-ous thumb. Medium grade leather palm with leather tips ex-tending over back of fingers. Gunn-cut for greater flexibility of the fingers and more comfort in wearing. Elastic strap across the back holds gloves securely.

Men's Size

AB 48-Weight per dozen pairs

......Per Pair \$0.49 51/2 1bs. .....

### TOM AND JERRY

Heavy duty-for farmers and workmen. Durable and comfortable-highest grade materials. "Tom and Jerry" stamped on cuff, with illustration of two mules. Gunncut for greater flexibility of the fingers and more comfort in wearing.



New harmonizing gray stripe flannel, with drab split leather palm, wrist piece, knuckle strap, full leather thumb and tips of fingers. Rubberized cuff. Elastic strap across back of wrist.

Men's, Large Size

AB 419-Weight per dozen pairs 71/4 Ibs.

Per Pair \$0.59



Medium weight, white flannel with rubberized, water-proof double cuff. Seamless back. Selected drab split leather palm with tips extending over Elastic strap across back.

Men's Size

ABTJ1 - Weight per dozen pairs 7 lbs.

Per Pair \$0.49



### BAND TOP-LEATHER PALM-

"SAFETY CUFF" Heavy white flan-nel back, gray split leather palm, half leather thumb. Rubberized wrist band, red cloth bound. Elastic strap across back.

Men's Size

AB TJ2-Weight per dozen pairs 4 1/4 lbs.

Per Pair \$0.49

One dozen pairs in a carton.

## WORK GLOVES - Made for Comfort and Hard Wear

Designed to Give You the Greatest Hand Protection and Long Service, for Your Money!

### LEATHER PALM GLOVES



Serviceable gloves. Smoke and flame colored 10-ounce flannel, white fleeced inside. Seamless back. Horse grain leather palm, with tips ex-tending over the back of fingers. Gunn-cut for greater flexibility of the fin-gers and more com-fort in wearing. Tan knit wrist is snug fitting.

Men's Size AB 6515 - Weight per dozen pairs 41/2 lbs.

Per Pair \$0.59

Medium weight red striped brown canton flannel. Seamless back. Brown bucktan split leather palm with leather tips ex-tending over back of fingers for extra strength. Gunn-cut for greater flexibility of the fingers and more comfort in wearing. Brown knit wrist.

Men's Size AB380-Weight per dozen pairs 3% lbs.

Per Pair \$0.45



With new patented reinforced double leather palm that gives extra wear and service.

Blue striped yel-low flannel, with shoulder split leather riveted palm, leather tipped thumb. Blue knit wrist.

Men's Size AB PL40 - Wgt. per dozen pairs

214 lbs.

Per Pair \$0.29



Blue striped yellow flannel, with seamed back. Set-in thumb. Medium grade leather palm that gives extra wear and longer service. Light blue knit wrist.

Men's Size AB 6506 - Weight per dozen pairs 3% lbs.....Per Pair \$0.25

#### JERSEY GLOVES

#### SLIP-ON DRESS PATTERN

These gloves are dressy in appearance—they harmonize with overcoats-they are form-fitting and comfortableslip on and off easily-do not soil easily.



Brown elastic jer-sey, with red lin-ing, duplexed, Gunn-cut for greater flexibility of the fingers and more comfort wearing. Leatherette bound around opening.

AB 549-Men's size.

Per Pair \$0.29

AB 549C-Cadet Per Pair \$0.25

Weight per dozen pairs 1% lbs.



#### DRIVING

Specially made for truckmen and chauffeurs.

#### JERSEY-LEATHER GRIP

Suede leather grip and thumb stand more wear and help prevent your hands from slipping. Close - fitting elastic brown jersey, fancy fleece lined-warm and comfortable. Opening brown jersey bound.

Men's Size

AB 511—Weight per dozen pairs 2% Ibs...Per Pair \$0.59



Seamed back pattern. Well sewed. Seal brown jersey, with continuous thumb.

#### Men's Size

Heavy weight. "Patent Rubberset."

AB 600-Weight per dozen pairs 21/2 lbs.

Per Pair \$0.19

With regular knit wrist. 8-ounce material. AB 699-Weight per

dozen pairs 1 % lbs. Per Pair \$0.15

Cadet or Women's Size

With regular knit wrist. 8-ounce material.

AB 699C-Weight per dozen pairs

One dozen pairs in a carton.

## MEN'S FULL LEATHER GLOVES

Roomy and well made, assuring long wear and perfect comfort.



#### SLIP-ON DRIVING GLOVES

#### Warm Fleece Lining

Tape fastener on back makes gloves fit snugly. Patented thumb shield. Gunn-cut for greater flexibility of the fingers and more comfort in wearing.

Bucktan split leather with red fleece lining. Cuff opening black cloth.

AB 858 - Weight per dozen pairs

5 lbs...Per Pair \$0.79



#### LEMON HORSEHIDE SLIP-ON

Soft, flexible gloves of lemon colored horsehide, sewn with strong thread for long service. Gunnfor long service. cut for greater flexibility of the fingers and more comfort in wearing. Cuff opening red cloth bound.

Men's Size

AB 1004-Weight per dozen pairs 41/2

lbs ...... Per Pair \$0.85

One dozen pairs in a carton.



### WHITE HORSE-HIDE SLIP-ON

Soft, pliable gloves expertly made of genuine full grain white horsehide. Gunn-cut for greater flexibility of the fin-gers and more comfort in wearing. Cuff opening gray cloth bound. Tape fastener on back makes gloves fit snugly.

Men's Size

AB 125WT-Weight per dozen pairs 21/2 lbs.

Per Pair \$0.98

One dozen pairs in a carton.



#### SPLIT COWHIDE SLIP-ON

Drab color, will not soil easily. Well sewn; soft and pliable. Gunn-cut for greater flexibility of the fin-gers and more comfort in wearing. Cuff opening black cloth bound

Men's Size AB 851-Weight per dozen pairs 41/2 lbs.

Per Pair \$0.59

One-half dozen pairs in a carton.

# Go Modern Now ...

Install

# SIMMONS

LIGHTING FIXTURES

#### CHILDREN'S JERSEY GLOVES

Comfortably styled of elastic knit material—they fit snugly and give the tender young hands perfect protection.



The knit wrist band hugs the wrist. Choice of navy, brown or gray mixture. Weight of material 8½ ounces.

AB 763—Weight per dozen pairs

......Per Pair \$0.15

One dozen pairs (assorted colors) in a carton.

## RUBBER DIPPED COTTON GLOVES-A Popular Choice!

• They wear longer because they're waterproof, greaseproof and acidproof!

These "firm-grip" gloves are designed to take abuse and at the same time be comfortable and pliable, allowing freedom of action. For farmers, truck drivers, garage, battery and filling station men. And they're priced so economically.





Full rubber dipped.

Two-tone. Heavy weight gloves with transparent rubber back, black rubber palm, heavy double quilted lining. Blue knit wrist. KEN KUTTER trade mark printed in red on the back of each glove.

Men's Size

AB RT40—Weight per dozen pairs 2% lbs.

Per Pair \$0.37



Brown jersey, with rubber dipped palms—give excellent service. Plain brown elastic knit jersey back, unlined, with brown rubber dipped palm and fingertips. Closefitting brown knit wrist.

Men's Size

AB RJ0—Weight per dozen pairs 1% lbs....Per Pair \$0.27



Rubber palm, fingers and tips.

Medium weight. Ventilated back (not dipped), rubber palm, fingers and tips; blue knit wrist. KEEN KUTTER trade mark printed in red on the back of each glove.

Men's Size

AY RO35—Weight per dozen pairs 2 lbs.

Per Pair \$0.25



Good quality fleecelined cotton, black rubber dipped and vulcanized. Navy blue knit wrists.

Men's Size—Medium Weight

AY R250—Weight per dozen pairs 2<sup>1</sup>/<sub>4</sub> lbs......Per Pair \$0.25

One dozen pairs in a carton.

#### **\*STOCK AND DISPLAY SHELF FOR GLOVES**



Combination Display and Stock Glove Fixture.

Handy, attractive, economical!

This modern, space-saving, time-saving fixture keeps gloves constantly on display, visible from all four sides, insuring almost automatic selling.

Seasoned wood and plywood frame with steel partitions. Size 29 inches wide, 20 inches high. Brown Duco finish.

Included free with orders for 50 dozen or more gloves, shipped from factory.

#AX 50SDS-Weight each 12 lbs.

Shipped with gloves. Shipped knocked down, easily assembled with screw driver.

This free offer applies only to Gloves and Mittens shipped from Minneapolis, Minn., and Louisiana, Mo.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

## OILERS

The Right Oiler for Every Kind of Household and Commercial Use

#### MOWING MACHINE

SIMMONS

#### SIMMONS

Wide mouth type.

Copperized one-piece stamped steel body with seamed spring steel bottom. 4-inch screw spout with leather washer. Height of body 3% inches, diameter 2% inches.

Capacity ¾ pint.

AB S1140-Straight Spout..... Each \$0.15

AB S1140BS-Bent Spout.....Each

#### WIDE MOUTH TYPE BLUE JAY

Economy model that gives you excellent service.

The lithographed blue drawn body is made of one-piece seamless IX tin with double seamed spring bottom. Lettered double seamed spring bottom. Lettered in white. Screw spout 4 inches long with leather washer. Wide mouth opening 1½ inches. Height of body 4 inches, diameter 3 inches. Height over all 7½ inches.

Capacity ¾ pint.

AB 11BJ-Straight spout..... Each \$0.12

.12 AB 12BJ-Bent spout ......Each

#### POPULAR

Full tinned finish seamless one-piece drawn steel body with double seamed heavy spring tin bottom. Wide mouth, heavy steel spout 4 inches long. Body height 3% inches, diameter 3 inches. Height over all 7% inches.

Capacity % pint.

AB 77T-Straight spout ......Each \$0.10

AB 77TBS—Bent spout ......Each

One dozen in a carton. Weight per dozen 3 lbs.



#### FULL SIZE PATTERN

Seamless one-piece drawn steel body, with double seamed heavy spring tin bottom. Wide mouth, extra heavy tinned steel spout 4 inches long. Body height 3% inches. diameter 3 inches. Height over all 7% inches. Capacity

IMPRINTED AT NO EXTRA CHARGE

Dealer's name, character of business and address printed on these oilers—no charge when ordered in lots of one gross or more.

#AB 773-Assortment: Consists of one gross oilers-1/2 gross each enameled red, green and blue. Weight per gross 40 lbs...... Each \$0.15

One assortment in a fibre box.

#### COPPERIZED STEEL WIDE MOUTH OPENING STRAIGHT SPOUT

Seamless drawn, extra fine cold rolled strip steel body, copper plated-retains bright finish. Double seamed spring steel

Heavy tinned steel straight spout and 11/2-inch wide mouth opening.

		Diam.			Ht.		Wt.
Nos.	Each	Cap.,		Hgt. Body, In.			
AB 12	\$0.15	1/4	2%	1%	21/2	41/2	21/4
AB 13	.19	1/3	3%	21/8	3	4 1/8	234
AB 13A	.20	1/8	33%	21/8	5	6%	31/4
AB 14A	.23	1/2	3%	21/2	3	51/4	31/2
AB 14AA	.25	1/2	334	21/2	5	71/8	3%
AB 15	.30	1	41/4	31/4	3	6	4
AB 15A	.35	1	41/4	31/4	5	8	41/4



#### BENT SPOUT

Heavy tinned steel bent spout, with 11/2inch wide mouth opening. Particularly suitable for interior oiling that is difficult to reach.

Seamless drawn, extra fine, cold rolled strip steel body, copper plated-durable and retains its finish. Double seamed spring tin bottom.

			Diam.			Wt.
	Cap.,					
Each	Pts.	In.	In.	In.	In.	Lbs.
\$0.19	1/3	3%	21/8	5	63/4	31/2
.23	1/3	3 %	21/8	9	10%	3%
.27	1/2	33/4	21/2	9	111/8	41/2
.33	1	41/4	31/4	9	11%	5
	\$0.19 .23 .27	Each Pts. \$0.19	Each Pts. In. \$0.19 \( \frac{1}{3} \) 3\% \(	Each Pts. In. In. \$0.19	Each Pts. In. In. In. \$0.19	Bot- Hgt. Lgth. Over Cap., tom, Body, Spout, All, Pts. In. In. In. So.19 1/3 3 3/4 2 1/8 5 6 3/4 2 1/2 3 1/4 3 3/4 2 1/2 9 11 1/8

One dozen in a carton.

#### SEWING MACHINE



#### COPPER PLATED

Seamless steel body with seamed bottom. Threaded steel reinforced insert type straight spout 1½ inches long. Diameter at bottom % inches; height over all 2% inches.

Capacity 1/2 Ounce

AB 1008—Weight per dozen 34 lb......Each \$0.05

One dozen in a carton.

# Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

## OILERS

The Right Oiler for Every Kind of Household and Commercial Use

EAGLE POPULAR SIZE





#### COPPER PLATED—WIDE MOUTH

Seamless drawn steel body, with spring steel bottom; wide mouth 1¼-inch opening; reinforced insert type copperplated steel straight spout 4 inches long. Body height 2 inches, diameter at bottom 3½ inches. Height over all 51/2 inches.

Capacity 1/2 Pint

AB 32—Weight per dozen 21/2 lbs...... Each \$0.10



EAGLE DANDY Ideal for automobiles. machine shops, household and general utility purposes.

COPPER PLATED Seamless drawn steel body, with spring steel bottom. Reinforced insert type spout.

Assortment Consists of One Dozen:

One-third dozen No. One-third dozen No.
AB 13A oilers—capacity ½ pint. Straight
spout 5 inches long.
One-third dozen No.
Bent spout 9 inches long.

AB 14 oilers—capacity ½ pint. Bent spout 9 inches long. One-third dozen No. AB 14AA oilers—capacity ½ pint. Straight spout 5 inches long.

AB 623-Assortment. Weight per assortment

..... Each Oiler \$0.25

#### EAGLE MIDGET ASSORTMENT



Handy household size. Convenient for sewing machines, appliances and any household equipment that requires oiling. Copper-plated steel olders oiling. C

#### Assortment consists of:

% doz. No. 254C oilers, 1/2 ounce capacity with 41/2-inch spouts.

1/3 doz. No. 274C oilers, I ounce capacity with 41/2-inch spouts.

AB ENM-Weight per assortment 1 lb...... Each \$0.10

One dozen in an attractive display carton that opens like a book.

#### HANDY OILERS

Slightly bent spout, easier to reach inside parts. Keep one of these oilers handy. COPPER PLATED

Seamless steel body, with seamed bottom. Threaded steel reinforced insert type bent spout 4 inches long. Diameter at bottom 1% inches. Height over all 5 inches.

Capacity 1/2 Ounce AB 440-Weight per dozen 1 lb. Each \$0.05

One dozen in a carton.

#### EAGLE HANDY HOUSEHOLD



For your sewing machine, vacuum cleaner, lawn mowers electric fans, small motors, vibrators roller skates or guns.

#### COPPER PLATED

Seamless drawn steel

body; spring steel bottom; reinforced insert type copper-plated steel straight spout. Body weight 1¼ inches, diameter at bottom 1% inches

Assortment consists of: Two dozen oilers—one dozen each with 11/2 and 2-inch spouts.

#### Capacity 1/2 Ounce

AB 05-Assortment. Weight per assortment 1% lbs. ..... Each \$0.07

#### EAGLE OILERS



An Eagle oiler for every oiling purpose. This assortment of twelve shows various types suit-able for the different kinds of machinery or implements. Complete with attractive display stand done in black, yellow and red. Size 24x30 inehes.

AB 1937-Assortment.

Weight per assortment 16 lbs.

Per Assortment

One display in a shipping carton.

#### Assortment Consists of

\$0.08
.15
.13
.35
.75
45
1.00
1.25
1.00
1.80
2.40
1.95

One dozen in an attractive display carton that opens like a book.

# OILERS

The right oiler for every kind of household and commercial use.

### PUMP OILERS

### YEAR ROUND

Designed and built to operate efficiently Designed and built to operate efficiently when held in any position, in any temperature and in heaviest dust and dirt. Oil can be pumped one drop at a time and with same stroke shot 20 or 25 feet. Will not choke or balk at extreme cold and can be entirely emptied in any position. position.

Copper Plated

Body one-piece heavy gauge steel, copper-plated inside and outside. Bottom double seamed to dome, making a permanent leak-proof joint. Dual valves, incased in heavy brass cylinders, are firmly set in cast-brass case. Extra large filler cap on the side of oiler dome, making it more accessible for both filling and removing cap.

Extra heavy steel spout 10 inches long with extra heavy brass union at joint.

Nos.

AB 28

AB 29

AB 2915

Guaranteed by the manufacturer against mechanical defects of any description.

Diameter of body at bottom 3¼ inches, filler opening 1½ inches. Height over all 13½ inches.

Capacity one pint

AB 1000-Weight per dozen 14 lbs......Each \$1.95

### IMPROVED HYDRAULIC FEED

For ease in operation, serviceability, and durability this oiler is one of the best. Easy to clean.

Pumps any oil that will flow. Will deliver oil in a full stream or one drop under perfect control, the quantity is controlled by the pressure exerted on thumb lever. Permits oiling in any angle from any position with the least effort, enabled by the position of handle and thumb lever. Positive in action.

All pump parts are removable, no soldered connections. No pump leathers are used. Pump is hydraulic type with machined and ground brass plunger and accurately fitted tube, making it possible to pump any oil that flows.

With Upright Spout

Each	Cap.,	Lgth. Spout, In.	Diam. Body, In.	Height Over All, In.	Wt. Per Doz., Lbs.	
\$1.49	1	9	3%	141/4	13%	
2.10	2	9	41/4	151/2	17	
2.19	2	15	41/4	211/2	18	

## ENGINEERS' MODEL

With long spouts for oiling machinery with safety.

with salety.

The choice of experienced engineers, mill-wrights and mechanics. Made with seamless drawn copper-plated cold rolled steel tank, and oval top, soldered to the lower section. Genuine double seamed bottom. The 1-inch threaded filler cap has vent hole. Flat steel handle % inch wide, welded to the body.

Welded steel, reinforced insert type spout, 18 inches long, secured by solid brass bushing with cut threads. Diameter of body at bottom 4¼ inches. Height over all 23% inches.

Capacity two pints

AB 11-Weight per dozen

14¼ lbs. \_\_\_\_Each \$1.29

One-half dozen in a carton.

### PUMP OILERS

### HYDRAULIC FORCE FEED



Rainbow assortment.

Will deliver oil in full stream or a drop at a time under perfect con-trol; pumps any oil that flows all year 'round.

The spout, pump and handle is one detach-able unit, easily cleaned and assembled.

For use on tractors threshers, automobiles, steam shovels, farm im-plements and machinery.

body, tinned to prevent corrosion—enameled assorted colors—red, blue and green; genuine double seamed bottoms; new type detachable welded steel bent spouts 6½ inches long, with brass couplings and machine-cut threads. New type one-piece handle and thread protector; spout and handle coppered.

Solid brass hydraulic numer products and thread pro-

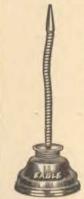
Solid brass hydraulic pump—no leathers—machined and ground plunger and tube; ball valves. Height over all 9% inches.

### Capacity % pint

AB RD1-Assortment: consists of six oilers-assorted colors, red, green and blue. Weight per 

One assortment in a display carton.

# FLEXIBLE SPOUT OILERS



Get into those inaccessible places that cannot be reached with rigid spout oilers. Give excellent service in garages, service stations, factories, farms and homes.

Seamless drawn one piece highest grade cold rolled steel body and collar with heavy rolled thread; wide mouth opening 1½ inches. Guaranteed genuine double seamed spring steel bottom; spouts are %-inch asbestos lined rustless flexible steel tubing with new sleeve type metal tips, length 8 inches. Diameter at bottom 3½ inches; height to top of collar 2½ inches.

Capacity 1/3 Pint

AB 32F-Weight per dozen 3 % lbs, ..... Each \$0.25

One dozen in a carton.

# ENGINEERS' RIFERERS



Convenient for filling large oil cups and sight feed oil-ers where frequent heavy oiling is necessary. With-stand heavy duty.

Highest grade, cold rolled, copper plated steel body, with genuine double seamed bottom. Easily filled through 1-inch filler opening, with threaded filler cap. Flat steel welded handle easy to grip. Seamless welded steel spout 6% inches long. Diameter at bottom 5½ inches. Height to top of collar 4% inches.

# Capacity I Quart

AB 210—Weight per dozen 13 lbs......Each \$1.59

One-half dozen in a carton.

# SHOE LASTS AND STANDS



With Three Reversible Lasts

Japanned cast iron stand 13½ inches high. Three lasts one each 9x2% inches; 7x2% inches and 5%x2½ inches. AB 23-Weight per dozen

120 lbs. .....Each \$0.89

Six dozen in a barrel.

With Four Reversible Lasts

Japanned cast iron stand 13½ inches high. Four lasts, one each 10x3¾ inches; 9x3 inches; 7x2½ inches; 6x2 inches

AB 24-Weight per dozen 157 lbs......Each \$1.19

Four dozen in a barrel.

With Three Reversible Lasts

Japanned cast iron stand 24 inches high. Three lasts, one each 9x2% inches; 7x2% inches; 5%x2% inches.

AB 26—Weight per dozen 150 lbs......Each \$1.29



Three Reversible Lasts

Red enameled cast iron stand 12 inches high. Three lasts, one each 5½x2 inches; 7x2% inches; 8½x2% inches.

AB 323-Weight per dozen

78 lbs. ..... Each \$0.89

Seven dozen in a barrel.

Four Reversible Lasts

Japanned cast iron stands 24 inches high. Four lasts, one each 10x3% inches; 9x2% inches; 7x2% inches; 5%x2% inches.

Two and one-half dozen in a barrel.

### ADJUSTABLE

Eliminates tilting stand when necessary to work on edges of toe or heel of shoe. The top section of stand is round and has a number of grooves or cogs. Lasts have two heavy lugs inside which fit into the grooves on stand, enabling adjustment of lasts to three different positions.

Four Reversible Lasts

Red enameled gray iron stand 24 inches high. Four lasts, one each 5½x1¾ inches; 6¾x2¾ inches; 8x2¾ inches; 914 x3 inches.

AB 68-Weight per dozen 170 lbs. Each \$1.79

Packing-bulk.

### LAP LASTS



Combination — for men's, boys', women's and girls' shoes.

Cast iron, japanned; in two parts; shoe lasts 6x3 inches and 4½x2¼ inches. Removable heel last fits in socket on shoe last; shoe last 7¼x6¾ inches. Heel last extends 5 inches.

AB 1-Weight per dozen

66 lbs. Each \$0.79

Packing-bulk.

# BABY SOLE LEATHER STRIPS



SIMMONS Each piece contains sufficient leather to make one pair of men's large soles.

Average size of strip 4½x14 inches long. The package is inches long. T

AB S5-Oak tanned clear leather. Weight per package 5 lbs......Per strip \$0.23

One dozen in a package.

### SOLE LEATHER STRIPS

Shoes resoled with these fine quality leathers will give you many more walking miles of service—and at the same time retain the new-looking shape of your shoes.

# SIMMONS



This extra good bend leather is tanned by the best known proc-

wearing. best quality.

Size 814 inches wide and 20 to 30 inches long.

AB S40—Oak tanned. Weight per dozen

# SIMMONS



Medium weight leather, smoothly fin-ished; good wearing qualities.

Size 6½ inches wide by 18 to 25 inches long.

AB S10-Oak tanned. Weight per dozen 10 lbs. Per Lb. \$0.59

Size 81/4 inches wide by 18 to 25 inches long.

AB S20-Oak tanned. Weight per dozen

12 lbs. Per Lb. \$0.59

25 lbs. in a package.

# ALLEN'S UNION



Tanned and finished by the best known process, this smooth finish, neat looking, medium weight leather has long-

wearing qualities. Guaranteed as to quality. Strips are 81/2 inches wide and 20 to 30 inches long.

AB A-Bark Tanned. Weight per bundle 25 lbs. ......Per Lb. \$0.98

Eight bundles in a bale.



### CHROME OAK-WATER-PROOF

Combination chrome and oak tanned—will not absorb moisture to any great extent. Has unusually fine wear-ing qualities and permits smooth finish edges. Will not mash down.

Size 81/2 inches wide and 18 to 25 inches long.

AB 30-Chrome oak tanned. Weight per

25 lbs. in a package.

# LEATHER SHOE SOLES OR SQUARES KLICKER



Men's square cut, union tanned clear leather, size 64x84 inches.

Nos.	Each	Height Pkg., Ins.	Wt. Per Pkg. Lbs
AB 130K	\$0.19	11/2	3
AB 135K	.23	13/4	3
AB 140K	.25	2	4
AB 145K	.29	21/4	41/6

One dozen in a package.

Sold Only in Full Packages

# LEATHER SHOE SOLES OR TAPS SIMMONS



Die-cut in shape of shoe sole easy to use. Oak tanned clear leather, straight die cut.

FOR MEN'S SHO	ES	
---------------	----	--

			н	eight	Stac	ek,		Wt. Per Dozen
Nos.		P	er Pair	Inch	ies	W	eight	Pairs
ABS	\$240		\$0.19	4		Me	edium	31/4
ABS	8245		.23	4	1/2	He	avy	31/2
ABS	3250		.29	5		He	avy	4
One	dozen	pairs,	assorted	sizes,	10	to 13	in a	package.

# FOR WOMEN'S SHOES

		Height Stack		Per Dozen
Nos.	Per Pair	Inches	Weight	Pairs
AB S430	\$0.10	3	Light	11/2
AB S435	.13	31/2	Medium	2
One dozen	pairs, assorted 5 pairs No.	sizes, in a si 5; 3 pairs No	tack (4 pairs o. 7),	s No. 3;

### SOLD ONLY IN FULL PACKAGES.

# KLICKER



# FOR MEN'S SHOES

**WW74** 

Union tanned clear leather, round cut, easy to put on.

Nos.	Per Pair	Weight	Stack,	Weight Per Doz. Prs., Lbs.
AB 35K	\$0.12	Light	31/2	3
AB 40K	.17	Medium	4	31/4
AB 45K	.20	Heavy	41/2	31/2
AB 50K	.25	Extra Heavy	7 5	4

One dozen pairs, assorted sizes, 10 to 13, in a package.

### FOR WOMEN'S SHOES

Union tanned clear leather, straight die cut.

Nos.	Per Pair	Weight	Stack,	Weight Per Doz. Prs., Lbs.
AB 330K	\$0.09	Light	3	1 3/4
AB 335K	.10	Medium	31/2	2
One dozen	pairs, assorted 5 pairs No.	sizes, in a 5, 3 pairs 1	stack (4 p.	airs No. 3,

### FOR MEN'S SHOES

Clear, oak sole leather, straight die cut. Strong and tough. AB 65—5 inches high. Extra heavy weight. Weight per dozen pairs 4½ lbs. ........Per Pair \$0.29

One dozen pairs (size 12 only) in a package.

# LEATHER SHOE SOLES OR TAPS



Guaranteed solid oak leather soles—"tough tanned" for extra long wear. Complete with enveloped nails. An exceptional value at the low price. Retail prices on each pair.

Assortment of 5 dozen pairs consists of 1 dozen pairs each:

Per	Pair
Ladies' size 7 (31/2 inches high)	30.10
Boys' size 7 (31/2 inches high)	.15
Men's assorted sizes 10 to 13 (3 inches high)	
Men's assorted sizes 10 to 13 (31/2 inches high)	
Men's assorted sizes 10 to 13 (4 inches high)	.25
AB 5-Assortment. Weight per assortment	
20 lbs. Per Assortment	

One assortment in an attractive display cabinet.

### SHOE SOLES



### FLEXSOLE Leather—Stick-On

You can easily and quickly put these new soles on your shoes, avoiding colds from wet feet, and making it possible to get a lot more wear out of your shoes.

They are light weight, flexible and easy on your feet. The genuine double tanned oak chrome leather will wear remarkably well and stand up under the hardest kind of use.

Nos.	Per Pair	For
ABFSW	\$0.19	Women
AB FSB	.23	Boys
AB FSM	.25	Men

Weight per box 3 lbs.

Each pair mounted on a green and red card with two tubes of cement and a metal scraper.

One dozen pairs in a box.



# LEATHER SHOE LACES

### PAWNEE

For sportsmen, loggers, hunters. Perfect for all types of work boots.

High-grade leather, Indian tanned.

Will stand the roughest wear

Laces are securely attached to card.

WW7. Forlat

			Per Doz.		
Nos.	Per Pair	Length, Inches	Width, Inches	Pairs, Lbs.	
AB PL721/8	\$0.19	72	1/8	11/8	
AB PL72%16	.23	72	200	1%	

One dozen pairs on an attractive display card 7½x14 inches.

### RUBBER SOLES

### DOWNY-WATERPROOF



Can be sewed or nailed on-best results obtained by sewing.

A high-grade black rubber composition sole made on the Munson pattern (wide shape) heavily corrugated, non-slip. Will give extremely long wear.

AB D713-Weight per dozen pairs 71/2 lbs ...... Per Pair \$0.19

One dozen assorted sizes (2 pairs, size 7; 4 pairs, size 9; 4 pairs, size 11; 2 pairs, size 13) in a cardboard box.



## BONUS

Can be sewed or nailed-best results are obtained by sewing.

Good grade black rubber composition soles that will be found serviceable and very satisfactory.

Made in a wide shape pattern, with deeply embossed bottom.

AB B100-Weight per dozen

pairs 71/2 lbs...... Per Pair \$0.15

One dozen assorted in a carton—2 pairs, size 7; 4 pairs, size 9; 3 pairs, size 11, and 3 pairs, size 13.



· Easy to put on. · Cuts shoe bills.

Waterproof—keeps feet dry.
Wears long—non-skid.

Good quality flexible black rubber for cementing on old or new leather soles.

The top of each sole is covered with raw gum rubber and covered with cloth strip which should be removed when applying. Each pair furnished complete with one metal roughener and one tube of cement; all mounted on attractive card.

### 10c Per Pair

AB 12B-Boot size. AB 12ML—Men's, large size. AB 12MM—Men's, medium size. AB 12WY-Women's and youths' sizes

Weight per dozen pairs 31/4 lbs.

One dozen cards in a cardboard box.

### RUBBER HEELS



### DOWNY

Very resilient and long wearing.

Strong, flexible, good quality rubber. Non-skid, the raised cones hold tightly on wet sidewalks.

# FOR MEN'S SHOES WHOLE HEELS %-INCH HIGH 15c Per Pair

BLACK for black shoes	TAN for tan shoes	
Nos.	Nos.	Sizes
AB DWB910	AB DWT910	9-10
AB DWB1011	AB DWT1011	10-11
AB DWB1112	AB DWT1112	11-12
AB DWB1213		12-13

Average weight per dozen pairs 61/2 lbs.

### HALF HEELS 7/16-INCH HIGH

	10c Per Pair	
BLACK for black shoes	TAN for tan shoes	
Nos.	Nos.	Sizes
AB DHB78	AB DHT78	7-8
AB DHB910	AB DHT910	9-10
AB DHB1011	AB DHT1011	10-11
AB DHB1112	AB DHT1112	11-12
AB DHB1213	AB DHT1213	12-13

Average weight per dozen pairs 5 lbs.

# FOR LADIES' SHOES HALF HEELS %-INCH HIGH

#### 10c Per Pair DIACH for block of con-

	DEGUE	TOT DIACK SHOES	
Nos.	Sizes	Nos.	Sizes
AB C3/0	000	AB C3	3
AB C2/0	00	AB C5	5
AB C1	1	AB C7	7

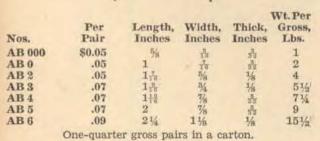
Average weight per dozen pairs 2 lbs. One pair in a carton, six dozen pairs in a box.

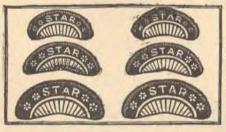
# STAR HEEL PLATES



Saves on wear and keeps heels straight.

Self-colored malleable iron with three thin prongs—do not damage the heel.





ON CARDS

Each card consists of three pairs of star heel plates one pair each Nos. 2, 3 and 4.

AB 51/2 C-Weight per gross cards 21 lbs. Per Card \$0.15

One dozen cards in a bundle.

### PLASTIC SHOE REPAIR KITS

### SO-LO-PERFECTED



The new plastic that gives longer wear to your shoes. Keeps your feet dry! Absolutely waterproof and is not af-fected by barnyard acids.

Also excellent for repairing auto tires, auto tops, rubber boots and other rubber, leather or cloth articles.

### Kit contains:

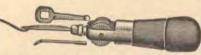
1 can (½ pint) of So-Lo. 1%-ounce tube blue bond rubber cement. scraper

All in an attractive two-color display box.

AB 225J—Weight per dozen 91/4 lbs......Each \$0.25

Six dozen in a carton.

# SEWING AWLS



### MYERS LOCK STITCH

Sews with a lock stitch and will be found a very sat-

isfactory tool for sewing shoes, saddles, harness, awnings, tents, carpets, gloves, and canvas of all kinds.

Stained hardwood hollow handle, with steel nickel plated frame. Reel and clamp nut for holding needle in position. Reels wound with waxed thread ready for sewing. Complete with two diamond point needles, one straight and one curved, both of which are grooved the entire length for the thread to run through. This avoids breaking the thread. Combination screw driver and wrench furnished for tightening the clamp which holds the needle, also for removing the reel for refilling. Length with needle inserted 7 inches. with needle inserted 7 inches.

AR M-Weight per dozen 3 lbs...... Each \$0.50

One in a carton, with directions for use.

# EXTRAS FOR No. ARM SEWING AWL

NEEDLES-DIAMOND POINT

AB 5-Fine straight. Weight per 

AB 6-Regular curve. Weight per dozen 1/8 lb.......Per Dozen .10

AB 8-Regular straight. Weight per dozen 1/8 lb......Per Dozen

WAXED THREAD-25-YARD SKEINS

AB ST-Weight per dozen 1/4 lb......Each \$0.20

Packing-bulk.

# SHOE THREAD



BARBOUR'S best Irish flax. Half bleached. AB 10HB-1 ounce balls....Per Ball \$0.29

COLUMBIA. Flax, half

bleached. AB 1-1 ounce balls....Per Ball \$0.19

One pound in a card-board box. 4 boxes in a package.

### SHOE PASTE

### BARTON'S



Cleans, shines and waterproofs shoes, Will not rub off on clothing or stain the hands.

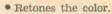
This high-grade paste has Neatsfoot oil in its composition, which softens and lubricates the leather In beautifully lithographed cans with handy key opener. Comes in 1-ounce cans.

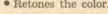
AB BB—Black \_\_\_\_\_Each \$0.10

AB BBR—Brown \_\_\_\_\_Each

One dozen in a carton; twelve dozen in a case.

# SHOE POLISH





· Covers scuffs and scars skillfully.

BARTON'S DYANSHINE

.10

- · Shines perfectly.
- · Easily applied.

Economical in price. Good for the shoes. The neatsfoot oil in the composition lubricates the leather.

Comes in 31/2-ounce bottles with dauber attached to cork. Each bottle in individual carton.

AB DB—Black Each \$0.25

One dozen in a carton; six dozen in a case.

ARTON'S BLAD

# SHOE POLISH





BARTON'S BELLE MODE

Cleans and polishes white

An extra high-grade polish with good covering qualities that keeps white shoes clear and white.

The 31/2-ounce bottles come in individual cartons. AB BW-White...Each \$0.28

One dozen in a carton; three dozen in a case.

# BARTON'S OIL-GLOW



The black liquid polish that will not wash off when shoes get wet. This liquid polish stains the leather and helps to cover scuffs and scars; contains neatsfoot oil to lubricate the leather and keep it soft.

In 21/2-ounce bottle with dauber attached to cork. Each bottle in in-dividual carton.

AB 0B—Black ..... Each \$0.19

AB 0W-White ..... Each .19 One dozen in a carton; six dozen

in a case.

# **Dazey Hand and Electric Churns**

# Make Delicious, Rich, Creamy Butter

· Light running—easy to operate.

 Sanitary, easy to clean—the tank and dasher may be easily and quickly detached for convenience in washing and sunning.

You'll make the finest granular butter you ever made with this churn with its specially designed turbine dasher, just follow the instructions carefully.

Attractive and sanitary in appearance. Sturdily constructed with copper-bearing charcoal tin tank, triple tin-plated, heavily soldered, blue enameled outside and tinned inside. The cast gray iron base, frame, gears, and solid steel center brace rods are finished in two coats of bright aluminum. The seasoned white maple two-piece cover, natural varnished finish with enameled wood knobs. Seasoned white maple four-blade removable turbine dasher, smoothly grooved and nalled, with steel dasher rod.



### TANK IX TRIPLE-PLATED TIN

The cast iron flywheel has a comfortable, varnished wood handle. Two heavy solid steel stay rods on each side. With nickel-plated cork lined screw cap drain at bottom of tank.

Capacity 2 gallons: Churning capacity 1 gallon. Size of tank 7x7x10 inches. Spread of base 8 inches. Diameter of flywheel 8½ inches. Height over all 21 inches.

AB 200DZ—Weight each crated 14 lbs......Each \$3.95

Capacity 3 gallons: Churning capacity 1½ gallons. Size of tank 7¼x7¾x11¼ inches. Spread of base 10 inches. Diameter of flywheel

10 inches. Height over all 25 inches.

AB 300DZ-Weight each crated 22 lbs......Each \$5.45

### FLAT FACE FLYWHEEL

Nickel-plated brass faucet at the bottom of tank.

Capacity 4 gallons: Churning capacity 2 gallons. Size of tank 8½x8½x13 inches. Spread of base 11 inches. Diameter of flywheel 10 inches. Height over all 27 inches.

AB 400DZ—Weight each, crated 25 lbs..........Each \$6.45

Capacity 6 gallons: Churning capacity 3 gallons. Size of tank 9½x9½x15 inches. Spread of base 12 inches. Diameter of flywheel 11½ inches. Height over all 31 inches.

AB 600DZ—Weight each, crated 35 lbs.........Each \$7.95



# TANK XX TRIPLE-PLATED

With flat face flywheel.

The cast iron flywheel has a comfortable, varnished wood handle. Made with two heavy steel stay rods on each side, and nickel-plated brass faucet at bottom of tank.

Capacity 10 gallons: Churning capacity 5 gallons. Size of tank 11½x11½x18 inches. Spread of base 15 inches. Diameter of flywheel 14 inches. Height over all 39 inches.

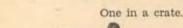
AB 1000DZ—Weight each, crated 58 lbs....Each \$12.75

One in a crate.

# EXTRAS FOR DAZEY CHURNS Round Belting 5/16 inch

AB 516B—Weight per foot % 1b......Per Foot \$0.39

Packing-bulk.





# THE DAZEY ELECTRIC

- · Churns smoothly and evenly-makes perfect butter.
- · Operates easily, saves time and labor.
- Built to the high specifications of all Dazey products.

Complete with guaranteed high-grade electric motor, conveniently and accessibly attached to bottom of base. Heavily insulated attachment cord 10 feet long, with attachment plug. Round leather belt.

Two heavy steel stay rods on each side. Nickel-plated brass faucet at bottom of tank. Steel

Motor is standard equipment. Alternating current 110 and 220 volts, 60 cycle, single phase. Special motors can be supplied at an extra charge.

Note: When ordering electric churns with motors for alternating current, be sure to specify voltage, cycles and phase.



Nos.	Each
<b>‡AB 450M</b>	\$40.75
<b>‡AB</b> 650M	45.75
<b>‡AB</b> 1050M	49.75

	Churning Capacity, Gallons	Size of Tank, Inches	Height Over All, Inches	Spread of Base, Inches	Motor, Horse Power	Each, Crated, Lbs.
4	2	8%x8%x13	31	131/2	1/8	70
6	3	91/2×91/2×143/4	34	141/2	1/6	80
10	5	11%x11%x18	36	161/4	1/4	100
	Or	e in a crate				

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# SIMMONS CHURNS



screw cap. Improved two-blade quick action dasher.

Substantial, clear crystal smooth glass jar, with rounded

Capacity 1 gallon. Churning capacity 4 pints. Size of jar 5%x9½ inches. Height over all 13% inches.

AB S169A—Weight per dozen 66 lbs..... Each \$1.95

One in a carton. One-half dozen in a case.

# EXTRA GLASS JARS FOR No. AB S169A CHURNS

AB S169-One gallon. Weight per dozen

50 lbs. \_\_\_\_\_Each \$0.79

One dozen in a carton.

A NEW

Keen Kooker

# CAST IRON RANGE

Will Give You Better. **Faster Cooking** 

## CHURNS

### DAZEY-FAMILY MODEL Churns, Whips and Mixes!



easily. Smooth running gears-churns smoothly, quietly and with little effort.

Long life cover—screw cap of thick copper-bearing dairy metal, heavily tinned, is sanitary, easy to clean and adds years of service.

Quality dasher-made of highest quality, thoroughly seasoned, hard white Northern maple. Reduces absorption, more sanitary, and is scientifically adjusted for efficient butter production.

# Approved by Good Housekeeping Institute.

Nos.	Each		Cap.,	Over All,	Cap., Qts.	Per Doz.,
AB 20G	\$1.59		2	12%	1	60
AB 40G	2.39	19/	4	14%	2	82
AB 60G	2.95		6	15	3	95
AB 80G	3.69		8	16	4	120
On - 42	day Same	0 00		The same of the sa		

One-third dozen in a double corrugated case.

# EXTRA GLASS JARS FOR DAZEY CHURNS

Nos.	Each	Size of Jar, Inches	Weight Per Doz. Lbs.
AB 20GJ	\$0.60	4%x 8	40
AB 40GJ	.95	6 x 9	58
AB 60GJ	1.20	634 x10 1/4	70
AB 80GJ	1.45	7% x10%	85

One-half dozen in a double corrugated case. Directions for Operating With Each Churn.

### THE PRICE CHURN

(Made by Dazey Mfg. Co.)

A popular priced churn designed to do satisfactory churning.

Well constructed with all the essen-Well constructed with all the essential parts, comparable to many higher priced churns. Clear glass jar. Aluminized finish, cast iron gear frame with hand grip riveted to the tinned steel stamped threaded screw cap top. Cast gears. Cast iron crank with comfortable natural finish hardwood handle. Hardwood four-paddle turbine dasher smoothly. four-paddle turbine dasher, smoothly grooved and nailed, on steel dasher

Capacity 4 quarts. Churning capacity 2 quarts. Size of jar 6x9 inches.

AB 40DP-Weight per dozen 73 lbs..... Each \$1.39

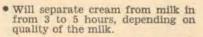
One in a carton.

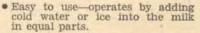
### EXTRA GLASS JARS FOR PRICE CHURNS

AB 40DPJ-4-Quart. Weight per dozen 50 lbs. \_\_\_\_\_Each \$0.59

One-half dozen in a case.

# CREAM SEPARATORS





The reversible combined cover and strainer permits free ventilation and may be used to strain milk into the

### NEW MODEL

Sanitary, easy to clean finish. The body is blue enameled, the cover has an aluminum finish.

New process non-pin-holding 3A bright charcoal tin plate, seamed and soldered, with deep concave bottom; nickel plated faucet, soldered tin side handles and removable glass gauges.

Nos.	Each	Cap., Qts.	Diam., Ins.	Height, Ins.	Wt. Each, Lbs.
AB 10	\$4.95	40	141/4	141/2	10
AB 14	5.45	56	141/4	191/2	12



### MARVEL

The deep cone bottom permits drawing off all milk before cream reaches faucet.

Nos.	Each	Cap., Qts.	Diam. Can, In.	Ht. Can, In.	Height Over All, In.	Wt. Each, Lbs.
AY1	\$3.98	40	121/2	26	27	14
AY 2	4.69	56	151/2	25	26%	16
AB 3	6.39	72	171/2	241/2	261/2	19
AB 4	6.95	84	171/2	251/2	261/2	191/2
AB 5	7.75	96	17%	281/2	29	20

One in a carton.

### DASH CHURN DASHERS



For old-fashioned wood churns. Sturdily made with cross on long handle.

AB 0SD-Weight per dozen 14 lbs......Each \$0.25

Packing-bulk.

# MILK COOLER AND AERATOR

SUPERIOR



With filter strainer. Removes the animal heat and all odors arising from the absorption by the milk of stable or other unpleasant gases; reduces the temperature of the milk to almost the temperature of the water.

Cooler and strainer are quickly and easily cleaned.

The cooling drum, with an in-let and overflow pipe for wa-ter, with outlet tube at one side is provided with an agitator to keep drum cool. The inside is coated with anti-rust paint. Milk receiver or pan sets tightly on the cooling drum. It has perforations at regular intervals to allow the milk to flow in fine streams down over the drum, the combined streams forming a thin sheet of milk.

Made with a heavily coated charcoal tin, with heavy galvanized sheet steel bottom; securely soldered seams; heavily wired trough and upper rim. Complete with heavy charcoal tin filter strainer that has two perforated screw caps each with 227—36-inch perforations. The inner cap is concaved to break force of milk before it strikes disc. Requires a 6-inch cotton filtering disc which is held between the screw caps.

Nos.	AB 18	AB 34
Capacity of Milk Receiver, Qts.	18	34
Size of Dairy, Cows	1 to 25	25 to 50
Takes Care of Milkers	3	5
Height Over All, Inches	26	301/4
Diameter at Bottom, Inches	25	29
Weight Each, Lbs.	23	33
Each	\$6.95	9.45

One in a crate.

### MILK STIRRERS

SOLAR-STURGES



Extra strong and durable, heavily tinned after being made. San-

Rod flanged out at bottom and welded to disc so it cannot break away, loosen or twist. Handle loop large and roomy. Length rod 25 inches. Bowl 5¼ inches in diameter, perforated with 14 holes ½ inch in diameter.

AB 25—Weight per dozen 10½ lbs...... Each \$0.59

Packing-bulk.

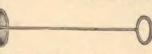
### MILK DIPPERS

Extra heavy block tin. All seams securely soldered.

- 1	Length of h	andle 18 inche	8.	
	Nos.	Each	Capacity	Weight Each, Lbs.
(ter:	AB 1P AB 1Q	\$1.25 1.35	1 Pint 1 Quart	1½ 2½

Packing-bulk.

### MILEK TESTERS



SOLAR-STURGES

Extra strong and durable, heavily tinned after being made. Sanitary. easy to clean.

Rod flanged out at bottom and welded to disc so it cannot break away, loosen or twist. Handle loop large and roomy. Length rod 25 inches. Solid bowl with lip 54 roomy. Length rocinches in diameter.

AB 30—Weight per dozen 12 lbs.....Each \$0.59

Packing-bulk.

# DAIRY PAILS

Nos. AB SD12

AB SD14

SIMMONS

Very high quality—smoothly soldered inside on the ears, and smoothly finished. High grade, full weight charcoal tin, Morris finish, double seamed and soldered. Heavily wired top rim and bottom roll for added strength, Extra deep foot. Extra heavy wide steel ears, heavily riveted. Tinned wire bail.

XX	XX TIN						
	Actual	Dia.	Wt. Per				
	Cap.,	Top,	Depth,	Doz.,			
lach	Qts.	Ins.	Ins.	Lbs.			
0.89	13	11 1/8	10%	52			
95	15	1236	10%	55			

#### IXX TIN

E

Heavy tinned wire bail.

		Actual	Actual Dia.		Wt.Per		
		Cap.,	Top,	Depth,	Doz.,		
No.	Each	Qts.	Ins.	Ins.	Lbs.		
AB SF212	\$0.59	13	11%	101/8	341/4		

One-half dozen in a carton.

### SANITARY SOLDERED IX TIN—BRIGHT Sanitary and easy to clean.

Has no cracks or crevices—smoothly

soldered inside and outside.

Bright tin plate, seamed and soldered. Heavy wired top rim. Turned bottom edge. Deep foot. Tinned steel ears. Tinned wire bail.

			Dia.	Wt. Per		
Nos.	Each	Cap., Qts.	Top, Ins.	Depth, Ins.	Doz., Lbs.	
AB 201SS	\$0.69	12	11%	91/2	271/2	
AB 202SS	.75	14	121/2	934	30	

One dozen in a fibre carton.



### IX TIN

Bright tin plate, double seamed and soldered. Wired top rim. Reinforced bottom rim. Deep foot. Steel ears, riveted. Tinned wire bail. Diameter at top 1113 inches, depth 911 inches.

### Capacity 13 Quarts

AB SF112—Weight per dozen
31 lbs. ......Each \$0.45

One-half dozen in a carton.



### DAIRY SPECIAL IX TIN-BRIGHT

Bright tin plate, seamed and soldered. Heavy wired top rim. Concaved bottom, turned bottom edge. Deep foot, Heavy tinned steel ears, riveted. Heavy tinned steel wire bail.

			Dia.	Wt.Per		
Nos.	Each	Cap., Qts.	Top, Ins.	Depth, Ins.	Doz., Lbs.	
AY 180	\$0.29	8	9%	81/2	181/2	
AY 200	.30	10	1116	8%	27	
AY 201	.33	12	1111	911	291/4	
AY 202	.44	14	121/2	934	32	

One dozen in a fibre carton.

### HOODED



Sanitary and easy to clean.

Has no cracks or crevices—smoothly sol-

dered inside and outside.

Extra fine, high-grade charcoal tin, double seamed and soldered. Wired top rim (¼-inch wire). Reinforced extra strong bottom. Heavy tinned steel ears, riveted and soldered. Plain tinned wire ball.

Full capacity 14 quarts. Height 11% inches, diameter at top 12 inches, hood opening 5%x9 inches, diameter of bail  $\frac{3}{10}$  inch.

AB IX14H—Weight per dozen 51 lbs......Each \$1.35

One in a carton.



# SWISS-EXTRA LONG PATTERN

Charcoal tin body, double seamed and soldered. Heavy wired top rim for added strength. Turned raised bottom. Tinned ears, riveted. Extra heavy tinned steel wire ball.

Diameter bottom 8% inches.

Wt. Per Diam-Quality Cap., Ht., Tin Qts. Ins. Top, Doz., Ins. Lbs. Each Nos. 14 12¼ 16 13 46 1/2 111/2 \$0.59 IX AB 14SP AB 16SP 1.10 IXX 12 54

One-half dozen in a crate.



STANDARD

IX tin, seamed and soldered. Wired top rim. Concaved bottom, turned bottom edge. Deep foot. Tinned steel ears, riveted. Seven-gauge tinned steel wire bail.

Capacity 12 quarts. Diameter at top 1174 inches, depth 914 inches.

AY 101—Weight per dozen

1 lbs. \_\_\_\_\_Each \$0.29

One dozen in a carton.



### NARROW MOUTH OR HOODED PATTERN

Seamless

Sanitary smooth finish inside—easy to keep clean.

An extra heavy, durable seamless pail with seamless hood that conforms to the regulations of health departments requiring a pail with narrow mouth having an opening not larger than one-third.

Seamless pail and seamless hood, each made of one piece of high quality, heavy milk can steel, welded together into one seamless unit, heavily tinned and retinned. Heavy wear slugs soldered to bottom.

Rim around opening heavily wired and carefully soldered. Top rounded and so designed that inside is plainly visible. Entire interior absolutely smooth, making it sanitary and easy to clean.

Pail has no bottom hoop—can be tilted only by using back handle.

Heavy, plain, extending sanitary ears, soldered to body. Large strong back handle placed high enough to prevent hand coming in contact with unsanitary floor or bedding. Extra heavy steel wire bail.

Actual capacity 14 quarts. Diameter at top 11¼ inches, at bottom 9 inches. Distance—bottom to rim 10 inches; bottom to top 12¼ inches.

AB HS14—Weight per dozen 82 lbs...... Each \$3.89

One in a carton.

# STRAINER PAILS

# IX TIN



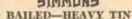
Square lipped soldered tin hood. Brass wire strainer on breast strains milk as it is being poured from pail.

Bright tin plate, double seamed and soldered. Wired top rim and reinforced bottom rim. Deep foot. Steel ears, riv-eted. Tinned wire ball. Folded tin handle near bottom soldered and riveted on.

Diam

			Diami			
Nos.	Each	Cap., Quarts,	Top, In.	Depth, In.	Doz., Lbs.	
AY 110	\$0.98	10	11%	8 1/8	37	
AY 112	1.10	12	111	914	44	
	One-quarter o	lozen in a	carton.			

# MILK KETTLES SIMMONS





Nos.	AB S304	AB S308	AB S312
Quality of Tin	IXX	IXXX	IXXXX
Capacity, Quarts	4	8	12
Diameter at Bottom, Ins.	7	81/2	9 34
Diameter at Top, Ins.	3 1/8	6	61/2
Depth, Ins.	8 5%	10%	121/4
Gauge Steel Wire Bail	7	6	5
Weight Per Doz., Lbs.	27	42	60
Each	\$1.19	1.59	1.98

# Each

### BAILED

IC tin. plain, seamed and soldered, with heavy 10 gauge steel wire ball, riveted tin ears. Rimmed tin cover with a flat tin handle, soldered on.

Capacity 4 quarts. Size 9x6 1/2 x3 1/4 inches.

AB 4—Weight per dozen

12 lbs. ..... Each \$0.49



### BAILED

IX tin, seamed and soldered body, with heavy 10 gauge steel wire bail, riveted ears. Rimmed tin cover with soldered tin handle. Riveted ears.

		Cap.,	Diam.,		Dozen,
Nos.	Each	Qts.	In.	In.	Lbs.
AB 14	\$0.69	4	6 %	8 %	141/2
AB 16	.98	6	7	10%	16
AB 18	1.19	8	734	121/2	20

Packing-bulk.



# WELL MILK BUCKETS

Keeps butter and milk cool at the same time, saves space,

IX tin, seamed and soldered, with inset for butter. Strong 12 gauge coppered wire loop bail, round, soldered ears. The slip top 6½ inches in diameter with folded edge tin handle soldered on. Donth Donth Wt

Ves	Each		-	of Cooler,	of Inset, In.	Per Dozen,
Nos.	Eacu	Qts.	In.	In.	III.	Lbs.
AB 54	\$0.59	4	6	9	3	12
AB 56	.65	6	6	13	3	191/2
AB 58	.75	8	6	17%	3	25
		Packi	ng-bull	Σ.		

# CREAM PAILS

# SIMMONS



Keeps cream clean and sanitary, ready for shipping or using.

IXX high grade charcoal tin, double seamed and soldered. Wired top rim. Raised bottom. Steel ears, riveted. Six-gauge coppered steel wire bail, with cherry-stained wood grip.

Extra deep inside cover with 2¼-inch deep rim, fitted with riveted wire handle.

Wt.

Wt.

Nos.	Each	Cap., Qts.	Diam., In.	Depth, In.	Doz., Lbs.
AB S14	\$0.98	14	81/8	131/4	44
AB S20	1.19	20	81/8	191/4	52
	One-third	dozen in	a crata		



IX tin, double seamed and soldered. Wired top rim and rolled bottom. Tinned steel ears, riveted. Ten-gauge coppered steel wire bail, with black enameled wood grip.

Tin cover, with flange 11/8 inches deep, fits inside of can. Riveted wire handle.

					Dozen	Wt.
Nos.	Each	Cap., Qts.	Diam., In.	Depth, In.		Doz., Lbs.
AB 110	\$0.65	10	81/8	91/4	1/6	40
AB 114	.75	14	87/8	131/4	1/3	36
AB 120	.79	20	8 1/8	18%	1/3	39

# MILK COOLERS OR SETTER PAILS



IX tin, double seamed and soldered. Wired top rim. Raised bottom. Tinned steel ears, riveted. Nine-gauge coppered steel wire bail, with black enameled wood grip. Deep stamped tin cover.

Nos.	Each	Capacity, Quarts	Size, Inches	Per Doz., Lbs.
AB 10	\$0.50	10	81/4×10	35
AB 12	.55	12	81/4×111/4	40
AB 14	.59	14	8%x131/4	45
AB 20	.69	40	81/2×20	55
	Omn 1-18 4			

One-half dozen in a crate.



Complies with requirements of health authorities. Sanitary and easy to clean—the inside seams, bottom and rivets are smoothly covered with solder.

Full weight IX coke tin, double seamed and soldered. Heavy ears, riveted. Heavy wire ball with wood grip.

One-piece tight-fitting sunken cover with rolled rim and flat riveted handle.

Nos.	Each	Actual Capacity, Quarts	Size, Inches	Wt. Per Doz., Lbs.
AB TK6	\$0.59	6	9x 7%	36
AB TK8	.65	8	9x 9%	40
AB TK12	.79	12	9x131/4	48
AB TK18	.98	18	9x191/2	56

One-quarter dozen in a carton.

# MILK CANS



In dairy sections these items are exceptionally competitive, necessitating that each dealer so situated study his local competition.



# JERSEY PATTERN-CURLED BOTTOMS

For shipping and general use. Estested. Withstands rough handling. Each can individually

Double tinned throughout. Made of high-grade steel stock with breast, neck and receiver drawn from one piece of steel and securely welded to body. Deep flanged bottom joined to body makes a blow-resisting edge. Large pressed steel handles and heavy breast hoop are welded

# STANDARD WEIGHT With 6-Inch Necks

Plug Sanitary Covers

	0.000				Weight
		Cap.,	Diam.,	Height,	Each,
Nos.	Each	Qts.	In.	In.	Lbs.
AY 5JP	\$4.15	20	13	20	13
AY 8JP	5,00	32	13	201/2	17
AY 10JP	5.20	40	13	241/2	181/2
	Ur	nbrella C	overs		
AY 5JPU	\$4.35	20	13	20	14
AY SJPU	5.25	32	13	201/2	18
AY 10JPU	5.45	40	13	241/2	191/2
	With	714-Incl	n Necks		
	Plug	Sanitary	Covers		
AY SJPW	\$5.10	32	13	201/2	171/2
AY 10JPW	5.25	40	13	241/2	19
	Ur	nbrella (	overs		
AY 8JPWU	\$5.30	32	13	201/2	181/2
AY 10JPWU	5.60	40	13	241/2	20

# HEAVY

Unsurpassed for Shipping and General Use.

With 6-Inch Necks Plug Sanitary Covers

					Weight	
Nos.	Each	Cap., Qts.	Diam., In.	Height, In.	Each, Lbs.	
AY 808 AY 810	\$5.45 5.70	32 40	12½ 13	21 24½	$\frac{21\frac{1}{2}}{24}$	
	U	nbrella (	Covers			
AY 808U AY 810U	\$5.75 5.85	32 40	12½ 13	21 24½	22½ 25	
	With	7%-Inc	h Necks			
	U	mbrella (	Covers			
AY 808WU AY 810WU	\$5.80 5.90	32 40	12½ 13	21 24½	23½ 26½	
	F	acking-	bulk.			

See Our Complete Line of HARNESS and HARNESS PARTS

### MILK CANS

Sturdy, Rugged Cans for Dairy or Farm



In dairy sections these items are exceptionally competitive necessitating that each dealer so situated study his local competition.



### OHIO, IOWA OR GEM PATTERN OUTSIDE BOTTOM HOOP

Sanitary, easy to keep clean—all parts are double tinned making smooth, sanitary surface, without crevices or open joints in which milk can sour. Individually tested.

Heavy milk can stock, with seamless breast, neck and receiver. Body seam and breast union welded, eliminating all seams and rough places. Iron breast hoop and large pressed steel handles are welded on. The heavy bottom hoop is securely riveted on for added durability. With 6-inch necks.

# Plug Sanitary Covers

Nos.	Each	Cap., Qts.	Diam.,	Hgt., Inches	Each, Lbs.
AY 1105	\$4.19	20	101/2	20	131/2
AY 1108	5.15	32	121/6	.21	171/2
AY 1110	5.35	40	13	241/2	19
	Umb	rella Cove	rs		
AY 1105U	\$4.49	20	10%	20	141/6
AY 1108U	5.35	32	121/2	21	1816
AY 1110U	5.60	40	13	241/2	20



### NEW YORK PATTERN

Sanitary-perfectly smooth interior. without crevices.

Extra heavy wrought steel. Seamless neck and breast drawn from one piece of metal and securely welded to body. Bottom reinforced by heavy steel hoop, securely riveted for added durability. Umbrella cover fits snugly. Malleable drop handles are comfortable to grip. All parts are double tinned.

Capacity 40 quarts. Diameter 13 inches, height 24½ inches.

#AY 540—Weight 26 lbs...... Each \$5.85



### RAILROAD SEAMLESS—SOLDERLESS

Sanitary and easy to keep clean. Highest grade milk can steel, heavily coated with pure straits block tin. Seamless and solderless construction. Sealrite combination seamless cover has insulating qualities against heat or cold and will float. Pressed steel handles welded to body. Bottom reinforced by heavy steel hoop.

### SEALRITE COVER

Nos.	Each	Cap., Qts.	Diam.,		Wt. Each, Lbs.
AY 908	\$6.95	32	121/2	21	271/2
AY 910	7.15	40	13	241/2	291/2
	Packin	e-bulk			

### MILK STRAINERS

# SIMMONS SPECIAL



SANITARY Strains milk perfectly and quickly.

Easy to clean, sanitary and easy to use—no seams or open joints to col-lect bacteria. Inner plate baffles the milk before it strikes the filter-

These strainers with straight sides are made of heavy retinned seamless copper-bearing tin plate with turned edge. Two parts—the strainer itself with perforated bottom and removable perforated inner plate.

Extra heavy perforated steel baffle plate, with metal knob. Heavy tinned wire spring. For 6 and 6½ inch discs. Capacity 12 quarts. Diameter 12% inches, height

AB S12—Weight per dozen 30 lbs......Each \$1.19

One-half dozen in a carton.



Perfectly sanitary—the perforated concave inner plate baffles the milk before it strikes the filter disc and is held in place by heavy tinned wire spring.

New process—non-pinholing. Heavy charcoal tin, double seamed and soldered inside and outside. Wired soldered inside and outside. When top rim. Comfortable heavy 10-gauge bright wire loop handle. Perforated bottom. Complete with 6-inch filter disc. Capacity 14 quarts. Diameter at top 12% inches at bottom 6 inches Height inches, at bottom 6 inches. Height over all 9% inches.

AB 114—Weight per dozen 31 lbs......Each \$1.10

One-quarter dozen in a carton.

### THE SANITARY

The removable disc makes thorough cleansing easy; all parts accessible.
Full weight IX tin, double seamed, with seamless bottom rim seamed to the body. Wire top rim. Brass strainer disc 3% inches in diameter with reinforced tin edge. Removable foot. Diameter at top 10 inches, depth 4% inches.

AB 6-Weight per dozen 9 lbs......Each \$0.50

One dozen in a fibre carton.

DISCS FOR No. AB 6 MILK STRAINERS

Brass strainers 3% inches in diameter, with reinforced

AB XD-Weight per dozen 1 lb.....Each \$0.10

One dozen in a carton.



IX TIN—DOUBLE SEAMED. Strongly made, double seamed and clinched. With 50-mesh brass wire strainer and wire ring

Diam W/

Diam

Nos.	Each	Diam. at Top, In.	at Bot- tom, In.	Hgt.,	Strainer Open-	Doz.
AB 09 AB 010	\$0.23	91/2	3% 5¼	5 614	21/2	9



IC TIN—PLAIN. Seamed and soldered, with 40-mesh brass wire strainer cloth 2¼ inches in diameter. Wire ring handle.

Nos.	Each	Size, Inches	Bottom, Inches	Doz., Lbs.
AB1	\$0.15	81/4×4	4	5
AB 11/2	.19	10x4	6	7
	Doolsin	or builte		

Packing—bulk.

### MILK STRAINERS

Sanitary strainers that strain milk easily and quickly eliminating any foreign matter that may be present.



IX TIN—RETINNED. Seamless bow with flanged top rim. Wire ring handle. Diameter at top 10¼ inches, at bottom 4¾ inches. Depth 4% inches Diameter of strainer cloth 4½ inches AY 0-Weight per dozen 12

Each \$0.49 One-quarter dozen in a package.



IX TIN. Seamless bowl with turned top rim. Seamless bowl with turned top rim. Deep skirt, with smooth rolled edge double seamed and soldered to the bowl Wire ring handle. 40-mesh brass wire strainer cloth 4;7 inches in diameter Complete with turned edge tin hoop for fastening cloth. Size 10½x6% inches.

AB 11-Weight per dozen 16

lbs. \_\_\_\_\_Each \$0.39

Packing-bulk.



# PLAIN DAIRY PANS

Seamless IC tin, with flanged edge.

Nos.	Each	Capacity, Quarts	Size, Inches	Doz.,
AB 2	\$0.07	2	8/kx13/4	3%
AB 4	.09	4	10%x21/8	6
AB 6	.10	6	12%x21/4	7
AB8	.12	8	13%x2%	8
	One dozer	n in a pac	kage.	

# FILTERING DISCS

Packing-bulk.



# JOHNSON & JOHNSON RAPID-FLO

Filters quickly and accurately—the quality of material and fine workmanship makes it possible to remove dust, dirt and other sediment. other sediment.

 Gives longer service—will filter more milk per disc before clogging than other cotton discs under equal conditions.

For extra heavy and large strainers for straining small or large quantities of milk. Months of laboratory and field research brings you these perfected discs.

Made of the finest grade long staple red cross cotton under the most hygienic conditions. They are non-chan-neling, absolutely uniform and guaranteed not to dis-

	Plain Finish	
Nos.	Per 100	Diameter, Inches
AB R6	\$0.29	6
AB R61/2	.37	61/2
	Single Faced	
With one side gr	auze faced.	

Nos.

Diameter, Per 100 Inches AB R6F \$0.49 6 AB R61/2DF .59 61/2 Double Faced

With both sides gauze faced,

The advantage of double-faced discs over single is—they hold together better and can be used longer.

	1000	Diameter
Nos.	Per 100	Inches
AB R6DF	\$0.65	6
AB R6½DF	.75	61/4

One hundred discs in a carton; weight per carton 1/2 lb. Three cartons (300 discs) banded together in one unit; 12 units of 36 cartons (3,600 discs) in a case; weight per case 241/2 lbs.

# FILTERING DISCS

For use with extra heavy and large strainers. Far more efficient than cloths or fine mesh wire strainers.

Filters out all dust, dirt, sediment and other foreign matter and some of the bac-teria. Absolute non-channeling—will strain approximately 140 quarts of milk before slowing down.

Made of long staple cotton under most sanitary conditions and are inspected for uniformity,

weight and appearance.

	Plain Finish	Diameter,
Nos.	Per 100	Inches
AY 6	\$0.19	6
AY 61/2	.25	61/2
	AND DESCRIPTION OF THE PARTY OF	

Single Faced

With one side gauze faced

Nos.	Per 100	Inches
AB 6F	\$0.39	6
AB 61/2F	.49	61/2
	West of the contract of the second	

One hundred discs in a carton; weight per carton 1/2 lb.

Three cartons (300 discs) in a unit carton; Nos. AY 6 and AB 6F—12-unit cartons (3,600) discs in a case; weight per case 23 lbs. Nos. AY 6½ and AB 6½F—6-unit cartons (1,800) discs in a case, weight per case 15 lbs.

# MILK BOTTLES



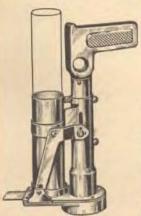
### STANDARD CAPACITY

y, high-grade, clear glass—easy to Use standard milk bottle caps.

### SOLD ONLY IN FULL CRATES

Nos.	Per Doz.	Capacity	Wt. Per Crate, Lbs.
AYQ	\$0.89	Quart	133
AYP	.65	Pint	84
AB HP	.49	Half Pint	105
Packing:	Half pint-or	ne gross in	a crate.
Othe	ers-one-half g	ross in a cr	ate.

### MILK BOTTLE CAPPERS



### DAIRY MAID NON-AUTOMATIC

- Caps bottles as rapidly and efficiently as an automatic machine—the mechanism is simple, has no springs—fully guaranteed by the manufacturers.
- Seals perfectly—all milk bottles requiring No. 2 standard caps.

Easy to operate—after insert ing tube of No. 2 standard caps in cylinder it is only necessary to lift the handle, place cap opening over milk bottle and push handle down.

Made of the highest quality materials, highly polished chromium plated throughout and attractively finished.

Has an aluminum revolver grip handle with finger-slot for the forefinger to aid weight-balance and give perfect control over capper. Light in weight and does not tire the wrist

#AY DM-Weight each 4 lbs..... Each \$9.45

One in a carton.

## MILK BOTTLE CAPS

• Will fit any standard milk bottle. Made of finest ground wood pulp, which insures their sanitary and hygienic character.

· Will not leak.

· Easily removed. THE BOY Designed with a tongue - shaped cut half - way through stock which can be raised easily by FRESK AND PRAM the fingernail The wire staple at the base of tongue prevents W PRO Nos. AB EZ1,

out

AY EZ5



No. AY EZIA

Imprinted "Grade 'A' Raw Milk," etc.

PRINTED IN RED

tongue pulling

AB EZ1-In cartons of 1,000..... ...Per 1,000 \$0.75

AY EZ5-In cartons of 5,000......Per 1,000 .69

PRINTED IN BLUE AND RED

.69 AY EZ1A-In cartons of 1,000......Per 1000



IN TUBES OF 500

For use on sealing machines. Put up in cardboard tubes 19% inches long, 11 inches in diameter.

Imprinted "Pure Fresh Milk," etc.

AY EZ500—Printed in red......Per 1,000 \$0.69

Imprinted "Grade 'A' Raw Milk," etc.

AY EZ500A—Printed in blue and red.....Per 1,000 MISPRINTS

These bottle caps have no definite imprint, but bear the names of dairies in various cities. All are in perfect condition.

Per 1,000 \$0.29 AB MPC



Plain stock caps, 35-point, paraffined.

SH AND RE GRADE RAW MILK

.59

Nos. AY SW, AB SW1, AY SW5 and AB SW500

Nos. AB SW1A W500 and AB SW500A Imprinted "Pure Fresh Milk," etc.

PRINTED IN RED AY SW-In cartons of 25,000 Per 1,000 \$0.55

AB SW1-In cartons of 1,000......Per 1,000 .65

AY SW5-In cartons of 5,000 ......Per 1,000

Imprinted "Grade 'A' Raw Milk." etc.

PRINTED IN BLUE AND RED

AB SW1A-In cartons of 1,000.....Per 1,000 \$0.65



IN TUBES OF 500

For use on sealing machines. Put up in cardboard tubes 19% inches long, 111 inches in diameter.

Imprinted "Pure Fresh Milk," etc.

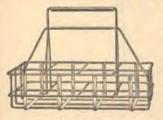
AB SW500—Printed in red..... ...Per 1,000 \$0.65

Imprinted "Grade 'A' Raw Milk." etc. AB SW500A—Printed in blue and red.....Per 1,000

Weight per 1,000 214 lbs.

# Goods marked thus (#) are not carried in stock and can only be furnished by Shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

### MILK BOTTLE CARRIERS



### ROUND WIRE TYPE

Holds eight individual quarts—saves steps and time. Perfect for delivering milk.

Sturdy frame of basic steel wire, electrically welded, with flat steel bottom cross bars the width of carrier making two round and one flat wire crossing under each bottle. Long smooth Long smooth

half-round steel handle, comfortable to carry Depth 4% inches. Size 17x9 inches. Height over all 121/2

inches.

### Eight One Quart Sections

AB 8QW-Weight per dozen 45 lbs...... Each \$1.29

Packing-bulk.

### BOTTLE CASES



# UP-TO-DATE GALVANIZED

- · For dairy and delivery use.
- · Will not topple over in your wagon

Extra heavy gauge galvanized iron, braced with cross iron bands with galvanized iron partition, and half oval band to protect the bottoms from wearing. Size 19x141/2x11 inches.

AB 201P-20 one-pine sections Each \$5.75

AB 121Q-12 one-quart sections......Each 5.45

Packing-bulk. Weight each 15 lbs.

# DAIRY AND MILK SCALES



# UNIVERSAL

For accurate weighing of milk. Equipped with loose pointer which can be regulated on dial by thumb nut at center to take the tare (weight of pail), so it need not be deducted from the reading.

reading.

Black enameled heavy steel onepiece case with white lithographed steel dial 7 inches in
diameter, with figures and graduations in black and red. The
red figures are for the second
revolution of fixed black pointer.
Red pointer is adjustable by
knurled edge brass screw.
Heavily tinned ring and hook.
Accuracy is adjustable by a
screw on the bottom of slide.

Two full revolutions of pointers cover full capacity of

Weight each 2 lbs. One in a carton.

Merchants are cautioned in buying spring balance scales, to acquaint themselves with their own state laws regarding the various degrees and kinds of inspection made by local officials,

Spring scales are intended for family use only. In some states they are not legal for use of trade.

### MILK CAN BRUSHES



GONG TYPE · Scrubs Scrubs perfectly-cleans milk shipping cans, milk containers, sinks and other hard

surfaces. A strong, tough brush Genuine palmetto fibre stock 2 inches long wired in a solid hardwood block with

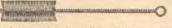
shaped handle, hole for hanging. Size of block 3x31/4 Length over all 10 inches.

AB 50—Weight per dozen 5 lbs. Each \$0.35

One dozen in a wood box.

# CREAM SEPARATOR BRUSHES

Very efficient for cleaning spouts and tubes of mechanical cream separators.



### WITH STRAIGHT BRUSH

Black china bristles on twisted wire handle with ring. Length of brush 4 inches, diameter 1 inch. Length over all 1114 inches.

AB 813—Weight per dozen % lb......Each \$0.10



### WITH TAPERED BRUSH

on twisted wire handle with ring. Length of brush 5 inches, diameter 1¼ inches tapering to ¾ inch. Length over all 12 inches.

Packing-bulk.

# MILK BOTTLE BRUSHES

Washes milk bottles thoroughly clean-keeps them sanitary.



# BELL SHAPE

Stiff, gray horse-hair bristles. Brush section 61/2

inches long, tapering from 2% to 2% inches in diameter. Comfortable natural finish hardwood tapered handle. Length over all 151/2 inches.

AB 25T—Weight per dozen 2½ lbs.....Each \$0.59

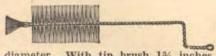
One dozen in a bundle.



BOWL OR MILK BOTTLE BRUSHES Square End-Wired

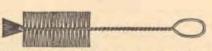
Stiff, gray horsehair bristles. Brush section 2%x51/2 inch-Heavy, full set end. Plain finish hardwood handle. Length over all 15 inches.

AB 67—Weight per dozen 31/2 lbs......Each \$0.59



All black bristles, Brush sec-tion 4 inches and 21% hes in long inches in ng. Heavy 13-

With tip brush 1% inches long. gauge twisted galvanized wire shank with offset. Length over all 15 inches.



All black bristles. Brush section 31/2 inches long and 1% inches in ng. Strong 16-

With tip brush 1¼ inches long. Strong 16-ted wire handle. Length over all 11 inches. gauge twisted wire handle.

AB 21—Weight per dozen ½ lb. Each \$0.10

One dozen in a carton.

# MILK TEST BOTTLES



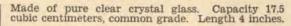
For testing milk.

Made of pure clear crystal glass. Length 7

AB MT-Weight per gross 14 lbs...Each \$0.45

Packing-bulk.

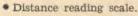
### ACID MEASURES



AB M-Weight per dozen 21/4 lbs......Each \$0.29

Packing-bulk.

# DAIRY THERMOMETERS



- · Guaranteed for accuracy.
- Shot-weighted to float upright.

All clear glass with figures and lines marked in red and black. Scale ranges from 10° to 220° above zero. Length 10¼ inches. Diameter 15 inch.

### Mercury

AB 15-Weight per dozen 11/4 lbs...... Each \$0.39

All clear glass with figures and lines marked in black. The magnifying lens tube is filled with non-fading, non-separating red fluid.

Scale ranges from zero to 220° above zero. Length 81/4 inches, diameter 2 inch.

### Spirit

AB 25-Weight per dozen 11/4 lbs... Each \$0.25

One in a carton.

### CREAM SEPARATOR OIL

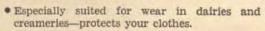
### THREE BROTHERS

Guaranteed to give satisfaction. Specially refined for use in cream separators. In sealed metal cans. Money-back guarantee is lithographed on each can. Capacity one quart.

AB HSO-Weight per dozen cans 25 lbs..... Each \$0.25

Two dozen cans in a case.

### RUBBER APRONS



Well made of good quality black rubber with extra wide, full body, heavy canvas shoulder straps and buttons. Neatly hemmed edges. Medium weight.

AB H-Weight each 3 lbs.....Each \$3.45

Packing-bulk.

# BUTTER MOULDS

inches.



B. & H.—OBLONG SHAPE Finest quality ash wood, natural fin-ish. Securely nailed. Two adjust-ing screws to regulate the weight of the butter. Size mould 4%x2½x2%

ABBH-Weight per dozen 35 lbs. ..... Each \$1.95

One dozen in a crate.

### BRICK SHAPE

Natural finish maplewood, with dovetailed corners.

		Cap.,	Length,	Width.	Height.	Wt.
08.	Each	Lbs.	Ins.	Ins.	Ins.	Lbs.
B 50B	\$0.35	1/2	31/4	31/4	31/2	8
B 100B	.39	1	51/2	31/4	3%	16
	-	A A CONTRACTOR				

One dozen in a case.

# ROUND



Makes moulds with attractive designs on top.

Plain finish maplewood, with assorted designs.

Nos.	Each	pacity, Lbs.	eter, Ins.	Height, Ins.	Doz., Lbs.
AB 1/2 R	\$0.39	1/2	3 7/8	31/8	6
AB 1R	.45	1	41/2	3 3/4	8
	One dozen	in a wood	hore		

zen in a wood box.

# BUTTER PRINTERS

# EUREKA



Mould and stamp combined.

 Adjustable—for making pound and halfpound prints.

· Makes perfect prints rapidly-ten to fifteen prints may be made per minute. Simple to adjust for size of print, by merely adjusting the middle finger. The frame is made of close-grained wood, with gum metal top and nickeled trimmings. Pound prints are 4%x2½x2% rearved block.

AY 1—Weight per dozen 45 lbs.....Each \$9.95

One dozen in a wood box.

# BUTTER LADLES



Sturdily made of natural finish maple-wood. Length over all 8½ inches, width 3% inches.

AB 40 — Weight per dozen 11/2 lbs. ......Each \$0.15

Packing-bulk.

# BUTTER PATS



Ribbed design in natural finish maplewood. Length over all 10 inches, width 3 inches.

AB 41—Weight per dozen 11/2 lbs......Each \$0.15

Packing-bulk.

# PARCHMENT PAPER SQUARES

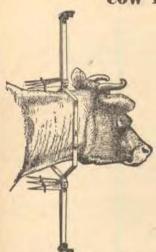


Clean and sanitary-for wrapping butter prints.

VEGETABLE PARUTIN		Cino	Weight
Nos.	Per 1000	Size, Inches	per 1000, Lbs.
AB 89	\$1.95	8x 9	51/4
AB 811	2.39	8 x 11	61/4
AB 912	2.79	8 x 9	71/4
	Party Allerton Committee to the committee of the committe	As a second seco	

One thousand in a package.

# COW POKES



### TRIDENT

Restrains the worst fence breakers.

Is an effective cattle guard even for a two-wire fence. The points of the 3-point spur (or trident) are spaced correctly so that one or more will always do their work when animal attempts to get through, over or un-der the fence.

### Adjustable Japanned Finish

Constructed of bar steel % x10-inch turned edge-% xra-inch turned edge-wise, with hook shank dou-bled its full length and end of each piece formed into a hook making a double hook that hooks from either side, front or any angle.

Neck space 6 inches wide: adjustable 12, 14 or 16 inches long. Length over all adjustable 32, 34 or 36 inches.

AB T2B—Weight per dozen 54 lbs...... Each \$0.98

Wired, one-half dozen in a bundle.

### DUDEK

### Adjustable-Oval

This poke is adjustable to the animal's neck and prevents rubbing.

Sturdily constructed of flat steel,  $\%\,x_{10}^{3}\text{-inch, }37\%$  inches long.

Japanned finish.

AB 2D-Weight per dozen 36 lbs.....Each \$0.59

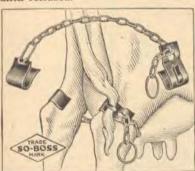
Packing-bulk.

# COW HOBBLES

# IMPROVED SO-BOSS

- · Effectively stops kicking, side stepping and tail swishing.
- · Makes it safe to milk the most troublesome cow.
- · Saves time and effort of milker, protects milk pail.
- · Easy to adjust and cannot slip or become unlocked until released.

Has two flat metal hooks that fit over tendons or cords of cow's legs. When chain is drawn through slot until brought into holding position it is held automatically until released.



#### With Tail Holder Clip

Heavy stamped steel leg hooks 1% inches wide, black enameled. Welded straight link chain, burnished smooth and cop-pered. Chain 25 inches long. Length over all 29 inches.

AB1-Weight per dozen 16 lbs...Each \$0.25



### SO-BOSS JUNIOR

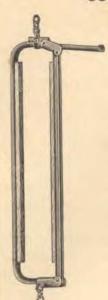
Stamped steel leg hooks, black finish. Welded black finish. Welded straight link chain, fin-ished bright. Chain 22½ inches long, Length over all 26½ inches.

AB2 - Weight per dozen 11 lbs.

Each \$0.23

One-half dozen in a carton.

### COW STANCHIONS



- · Modernize your dairy barn with these full size 431/2-inch stanch-
- Strong cowproof top latch—locks securely and easily, but cannot be opened by cow.
- Flexible chain hanger allows the cow pasture-free movement in getting up or down but keeps her in position.
- Easily adjustable for any size animal. Rounded at top and bottom for comfort.
- Strong and sturdy. Cow cannot bend or break it.

### Gray Enamel Finish

U-shaped 14-inch high carbon steel bars with heavy straight-grained wood liner riveted to side bars. Top lead and side bar one piece. Size inside—closed 43½x6½ inches. Neckspace adjustable from 6½ to 8½ inches.

AB 12-Weight each 20

lbs. ..... Each \$2.85

Packing-bulk.

# STANCHION HOLDERS

For Wood Frame

Made of  $\frac{7}{16}$ -inch wrought iron. Hook bolt 6 inches long with  $1\frac{1}{4}$ -inch hook.

AB 12HW-Weight each % lb.....Each \$0.17

# For Steel or Pipe Frame

Outside Diameter 1% Inches

Made of pressed steel with %x14-inch carriage bolt AB 12HC-Weight each 3/8 lb. Each \$0.29

Packing-bulk.

# STANCHION ANCHORS

For Wood Floor

Made of wrought steel 6 inches long, with two lag screws %x3 inches.

AB 12AW-Weight each % lb....Each \$0.23

### For Cement Floor

U-bolt made of %-inch wrought steel 6 inches long with nuts and stanchion anchor. Sets 6% inches in cement.

AB 12AC-Weight each 1 lb.....Each \$0.33

Packing-bulk

# MILKING STOOLS



These handy all-metal stools are light in weight, strongly con-structed and are primarily in-tended for milking purposes.

They are attractive and conven-ient stools, too. For use at the house, store, camp, summer cottage.

High carbon pressed steel top, legs and brace. Asembled with bolts and nuts. Height 11½ inches. Top 10 inches in diameter.

### Aluminum Finish

AB MS1-Weight per dozen 39 lbs..... Each \$0.59

Shipped knocked down-one dozen in a carton.

# DEHORNERS



LEAVITT'S DRAW CUT

Medium Size For Young Cattle

Malleable iron frame and handles. Great pressure for easy, quick dehorning. Tempered

and polished steel blade cuts clean, never crushes.

Diameter of horn opening  $3\frac{1}{2}$  inches. Blade  $\frac{2}{10}$ -inch thick, 4 inches wide with 5-inch cutting edge. Length over all 40 inches. Handles 30 inches long.

AB 2D—Weight each 12 lbs......Each \$5.95

Six in a bundle.

# DEHORNING SAWS

KEEN KUTTER

America's Finest.



Japanned malleable from frame & inch thick, %-inch wide, equipped with a guard to protect the hand. Inside of frame is 2% inches from hed, selected, hardwood, hardwood, and the selected hardwood.

cutting edge of blade. Varnished, selected hardwood handle is fastened to frame with two nickel plated steel screws. Fine cutting blade of tempered, polished steel, length 10 inches, is adjusted by malleable thumb nut at front end and nickel plated screw at handle end. Length over all 15% inches.

AB K210—Weight per dozen 16 lbs....... Each \$1.45 One-third dozen in a cardboard box.

DEHORNING SAW BLADES

For No. AB K210 KEEN KUTTER Saw

Tempered and polished steel. %-inch wide. Length 10 inches.

AB K210B—Weight per dozen ½ lb.....Each \$0.27

Packing-bulk.

# OX BALLS



Solid east brass, polished. Threaded on inside. Small screw hole in side to secure horn. Length  $\frac{4}{3}$ -inch. Outside diameter  $1\frac{1}{3}$ 0 inches. Diameter of hole at bottom  $\frac{1}{1}$ 0-inch. At top  $\frac{1}{1}$ 0-inch.

Two dozen in a cardboard box.

# CATTLE TROCARS

FOR BLOAT

Sharp - pointed nickel - plated polished steel blade works easily, effectively. 5% inches long, fe-inch in diameter. Enclosed in heavily nickel-plated steel canula or tube 5 inches long. Comfortable black enameled wood handle grip, 2% inches long.

AB 2—Weight each ¼ 1b.....Each \$0.95

Packing-bulk.

# PLAIN TEAT BISTOURY

PILLING'S

For Cutting Obstructed Teats



Illustration shows both open for cutting and closed for inserting.

Safe! Sanitary!

This surgical instrument is made for long, satisfactory service.

Solid Sterling Silver

Packing-bulk.

# IMPROVED TEAT INSTRUMENT

PILLING'S

For Opening Obstructed Teats

A handy instrument to have at the dairy or farm.

Polished steel, silver-plated. Length 41/2 inches.

AB PI \_\_\_\_\_ Each \$1.65

Packing-bulk.

# Modernize YOUR LIVING ROOM WITH

# SIMMONS FURNITURE

Highest Quality Materials and Workmanship Assure Years of Continuous Comfort, New Modern Styling and Fabrics Will Make Your Home Most Attractive

# WEANERS

# FOR CALVES, COLTS, YEARLINGS AND COWS

Wide selection of types and sizes to wean young animals or discourage the sucking habit in mature stock.



#### SHAW-NEW STYLE

It's safe, comfortable, effective! Fitted with two adjustable buckles which permit adjustment of overhead and throat strap.

### CONSTRUCTION

Tinned steel braced wire frame, neck loop and meshed basket-shaped muzzle or body. Frame and loop 10 gauge, Mesh wires 16 gauge. Complete with web, overhead and throat strap.

Nos.	AB 1C	AB 2C	AB 3C
Suitable for	Calves	Yearlings	Cows
Size Loop, in.	7½x5¼	9%x5%	11%x6%
Dimensions of Basket, in.	5%x5x4%	61/4×51/4×51/4	7.1/2×6%×6%
Length Halter from D to D, in.	18	22	27
Wt. Doz., lbs.	9	91/2	101/2
Each	\$0.49	.57	.75

One dozen in a carton.



### REICHERT'S ANTI-SUK

Double hinge allows animal to graze, eat and drink, but prevents sucking.

Heavy steel guard, heavily tinned, with three prongs, hinged to malleable iron adjustable ball-tipped nose ring. Nose ring locked by cotter pin.

Nos.	Each	Suitable	per Doz., Lbs.
AB 205	\$0.37	Calves	31/2
AB 206	.45	Cows	5
	Packing-	-bulk.	



# SO-BOSS

This device discourages cow and she keeps calf away, the sure weaning method.

Allows calf to eat or drink freely. Prevents sore nose and other discomforts.

Adjustable to any size calf. Spurs and arch over nose stamped from one piece of galvanized steel. One piece galvanized chain, with snap.

Width 5 inches. Are Spurs 1% inches long. Arc 31/2 inches. Length 41/2 inches.

AB H-Weight per dozen 11 lbs......Each \$0.37

One-half dozen in a package; four dozen in a carton.



### BLABB'S PATENT

Allows animal to eat and drink without difficulty.

Hardwood, smooth belted finish. 5% inches long, 3% inches wide. Size of nose ring 2%x1% inches.

ABB-Weight per dozen 11/4 lbs.......Each \$0.05

Sixty dozen in a barrel.

#### FULLER'S NOSE RING PATTERN

Forged from non-rusting metal, with adjustable ball-tipped nose ring, fastened by steel cotter. Seven sharp spikes or prongs.

Each	Suitable	Width, Closed, In.	of Nose Ring, In.	Weight per Doz., Lbs.
\$0.19	Calves	41/2	11/2×1/8	11/2
.23	Yearlings	6	1%x%	2
.29	Cows	8	21/4×1	21/4
	.23	Each for \$0.19 Calves .23 Yearlings	Suitable Closed,   Fach   for   In.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$



#### KEES

Allows calf to eat or drink with-out difficulty.

Just snap it on! No troublesome cotter pins, no nuts, no bolts. Easy to remove.

### SIMPLE IN CONSTRUCTION

Heavy galvanized sheet steel shield with four prongs, which can be flattened down if not wanted; heavy stamped steel should be sheet of nose ring is movable and is held in place by flat steel spring latch which is released by pushing on end of latch through hole; easily attached and removed.

		Size of Shield,	of Nose Ring,	Weight per Doz.,
Nos.	Each	In.	In.	Lbs.
AB 525	\$0.15	4%x3	1½x1	3
AB 626	.17	5%x3%	1½x1	31/4



### PERFECTION

# For Calves, Colts and Cows

Will do away with your weaning troubles. Will not get out of order and is practically indestructible. The points are small and are bent upward—no danger of serious injury, cannot tear or rip.

Galvanized sheet steel nose plate with small points, shaped and reinforced to perfectly fit the animal's nose. Heavy cot-ton corded webbing halter with buckles for adjustments and metal tips.

AB PCW52-Weight per dozen Each \$0.55 9 lbs.

One dozen in a carton.

For

Long and Satisfactory Service,

Choose and Use

KEEN KUTTER

Kitchen Cutlery

# NOSE GUARDS



### BROWNSON'S AIR-FLOW

A new, adjustable nose guard that will fit any horse or mule and permit easy breathing.

Can be shortened or lengthened and made to fit horse with wide or narrow head.

Galvanized 24 gauge steel wire, 6 mesh, with 9 gauge wire rim. Normal size—width 7 inches, depth 5½ inches, length 5½ inches.

Black fabric binding and head gear. Adjustable leather straps with new patented snaps.

AB AF50—Weight per dozen 6% lbs. Each \$0.50

Four dozen in a carton.

### BASKET TYPE

#### For Horses and Cattle.

Used in those sections of the country where the Hessian fly is found.



Equipped with patented adjustable side straps, snaps and buckles.

Galvanized 24-gauge steel wire eloth, 6 mesh. 14-gauge galvanized wire inside braces. 9-gauge galvanized wire rims. Diameter 9 inches. Depth 7 inches. Heavy black leather-cloth binding.

AB A6S—Weight per dozen 9 lbs. Each \$0.40

Four dozen in a carton.

#### INSIDE BRACE

Galvanized 24 gauge 6 mesh steel wire cloth. 14 gauge galvanized wire inside braces. 9 gauge galvanized wire rims. Diameter 9 inches. Depth 7 inches.

Full Brown Duck Bound and Sewed

AB 101—Weight per dozen 5% lbs......Each \$0.33

Two dozen in a carton.



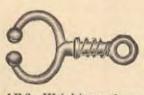
### FLEXIBLE No Hoops—No Braces

Galvanized steel wire cloth, 6 mesh. Heavy leather-cloth binding. Diameter 9 inches. Depth 7 inches.

AB F6—Weight per dozen 4

Four dozen in a carton.

# CATTLE LEADERS



# STANDARD

Easily and quickly put on and taken off. Spring prevents leader from unlocking.

Cast iron, japanned finish, with coppered steel wire spring and iron rivet at joint. Diameter of bow 2½ inches.

AB 2—Weight per dozen 4 lbs..... Each \$0.15

One dozen in a carton.

### HORSE MUZZLES

Keeps horses from eating grain while working in the fields, during harvest season, and assures protection to growing plants during cultivation.

# GALVANIZED IRON WIRE—SECURELY LACED



Shaped to fit nose. Made entirely by hand, twisted double at ends. Twelve, 14 gauge body wires. Depth 8% inches.

AB 88—Weight per dozen 6

lbs. ..... Each \$0.23

One dozen wired in a bundle. Six dozen in a crate.



18 gauge body wire. 12 gauge ring wire. Diameter 10 inches. Depth 3 inches.

AB 5—Weight per dozen
Ibs. \_\_\_\_\_Each \$0.10

16 gauge body wire. 10 gauge ring wire. Diameter 10 inches. Depth 9 inches.

AB 7—Weight per dozen 3½

lbs. Each \$0.12

14 gauge body wire. 10 gauge ring wire. Diameter 10 inches. Depth 9% inches.

AB 8-Weight per dozen 5 lbs...... Each \$0.15

Three dozen in a bundle.

# BULL RINGS

These rings are designed to fasten in the nostrils of bulls. Makes it easy to control and lead unruly animals.



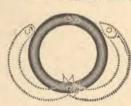
### Standard

Polished copper  $\hat{\chi}_{n}^{\delta}$ -inch diameter. With screw at opening.

A small wire screw driver for adjusting opening screw is included with each ring.

Nos.	Each	Inches	Doz., Lbs.
AB 221/2	\$0.23	21/2	21/4
AB 23	.25	3	21/2

# With Protected Point for Piercing



# Diameter of Ring 21/2 Inches

Polished copper <sup>5</sup>/<sub>10</sub>-inch diameter. With screw at epening. A small wire screw driver for adjusting opening screw is included with each ring.

AB 31—Weight per dozen 21/4 lbs. Each \$0.27

### Self-Piercing

This ring is self-piercing and does the work in one operation. Saves time, lessens danger to operator and pain to animal.

### Extra Heavy Polished Copper

With heavy screw at opening and protected point for piercing; %-inch copper ring, 3 inches in diameter.

AB 53—Weight per dozen 4 lbs.....Each \$0.35

One dozen in a carton.

# **#ROUND END STOCK TANKS**

COLUMBIAN RED BOTTOM

Top rim reinforced by the Columbian patent tube top, clinched over the edge of the tank; takes all strain of pushing, crowding livestock. The smooth rounded top cannot injure stock.

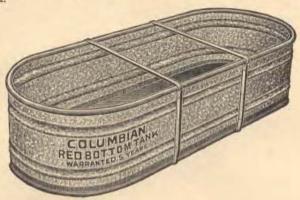
### WARRANTED FIVE YEARS

No other tank can approach the sturdiness found in these stock tanks. Upright seams in the side walls are sweat soldered and bottom and side walls are joined together in a machine which folds the edges over each other into a four-ply seam around the bottom of the tank, and this double-locked seam is then blown full of molten solder by a combination hydrogen torch and soldering iron, an exclusive Columbian process.

Heavy triple swedges are pressed into the shell for added strength just where needed. Has 1-inch brass flange drain opening with lead plug.

GALVANIZED STEEL
24-GAUGE THROUGHOUT
Width 2 Feet, Height 2 Feet
Shpg.

			snpg.	21257	
	Cap.,	Lgth.,	Wt.,	Std. Lis	t, Each
	arrels	Feet	Lbs.	Zone 1	Zone 2
#AY 224RB	3	4	39	\$12.24	\$13.38
<b>‡AY 225RB</b>	31/4	5	47	14.78	16.14
<b>‡AY 226RB</b>	41/2	6	60	17.20	18.80
#AY 227RB	51/2	7	68	19.72	21.56
#AY 228RB	614	8	81	22.16	24.22
		1000	CONTRACTOR	27.10	29.62
<b>‡AY 2210RB</b>	8	10	97		20.02
		t, Heigh			10000
#AY 221/24RB	31/4	4	50	\$15.06	\$16.48
#AY 221/26RB	5%	6	76	21.48	23.48
#AY 221/28RB	8	8	102	27.90	30.48
#AY 221/210RB	101/2	10	123	34.30	37.50
		eet, Hei	cht 2 1	Foot	27000
#AY 21/224RB	3%	4	42	\$13.70	\$14.98
+ AV 21/ 25DB		5	51		18.06
#AY 21/225RB #AY 21/226RB	4%			16.52	
+A1 2/2261615	5%	6	65	19.24	21.02
#AY 21/227RB	7	7	74	22.06	24.10
#AY 21/2 28RB	8	8	88	24.78	27.10
#AY 21/2210RB	101/4	10	102	30.34	33.14
The second secon			ht 91/	Foot	
		et, Heig		Feet	\$19.34
#AY 21/221/24RB	41/2		54	\$17.70	
#AY 21/221/26RB	734	6	82	24.78	27.10
#AY 21/221/28RB	10	8	110	31.78	34.72
#AY 21/221/210RB	12%	10	129	38.88	42.48
24-GAUGE	SIDES	. 22-GA	UGE I	BOTTOM	S
		t, Heigh			
<b>‡AY 325RB</b>	51/2	5	59	\$18.08	\$19.74
#AY 326RB	7	6	75	21.18	23.14
<b>#AY 327RB</b>	81/4	7	86	24.20	26.44
#AY 328RB	91/2	8	102	27.30	29.84
‡AY 3210RB	1214	10	122	33.42	36.54
#AY 3212RB	15	12	148	39.86	43.54
				45.98	50.24
<b>‡AY</b> 3214RB	17%	14	169		00.2E
		et, Heig			200 00
#AY 321/26RB	8%	6	93	\$27.02	\$29.52
#AY 321/28RB	12	8	124	34.70	37.90
#AY 321/210RB	15%	10	150	42.38	46.30
#AY 321/212RB	18%	12	181	50.46	55.12
#AY 321/214RB	22	14	206	58.12	63.50
Width	h 334 F	eet, He	ight 2	Feet	
#AY 31/25RB	61/2	5	67	\$19.72	\$21.56
#AY 31/226RB	8	6	85	23.04	25.16
#AY 31/2 27RB	934	7	97	26.44	28.90
+AV 21/22RB	111/4	8	114	29.74	32.50
#AY 3½28RB #AY 3½210RB					
+AV OLONO	1414	10	137	36.46	39.84
#AY 31/2212RB	171/2	12	166	43.46	47.46
<b>*AY 31/2214RB</b>	20%	14	189	50.14	54.80
		et, Heig			La plante
#AY 31/221/25RB	8	5	83	\$25.08	\$27.40
#AY 31/21/26RB	10	6	104	29.16	31.86
#AY 31/21/48RB	13%	8	138	37.14	40.58
#AY 31/221/210RB	18	10	165	45.20	49.40
#AY 81/221/212RB	22	12	199	53.46	58.42
#AY 31/221/214RB	26	14	226	61.52	67.24
*AL 0/24/214RD	20	7.7	220	OTION	01.22



# GALVANIZED STEEL 24-GAUGE SIDES, 20-GAUGE BOTTOMS Width 4 Feet, Height 2 Feet

	Con		Shpg.	CAA TE	+ Wash
Nos.	Cap., Barrels	Lgth., Feet	Wt., Lbs.	Zone 1	st, Each Zone 2
#AY 428RB	12%	8	130		\$34.42
#AY 4210RB	1614	10	156	\$31.50	
#AY 4212RB	20	12	190	38.20 45.20	41.74 49.40
#AY 4214RB	231/4	14	216	51.92	56.72
#AY 4216RB	271/4	16	253	58.60	64.04
The state of the s					04.04
	dth 4 Fee	ALTON DE LA CAMPA			
#AY 421/28RB	15%	8	154	\$39.76	\$43.44
#AY 421/210RB		10	185	48.02	52.48
#AY 42 1/2 12RB	25	12	224	56.66	61.92
#AY 421/214RB		14	255	65.04	71.04
<b>‡AY 42</b> ½16RB	34	16	297	73.38	80.20
	idth 4 Fe				The Conference of
<b>‡AY 438RB</b>	19	8	170	\$44.62	\$48.74
<b>‡AY 4310RB</b>	241/2	10	204	53.94	58.96
<b>‡AY 4312RB</b>	30	12	246	63.58	69.46
<b>‡AY 4314RB</b>	351/2	14	280	72.82	79.54
<b>‡AY 4316RB</b>	41	16	326	82.14	89.74
W	idth 5 Fe	et, Heig	ht 2 1	Feet	
<b>\$AY 528RB</b>	151/2	8	145	\$36.46	\$39.84
<b>‡AY 5210RB</b>	20	10	176	43.94	48.00
<b>#AY</b> 5212RB	24 %	12	213	51.60	56.40
<b>‡AY 5214RB</b>	291/4	14	243	59.10	64.56
<b>‡AY</b> 5216RB	33¾	16	284	66.50	72.64
Wi	dth 5 Fee	t, Heigh	it 21/2	Feet	
#AY 521/28RB	191/2	8	171	\$45.48	\$49.70
#AY 521/212RB		12	240	64.06	69.98
#AY 521/214RB		14	283	73.18	79.98
#AY 521/216RB	43	16	329	82.34	89.94
w	idth 6 Fe	et, Heig	ht 2 1	Feet	
<b>#AY 6210RB</b>	43%	10	186	\$49.00	\$53.54
<b>#AY</b> 6212RB	291/4	12	228	57.64	62.98
<b>#AY</b> 6214RB	34%	14	270	65.90	72.00
<b>‡AY</b> 6216RB	41	16	311	74.26	81.14
	dth 6 Fee	et, Heigh	nt 21/2	Feet	
#AY 621/210RB	291/2	10	225	\$60.56	\$66.16
#AY 621/214RB	431/2	14	310	81.36	88,88
W	idth 6 Fe	eet, Heig	tht 3		
<b>‡AY 6312RB</b>	43%	12	297	\$ 78.82	\$ 86.14
<b>‡AY 6314RB</b>	521/4	14	336	90.20	98.56
<b>‡AY 6316RB</b>	611/2	16	385	101.58	110.98
from standard	If a mater				

Retail prices are 35% discount from standard list price.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

### ROUND STOCK TANKS

#### COLUMBIAN RED BOTTOM

Top rim reinforced by the Columbian patent tube top, clinched over the edge of the tank takes all strain of pushing, crowding livestock. The smooth, rounded top cannot injure stock.



# GALVANIZED STEEL WARRANTED FIVE YEARS

No other tank can approach the sturdiness found in these stock tanks. Upright seams in the side walls are sweat soldered and bottom and side walls are joined together in a machine which folds the edges over each other into a four-ply seam around the bottom of the tank, and this double-locked seam is then blown full of molten solder by a combination hydrogen torch and soldering iron, an exclusive Columbian process. dering iron, an exclusive Columbian process

Heavy triple swedges are pressed into the shell for added strength just where needed. Has 1-inch brass flange drain opening with

lead plug.

# 24-GAUGE THROUGHOUT

Cap., Barrels 1½ 2¼ 3 3¾ 4½ Diame	Hgt., Feet 1 1½ 2 2½ 3	25 30 36 42	Zone 1 \$10.50 11.26 11.96	\$11.46 12.32
1½ 2¼ 3 3¾ 4½ Diame	1 1½ 2 2½ 3	25 30 36 42	\$10.50 11.26 11.96	\$11.46 12.32
2¼ 3 3¾ 4½ Diame	1½ 2 2½ 3	30 36 42	11.26 11.96	12.32
2¼ 3 3¾ 4½ Diame	2 2½ 3	36 42	11.96	Control of the second
3¾ 4½ Diame	2 2½ 3	42		19.00
4½ Diame	3		W W 15.00	13.06
Diame	3		15.06	16.48
	A 014	48	17.00	18.60
4	ter 33/2	Feet		
4	2	43	\$13.60	\$14.86
5		50	17.20	18.80
6	3	57	19.44	21.24
Diam	eter 4 I	Feet		
5	2	53	\$15.36	\$16.78
6%		61	19.24	21.02
8	3	68	21.88	23.90
Diame	ter 41/2	Feet		
7	2	62	\$17.20	\$18.80
834	21/4	70	21.78	23.80
101/2	3	79	24.40	26.66
Diam	eter 5 I	reet		
81/6	2	71	\$19.44	\$21,24
7.00		80		26.88
13	3	90	27.90	30.48
Diame	ter 51/4	Feet		
	-		\$21.88	\$23.90
				30.80
	3			35.04
				00.01
		A CHARLES	\$24.78	\$27.10
	6 Diam 5 6 3 4 8 Diame 7 8 3 4 10 1 4 Diame 10 1 4 13 1 4 15 3 4 15 3 4	6 3 Diameter 4 1 5 2 6 4 2 ½ 8 3 Diameter 4 ½ 7 2 8 3 2 ½ 10 ½ 3 Diameter 5 I 8 ½ 2 10 ¾ 2 ½ 13 3 Diameter 5 ½ 10 ½ 2 13 4 2 ½ 15 ¾ 3 Diameter 6 I	6 3 57  Diameter 4 Feet 5 2 53 6 4 2 ½ 61 8 3 68  Diameter 4½ Feet 7 2 62 8 ½ 2 ½ 70 10 ½ 3 79  Diameter 5 Feet 8 ½ 2 71 10 ¼ 2 ½ 80 13 80 Diameter 5½ Feet 10 ½ 2 81 13 ¼ 2 ½ 91 15 ¾ 3 101 Diameter 6 Feet	6 3 57 19.44  Diameter 4 Feet 5 2 53 \$15.36 6 4 2½ 61 19.24 8 3 68 21.88  Diameter 4½ Feet 7 2 62 \$17.20 8¾ 2½ 70 21.78 10½ 3 79 24.40  Diameter 5 Feet 8½ 2 71 \$19.44 10¾ 2½ 80 24.58 13 3 90 27.90  Diameter 5½ Feet 10½ 2 81 \$21.88 13¼ 2½ 91 28.18 15¾ 3 101 32.08  Diameter 6 Feet

### 24-GAUGE SIDES AND 20-GAUGE BOTTOMS Diameter 6 Feet

Shpg. Hot Wt

Std Liet Each

	Cap.,	REE CO	VV her	Otto Lili	SU, EARCH
Nos.	Barrels	Feet	Lbs.	Zone 1	Zone 2
#AY 621/2 RB	15%	21/2	108	\$31.50	\$34.42
#AY 63RB	19	3	119	35.68	38.98
	Diame	ter 614	Feet		
#AY 61/2RB	14%	2	124	\$28.00	\$30.58
#AY 61/21/2 RB	181/4	21/2	136	35.20	38.44
#AY 61/23RB	221/4	3	148	39.46	43.12
	Diam	eter 7 1	Feet		200
<b>‡AY 72RB</b>	1714	2	138	\$31.40	\$34.30
#AY 721/2 RB	211/2	21/2	151	38.88	42.48
‡AY 73RB	26	3	165	43.26	47.26
	Diame	ter 71/2	Feet		10000000
#AY 71/2 2RB	20	2	153	\$36.06	\$39.40
#AY 71/221/2RB	25	21/2	167	44.22	48.34
#AY 71/23RB	30	3	181	48.60	53.10
	Diam	eter 8 I	Feet		20.24
<b>‡AY 82RB</b>	223/4	2	168	\$40.82	\$44.60
#AY 821/2 RB	281/2	21/2		49.72	54.32
<b>‡AY 83RB</b>	341/4	3	235	54.38	59.42

# SHEEP WATERING TANKS



Just the thing for watering and feeding sheep or for mixing feed.

### SHALLOW PATTERN

Made of the same high-grade material as our line of regular stock tanks, with patent tube top.

### 20-GAUGE

	Width 11/2 F	eet, Hei	ght 1 I	Foot	
Nos.	Cap., Gallons	Lgth.,		Std. Lis Zone 1	t, Each Zone 2
#AY 11/214	41	4	31	\$11.16	\$12.10
#AY 11/215	53	5	39	13.28	14.40
#AY 11/218	86	8	61	19.12	20.74
	Width 2 Fe	et, Heig	ht 1 F	oot	
‡AY 214	53	4	35	\$12.12	\$13.14
#AY 215	68	5	44	14.02	15.22
<b>‡AY 216</b>	83	6 .	52	15.94	17.28
#AY 217	98	7	62	17.84	19.36
<b>‡AY</b> 218	113	8	69	19.74	21.42
<b>‡AY 2110</b>	143	10	83	23.58	25.58
	Width 2 Fee	t, Heigh	t 116 1	Feet	
#AY 211/24	80	4	47	\$12.74	\$13.82
#AY 211/25	103	5	56	14.98	16.24
#AY 211/26	125	6	68	17.20	18.66
\$AY 211/27	147	7	77	19.44	21.08
#AY 211/28	170	8	90	21.68	23.50
#AY 211/210	214	10	107	26.12	28.34

# 24-GAUGE CORRUGATED VERTICALLY

		Width 11/2 F	eet, Hei	ght 1	Foot	
				Shpg.		
c		Cap.,	Lgth.,	Wt.	Std. Lis	t. Each
	Nos.	Gallons	Feet			Zone 2
	#AY 11/214	41	4	23	\$10.20	\$11.16
	#AY 11/, 15	53	5	29	12.16	13.28
	#AY 11/218	86	8	46	17.50	19.12
		Width 2 Fe	et, Heig	ht 1 F	oot	
	#AY 214	53	4	26		21010
	<b>#AY 215</b>	68	5	34	\$11.08 12.84	\$12.12
	<b>‡AY 216</b>	83	- 6	39		14.02
	‡AY 217	98	7	47	14.58	15.94
	‡AY 218	113	8		100 to 1 to 100	17.84
	‡AY 2110	143	10	53	1110 Dec 1 100 Sec. 1	19.74
	TARK WILL		100,000	63	21.58	23.58
		Width 2 Fee	t, Heigh	it 11/2 1	Feet	
	#AY 211/24	80	4	35	\$11.66	\$12.74
	#AY 211/25	103	5	42	13.70	14.98
	#AY 21 1/26	125	6	51	15.76	17.20
	#AY 211/27	147	7	58	17.78	19.44
	#AY 211/28	170	8	68	19.84	21.68
	#AY 21 1/2 10	214	10	80	23.90	26.12
ı	- 1.		72.0	-	20.00	20.14

Retail prices are 35% discount from standard list prices. #Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

### SOL - HOT TWIN FLOAT - COAL OIL BURNING



Oil fount capacity 2 gallons. Height of heater 19% inches. Diameter of heater 18½ inches. Burner No. 5. Diameter of hover 54 inches. Height over all 26 inches. The wickless burner converts common coal oil into gas and burns with a beautiful blue, intensely hot flame, equal to artificial or natural gas.

# STANDARD - CAPACITY 1000 CHICKS

Heaters—Gray iron housing, terne plate reservoir and support, terne plate float chambers, brass ball floats, cop-per tubing supply line, screen protector placed around

Control—Automatic adjustment of oil level. Only control for operator is valve to adjust height of flame desired. One feed tube to burner well permits wide range

of flame control.

Hover—28 gauge galvanized sheet steel, in sections and bolted together. Octagon shape. Supported on substantial legs. Gray iron remevable damper in top of hover. Reinforced throughout with steel band iron.

AY 54-Weight each crated 51 lbs.

Std. List Each \$25.00 Each \$17.75

### DRUM MAJOR

- Sight-drip Thermostat valve control automatically regulates and maintains an even temperature around brooder at all times.
- Economical to use. Will heat whole brooder house up to 8x10 feet in size. Cares for 300 to 1100 chicks.

# BURNS KEROSÈNE OR DISTILLATE



Drum and Radiator—New design. Heavy construction, cold rolled metal. Burns distillate efficiently. Unusual size of drum allows perfect combustion. Cast iron base and legs. Diameter 18 inches. 5 inches deep. Height from floor 21 inches.

Deflector Canopy—Strong galvanized iron. Deflects heat evenly around brooder. Diameter 32 inches.

Stove Pipe—4 inches. Insures circular flame in burner

(pipe not included).

Burner—Has outer air intake with new type non-soot flame spreader. The new cast iron base burner allows unusually low flame operation and efficient combustion with distillate. Equipped with pilot wick ring that insures easy starting and low flame economy. Requires no attention as it is automatically cleaned by flame spreader when ladder is moved. Is easily cleaned. Very large and economic the burner door. accessible burner door.

Oil Container — Galvanized iron. Capacity 8½ gallons. Sufficient for 2 to 6 days' operation under usual weather conditions. Equipped with oil strainer to prevent blocking of fuel line. Filter easily cleaned.

AY 32-Weight each 44 lbs.

Std. List Each \$15.90 Each \$13.45

One in a crate.

### EUREKA COLONY

· Simple in construction, very easy to operate.

Every good brooder should have positive, unfailing temperature control as supplied by the two powerful thermostats, automatic in operation. Supported by strong casting, bolted to body of stove.

### FOR SOFT COAL, HARD COAL, OR COKE

For best results use chestnut size.

Aluminized Finish Small parts painted green. Stove

Solid gray iron castings throughout. Fireproof base with corrugated throughout. Fireproof base with corrugated asbestos pad attached to lower plate and 1-inch air space between asbestos pad and floor. Self-cleaning and will not clog. Stove is fed through opening in top Complete with sheet iron ash pan. iron ash pan.

Check Valve—Hung on knife edge bearings, opening outward so that it works perfectly.

Hover—28-gauge galvanized sheet steel. Fastened with bolts to a strong cast iron ring on top of the stove. Removable. Large opening in hover to permit shaking down and removing ashes. Complete with rope and pulleys for raising hover to convenient height for cleaning.

Pipe Not Included AY 500 AY 1000 Nos. Capacity, Chicks Height of Stove, In. 500 1000 25 22 11 Diameter of Stove, In. 10 Holds Coal, Lbs.
Pipe Collar, In.
Diameter of Base, In.
Diameter of Grate, In.
Diameter of Hover, In. 23 38 5 4 101/2 111/2 9 10% 42 52 Height of Hover from Floor, In. 81/2 11 78

Hover packed in flat crates, knocked down. Heaters packed in corrugated cartons.

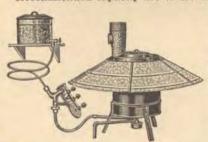
### HUDSON-OIL BURNING

# BURNS KEROSENE OR 48/40° GRAVITY DISTILLATE

Safe, efficient, dependable and at the low price of a wick or blue-flame brooder!

· Provides uniform heat, care-free control, and fumefree air in any weather.

Effectively heats a house not larger than 10x12 feet in colder climates. In warmer zones or in late season brooding, it will serve satisfactorily in larger houses. Recommended capacity 200 to 400 day-old chicks.



Weight Each, Crated, Lbs.

Each

y-old chicks.

Blued steel 22gauge drum 15
inches in diameter, 15 inches
high, with substantial channe
steel legs. Galvanized steel all
over hover 42
inches in diameter. Powerfulcast eter. Powerfulcast iron burner. Au-tomatic micro temperature valve

100

18.95

\$15.25

trolled by compound thermostat wafers. Metal sediment bowl traps all water, dirt or foreign material from oil line. Four gallon galvanized oil tank, with oil line strainer and shut-off valve. Positive automatic draft regulator. Complete with intake and overflow pipe, also copper tubing and first joint of galvanized stove pipe.

Height over all 261/2 inches.

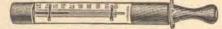
Capacity 200 to 400 Day-Old Chicks

AB H52C—Weight each 37 lbs. Each \$11.75

One in a carton.

# BROODER THERMOMETERS

SPIRIT



Graduated-30 to 120 Degrees Above Zero

Red stained wood base 1 inch in diameter, 9% inches long, with 1½-inch steel stop near top. Silver finish scale with black figures and lines. Magnifying glass tube. Nickel plated straps.

AB 400-Weight per dozen 2 lbs......Each \$0.39



# Graduated-20 to 120 Degrees Above Zero

Easy to read-magnifying glass tube. White enameled steel base 1\u00e4x7 inches, with black figures and lines. Wide bare lens tube, spirit filled. Nickel plated bulb guard.

AB 12-Weight per dozen

1½ lbs. \_\_\_\_ Each \$0.29

One in a carton.

# INCUBATING THERMOMETERS

Keep Temperatures Uniform

Note—Incubating thermometers are used only between the temperatures of 100 and 105 degrees.

Pressed steel frame, white porcelain enameled with black numerals and scale fused into white enamel. Wide bore lens tube, mercury filled. Hatching 100 to 105 degrees. Rustproof throughout. Accuracy guaranteed.



### Black Enameled Steel Base

Size-4%x1% inches. Scale-41/2x11/2 inches.

Mercury

AB 403—Weight per dozen 2½ lbs. Each \$0.49



4 inches long. 11/2 inches wide. Mercury

AB 38-Weight per dozen 11/2 lbs. ..... Each \$0.49

One in a carton.

# THERMOSTAT WAFERS



Exceptionally sensitive to temperature variations.

For use on all incubators and brooders where automatic thermostatic regulation controls the heat.

Corrugated brass double wafer 3 inches in diameter. Brass center lug.

AB 3B-Weight per dozen

% 1b. \_\_\_\_\_Each \$0.25

Packing-bulk.

### ASBESTOS RING WICKS

For Drum Major Brooder No. AY 32

Made of woven asbestos, interwoven with brass and stiff-ened with 3 brass wires. Length 8 inches. Width 11/4

AB AW-Weight per dozen 1/2 lb.

Std. List, Per Dozen \$2.40 .... .....Each \$0.19

One in an envelope.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

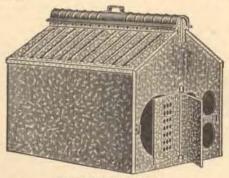
# CHICK OR BROOD COOPS

Portable

These coops provide greatest protection for your hens and chicks at lowest possible cost.

Flat bottom sets up from ground, preventing corrosion.

· Can be taken apart and stored in small space when not in use.



# Sheet Steel 28 Gauge

Roll ridge top. Corrugated roof.

Hinged doors with catches, one door slotted for ventilation. Large opening for hen, four small openings for chicks. Large and roomy. Capacity one hen and 25 chicks. Length 22 inches, width 17½ inches, height to eaves 12½ inches. Height over all 18½ inches. Made of heavy galvanized sheet steel, easy to clean and keep free of mites and vermin free of mites and vermin.

AB 144—Weight per dozen 160 lbs......Each \$1.59



# Sheet Steel 29 Gauge

Square ridge top. Smooth roof. Louver slot near top at front and back.

Hinged doors with catches, one door slotted for ventilation. Large opening for hen, four small openings for chicks. Large and roomy. Capacity one hen and 25 chicks. Length 22 inches, width 17½ inches, height to eaves 12½ inches. Height over all 18½ inches. Made of heavy galvanized sheet steel, easy to clean and keep free of mites and vermin of mites and vermin.

AB RT-Weight per dozen 140 lbs..... Each \$1.35

One-half dozen in a carton.

# KEEN KUTTER QUALITY SAVES You TIME, EFFORT and MONEY

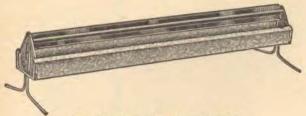
# CHICK FEEDERS

### REVOLVING REEL TYPE

Fitted with reel which revolves freely, prevents roosting and keeps chicks out of the trough,

Reel is so constructed that it will not catch or injure chicks' toes.

Troughs are sturdy, long lasting. Made of heavy galvanized iron with feed saving lip.



### ADJUSTABLE WIRE STRAND

Can be used for day-old chicks to broiler size as reel and legs can be adjusted to various heights.

Trough 4¼ inches wide, 2 inches deep with ends securely clinched. Has ½-inch feeding lip to prevent waste of feed. Adjustable wire stand to regulate height of feeder from 1¼ to 3½ inches from floor.

Nos.	Each	Length, Inches	Weight per Doz., Lbs.
AB D236	\$0.59	36	39
AB D248	.75	48	51
	One dozen in a	a carton.	



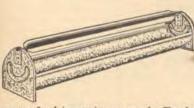
### FOUR-CORNERED METAL REEL

Sturdily made reel, 1% inches in diameter, with turned edges, revolves easily, noiselessly.

Feeder 6% inches wide, 3 inches deep. Has 1-inch lip to prevent waste of feed. Length 40 inches. Height over all 51/4 inches.

AB D245—Weight per dozen 63 lbs......Each \$0.79

Shipped set up, one-third dozen in a carton.



### BALANCED 4-BLADE REEL

Metal reel, red enameled, spins freely and can be adjusted to four positions.

New improved round bottom feeder trough

moves feed to center as used. Food remains clean to last speck. Suitable for day-old to six weeks old chicks. Folded, curved feeding lip, ½-inch wide—saves food, protects chicks from injury in feeding. Troughs 4 inches wide at top, 2% inches deep. Height over all 4½ inches.

Nos.	Each	Length,	Dozen in a Carton	Wt. Per Doz., Lbs.
AB 324	\$0.45	24	2	15
AB 336	.55	36	1	30
AB 348	.79	48	1/2	125



### REVOLVING WOOD PERCH

Heavy galvanized iron pan 26 gauge with ends folded and spot welded. Wide feeding lip on each side. Pan is 2 inches high, 4 inches wide. Height over all 3¼ inches.

Nos.	Each	Length, Inches	Weight per Doz., Lbs.
AB 624	\$0.23	24	191/2
AB 636	.35	36	281/2



### BALANCED 4-BLADE REEL

Red enamel metal reel spins freely. Can be adjusted to two positions.

Feeding trough is die-formed from one-piece heavy galvanized steel with feeding lip curved for chick safety and feed economy. Size 24 inches long, 4 inches wide at top, 2% inches wide at bottom, 1% inches deep.

AB 224—Weight per dozen 131/2 lbs......Each \$0.29

Two dozen in a carton.



### DELPHOS

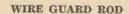
With "Z" shaped onepiece metal reel that remetal volves very easily preventing chicks from roosting on

Trough one-piece stamped heavy galvanized iron, with folded edge or lip at top to prevent waste of food.

Sturdily constructed. Size—16 inches long, 3½ inches wide at top, 2½ inches wide at bottom, 1½ inches deep.

AB D116-Weight per dozen 111/2 lbs..... Each \$0.12

Three dozen in a carton.



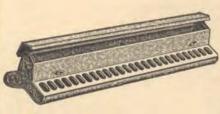


Fitted with wire guard rod to keep chicks out of trough. Adjustable to two positions for starting and growing chicks. Can be swung to side for cleaning and filling. Galvanized iron. Round bottom die-formed trough 2¾ inches wide, 1¾ inches deep, with turned-in flange to insure strength and prevent foot waste. Base 4½ inches wide. Length over all 24 inches.

AB N24—Weight per dozen 13 lbs.....Each \$0.19

One dozen in a carton.

# CHICK FEEDERS



HINGED TOP Easy to fill and to clean!

Allows a large number of chicks to feed at one time without crowding. Feed flows automatically

of trough at one time from concave bottom. Pointed top prevents chicks from roosting on cover.

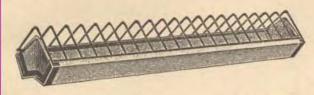
Sturdily made of 26-gauge galvanized iron. Turned edges on feeding holes.

Nos.	AB 140	AB 141
Capacity, Qts.	10	17
No. of Feed Openings	34	54
Length, Inches	21	35
Width, Inches	81/2	81/2
Height, Inches	7	7
Doz. in a Carton	1/2	1/4
Wt. Per Dozen, Lbs.	60	96
Each	\$0.85	1.29

### Hinged Wire Grille Top

Especially designed to keep chicks from roosting on feeder or getting into the feed. Permits easy cleaning. Has wide lip on each side to prevent feed waste.

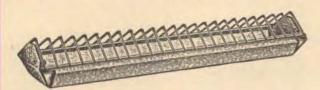
Permits easy feeding of wet or dry mash, without waste, to broilers, pullets or turkeys.



Heavy galvanized iron with spot-welded, hinged single wire grille with 2-inch openings. One inch lip. Feeder 6% inches wide, 3 inches deep. Height over all 5½ inches. Length 40 inches.

AB D243-Weight per dozen 60 lbs..... Each \$0.89

Shipped set up, one-third dozen in a carton.



Best quality 26-gauge galvanized iron trough, with ends folded and spot welded. Trough 4 inches wide, 2 inches deep, height over all 31/2 inches.

Nos.	AB 78	AB 79	AB 80
Length, Inches	24	36	48
Wt. Per Dozen, Lbs.	201/2	30	351/2
Each	\$0.37	.49	.69

Two dozen in a fibre carton.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.



Sliding Cover

Correctly sloped smooth edge openings.

Pan and top each

of galvanized steel. Easily filled and cleaned by removing sliding cover. Width 41/2 inches. Height 21/4 inches.

			Length	,	Weight
		Number of	Over All,		Per Dozen,
Nos.	Each	Holes	In.	Carton	Lbs.
AB 520	\$0.12	16	13	2	81/2
AB 521	.23	32	23	1	15



### For Feed or Water

Very Popular, Economical, Sanitary!

Die stamped from best quality tight coat galvanized steel. Two sections.

Cone-shaped bottom pan keeps feed near outer edge. Hood-shaped top has eight 1¼-inch smooth round feed

Diameter 6 inches, height 2 inches.

AB 11—Weight per dozen 41/2 lbs......Each \$0.10

Six dozen in a carton.

### BUTTERMIDK FEEDERS

For milk, medicated feed or water. Safe, sanitary, economical. Easy to fill and to clean.

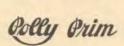


Sliding Top

Bright charcoal tin plate. Crimped corners. Sliding top. Flat bot-

tom. No seams, rivets or solder.

Nos.	AB 137	AB 138
No. Feed Openings	10	20
Length, Inches	13	24
Width, Inches	41/4	41/4
Height, Inches	2	2
Dozen in a Carton	2	1
Weight Per Doz., Lbs.	7	13
Each	\$0.20	.25



# ALUMINUMWARE

Does the Work Well and

Costs So Little

### CHICKEN FOUNTAINS

Increase Your Poultry Profits by Using One of These

Sturdily built, long-lasting fountains of galvanized metal, sanitary, rust-resisting. Easily filled and cleaned. Provides a supply of fresh pure water with little labor.



### TOP FILL-LAMP HEATED

A practical winter fountain with lamp heater. Fountain can be used separately if desired. Water tank has automatic water feed and shutoff valve. Flow of water stops automatically when outer jacket is removed.

Heavy galvanized steel, seamed and soldered. Tank and outer jacket beaded. Heavy brace across top of tank. Extra heavy bail fastens up, out of the way when not in use. Inner tank is 15% inches high, 9¼ inches in diameter and is fitted with handy carrying handle and automatic water control valve. Height over all 24 inches.

# WATER CAPACITY 5 GALLONS

Brooder heater—Heavy galvanized iron ventilated body with hinged door. Terne plate lamp 1½ inches high, diameter 6 inches with filler cap and handle. Fitted with No. 1 Zenith chimneyless burner that will not smoke. No. 1 wick. Lamp holds sufficient oil to burn 7 days. Height of heater 9½ inches, diameter 14½ inches.

AB 270—Weight per dozen 120 lbs...... Each \$3.49

Two in a fibre carton.



### THERMIC—SANITARY—NON-FREEZING

Keeps water warm in winter and cool in summer. Is easily filled by laying it on its side. Feeds water automatically without valves or other complicated parts.

Best quality galvanized iron with double walls and packed with an efficient insulating material. Insulation is completely around the inside tank. Extra heavy malleable handle well fastened for carrying. Special reinforced bottom. % inch. off the ground Extra

for carrying. Special reinforced bottom, % inch off the ground. Extra wide and deep pockets. Inset pocket and cone top keeps water in drinking pocket clean.

Height over all 16 inches. Diameter 131/2 inches.

# Capacity 3 gallens.

AB 35-Weight per dozen 276 lbs......Each \$2.89

One in a crate.

There Is a

Difference In Kitchenware.

Golly Orim

KITCHENWARE

Unusually Good but Modest In Price.



### Double Wall-Vacuum Type

These fountains have a patented grooved air entrance that maintains constant water level in pan without bubbling overflow. The self-closing valve holds water in inner tank when cover is removed. Double wall causes water to remain cold in summer and retards freezing in winter. Operates automatically on the vacuum principle. Inside water tank soldered to pan. Exclusive patented lock permits locking the cover to tank for easy carrying by outer handle. Easy to take the cover clear and service water tank soldered.

ing by outer handle. Easy to fill from top and easy to keep clean and sanitary. Heavy galvanized iron rigidly constructed. Inner tank and cover double seamed. One-piece drinking pan, with curled edge. The cone-shaped top prevents roosting.

# For Broilers and Hens

One in a carton.



### For Chicks

Capacity 2 gallons: Height 101/2 inches. Diameter 11 inches.

AB D2—Weight per dozen 57 lbs. ..... Each \$1.39

One-third dozen in a carton.



# HANDY FILL

Heavy galvanized iron. Upper section double seamed, fitted with reversible wire bail. One-piece extra heavy galvanized iron drinking pan, with smooth rolled edge especially designed to prevent small chicks from getting into the water. Drinking pan secured to upper section by wire snap hooks.

Height 121/2 inches. Diameter of pan 111/3 inches.

Capacity 3 gallons.

AB C3-Weight per dozen 60 lbs..... Each \$1.35

One-third dozen (nested) in a carton.



Drinking pan is extra heavy, fluted or escalloped, giving chicks easy access to water without crowding. The body or can snaps firmly to pan and is held securely in place so that fountain can be carried by top handle when filled with water without spilling.

Prime galvanized steel, accurately die stamped. Wire bail for carrying.

Height 12½ inches. Diameter 10 inches.

Capacity 2 gallons.

AB 18—Weight per dozen
40 lbs. Each \$0.79

One-half dozen in a carton.

### CHICKEN FOUNTAINS



Seamless pan is sanitary, very easy

To fill it is only necessary to pull top off of base, turn can upside down and fill. Push base on and invert. The pressure of the air together with grooves in pan holds weight of water—fountain can be carried by the handle on top without the slightest danger of bottom dropping off. dropping off.

Galvanized sheet steel, with red painted band at top. Seamless pan.

Beaded tank with dome top, double seamed and soldered, fitted with soldered flat steel handle.

Diameter pan 9% inches. Diameter tank 6% inches. Height over all 10% inches.

Capacity 1 gallon.

AB 135-Weight per dozen 30 lbs.......Each \$0.45

One dozen in a crate.



An excellent inexpensive waterer for chicks and grown fowl.

Heavy galvanized iron fount, in two parts, double seamed and soldered. Red enameled top. Seamless heavy bright charcoal tin pan, with turned rim. The round taper shaped body prevents any damage if accidentally frozen.

Height 9% inches. Diameter pan 8 inches, depth 1% inches.

Capacity 1 gallon.

AB 530-Weight per dozen 18 lbs..... Each \$0.29

Two dozen in a carton.



# WITHOUT JAR GLASS PAN

For Feeding Milk, Buttermilk or Medicated Water

Heavy moulded glass saucer or drinking pan with smooth edge. Extra heavy ribbed metal jar holder clamps over center edge of pan. Jar and holder quickly detached from pan for filling or cleaning.

Threaded to fit pint, quart and two quart Mason jars.

Diameter saucer 6 inches.

AB B25-Weight per dozen 8% lbs......Each \$0.10

Three dozen in a carton.



# For Feeding Dry Food as Well as Liquids

One-piece stamped 26-gauge steel pan, 1¼ inches deep, 6 inches in diameter. Iron threaded rim, with rests electri-cally welded to bottom of pan to screw in a half quart or one quart Mason fruit

AB 10N—Galvanized ..... Each \$0.07

AB 010-Blue Enameled......Each

Three dozen in a case. Weight per dozen 31/2 lbs.

STAR

Stamped one piece heavy terne plate, rust-resisting metal, without seams, solder or loose parts. Cannot leak. Threaded on each inside corner to permit using pint, quart or two quart Mason glass jar. Size 6%x6% inches. Depth %-inch.

AB 32—Weight per dozen 3 lbs. Each \$0.07

One dozen in a carton.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# NEST EGGS

White porcelain. Non-chilling.

PORCELAIN

Will not absorb odor or moisture.



AB 18-Weight per dozen 11/2 

Packing-bulk.

# LEG BANDS

BRIGHT ALUMINUM



Nos.	Per Pkg.	in		Consecu- tively
AB 125	\$0.12	25	1	1 to 25
AB 150	.23	50	21/6	1 to 50
AB 1100	.39	100	4	1 to 100

# SPIRAL LEG BANDS

PERFECTO



No. 3

For marking large and small birds, chicks and pigeons. Celluloid. Extra long lap makes them strong and prevents them from

coming off.

SINGLE SPIRAL

	Inside Diameter ¾ Inch	
Nos.	Per 100	Color
AB 1DB	80.45	Dark Blue
AB 1G	.45	Green
AB 1R	.45	Red

For Asiatic Breeds

For American Breeds Inside Diameter 11/16 Inch Nos. Per 100 Color AB 2Y \$0.37 Yellow AB 2DB .37 Dark Blue AB 2G .37 Green AB 2R .37 Red

For Leghorns, Etc. Inside Diameter %16 Inch Nos. Per 100 Color AB 3Y \$0.30 Yellow AB 3DB .30 Dark Blue AB 3G .30 Green AB 3R .30 Red

Strings of 50 of one number in a package. Average weight per 1000 % lb.

# Heat Your Home

WITH A

# SIMMONS CIRCULATING OIL HEATER

- Clean, Easy to Tend,

Economical to Operate

# COW BELLS

### HOLSTEIN

Sturdily constructed. Gives clear, penetrating ring, heard long distances.

Stamped from sheet steel, brassed finish. Brazed and riveted joint. Steel loop riveted through top. Cast-iron clapper with wire hanger.

Height Wt

		at	Size	Withou	
Nos.	Each	Mouth, In.	Loop, In.	Loop, In.	Doz., Lbs.
AB 1	\$0.75	31/4 x5	21/8	61/2	24
AB 2	.65	31/4×47/4	11/2	5%	20
AB 3	.49	23/4 x4	11/6	51/4	14
AB 4	.45	21/4×31/4	13%	41/8	10
AB 5	.39	2%x2%	1%	31/2	6
AB 6	.35	21/4×25/4	11/8	3	5
AB 7	.30	2 x2%	11/8	236	4
AB 9	.25	1%x2%	1	25%	2
	P	acking—bulk.			

Siza

# SHEEP BELLS



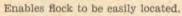
great convenience in locating the

Copper plated. Steel bell 1% inches long, with  $2\frac{1}{16}x1\frac{1}{16}$ -inch throat. Malleable loop and tongue. Length over all  $2\frac{1}{16}$  inches. Black leather strap with leather chafe  $2x1\frac{1}{16}$ inches.

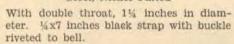
AB 25-Weight per dozen 3 lbs. ..... Each \$0.29

One dozen in a carton.

# TURKEY BELLS



### Steel, Nickel Plated



AB 10T—Weight per dozen 21/4 lbs. \_\_\_\_\_Each \$0.15



Bell 2 inches in diameter, 14-inch high. 1/2 x8-inch red leather strap with buckle safe riveted to bell.

AB 4T—Weight per dozen 11/2 lbs. \_\_\_\_\_Each \$0.15

Two dozen in a cardboard box.



# **#FARM BELLS**

Has a pleasant, penetrating tone. A real convenience on any farm.

Bowl cast from high-grade steel alloy. Cast-iron yoke and frame.

Nos.	Each	Diameter Bowl, Inches	Weight Each, Lbs.
<b>#AB 15F</b>	\$ 6.45	15	40
#AB 17F	7.85	17	50
<b>‡AB 19F</b>	11.85	19	75
<b>‡AB21F</b>	15.85	21	100
	Packing-k	oulk.	

# **#FIRE ALARM BELLS**



These bells have no wheel, but are fitted with double clapper, as shown.

Nos.	Each	Bell, In.		Wt. Each Complete,
			ZXII, III.	Lbs.
# AY 530	\$ 89.00	30	43	555
<b>‡AY</b> 532	102.00	32	43	605
<b>‡AY</b> 534	121.00	34	501/4	730
<b>‡AY</b> 536	147.00	36	501/4	855
#AY 540	198.00	40	54	1190
#AY 544	262.00	44	56	1595
#AY 548	332.00	48	7014	2000
<b>‡AY</b> 554	486.00	54	701/4	2985

Bell bowls packed in bulk. Mountings one set in a crate.

# **\*STEEL ALLOY BELLS**

### HILLSBORO

Bowl cast from selected steel alloy. Finished in bronze. Cast-iron yoke, uprights, wheel, clapper and tolling hammer. Heavy hardwood sills. Bowl secured to yoke. Uprights secured to sills. School bells have no tolling hammer. Church bells fitted with tolling hammer, as shown. No rope furnished with any of these bells unless ordered separately. Wood sills and uprights painted blue. Wheel and yoke painted black Wheel and yoke painted black.

#### SCHOOL BELLS CHURCH BELLS





# HILLSBORO, SCHOOL, WITHOUT TOLLING HAMMER

Nos.	Each	Diam. Bell, In.	Hgt. Over All, In.	Wt. Each Complete Lbs.
#AY 141/4	\$ 21.00	20	29	180
#AY 141/2	26.00	22	31	240
#AY 15	33.00	24	31	280
<b>‡AY 16</b>	52.00	26	36	350
‡AY 161/4	65.00	28	381/2	460

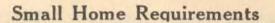
# HILLSBORO, CHURCH, WITH TOLLING HAMMER

Nos.		Each	Diam. Bell, In.		Wt. Each Complete, Lbs.
<b>#AY38</b>		\$160.00	38	56	1010
‡AY 40		192.00	40	57	1300
<b>#AY 42</b>		213.00	42	65	1480
#AY 44		258.00	44	65	1790
<b>#AY 48</b>		323.00	48	72	2280
<b>#AY 54</b>	-	481.00	54	82	3150

The weights and prices above named are for complete bells and include wood sills, iron wheel and (for Nos. AY 38, AY 40, AY 42, AY 48 and AY 54) tolling hammers, without extra charge,

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added,

# SUGGESTIONS for SELECTING WATER SYSTEMS



225 - 250 Gallons Per Hour Pump 8-15-20-42 Gallon Tanks



Filling Stations Barbecue Stands Restaurants Trailers

SMALL HOMES

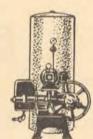
1 BATHROOM

# Medium Sized Home Requirements

# MEDIUM SIZED HOMES . 2 BATHROOMS

350 Gallons Per Hour Pump

42 - 82 - 120 Gallon Tanks



Taverns Farm Residences Railroad and Bus Stations Small Camps Small Schools Dairies Churches

# Large Home Requirements

Large Farms and Barnyards Small Hotels Medium Sized Schools Airports Tourist Camps Small Factories Small Air Conditioning Jobs

> 500 Gallons Per Hour Pump 42-82-120-220-315 Gallon Tanks



# Red Jacket Shallow Well Water Systems

Select from these three outstanding lines

R ED JACKET offers a wide selection of models and sizes in three distinctive priced lines. Each of these three lines is well known for its many exclusive Red Jacket design features which make it an outstanding pump value and assure maximum operating economy with minimum attention.

Select from these three Red Jacket lines with confidence. Designs of all Red Jacket pumps, units and water systems have been originated and developed by engineers with a lifetime of experience.

Rigid material standards, skillful manufacturing and severe testing all combine to produce what you most desire - dependable economical automatic water supply.

# LOW COMPETITIVE PRICE GROUP

The "Scout" line 1148 series of 225 gallons per hour oil lubricated Red Jacket water systems is a small economical unit with all the ruggedness and endurance of larger capacity Red Jacket pumping units. It is unequalled for simplicity of construction. Employing a 1-piece piston rod that is rigidly mounted and permanently aligned, they are world famous for their economical and trouble-free performance.



No. 1148



# COMPETITIVE PRICE GROUP

The "Warrior" line W-250 series of 250 gallons per hour Red Jacket water sys-tems has the exclusive feature of being water lubricated. They do not require oiling at any time. These units employ the same principle used on propeller shafts of largest ocean liners. Requiring only absolute minimum attention, the Red Jacket W-250 series is highly favored for dependable operation and attractive low cost.

# "CHIEF"LINE No. O-250 No. O-350

# STANDARD PRICE GROUP

Nos. O-250 and O-350

This De Luxe line includes the following pumping units: The O-250, 250 gallons per hour capacity and the O-350, 350 gallons per hour capacity Red Jacket water systems. They are all oil lubricated and employ the most advanced principles of power pumping. Castings are extra heavy, as are power frame, shafting and bush bearings. Best quality materials used throughout. The pumping unit is fitted with the finest accessory equipment obtainable. They are designed and built for extremely hard service at their rated capacities. for extremely hard service at their rated capacities.

# Red Jacket "SCOUT" WATER SYSTEMS

# WITH No. 1148 PUMPING UNIT—FOR SMALL HOMES

225 Gallons Per Hour—Oil Lubricated—22 Ft. Suction Lift

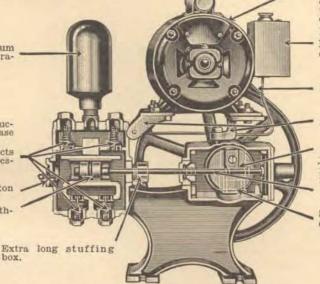
Large air and vacuum chamber. Quiet operation.

Simple valve construc-tion for long life, ease of inspection.

Relief valve — protects against excessive pres-

Easy access to piston assembly.

Best quality cup leathers.



Capacitor motor H.P. No radio interference. Powerful starting torque.

Two-pole switch with overload protection.

Running parts bathed in

Self-aligning V-belt drive.

Adjustable motor base.

1-piece power piston rod maintains perfect alignment.

Simplest counterweighted disc drive.

# No. 1148 PUMPING UNIT WITH ELECTRIC MOTOR

Recommended for the small home, summer cottage, filling station and refreshment stand. They provide a water supply at extremely low cost. The Little Scout has an outstanding and unique power end with fewer operating parts than any other reciprocating pump. Ruggedly built, it insures trouble-free, quiet performance throughout its unusually long service life. Maximum working pressure up to 40 lbs.



No. 1148-T8

# No. 1148 ELECTRIC WATER SYSTEMS

Include pumping unit, relief valve, pressure switch, pressure gauge, air control, galvanized steel pneumatic storage tank, and fittings between tank and pump.

No. 1148-T8-8-gallon storage tank system for small houses with minimum water requirements.

No. 1148-T15-15-gallon storage tank system for small homes. No. 1148-T42-42-gallon storage tank. Most practical size for average family home with one bathroom.

No. 1148-T120-120-gallon galvanized storage tank handles unusual water demands and decreases operating costs.

# How to Select the Right Size Tank

The No. 1148 water system can be furnished with an 8, 15, 42 or 120-gallon storage tank. Any of these combinations will take care of a one bathroom home or equivalent. The larger the storage tank, the less often the pumping unit starts and stops, which results in lower operating cost. Larger tanks provide more reserve storage for large sudden withdrawals.

# Specifications

Complete with 1/6 H.P. Capacitor 110-Volt, 60-Cycle A.C. Motor. Cylinder bore 1% in. Stroke 11/8 in. Suction 3/4 in. Discharge 1/2 in.

# COMPLETE WATER SYSTEM

Nos.	Each	Cap. Tank Gallons	Overall Size In.	Shipping Weight Lbs.
1148-T8	\$52.75	8	18x33x24	118
#1148-T15	56.20	15	18x33x33	127
#1148-T42	64.50	42	18x33x51	181
#1148-T120	87.60	120	25x41x65	289

No. 1148-T15 No. 1148-T42 No. 1148-T120 min Wit

REPAIR KIT

contains cup leathers, valve rubbers, valve springs, cotter keys, air snifter core and complete set of gaskets.

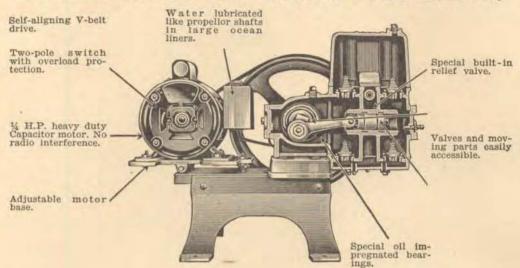
Note to Dealer: The symbols "AY" apply to all numbers shown on this page.

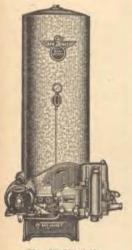
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# Red Jacket "WARRIOR" WATER SYSTEMS

WITH No. W-250 PUMPING UNIT—FOR SMALL HOMES (Formerly No. 1150)

# 250 Gallons Per Hour-Water Lubricated-22 Ft. Suction Lift





No. W-250-T42 No. W-250-T15 No. W-250-T120

# No. W-250 PUMPING UNIT WITH ELECTRIC MOTOR

The "Warrior" is the most popular unit in the Red Jacket line for reliable and economical service. Is designed to meet the needs of the average home, roadside filling station and rural store. It is the only water lubricated pumping unit of its kind made. There is no risk of damage to working parts through lack of oil. Its dependability and endurance have been thoroughly tested and proven through thousands of installations. Maximum working pressure up to 40 pounds.

### No. W-250 ELECTRIC WATER SYSTEMS

Includes pumping unit, relief valve, pressure switch, pressure gauge, air control, galvanized steel pneumatic storage tank, and fittings between tank and pump.

# How to Select Right Size Tank

The No. W-250 water system can be furnished with an 8, 15, 20, 42 or 120 gallon storage tank. Any of these combinations will take care of a one bathroom home or equivalent. The larger the storage tank, the less often the pumping unit starts and stops, which results in lower operating cost. Larger tanks provide more reserve storage for large sudden withdrawals.

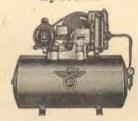
# Specifications

Complete with ¼ H.P. Capacitor 110-Volt, 60-Cycle A.C. Motor. Cylinder bore 1¾ in. Stroke 1½ in. Suction ¾ in. Discharge ¾ in.

# COMPLETE WATER SYSTEM

		Cap. Tank	Overall Size	Shipping Weight
Nos.	Each	Gallons	In.	Lbs.
W-250-T8	\$56.75	8	26x12x24	138
#W-250-T15	58.70	15	26x26x33	148
W-250-T20	61.30	20	34x14x28	171
#W-250-T42	67.00	42	26x30x51	202
#W-250-T120	90.10	120	26x38x65	310

# Horizontal Tank Systems



No. W-250-T8

No. W-250-T8—8-gallon horizontal tank.

No. W-250-T20—20-gallon horizontal tank,

For use in restricted spaces, shipped completely assembled, ready to connect. For small homes with one bathroom.



# REPAIR KIT

Contains cup leathers, valve rubbers, valve springs, cotter keys, air snifter core and complete set of gaskets.

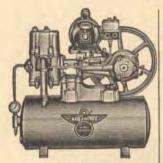
Note to Dealer: The symbols "AY" apply to all numbers shown on this page.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

# RED JACKET "CHIEF" WATER SYSTEMS

WITH No. 0-250 PUMPING UNIT-FOR SMALL HOMES

(Formerly No. 1151)



No. O-250-T8 No. O-250-T20

# No. 0-250 Complete Water Systems

Shipped completely assembled, ready to connect.

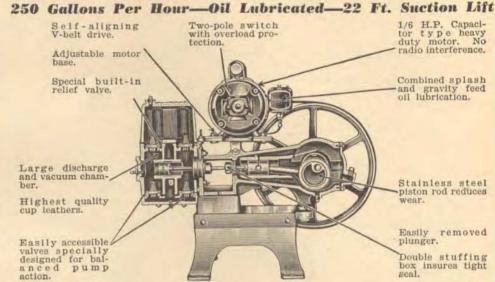
No. O-250-T8—No. O-250 pumping unit mounted on 8-gallon horizontal pneumatic storage tank. Requires space only 15" wide by 30" long. Supplies ample water under pressure for a small size family.

No. O-250-T20 — Compact, efficient assembly of No. O-250 pumping unit with a 20-gallon horizontal pneumatic storage tank. Requires space only 16"x34". Adequately meets requirements of average size family.



# REPAIR KIT

Contains cup leathers, valve rubbers, valve springs, cotter keys, air snifter core and complete set of gaskets.



# No. 0-250 PUMPING UNIT WITH ELECTRIC MOTOR

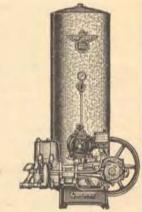
This De Luxe pumping unit is built for heavy duty service. It is recommended for average size homes with one bathroom, filling stations, resort homes, etc. Castings are extra heavy, as are power frame, shafting and bearing bushings. Best quality materials used throughout. Maximum working pressure up to 50 lbs. Complete as shown.

# No. 0-250 VERTICAL TANK ELECTRIC WATER SYSTEMS

Include pumping unit, relief valve, pressure switch, pressure gauge, air control, galvanized steel pneumatic storage tank, and fittings between tank and pump.

# How to Select the Right Size Tank

The No. O-250 water system can be furnished with an 8, 15, 20, 42 or 120-gallon storage tank. Any of these combinations will take care of one bathroom home or equivalent. The larger the storage tank, the less often the pumping unit starts and stops, which results in lower operating cost. Larger tanks provide more reserve storage for large sudden withdrawals.



No. O-250-T15 No. O-250-T42 No. O-250-T120

# Specifications

Complete with 1/6 H.P. Capacitor 110-Volt, 60-Cycle A.C. motor. Cylinder bore 1 1/8 in. Stroke 1-9/16 In. Suction 3/4 in. Discharge 3/4 in.

### COMPLETE WATER SYSTEM

Nos.	Each	Cap. Size Tank Gallons	Overall Size In.	Shipping Weight Lbs.
# O-250-T8	\$63.15	8	30x15x28	145
# O-250-T15	66.60	15	30x31x33	162
O-250-T20	67.70	20	34x16x33	178
#O-250-T42	74.90	42	30x35x51	216
#O-250-T120	98.00	120	30x35x65	324

Note to Dealer: The symbols "AY" apply to all numbers shown on this page.

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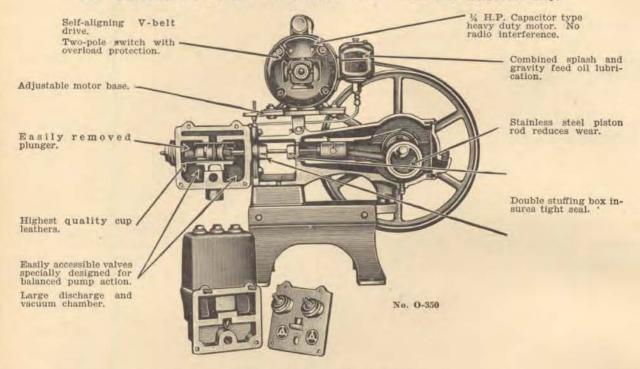
Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# RED JACKET "CHIEF" WATER SYSTEMS

WITH No. 0-350 PUMPING UNIT-FOR MEDIUM SIZE HOMES

(Formerly No. 1153)

### 350 Gallons Per Hour-Oil Lubricated-22 Ft. Suction Lift



# No. 0-350 PUMPING UNIT WITH ELECTRIC MOTOR

A De Luxe Red Jacket pumping unit built for heavy duty service with extra heavy castings, power frame, shafting and bearing bushings. Recommended for use in homes with two bathrooms, summer homes, filling stations and small schools. Maximum working pressure up to 50 lbs. Complete as illustrated.

# No. 0-350 ELECTRIC WATER SYSTEMS

Includes pumping unit, relief valve, pressure switch, pressure gauge, air control, galvanized steel pneumatic storage tank, and fittings between tank and pump.

# How to Select the Right Size Tank

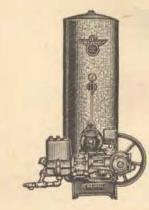
The No. O-350 water system can be furnished with 42, 122 or 220 gallon storage tank. Any of these combinations will take care of a two bathroom home or equivalent. The larger the storage tank, the less often the pumping unit starts and stops, which results in lower operating cost. Larger tanks provide more reserve storage for large sudden withdrawals.

# Specifications

Complete with ¼ H.P. Capacitor 110-Volt, 60-Cycle A.C. motor. Cylinder bore 1-9/16 in. Stroke 1¾ in. Suction 1 in. Discharge ¾ in.

### COMPLETE WATER SYSTEM

Nos.	Each	Cap. Tank Gallons	Overall Size In.	Shipping Weight Lbs,
# O-350-T42	\$ 77.85	42	30x35x51	217
# O-350-T120	100.95	120	30x35x65	325
# O-350-T220	132.60	220	30x35x77	508





# REPAIR KIT

Contains cup leathers, valve rubbers, valve springs, cotter keys, air smifter core and complete set of gaskets.

Note to Dealer: The symbols "AY" apply to all numbers shown on this page.

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# Red Jacket No. 40 Deep Well Water Systems

# 200-500 Gallons Per Hour

A dependable, economical, complete deep well pumping system where average amount of water consumption takes place. Combines Series 40 deep well pumping head with 42-gallon and larger galvanized storage tanks.

This system provides low cost water service for homes, small farms, barbecue stands, refreshment stands, filling stations and other places where there are not large, steady withdrawals. It is easy to install and requires far less space than other makes which provide similar capacity.

The No. 40 pumping head is smaller than other makes performing comparable service. Rolling Power eliminates need for crossheads, lever arms, walking beams, connecting rods and wrist pins. Will occupy much less space than other pumping heads of similar capacity. Enclosed casing protects working parts against dust.

Uses smaller motor than other pumps because of its greater efficiency. This means substantial saving in operating cost.

# How to Select Equipment

In selecting any equipment there are several factors which must be known. Red Jacket simplifies this matter for you by the following suggestions:

Determine the required pumping capacity.

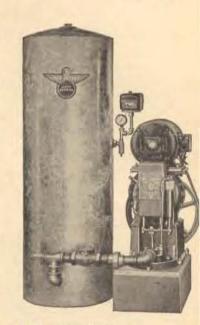
GALVANIZED PNEUMATIC

PRESSURE GAUGE

AUTOMATIC AIR RELEASE

AUTOMATIC PRESSURE SWITCH

Obtain the pumping depth. The pumping depth is that point at which you can pump a certain flow of water from the well constantly without lowering the water level.



# **Ordering Information**

Be sure to include the following information when ordering deep well pumping heads: 1. Kind of cylinder (open or closed). 2. Type of sucker rod. 3. Number of feet of drop pipe. 4. Operating pressure. 5. In case another motor is to be used be sure to list the horsepower, speed and shaft size. 6. Relief valve should be used on all pump heads. ('4-inch valve protects up to 500 gallons per hour capacity, %-inch valve up to 1,000 gallons per hour and 1-inch up to 1,500 gallons per hour.)

Selection Table for No. 40 Heads with Single Acting Cylinder and ½ H.P. Motor

Gal. Per. Hour	Cylinder Size	Depths in Feet
165	111/16	205
180	1%	187
190	113/16	167
205	1%	150
230	2	123
295	21/4	74
365	21/2	44
440	23/4	20

Selection Table for No. 40 Heads with Double Acting Cylinder

Gal. Per Hour	Cylinder Size	Depths in Feet
310	113/16	111
370	17/8	82
525	21/4	30

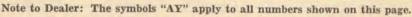
No. 40 Package Water System—Data and Price Table

Water system includes complete pumping head, motor, pneumatic storage tank, pressure switch, air release, pressure gauge, relief valve and check valve.

Complete with ½ H.P. 110-Volt, 60-Cycle A. C. motor; single drive; suction 3"; discharge 1½"; plunger rod thrdg. 5%x12".

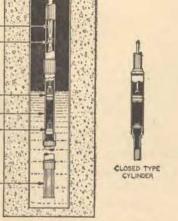
System Nos.	Each	Cap. Tank Gallons	Overall Size In.	Shipping Weight Lbs.
40-1/2-T42	\$135.30	42	33x36x51	336
#40-1/2-T82	148.50	82	35x40x65	404
#40-1/2-T120	156.75	120	37x44x65	443
#40-1/2-T220	188.40	220	40x50x75	626
#40-1/2-T315	226.45	315	44x56x78	786

NOTE: Cylinder, plunger rod and drop pipe furnished as additional equipment depending upon type used and depth of well.



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PLUNGER ROD

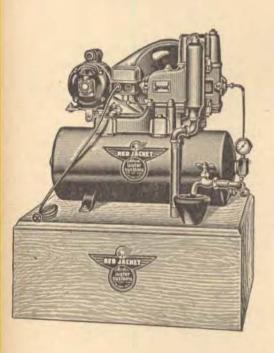
PLENGER VALVE-OPEN TYPE CYLINDER CHECK VALVE-

STRAINER

PLUNGER ROD COUPLING

# RED JACKET Automatic DEMONSTRATORS

Aid dealers to increase their sales of water systems and complete accessory supplies



# Shipped in DUST-PROOF Package, Assembled and Ready to Use

Demonstrator is sent you completely assembled including finished brass faucet and non-splash funnel. The pumping unit is the famous Red Jacket water lubricated unit with 250 gallons per hour capacity, mounted on horizontal tank. The complete unit operates over an attractive high-lustre, knotty pine box containing reservoir. All automatic controls and extension cord are included.

The Red Jacket demonstrator is completely automatic. You place it where the most people will see it, plug the cord in a light socket, and from then on, this attractive demonstrator attracts attention—starts sales.

People are fascinated by the running water, the automatic stopping and starting of the motor—the smooth quiet operation. They ask questions—and there you have a prospect made to order.

No. W-250-T8D—With 8-gallon tank. Weight, 163 lbs.....







# SALES MATERIALS AND ADVERTISING HELPS FURNISHED

With each demonstrator package the following dealer helps are furnished and shipped in the package:

- 1. Consumer price cards
- 2. Wall posters
- 3. Dealer identification sign
- 4. Consumer broadsides
- 5. Industry booklets, "RUNNING WATER"
- 6. Water system circulars 3x6"
- 7. Water softener and filter circulars 3x6"
- 8. Hand and windmill circulars 3x6"
- 9. Well accessory circulars 3x6"
- 10. Demonstrator instruction card

# The Best Looking, Best Packaged Demonstrator on the Market!

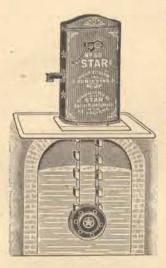
Note to Dealer: The symbols "AR" apply to number shown on this page.

#### PUMPS

#### With Purifying Water Elevators

On all pumps with the purifying water elevator, the bucket descends full of air, and ascends full of water. For every gallon of water drawn, a gallon of air is circulated through the water from the bottom to the top. This vitalizes, ventilates and purifies the water and forces a sufficient amount of oxygen from the air into the water to consume all the impurities and organic matter in foul wells and cisterns.





Heavy galvanized iron curb; painted green, black decorations. Size base 22x9 inches; height 39 inches. Fitted with latest improved double gear elevator fixtures, black japanned. With plain wooden handles. Japanned cast-iron spout. Complete with 25-foot galvanized chain and 39 buckets. Size buckets 2x2½x4½ inches. Wired top edge, adapted for wells 10 feet deep.



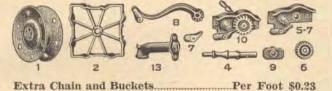
AB 50 — Weight each 88 lbs.

Each \$13.85

Packed one in a crate.

Showing Bucket

#### EXTRA PARTS FOR No. AB 50 PUMPS



AB 1—Bottom Wheel. Weight each 8 lbs		galvanized		1.95
AB 2-Top Wheel. Cas	t iron i	apanned V	Veight	

AB 2-Top		, japanned.	.95
0.72	*****************	 	 

			japanned.			40
1 72	us.	 		**********	Each	.50

AB 5—Gearing	Journal B	ox and R	atchet. Cast	
iron japanned.	Weight	each 1%	lbsEach	.65

AB 6—Co	g Wheel.	Cast	iron,	japanned.	Weight	
each 1/2	Ib	wie www.			Each	.50

AB 7—Ratchet	or Dog.	Cast iron,	japanned.	
Weight each	1/6 1b		Each	.15

weight each	72 10Each	*10
AB 8-Handle.	Cast iron, japanned, wood grip,	

AB 8-1	tandie.	Cast	HOL	i, japanned,	wood grip,	
plain.	Weight	each	11/2	Ibs	Each	.65

AB	9-	Small	Journal	Box.	Cast	iron.	Weight	
ea	ch	3/ Ib.				-91000000	Each	30

AB	10-	Gearing.	Cast	iron.	Weight	each	
- 4	lbs.					Each	1.75

AB 13-Spout.	Cast	Weight	each	
2 lbs		 	Each	.45

Packing-bulk.

#### CHAIN PUMPS

#### STAR



Galvanized steel, 24-gauge, painted gray, with japanned decorations, fitted with japanned cast-iron fixtures and crank with plain wood handle. Japanned cast-iron spout and bottom rim, removable ventilated top. Height over all 39 inches; length 16 inches; width 6½ inches.

AB 70—Weight each 44

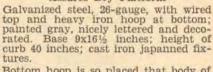
lbs. ......Each \$6.95

#### WITHOUT TUBING OR CHAIN

Note—Rubber buckets of any kind will fit No. AB 70 pump.

REX

Bottom Hoop Holds Pump Firm— Assures Dry Platform



Bottom hoop is so placed that body of curb projects into opening in platform which makes pump very rigid when set up and insures a dry platform.

WITHOUT TUBING OR CHAIN COMPLETE WITH FIXTURES

.55

.25

.30

.25

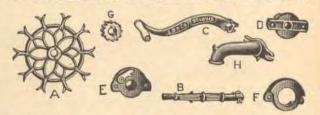
.15

.55

AB 100—Weight each 35 lbs......Each \$5.75

One in a crate.

REPAIRS FOR CHAIN PUMPS Nos. AB 70 AND AB 100



ABF—Outside Front Journal Box: Cast iron, japanned. Weight each % lb..........Each

ABH—Spout: Cast iron, japanned. Weight each 1½ lbs..... Each

ABK—Set Fixtures, Less Spout: Weight per set 6½ lbs.....Each 2.95

Packing-bulk.

#### CHAIN PUMPS



Galvanized steel, 24-gauge, painted gray and stenciled with black letters. Size of base, inside 6x14 inches; outside 8x16 inches. Height 36½ inches. Beaded body, cast iron fixtures, black japanned. Black enameled wood handle securely bolted, round cast iron transit. spout.

#### WITHOUT TUBING OR CHAIN

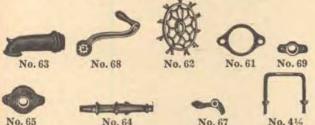
Complete With Fixtures

AB 200-Weight each 30 lbs.

Each \$4.75

One in a crate.

#### EXTRA PARTS FOR No. AB 200 PUMPS



AB 63-Spout: Cast iron, japanned. Weight each 1½ lbs. Each \$0.55

AB 68—Handle: Cast iron, japanned; wood grip, painted black. Weight each 1¼ lbs......Each .70 AB 62-Reel: Cast iron, japanned. Weight each

1.10 AB 61-Spout Ring: Cast iron, japanned. Weight

each ½ lb......Each .25 AB 69-Small Box: Cast iron, japanned. Weight

each ¼ 1b..... .25 AB 65-Large Box: Cast iron, japanned. Weight

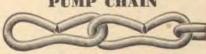
.40 AB 64-Axle: Cast iron, japanned. Weight each

AB 67-Dog: Cast iron, plain. Weight each .15

AB41/2-Stirrup: Wrought iron, plain. Weight .15

Packing-bulk.

#### PUMP CHAIN



No. 6 gauge wire; without buttons.

#### Galvanized After Making

AB G100-100 lbs. in a bag; weight per bag ....Per Foot \$0.04

Weight per 100 feet 27 lbs.

#### WELL CHAIN



Galvanized 8 gauge wire, with welded joints, twisted links.

.55

AB1W-Weight per 100 feet

...Per Foot \$0.05 25 lbs. .....

500 to 600 feet in a keg.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

#### PUMP PLATFORMS



FOR L X. L. CURBS Cast iron, painted black, grooved surface. Out. side measurements 33x35 inches; inside measure-ments 91/2 x171/2 inches.

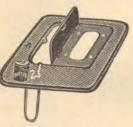
AB 0-Weight each 75 lbs......Each \$12.75

Cast Iron, Black Japanned, Corrugated Top.



\$\pmax AB 50P-For No. 50 pumps, outside dimensions of platform 40x33 inches. Size of opening for pump 25x20 inches; weight each 78 lbs..... Each \$13.25

#AB 70P-For No. AB 70 pumps, outside dimensions of platform 35x33 inches. Size of opening for pump 20x20 inches; weight each 65 lbs..... Each \$12.95



Cast iron, black japanned, corrugated top, has hinged iron door, fitted with iron iron door, fitted with iron lifting handle, through which articles can be lowered into the well for cooling purposes.

#AB 50PD-With door. For No. 50 pumps, outside dimensions of platform 40x33 inches. Size of opening for pump 25x20 inches. Size of door 9x20 inches; weight each 78 lbs. ..... Each \$13.25

‡AB 70PD—With door. For No. AB 70 pumps. outside dimensions of platform 35x33 inches. Size of opening for pump 20x20 inches. Size

of door 9x20 inches; weight each 75 lbs. .... Each 12.95

Packing-bulk.

#### WELL WHEELS

Strong-Smooth-Working.



STANDARD Cast Iron, Japanned.

of Rope, Doz. Each Nos. In. In. Lbs. 1/2 AB8 \$0.85 8 AB 10 .95 52 AB 12 1.15 12

Packing-bulk.

#### WELL WHEEL PULLEYS

Sturdy - Easy-Action

Best gray iron, black japanned. Wheel 5 inches in diameter.

Suitable as Well Wheel Pulley, but not recom-mended for Hay Tool Equipment.

AB 5-Weight per dozen 37 lbs. Each \$0.49

Packing-bulk in barrels.

#### GALVANIZED PUMP TUBING

Note-Price of tubing does not include couplings. Couplings will be charged for extra. See Pump Tube Couplings.

Galvanized iron, 24 gauge, double seamed. All trimmings galvanized. Diameter of hole 1% inches.

#### GALVANIZED RESERVOIR TUBING

Size of Reservoir 74x34 inches.

Nos.	Per Foot (Less Couplings)	Length, Feet	Each Lbs.
AB GR5	\$0.10	5	4
AB GR6	.10	6	41/2
AB GR7	.10	7	5
AB GR8	.10	8	51/2
AB GR9	.10	9	6
AB GR10	.10	10	1
	CAYN	ANTERD DE	TAT

GALVANIZED PLAIN TUBING

Used in cisterns or wells, where the depth is greater than 19 feet. Wolcht

Nos.	Per Foot	Length,	Each
	(Less Couplings)	Feet	Lbs.
AB GP8	\$0.10	8	5
AB GP10	.10	10	



RESERVOIR TUBING, WITH FUNNEL END

For cisterns 8 and 9 feet deep; requiring no couplings; size of reservoir 71/4 x31/4 inches.

Nos.	Per Foot	Length, Feet	Each, Lbs.
AB GRF9 AB GRF10	\$0.10 .10	9	6 7



#### FUNNEL END TUBING Weight

Nos.	Per Foot (Less Couplings)	Length, Feet	Each Lbs.
AB GFE6	\$0.10	6	4
AB GFE8	.10	8	5
AB GFE10	.10	10	6

#### PUMP TUBE COUPLINGS





For Galvanized Pump Tubing. AB GPC-Weight per set 11/2 lbs, .....Per Set \$0.60

Packing-bulk.

#### WATER CONDUCTORS



Japanned cast iron cup, with revolving cap. Fitted with 10 gauge steel wire bail, to hang on pump spout. Cup can be reversed so that water can be con-ducted to troughs in any direction.

Tapped for iron pipe; diameter 4 inches; depth 4 inches. Outlet for 14 inch iron pipe.

AB 211/4-Weight each 4 lbs. Each \$0.69

Packing-bulk.

#### RESERVOIR BOXES

For Use With Galvanized Pump Tubing.

Galvanized iron, 24 gauge, double seamed. Malleable iron neck thoroughly braced against bottom and cannot break from swaying of tubing in eistern. Female threads in neck to take male coupling on plain tubing. Box 7½x3½ inches; length over all 10 inches.

AB RB-Weight per dozen 21 lbs. Each \$0.75

Packing-bulk.

#### RUBBER PUMP BUCKETS



#### STANDARD EXPANSION

AB 2 - Two - piece, galvanized iron link; diameter rubber 1% inches; height of link 2 inches. Weight per dozen 1% .....Each \$0.09 lbs. .....



#### L X. L. REVERSIBLE

AB IXL-Double rubber; diameter 1% inches, galvanized iron nut; height 24 inches. Weight per dozen 1% lbs.

Each \$0.07



#### COOPER'S DOUBLE RUBBERS

AB 2CP-Diameter 1% inches; galvanized iron nut; height 2 inches. Weight per dozen Each \$0.07 1% Ibs. .....

Packing-bulk.

#### HOUSE FORCE PUMPS

RED JACKET

WITH PLAIN SPOUT

Can also be used to force water to ele-vated tanks.

Cast iron, painted red. Brass cylinder 3 inches in diameter. Brass valve seat. Suction pipe 11/4 inches.

Base 8x6% inches; height over all 22 inches; handle 17% inches long, stroke 4 inches.

AB CFP-Weight each 25 lbs....Each \$6.25

Shipped knocked down.

## PITCHER SPOUT KITCHEN PUMPS

RED JACKET

Recommended Lift 22 to 23 Feet



Closed concave movable top and handle, can be adjusted to any point suitable to the position of the pump. %-inch plunger rod, 4-inch stroke.

Cast iron, painted red, gold bronzed striped. Spout 5½x3¾ inches; length of handle 17½ inches; height 19½ inches. With cast iron couplings. All parts securely bolted. Set up complete,

Nos. AR 2K	Each \$1.79	Size Base, Ins. 81/2×71/4	Diam. Cap, Ins. 6½	-	Committee of the Commit	Weight Each, Lbs. 22
AB 3K	2.59	8%x7½	7	31/2	11/4	25

Packing-bulk.

### PLUNGERS AND PLUNGER RODS

FOR KITCHEN PUMPS

Mochle Tron Plunger Head, Wrought Iron Rod.

Nos.	Each	For No. Pump	Plunger Leather, Ins.	Weight Each, Lbs.
AB PR2 AB PR3	\$0.75	AB 2K AB 3K	3 31/4	11/4

#### WELL PUMPS

For shallow wells and cisterns. Anti-freezing. Adjustable base—for use on drive wells because base may be raised or lowered after cylinder is attached to drive pipe. Cast-iron base, handle and spout, painted red. Cast-iron cylinder 3x10 inches for 1¼-inch pipe, with high-grade valve and plunger leathers. For wells up to 25 feet deep. Four feet standard set length.

#### RED JACKET

#### LIFT PUMPS-SHALLOW WELL-SET-LENGTH

Flanged open cap bolted to flanged top. Cap, handle and pitman connected by cold-rolled steel pins. Revolv-ing flanged cap permits placing handle in any desired



AB H206

All set length pumps are fitted with 1¼-in. gal-

vanized drop pipe drilled for auto-matic drain to prevent freezing.

except in wells where the permanent water level will not be 25 feet below platform on base of pumps,

Body stock flanged at top and fitted with syphon spout. Tapped below spout for 1¼-inch pipe. Strong split-grip oval base. Height above platform 43 inches.

AB H206-Weight each

55 lbs. ......Each \$7.95



Strong, well-proportioned. Flat iron brace, Solid stock tapped below spout for 14-inch pipe. Height above plat-form 43 inches.

AB H198 - Weight each 63 lbs.

Each \$9.75

#### FORCE PUMP—SET-LENGTH

FORCE PUMP—SET-LENGTH

For use on shallow wells and cisterns for forcing water through hose or pipe. Has back outlet tapped for 1½-inch pipe so that water can be discharged from this back outlet to any desired point. Flat iron brace. Has air chamber fitted with inner tube extending from stuffing box to prevent escape of air. Flanged cap bolted to standard. Plain spout with hose clevis. Extra link between handle and solid steel piston rod provides necessary play so piston rod will not bind. Handle can be placed in any desired position. Height above platform 48 inches.

AB H441—Weight each

AB H441-Weight each 85 lbs. ..... Each \$12.75

Packing-bulk.

#### WINDMILL PUMPS

RED JACKET

For Any Depth Well

A Favorite on Hundreds of Farms · Compare with other windmill pumps offered anywhere at any price.

 Strong, heavy pumping apparatus insures long life of full strength.

These pumps have flanged fulcrum heads securely held in place by four bolts. Fulcrum head is adjustable to any desired position. Large spout 23 inches above plat-form, allows ample space for milk can without tipping.

High-grade heavy cast gray iron, two tapped outlets—front 2 inches back 1¼ inches. Complete with bushing 2x1½x1¼ inches to permit using 1¼, 1½ or 2-inch pipe.



#### HEAVY WEIGHT FORGE STAND

For power pumping with any size cylinder.

Pump adjustable for 6, 8, and 10inch stroke.

Has 11/4-inch piston rod welded to flat windmill bar and fitted with To-inch pump rod coupling.

Furnished with compression spout No. 138 and hose connection. Height over all 63% inches.

AB 793-Weight each

80 lbs. ..... Each \$13.45



#### HEAVY WEIGHT LIFT STAND

For hand, windmill or power pumping with any size cylinder.

Pump adjustable for 6, 8, and 10inch stroke.

Flat pump bar with To-inch pump rod coupling. Height over all 621/2

AB 794 Weight each

73 lbs. ..... Each \$10.95

#### FORCE PUMPS

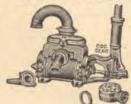
#### LOW DOWN DOUBLE ACTING

Capacity 2,000 Gallons an Hour

For filling thresher tanks, washing out boilers, pumping water from shallow wells, cellars and barnyards, irrigation purposes, etc.

All valves located on top of pump. Each valve can be reached independently by removing individual cap located over it. This is a decided advantage and is not found in any other make of tank pump.

Heavy iron body, painted green, gold striped. Horizontal cylinder 5 inches in diameter, with 5-inch stroke, strictly double acting. Two leather cup type plungers, with is inch drawn polished steel piston rod with heavy brass stuffing nut. Poppet pattern metal valves, rubber faced, with brass valve seats.



Suction fitted for 2 inch hose and discharge ports fitted for 1 inch hose and threaded on inside.

Complete with handle, hose nipple, hose attachment, hose band and strainer.

AB R479—Weight each 90 lbs. ..... Each \$16.95

Packing-bulk.

#### WELL PUMP CYLINDERS

#### RED JACKET "NEVER FAIL"



The extra large waterway permits free flow of water and reduces friction. The poppet has four legs to guide it in the follower and will not tip or stick in cage. Beveled seat of check valve prevents sediment from lodging on seat.

Cast-iron body with heavy seamless brass tube lining, two-leather all-brass plunger with 5-arm cage and rubber-faced poppet with beveled seat-ing surface. All-brass check valve with beveled seat

Size 3x12 inches. Tapped for  $1\frac{1}{4}$ -inch pipe. Plunger rod  $\frac{1}{10}$ -inch galvanized steel.

AB 24—Weight each 15 lbs..... Each \$7.45



Cast-iron body, brass valve seat, leather check valve with iron weight. Fitted with 75-inch rod. Stroke 6 inches. Capacity 440 gallons per hour (at 40 strokes per minute).

Diameter 3 Inches; Length 10 Inches

AB 49B-Brass lined; painted red. Each \$4.69

AB 49C-All iron ..... Each 2.29

Weight each 13 lbs.

#### OPEN TYPE



with deep well water systems No. use

Particularly adapted for unusually rugged service requirements with deep well pumping heads. Operates efficiently against heavy working pressures or extremely high operating heads.

Cylinder body is galvanized steel pipe, lined with seamless brass tubing. Top and bottom threaded for standard pipe size. Has two-leather, all brass plunger. Spring controlled spool poppet valve with red rubber facing and non-corrosive metal springs. Plunger and check fitted with polished cup leathers specially treated for long service in water.

Inside diameter cylinder 24 inches. inches. Drop pipe 2½ inches. Length barrel 24 inches. Capacity per stroke 172 gallons, Plunger tapped for %-inch rod. Pipe tapped for %-inch. Will enter 3½-inch well.

AB 45621/2x10-Weight each 14% lbs......Each \$13.95

Packing-bulk.

#### PUMP CYLINDER CAPS

IRON, THREADED

For Nos. AY 49B and AY 49C Pump Cylinders AB LC49—Lower \_\_\_\_\_Each \$0.85

AB UC49—Upper \_\_\_\_\_Each

Packing-bulk. Weight each 1/2 lb.

Our line of Electrical Accessories is completeand is priced right

#### DRIVE WELL POINTS

#### BRASS JACKET

Each point is accurately forged integral with pipe section and permits inside and heavy, severe end driving.

• The rectangular holes in pipe section allow more water to flow than elliptic holes and the driving strength is not impaired.



#### For 11/4-Inch Iron Pipe. Gauze No. 60

Solid forged high carbon steel point. Wrought steel pipe section with punched rectangular holes. Point and pipe section hot galvanized outside and inside after making. Perforated sheet brass and brass wire cloth jacket securely soldered to pipe at long seam and around pipe at top and bottom. Length from tip of point to outside steel jacket 6 inches.

Nos.	AY 90	AY 94	AB 98	AB 100	AB 102
Length Over All (Including Steel					
Point), Inches Length (Inside	30	36	42	48	54
Brass Jacket and Gauze), Ins.	18	24	30	36	42
Openings Aggregate, Sq. In.	20	261/4	33	36	48
Weight Per Doz.,		-	100.00	1777	
Lbs. Each	87 \$1.95	103 2.45	120 3.25	136 3.85	153 4.65
Each	dr.00	W-40	0.00	0.00	4.00

Packing-bulk.

Length of point is measured on pipe only-does not include cast point.

#### WROUGHT STEEL WELL PIPE

Used largely in connection with drive well points. Galvanized; threaded on both ends, with one coupling. Inside diameter 1¼ inches. Iron .140-inch thick. threads per inch.

ABDW-3 feet to 5 feet, 8 inches; random

#### STRATCHT LENGTHS

ACCOUNT OF THE PARTY OF THE	
Per Foot	Length, Feet
\$0.21	3
.20	4
.20	5
.20	6
	\$0,21 .20 .20

Packing-bulk. Weight per foot 21/4 lbs.

#### MALLEABLE DRIVE CAPS



For Driving Drive Well Points. Heavy malleable iron threaded for 14-inch iron pipe.

AB 6181 1/4 - Weight per dozen

18 lbs. \_\_\_\_\_Each \$0.45

Packing-bulk.

#### PIPE STRAINERS

#### RED JACKET



Keeps pump primed.

· Keeps sand and gravel out of suction pipe. Malleable iron galvanized. Slips over suction pipe and is held in place with set screw. For 14-inch pipe only.

With Gauze Covering

AB 128G—Weight each 1 1/8 lbs..... Each \$0.79

Packing-bulk.

#### PUMP RODS

Galvanized Steel, Threaded at Each End

Nos.	Per Foot	Diam- eter, In.	LOFE FOREST	Weight, Each, Lbs.
AB 181/8	\$0.06	36	17 to 22	6 to 7½
AB 187/16	.07	3/1 s	18 to 20	9½ to 10½

#### PUMP ROD COUPLINGS



Hexagon steel, cadmium finish, inch oversize.

Weight

Nos.	Each	Size, Inches	Per Package, Lbs.
AB 38	\$0.09	8/8	21/2
AB 716	.09	7/18	21/2
AB 71638	.09	7/16X %	21/2

#### WOOD ROD COUPLINGS



Three hole for medium depth wells; length over all 13 inches.

 These couplings are made of heavy malleable iron, in two parts, and fasten together with slip ring. No threads to rust or strip and will not unscrew when removing plunger and check valve.

AB 25-Weight each 1% lbs......Each \$0.75

#### SPECIAL ADAPTER COUPLINGS

FOR USE WITH No. AB 25 WOOD ROD COUPLINGS Malleable Iron, Galvanized.



One end fits on coupling attached to wood rod.

For use on plunger stem of cylinders Nos. 17, 18, 18½, 22 and 160. Tapped for %-inch iron pipe; female thread, screws on plunger stem of cylinder.

AB 81 Each \$0.30



For use on pumps Nos. 30, 36, 37, 68 and 117. Tapped for % or ¼ inch iron pipe; female thread; screws on plunger rod of pump.

Each \$0.45 AB 82....

> Weight each ¼ lb. Packing-bulk.

#### PUMP EYES

#### RED JACKET

For coupling pump rod to handle. Cast gray iron, with set screw. Opening for pump rod  $\frac{1}{10}$ -inch diameter.

AB 480R-Weight per dozen

Packing-bulk.

Each \$0.23

#### PUMP CYLINDER PLUNGERS

#### RED JACKET

For Red Jacket and other standard pump cylinders. All iron, smoothly and accurately finished. Five-arm cage, high-grade cup leathers.



SINGLE LEATHER For 3x10 cylinders. Tapped for 16-inch

pump rod.

AB 7003-Weight each 1% lbs. \_\_\_\_\_Each \$0.79



#### TWO LEATHER

For 3x12-inch, 3x14-inch, and 3x16-inch cylinders. Tapped for Ta-inch pump rod.

AB 7013-Weight each 1% lbs...Each \$1.10

Packing-bulk.

#### VALVE WEIGHTS



FOR PITCHER SPOUT PUMPS AND 3x10 PUMP CYLINDERS Cast-iron weight, complete with round

head iron screws. Diameter 1% inches.

AB1—Weight each 3 ounces......Each \$0.13

Packing-bulk.

#### FLOAT VALVES

RED JACKET



Automatically controls the flow of water into supply tanks, wells, stock tanks, etc., and prevents windmills creeping in gear.

All brass, with beveled seat and rubber ball check. The ball revolves assuring even wear and a positive seat. Tapped for 1-inch pipe.

Packing-bulk.

#### TANK FLOATS



RED JACKET For use in connection with float valve No. AB 1321.

Heavy galvanized iron, double seamed; diameter 10 inches, height 31/2 inches.

AB 13410-Weight each 1% lbs...... Each \$1.10

Packing-bulk.

THE

## KEEN KOOKER CAST IRON RANGE

Does a Good Cook

Justice

## A BAY NI B

FOR PITCHER SPOUT, HYDRAULIC AND ARTESIAN WELL PUMPS

#### BLACK CUP

Extra quality selected oak tanned leather—specially treated.

Black Color

	202		Outside	Diam., of
Nos.		Each	Diam., In.	Hole, In.
AB 000BC		\$0.10	1	16
AB 00BC		.12	11/4	3/8
AB 0BC		.13	11/2	3/8
AB 1BC		.14	1%	11/8
AB 2BC		.15	17/8	11/8
AB 3BC	-	.19	2	11/4
AB 4BC		.21	21/4	1 %
AB 5BC		.23	21/2	1 1/8
AB 6BC		.25	2%	1%
AB 7BC		.29	3	2
AB 8BC		.39	31/2	21/4
AB 9BC		.59	4	23/4
*AB 11BC-	-For Tank			
	Pumps	.95	5	3/4
STORE STORES	nameton O Inc	obe bolo	to be out larger	ac decired

\*For open center 3-inch; hole to be cut larger as desired. Good Quality Oak Tanned Leather-Tan Color



Nos.	Each	Outside Diam., In.	Diam., of Hole, In
AB 1C	\$0.10	134	11/4
AB 2C	.11	1 1/8	11/8
AB 3C	.12	2	11/4
AB 40	.13	21/4	1 %
AB 5C	.14	21/2	1%
AB 6C	.16	23/4	1%
AB 70	.18	3	2
AB 8C	.23	31/2	21/4
AB 81/2 C	.33	3 %	21/2
AB 9C	.40	4	-23/4
*AB 10C	.49	41/2	3/4
*AB 11C-For Tank			
Pumps	.59	5	3/4
amou court conton 2	moh : holo :	to be out larger	ne decired

\*For open center 3-inch; hole to be cut larger as desired. One dozen in a carton. Weight per dozen 1/2 lb.

#### LOWER VALVE



Nos.	Each	Outside Diam., In.	For Cylinder Diam., In.
AB OLV	\$0.08	21/2	2
AB 1LV	.09	3	21/2
AB 11/2LV	.10	31/4	23/4
AB 2LV	.11	31/2	3
AB 21/2LV	.13	3%	31/4
AB 3LV	.14	4	31/2
AB 4LV	.20	41/4	4

PLUNGER



Nos.	Each	Outside Diam., In.	For Cylinder Diam., In
AB 2P	\$0.17	31/2	3
AB 3P	.19	4	31/2
AB 4P	.27	41/2	4

One dozen in a carton. Weight per dozen 1/2 lb.

#### FOLLOWING TABLE SHOWS SIZES OF LEATHERS USED IN PITCHER SPOUT PUMPS

For Pump	Cup	Lower Valve	Plunger
AB 2K	AB 7C	AB 2LV	AB 2P
AB 3K	AB 8C	AB 3LV	AB 3P
AB4K	AB 9C	AB 4LV	AB 4P

#### PUMP LEATHERS

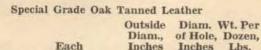
Lbs.



Nos.

#### FOR PITCHER SPOUT KITCHEN PUMPS

They are not recommended for heavy service and should not be confused with our regular line of top grade leathers.



21/2 AB 5SGC \$0.14 1/2 15% AB 7SGC .16 3 2 AB 8SGC 214 .19 31/2 7/8

KEEN KUTTER CUTLERY AND TOOLS

#### LOWER VALVE



Special Grade Oak Tanned Leather

Nos.	Each	Outside Diam., Inches	For Cyl. Diam., Inches	Wt. Per Dozen, Lbs.
AB 1SGV	\$0.06	3	21/6	3/8
AB 2SGV	.10	31/2	3	5/8
AB 3SGV	.14	4	31/2	3/4

ESPECIALLY ADAPTED FOR EUREKA CYLINDERS



Extra quality selected oak tanned leather, waterseal finish, tan color. Outside diameter 11% inches; hole 1% inches, wall % inch.

TB 11/2 WSC-Weight per dozen 14 lb. Each \$0.15

One dozen in a carton.

#### ROCKER FURNACES

COOK'S-PORTABLE

Complete With Grate and Chimney Without Pan



Made of cast iron and best quality sheet iron, he avily bound and riveted, strongly made. Mounted on rockers of heavy angle iron—thus furnishing a complete portable furnace of iron, yet light enough so it can be easily handled by two men.

Nos.	Each	treme Width, Inches	the second second	Length Furnace, Inches	Wt. Each, Lbs.
AY2	\$35.75	30	88	71	200
AY3	38.00	30	109	89	220
AY4	47.75	30	129	108	240
AY 5	55.50	30	147	126	255
	F	acking-bu	ılk.		

#### EVAPORATOR PANS

FOR STATIONARY BRICK OR ROCKER FURNACES



Made of the best metal, of a thickness proportionate to the length of the pan. Heavily bound, riveted and soldered. Will not buckle, bag or warp. Two skimmers with each pan.

Pans will fit any rocker furnace the same number as the pans—for instance, a No. AY 2 pan will fit a No. AY 2 rocker furnace.

Width 44 inches, depth 3 inches.

#### GALVANIZED SHEET IRON

Nos.	Each		or Ledges in Each	mated Cap. 12 Hrs., Gallons Syrup	Wt., Each, Lbs.
AY 2	\$11.75	72	11	20 to 30	65
AY 3	14.50	90	15	40 to 52	80
AY4	17.25	108	17	50 to 80	95
AY 5	20.50	126	20	75 to 120	110
AY 6	23.00	144	23	100 to 140	125
AY7	28.75	180	30	125 to 175	150
	P	URE COPI	PER	A Committee of	
AY 2C	\$33.75	72	11	30 to 40	65
AY 3C	42.00	90	15	40 to 52	80
AY 40	49.75	108	17	50 to 80	95
AY 5C	58.75	126	20	75 to 120	110
AY 6C	66.75	144	23	100 to 140	125
	1	Packing-bu	ılk.		CO STATE

#### SORGHUM SKIMMERS



IC tin, seamed and soldered. Perforated tin bottom (12 perforations to the inch.) Folded IC tin edge, soldered on.

Length 6% inches, width 5 inches, height 1% inches.

AB 57—Weight per dozen 21/4 lbs...... Each \$0.27

Packing-bulk.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### TANK HEATERS HUDSON

ARCTIC

Oil Burning Easily Installed,

Practical, Safe and Convenient.

Blue annealed 14gauge copper bearing body, welded into a single unit by a special process.

Patented bowl and baffle of heavy gray iron.

Burner is designed that the oil is forced out around the entire bowl regardless of position. Oil and air fed into the burner is preheated, producing a roaring white-hot flame that fills the entire heat chest. Adjustable fuel feed valve. Five-gallon oil reservoir attached to heater, preheating the fuel. Consumes 3 to 5 gallons of oil in 24 hours. Controlled draft.

The burner can be easily removed from the heater and coal grates inserted without the use of tools.

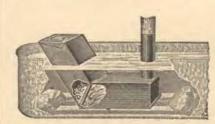
Complete with 3 joints of 5-inch galvanized stove pipe, pipe cap, lighting torch and hold-down lugs.

Size 42 inches long, 12 inches wide and 25 inches high.

#AY 11-Oil burning. Weight each 85 lbs...Each \$24.75

#AY 12—Combination; oil, wood, coal and other fuel, with grate. Weight each 95 lbs.....Each 26.75

One in a crate.



#### KLONDIKE

Will burn any kind of fuel from corn cobs to hard coal. For coal, a basket grate is required. For wood or other fuel a grate is not necesary but desirable.

Blue annealed 14-gauge copper-bearing steel body, acetylene welded by a special process. One-piece construction.

Complete with ash shovel, spark arrester, two lengths galvanized stove pipe and hold-down lugs welded on side of heater.

Size 42 inches long, 12 inches wide, 25 inches high.

One in a crate. Weight each 75 lbs.

Save Fuel, Have Plenty of Heat with a

SIMMONS

WOOD HEATER

#### HOG WATERERS

#### NEW DAISY AUTOMATIC NON-PRESSURE VALVE PATTERN



Easily secured to any barrel or tank.

- The original barrel and tank waterer used and known by farmers throughout the country.
- Constructed to take the natural flow of water from a barrel or tank with not over three feet of head water.
- Patented mud cups are furnished with each waterer as regular equipment. The mud cups prevent the hog from rooting in the water and keep any foreign matter from getting under and blocking the float. Cups are easily removed by hand for keeping water clean and sanitary.
- Heavy cast iron bowl 13 inches long, 6 inches wide, 4½ inches deep, finished in rust-resisting metallic satin finish aluminum. Two piece brass lever valve with special rubber valve gate to assure perfect operation. Copper ball float 2½ inches in diameter. Cast iron cover, orange enamel finish, protects valve and float (easily removed but cannot be loosened by a hog). Removable brass strainer attached to pipe and inside of tank to eliminate clogging of valve by straws, dirt, etc.

Level capacity of bowl 41/2 quarts.

AB DHW-Weight per dozen 180 lbs.....Each \$2.89

One in a carton.

#### PIG PANS

#### OR INDIVIDUAL HOG TROUGHS



· One piece prime open hearth galvanized sheet steel. Strong and rigid, easy to clean. Diameter at top 17 inches, at bottom 14 inches. Depth 31/2 inches.

			weight per		
Nos.	Each	Gauge, Steel	Dozen, Lbs.		
AB 1724	\$0.33	24	34		
AB 1726	.29	26	33		

One-half dozen nested in a bundle.

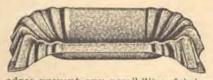
#### **HOG TROUGHS**



An improved, sanitary, strong and durable trough. Extra heavy galvanized steel body;

Liquid Capacity 31/2 Gallons.

AY 24—Weight per dozen 60 lbs......Each \$0.69



• The most satisfactory feeding trough on the market, leak-proof, rust-

edges prevent any possibility of injury to stock. Smooth inside—easy to clean. Cannot be injured by freezing. One piece full weight 24 gauge prime galvanized sheet steel, double-thick galvanized after forming. Length 28½ inches, width 11½ inches, height 3½ inches.

Capacity 2 Gallons.

AY M50—Weight per dozen 54 lbs......Each \$0.49

Nested one-half dozen in a bundle.



Galvanized iron; seamless end pieces have double thickness fold of metal overlapping top of trough,

the triangular pieces being part of same end adjoin top rim from below, making an unusually rigid construction. All edges are folded under giving double strength. Tubular cross braces bolted 1 foot apart, embossed ribs.

Nos. AY 345 and AY 346 only equipped with extra foot support in center. Height 6 inches, width 12 inches.

Nos.	Each		Cap., Gallons		
AY 340	\$0.79	2	31/2	24	51/2
AY 343	1.39	4	71/2	24	10
AY 345	1.98	6	111/2	20	171/2
AY 346	2.95	8	151/2	20	23

Two in a bundle.

#### HOG RINGS



#### WOLVERINE

Stamped from sheet steel, coppered. In boxes of 100 rings.



Hog

AB P—Small Size, for Pigs......Per Box \$0.29

One dozen boxes in a package,

AB H-Large Size, for Hogs......Per Box \$0.29

One-half dozen boxes in a package. Weight per dozen boxes 5 lbs.



#### HUMANE

 Stops rooting and discourages creep ing under fences. One ring does the work for the life of the hog. Can also be inserted in loose skin of cow's neck with hook pointing up to pre-vent riding fences.

· Special wire, heavily coppered and rust resisting. Will not break.

		Size Win	e,	Wt. Per Doz.,
Nos.	Per Box	Nos.	For	Lbs.
AB HH1	\$0.25	9	Hogs any size	61/2
AB HS2	.20	11	Pigs and Shoats	4 %

One dozen boxes in a display package. Six display packages in a carton.

#### HOG RINGS

Illustrations % Size STEWART'S

Copper plated—needle point when properly pressed to-gether, forms a smooth, triangular shaped ring. On the front of the ring is welded, at right angles, a piece of wire same diameter as ring of sufficient length to cover the snout.





No. 12 Open

No. 12 Closed

When the animal lifts on a wire it slides down the snout and engages the cross piece, or in rooting comes in contact with the ground, causing temporary pain and in a short while breaks the animal of its aggravating habits. Nos.

AB 10	Small size, for Pigs	\$0.25
AB 11	Medium size, for Shoats	.25
AB 12	Large size, for Hogs	.25

Packed in cardboard boxes: No. 10—24 in a box. No. 11—20 in a box. No. 12—12 in a box. Weight per dozen boxes 3 lbs.

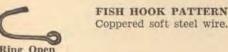


Special Rings for Chicken Eating and Vicious Hogs The bar on these rings is bent outward and stands parallel to the ground. The only ring which will successfully stop hogs from catching chickens. Applied same as other rings.

AB 36—Weight per dozen 1/2 lb......Each \$0.10

One dozen in a cardboard box, with directions. Also one blank ring with which to adjust ringer.

25	HILL'S PATTERN Coppered soft steel wire.	
No. 3 Open Nos.	(5)20-11-11-11-11-11-11-11-11-11-11-11-11-11	No. 3 Closed Box
AB 1	Small size, for Pigs	\$0.10
AB 2	Medium size, for Shoats	.10
AB 3	Large size, for Hogs	.10





Ring Open Ring Closed Nos. Box AB PP Small size, for Pigs \$0.15 AB PS Medium size, for Shoats .15 AB PH Large size, for Hogs

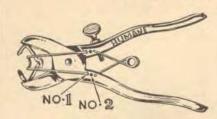
.15 PERFECTION PATTERN Coppered soft steel wire. With Needle Point

Ring Open Nos.		Ring Closed Box
AB PPN AB PHN	Small size, for Pigs Large size, for Hogs	\$0.20 .20
1	BUATES DATTEDN	

	Coppered soft steel wire.		
Ring Open		Ring	Closed
Nos.			Box
AB BP	Small size, for Pigs		\$0.10
AB BS	Medium size, for Shoats		.10
ABBH	Large size, for Hogs		.10
100 rings in	a cardboard box. One dozen	hoves i	n o

package. Weight per dozen boxes 5 lbs.

#### HOG RINGERS



#### HUMANE

 Extra heavy and strong, attrac-tively finished in red and black Rustproof set screw with lock nut. Equipped nut. Equipped with wire stop between jaws to prevent inserting ring too far into the nostrils.

One-half dozen in a carton. Three dozen in a case.



#### STEWART'S

Will fit Stewart's pattern rings, all sizes.

With screw and bolt adjustment

Malleable iron, cadm plated. Length 7 inches. cadmium

AB 70—Weight per dozen 8 lbs.....Each \$0.23



#### PERFECT PATTERN

Will fit Perfect pattern rings, all sizes. Malleable iron, cadmium plated. Length 61/2 inches.

AB PM—Weight per dozen 6 lbs.....Each \$0.23



#### BLAIR'S PATTERN

Will fit Blair's pattern rings, all sizes. With thumb adjusting screw. Malleable iron, cadmium plated. Length 6% inches

ABBM—Weight per dozen 6 lbs..... Each \$0.23



#### WOLVERINE

Will fit Wolverine pig or hog rings. Gray iron. Wrought iron rivet at joint. Black japanned. Length 71/2 inches.

AB W-Weight per dozen 9 lbs..... .....Each \$0.25



#### HILL'S PATTERN

Will fit Hill's pattern rings, all sizes. With thumb ad-justing screw. Length 61/2 inches.

Malleable iron, cadmium plated.

AB 150—Weight per dozen 6 lbs......Each \$0.19

Gray iron, black japanned. Jaws enameled red.

AB 125—Weight per dozen 6 lbs.....Each \$0.15

One dozen in a carton.

Use . . . KEEN KUTTER CUTLERY AND TOOLS

#### ELECTRIC SHEEP SHEARING MACHINES



shearing. Equipped with a powerful ball bearing, air-cooled motor inside the composition handle. New professional type tension control. Manipulated as easily as an ordinary shearing hand-piece. The ball bearings assure efficient heavy duty clipping.

Fully insulated, shock-proof-no ground wire to bother

with

The handle or case is approximately 2 inches in diameter

—perfectly balanced—easy and comfortable.

Complete with Universal motor, two AB 4HA shearing cutters, two AB 4HB shearing combs, 20 foot special rubber covered cord, and unbreakable rubber wall plug. AB 31-For 110 volts alternating current,

any cycle, or direct current...... Each \$22.95

#AB 31/32-For 32 volt direct current......Each 24.95

#AB 31/220-For 220 volt direct current...Each 24.95

Shipping weight each 71/2 lbs. One in a carton.

#### CLIPPING HEAD

For Use on AB 31 Series Shearmaster

AB 31A-Complete with two combs and 

#### PLEASE NOTE

If a shearing machine is to be used for clipping or a clipping machine is to be used for shearing, a complete attachment is required.

#### SHEARING HANDPIECE



#### STEWART-WIDE SHEARING

New Fork Yoke Spring and Tension Nut Spring The improved retaining spring prevents breaking of yokes or comb teeth. New patented tension control spring permits finer adjustment and positively eliminates backup.

Less Vibration! Longer Wear! Low Upkeep Cost!

This shearing handpiece is made of the finest tool steel machined to extremely close limits of tolerance and rigidly inspected to insure years of trouble free service. Low in first cost and low in upkeep cost because of superior quality materials and workmanship.

Complete with AB G287 comb and AB P2311 cutter.

AB EB-Shipping weight each 3 lbs......Each \$11.95

One in a carton.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### **ELECTRIC CLIPPING MACHINES**



STEWART BALL BEARING CLIPMASTER

For Horses, Mules, Cows and Dogs This super-fine machine clips

faster and easier! New ball bearing tension makes very little pressure on cutting blades necessary, so they stay sharp longer.

Easy-grip handle only 2 inches in diameter is easy to hold and comfortable in any position.

Economical to operate. Uses no more current than an ordinary light bulb.

Has two to five times the power of other animal clip-pers of this type.

• The ball bearing air cooled motor is enclosed inside the composition handle.

Fully insulated. No ground wire to bother with.

Complete with Universal motor, ABC71M and AB72M cutting blades, 20 feet rubber covered cord and unbreakable rubber wall plug.

AB 21-For 110-120 volts alternating current, any cycle, or direct current...... Each \$17.85

#AB 21/32-For 32 volts direct current.....Each 19.95

#AB 21/220-For 220 volts alternating current ..... .....Each 19.95

Shipping weight 51/2 lbs.

#### SHEARING HEAD

For Use on AB 21 Series Clipmaster

AB 21A-Complete with two combs and four cutters. Weight each 21/2 lbs...... Each \$5.95

#### ENGINE DRIVEN SHEARING MACHINE



STEWART ONE-MAN

#### For Shearing Sheep and Goats

Saves the labor of one man and will shear as many as 150 sheep or goats a day without crowding. Quickly set up and attached to wall or overhead beam by means of two bracket bolts. Thrown in and out of gear by a simple push or pull at the top of the jointed shaft. Engine keeps on running when machine is out of on running when machine is out of gear.

Complete with fast-and-loose pulley clutch bracket, 69-inch jointed shearing shaft, AB 7 Stewart ball bearing hand piece and two AB 276 cutters.

#AB OMS25-Complete. Shipping weight 47 lbs..... Each \$28.95

Complete with fast-and-loose pulley clutch bracket, 69-inch jointed shearing shaft, AB EB Stewart wide shearing hand piece, two AB G287 wide combs and four AB P2311 wide cutters.

\$\pmax\$AB OMS252—Complete. Shipping weight 47 lbs.....

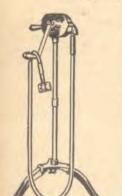
..... Each \$34.95

One in a carton.

#### HAND POWER CLIPPING MACHINES

FOR CLIPPING HORSES, COWS AND MULES

STEWART-BALL BEARING



Turns Easy! Clips Fast!

A sturdy and well built, easy turning clipping machine. Used extensively in this country and abroad.

abroad.

Solid cast iron tripod base, 1inch tubular upright. Painted
black. All gears are cut from
solid steel, run in bath of oil and
housed in dust-proof metal case,
reducing friction to a minimum;
%-inch all steel, flexible shaft,
canvas covered. Cutters or knives
are one nut, balance pressure,
dust-proof type. Height over all
38 inches, width between feet 22
inches.

Equipped with the latest and lighter, improved tension Stewart AB D1 clipping head for faster clipping with lighter tension, and 6 feet of flexible shaft and chain.

AB 1—Weight each 30 lbs. Each \$13.45

Shipped knocked down; one in a case,

#### HAND POWER SHEARING MACHINES

FOR SHEARING SHEEP AND GOATS

STEWART-BALL BEARING



This is the preferred machine for shearing sheep and goats. Easy to turn, shears fast. Built to last in-definitely. Penetrates any kind of wool

Gears cut from solid steel, enclosed in dust-proof metal box and run in bath of oil reducing friction to a minimum. Jointed shaft, 42 inches long, has free movement in any direction. Universal joint %-inch fortible shaft. flexible shaft. Solid cast iron tripod base; 1%-inch tubular upright, painted black. Height over all 38 inches. Width between feet 22 inches.

Complete

with Stewart light running, ball bearing sharing handpiece AB 7, two combs and four cutters.

AB 9-Complete. Weight

45 lbs. ... .....Each \$23.50

One in a wood box.

#### PLEASE NOTE

If a shearing machine is to be used for clipping or a clipping machine is to be used for shearing, a complete attachment is required.

#### SHEEP SHEARING ATTACHMENT



#### STEWART

For Shearing Sheep and Goats

Fits AB 1 and AB 9 hand power clipping machines. Can be put on or removed in a few minutes.

Consists of a complete universal jointed shaft, AB 7 narrow shearing handpiece, 4 AB 276 cutters and 2 AB 277 combs.

#AB 77-Complete attachment.

Weight 10 lbs...... Each \$16.95

One in a wood box.

#### SHEARING HANDPIECE



STEWART

Ball Bearing

Fast shearing, cool running. Scientifically fitted with ball bearings.

Uses any Stewart 10-comb and 3-point cutter. Stewart 10-point Complete with 1 comb and 1

cutter.

#AB 7—Complete. Weight 31/4 lbs. Each \$9.95

One in a wood box.

#### Grinding Hand Power Clipper Plates

This grinding service is furnished for all plates used on Stewart hand-power clipping machines Nos. AB 1, AB 77, AB 7.

#### CLIPPING ATTACHMENT

For use with No. AB 9 shearing machines when horses, mules, cows or dogs are to be clipped.



#### STEWART

Quickly removed or put on. Makes machine doubly useful.

Complete with angle head, 6 feet flexible shaft and chain, ABD1 clipping head fitted with one set of AB90 and AB99 clipping blades.

AB SC1050-Complete. Weight

8 lbs. \_\_\_\_\_Each \$8.25

One in a wood box.

#### Grinding

Hand Power Sheep Shearing Plates For AB 9 Shearing Machine.

Grinding .. ...Per Pair \$0.39

#### CLIPPING HEADS

STEWART

Latest Models



Will fit all Stewart clipping machines except Clipmaster and Shearmaster. Center balanced tension device insures faster clipping with lighter tension. Complete with one set of clipping blades.

AB D1-For clipper shaft with round hole ..... Each \$4.25

AB D2-For clipper shaft with square hole ..... Each \$4.25

Important-Be sure to specify round or square. Weight each 12 ozs.



#### Old Model

Fits only 871A shaft. Supplied on Nos. 1 and 10 clipping machines prior to 1933. Uses only AB 360 and AB 361 clipping blades.

Complete with one set of AB 360 and AB 361 blades.

AB B1-Complete. Weight each 16 ozs..... Each \$4.25

One in a carton.

#### CLIPPING MACHINE PLATES





FOR CLIPMASTER No. AB 21 SERIES
AB C71M—Top Plate. Weight each 2 ozs.....Each \$1.35

AB 72M—Bottom plate. Weight each 4 ozs.

.....Each 1.85





FOR CLIPMASTER Nos. J1 AND J2

AB E1—Top plate. Weight each 3 ozs......Each \$1.35

AB E2—Bottom plate. Weight each 4 ozs....Each 1.85





FOR AB D1, AB D2, AB C1 HEADS

AB 90—Top plate. Weight each 3 ozs......Each \$1.35

AB 99-Bottom plate. Weight each 4 ozs.....Each 1.85





. FOR AB B1 HEAD
AB 360—Top plate. Weight each 3 ozs......Each \$1.85

AB 361-Bottom plate. Weight each 4 ozs... Each 1.85

Packing-bulk.

## WIDE COMBS AND CUTTERS STEWART

For Use on All Wide Shearing Hand Pieces
AAA Wide Cutter



New angles of cutter teeth make this cutter mesh better with the comb for faster, easier, cleaner cutting. You'll get the best results you ever had with

AB 34AB—Weight each 2 ozs......Each \$0.35

20 to a box.



Regular Cutter
It holds the edge. Shaped and finished to give best results with least effort. Patented elongated hole in left tooth to insure perfect fit of fork yoke.

AB P2311—Weight each 3 ozs......Each \$0.40



Regular Comb

AB G287—Weight each 5 ozs. Each \$0.85



AAA Synchronous Comb

The finest quality!

AB P7109—Weight each 5 ozs. ...... Each \$1.00

Packing-bulk.

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1361

#### COMBS AND CUTTERS

STEWART

CUTTING BLADES FOR STEWART SHEARMASTER MACHINE AB 31 SERIES



Top Cutter for Clipping and Shearing AB 4HA—Weight each

1/2 oz. Each \$0.85

COMB FOR SHEARING ONLY

AB 4HB—Weight 2 ozs......Each \$0.75





#### BOTTOM BLADE FOR CLIPPING ONLY

AB 4HC—Weight 3 ozs.....Each \$1.50 Packing—bulk.

racking—blik.

## NARROW COMB AND CUTTER

STEWART

FOR STEWART AB 7 SHEARING HAND PIECE Cannot be used on wide shearing hand piece.



THREE-POINT CUTTER

AB 276—Weight 1/2 oz..... Each \$0.30

TEN-POINT COMB

AB 277—Weight each 2 ozs.... Each \$0.80

Packing—bulk.

GRINDERS





#### HAND POWER

For sharpening, clipping and shearing blades,

Uses abrasive powder No. G8242.

#AB 4A—With shearing plate holder...... Each \$12.00

#AB 4B—With clipping plate holder...... Each 12.50

\*AB 4C—With shearing and clipping plate holders Each 12.75

Weight each 32 lbs.



#### POWER DRIVEN

Light, easy to use.

Includes two discs, pulley bracket, lag bolts, pendulum, cement and brush.

#AB 6A—For clipping blades. Complete with two holders and three No. 100 emery circles.

Each \$23.50

> Weight each 22 lbs. One in a carton.

One in a carton

#### SHEEP SHEARS

#### KEEN KUTTER

#### FOR PROFESSIONAL PURPOSES

#### DOUBLE BOW PATTERN — STRAIGHT BLADES

- · Each blade, shank and half-bow forged from one-piece highest grade crucible steel.
- · Spring tempered riveted bows.
- Finest quality blades-extra tempered, accurately set, ground, sharpened and etched; with swaged back,
- Extra polished blades and grips.



#### PLAIN GRIP

Nos.	Each	Lgth. Blades, In.	Over All, In.	per Dozen, Lbs.
AB KBBASP6	\$1.85	6	13	111/2
AB KBBASP61/2 AB KBBASP7	1.98 2.15	6½ 7	131/2	12 12 1/2



#### NARROW GRIP

Nos.	Each	Lgth. Blades, In.	Over All, In.	per Dozen, Lbs.
	100000000000000000000000000000000000000			
AB KBBNSN6	\$1.85	6	13	111/2
AB KBBNSN61/2	1.98	61/2	131/2	12
AB KBBNSN7	2.15	7	14	121/2

#### SIMMONS PLAIN GRIP

 Each blade and shank forged from 1-piece high grade steel. Carefully tempered, set and sharpened blades, with swaged back—sharp, clean cutting. Blades and grips polished.



DOUBLE BOW PATTERN-STRAIGHT BLADES

- · Each blade, shank and half-bow forged from one-piece high grade steel.
- · Spring tempered riveted bows.
- · Blades carefully tempered, set, and sharpened; with swaged back.
- Polished blades and grips.
- Length of blades 61/2 inches. Length over all 131/4 inches.

AB S8861/2-Weight per dozen 12 lbs...... Each \$1.59



SINGLE BOW PATTERN - BENT BLADES

- · Blades, shanks and spring-tempered bow forged from one-piece steel.
- Blades carefully tempered, set and sharpened; with swaged back.
- · Polished blades, grips and tops of bow.
- Length blades 51/2 inches. Length over all 12% inches.

AB S8751/2-Weight per dozen 91/4 lbs......Each \$1.10

One-half dozen in a carton.

#### SHEPHERD'S CROOKS



JAXON Socket pattern. Mon-tana pattern tapering shoulder, rounded tip. Length over all 11½ inches. Made from ¼-inch double steel spring wire, with 3½-inch steel

with 3½-inch steel socket welded on. Full tinned finish. Without handle. AB 20-Weight per dozen 10 lbs......Each \$0.79

Four dozen in a carton

#### SHEPHERD'S CROOK HANDLES

For No. AB 20 Shepherd's Crooks

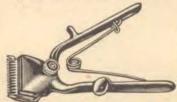
Select (X quality) ash, belted finish; length 8 feet. AB 8—Weight per dozen 27 lbs...... Each \$1.10

Packing-bulk.

#### **FETLOCK CLIPPERS**

FOR HORSES-CATTLE-DOGS

- · Malleable iron handles equipped with finger rests to
- Extra quality crucible steel top and bottom plates.
   Highly tempered. Coarse teeth (8 to inch) to cut hair



#### MODOC

Full nickel-plated. Length over all 5% inches.

Bottom plate 1% inches wide.

AY 820-Weight each 1/2 lb...... Each \$1.49

One in a carton.

EXTRA PARTS FOR No. AY 820 FETLOCK CLIPPER AB 820TP-Top plates ..... Each \$0.50 AB 820BP—Bottom plates......Each .75 .20 AB 820S—Springs Each

Packing-bulk.

#### ROACHING SHEARS KEEN KUTTER

- The correctly curved blades of these handy, easy-working, smooth-cutting shears are ideal for close work and keeping animals well groomed. Big, roomy handles relieve hand fatigue. Patented screw and nut at joint for easy, quick regulating of tension.
- Highest grade steel blades. Smooth, black japanned handles.



Glazed finish blades. Length over all 91/4 inches.

AB K20-Weight per dozen 6 lbs..... Each \$2.35



Highly polished blades. Length over all 81/2 inches.

AB K31—Weight per dozen 51/4 lbs...... Each \$1.85

One-half dozen in a carton.

### HORSE OR MULE SHEARS

SINGLE BOW PATTERN

## KEEN KUTTER



 Blades, shank and bow forged from one-piece highest grade tool steel.

Bow spring-tempered to assure free, easy action.

Extra tempered, set and sharpened swaged back blades.

Blades, grips and bow polished.

Trowel shanks. 4-inch extra polished blades. Length over all 91/4 inches.

AB K100—Weight per dozen 51/2 lbs......Each \$0.79



SIMMONS

grips polished to protect finish.

Plain shanks. 4-inch curved swaged back blades. Natural finish bow. Length over all 9½ inches.

AB S1495—Weight per dozen 51/2 lbs...... Each \$0.59

One-half dozen in a carton.

#### MULE SHEARS



#### KEEN KUTTER

Large, roomy handles and finger rest re-lieve hand strain. Blunt points for safety, make

shears useful for roaching mules.

Highest grade tool steel blades, highly polished—carefully ground and set, riveted to heavy steel black japanned handles with fitted bows. Special screw, securely riveted on end. Length over all 10¼ inches.

AB K167—Weight per dozen 10 lbs.. ....Each \$1.15

One in a cardboard box.



Large, room y handles and finger rest.

Blunt points, for safety, useful for roaching mules. Solid steel bolt

with washer for adjusting tension.

High-grade steel blades, carefully ground and set. Heavy steel black japanned handles with fitted bows. Length over all 10½ inches.

AB 710—Weight per dozen 12 lbs...... Each \$0.79

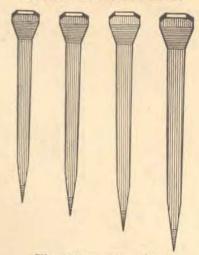
One-half dozen in a cardboard box.

## THERE IS A DIFFERENCE IN KITCHENWARE. Polly Prim

## KITCHENWARE

Is Unusually Good-But Modest in Price

#### HORSE SHOE NAILS



Illustrations Actual Size

#### FRANKLIN-UNION REGULAR PATTERN-FINISHED

Hot forged basic steel,

Nos. ..... CB F6 CR F7 CB F8 Per Lb. \$0.27 .27 .27

5 lbs. in a carton. 25 lbs. in a wood box.

#### MONARCH STANDARD PATTERN-BRIGHT FINISH

A serviceable nail at an economical cost. Cold-rolled basic steel.

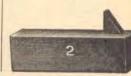
Nos. .....CB M5 CB M6 CB M7 CB M8 Per Lb. ..... \$0.23

5 Lbs. in a paper carton. 25 Lbs. in a wood box.

#### TOE CALKS







Country

City

The same number of toe calk is generally used for the same number of horse shoe. In the cold climate, where there is considerable ice and snow, sharp toe calks are used. Blunt or city toe calks are usually used in large cities where there is heavy traffic, but in the country districts where medium sized shoes are mostly used, the medium or country toe calk is preferred. The medium or country pattern serves the all-around purpose the best.

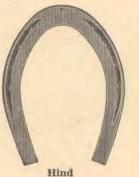
#### BESSEMER STEEL

#### COUNTRY PATTERN

	COUNTRIE	A PARTER	7.4	
-		Size	Size	No.
Nos.	Per Lb.	Nos.	Inches	Per Lb.
CB C2	\$0.17	2	1% x 5%	12
CB C3	.17	3	2 x34	
CB C4	.17	4	21/4×1/8	8
CB C5	.17	5	21/2 x 1/8	5
CB C6	.17	6	234 x+8	4
	CITY P.	ATTERN		
CB X2	\$0.17	2	1%x%	10
CB X3	.17	3	2 x34	7
CB X4	.17	4	214x7/8	5
CB X5	.17	5	21/2 x 7/8	4
CB X6	.17	6	2%x14	3
	Twenty-five poun	ds in a wo		

#### HORSE SHOES





Front

BURDEN Iron. Perfectly shaped. Will give long satisfactory service. LIGHT FRONT

			No.	Weight
		Size,	Per	Each,
Nos.	Per Pair	Nos.	Keg	Ozs.
#CB FO	\$0.25	0	133	12
#CBF1	.25	1	114	14
CB F2	.30	2 3	94	17
CB F3	.30	3	89	20
CB F4	.40	4 5	67	24
CB F5	.50	5	55	29
#CB F6	.60	6	46	35
	LIGH	T HIND		
СВ Н0	\$0.20	0	160	10
CB H1	.25	1	133	12
CB H2	.30	2	107	15
СВ НЗ	.30	3	89	18
CB H4	.35	4	73	22
CB H5	.45	5	62	26
# CB H6	.50	6	53	30
	T. T. C. THEN THE PARTY.	ACCOMMEN	CITETATION	

LIGHT	HIND-	ASSORTED	SIZES

	Assorted Size,	Weight Each,
Per Pair	Nos.	Ozs.
\$0.25	1 and 2	12 and 15
.30	2 and 3	15 and 18
.35	3 and 4	18 and 22
.40	4 and 5	22 and 26
	\$0.25 .30 .35	Per Pair Nos. \$0.25 1 and 2 .30 2 and 3 .35 3 and 4

#### LIGHT FRONT AND HIND ASSORTED HALF FRONT, HALF HIND

Nos.	Per Pair	Size, Nos.	Each,
The second of the second of the second		TAOS.	Ozs.
CB 1FH	\$0.25	1	12 and 14
CB 2FH	.30	2	15 and 17
CB 3FH	.35	3	18 and 20
CB 4FH	.40	4	22 and 24
CB 5FH	.45	5	26 and 29
CB 6FH	.55	6	30 and 35

100 pounds in a keg. SOLD ONLY IN FULL KEGS

#### HORSE AND MULE SHOES

BURDEN

"TOED AND HEELED" OR "FIT UP"



Electrically welded. Made especially to meet the need of farmers, in rural districts, who formerly depended on horseshoe shops.

Ready to put on—all toed, heeled and punched. Made of soft steel which will permit bending with-out extreme heat.

#### HORSE SHOES

#### LIGHT HIND

Nos.	Per Pair	Size, Nos.	No. Per Keg	Weight Each, Ozs.
CB FH2	\$0.45	2	89	18
CB FH3	.50	3	76	21
CB FH4	.65	4	61	26
CB FH5	.75	5	49	33

#### LIGHT HIND-ASSORTED SIZES

Nos.	Per Pair	Asstd. Avge. Size, No. in Nos. Keg	Weight Each, Ozs.
CB FH12	\$0.45	1 and 2 100	141/2 and 18
CB FH23	.55	2 and 3 78	18 and 23
CB FH34	.65	3 and 4 62	23 and 39
CB FH45	.75	4 and 5 52	29 and 321/2

#### LIGHT

Nos.	Per Pair	Size, Nos.	No. Per Keg	Weight Each, Ozs.
CB FM2	\$0.40	2	103	151/2
CB FM3	.45	3	85	19
CB FM4	.60	4	68	231/2

#### LIGHT-ASSORTED SIZES

Nos.	Per Pair		The second second	Weight Each, Ozs.
CB FM12	\$0.40	1 and 2	113	13 and 15
CB FM23	.45	2 and 3	97	15 and 18
CB FM34	.50	3 and 4	78	18 and 24
CB FM45	.65	4 and 5	63	24 and 28
	100 pounds in	a lead		

100 pounds in a keg.

#### SOLD ONLY IN FULL KEGS

#### MULE SHOES BURDEN-IRON



			No.	Weight
Nos.	Per Pair	Size, Nos.	Per Keg	Each, Ozs.
# CB M0	\$0.25	0	178	9
#CB MI	.30	1	133	12
CB M2	.30	2	114	14
CB M3	.30	3	100	16
CB M4	.40	4	70	23
+ CB M5	.45	5	59	27
# CB M6	.50	6	53	30
	100 pound	is in a keg.		

ASSORTMENT OF SIZES 2, 3, AND 4

CB M234-Weight per keg 100 lbs.

#### SOLD ONLY IN FULL KEGS

#### SINGLE TREES

Sturdily made of hickory and fitted with strong wrought irons.



SIMMONS PLOW-EXTRA HEAVY

26 Inches Long Hickory-Wrought Irons-Painted Blue

Width wood at center 2% inches. Center clip 16 inch. End clips in inch. Hooks % inch.

AB 126H-Weight per dozen 48 lbs..... Each \$0.55



PLOW-FULL STRAPPED

Hickory—Wrought Irons—Varnished Width wood at cen-

inch. Ring % inch. Hooks 1% inch. Straps

Nos.	Each	Inches	Dozen, Lbs.
AB 49C26	\$0.75	26	53
AB 49C28	.79	28	55
AB 49C30	.85	30	58



PLOW 26 Inches Long Wrought Clips and Hooks Hickory-Varnished

Width of wood at center 21/4 inches. Center clips 710 inch.

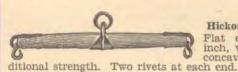
End clips % inch. Hooks & inch. 



PLOW 26 Inches Long Split Hickory-Varnished

Width of wood at center 2% inches. Wrought center clips  $r_0$  inch. Strap ends  $r_0$  inch. Turned point wrought hooks % inch.

#AB 33—Weight per dozen 60 lbs......Each \$0.79



PLOW Hickory-Varnished Flat end straps % inch, with loop ends concaved to give ad-

Width wood at center 2% inches. Center clip  $\frac{7}{18}$  inch. Ring % inch. Hooks  $\frac{6}{18}$  inch.

AB 3512—28 inches long...... Each

Weight per dozen 50 lbs.



WAGON-FULL STRAPPED

34 Inches Long Hickory-Wrought Steel-Varnished

Wrought steel 4-inch wear irons or end straps with two rivets and heavy nails in each end for additional

Width wood at center 2% inches. Wrought center clip % inch. Ring 7 inch. Turned point wrought hooks %

AY 434—Weight per dozen 84 lbs...... Each \$0.89

One-half dozen in a bundle.

SINGLE TREES



PLOW-FULL STRAPPED Hickory-Varnished

These single trees 34 -inch straps with loop ends concaved to add strength. Two rivets at each end and two nails in center.

#### REGULAR

Width wood at center 2% inches. Center clip  $\frac{1}{10}$  inch. Ring % inch. Hooks  $\frac{1}{10}$  inch. AB 3518—28 inches long Each

Weight per dozen 54 lbs.

#### EXTRA HEAVY

Width wood at center  $2\frac{1}{2}$  inches. Center clip  $\frac{1}{2}$  inch. Ring  $\frac{1}{2}$  inch. Hooks  $\frac{1}{2}$  inch. AB 3528—28 inches long Each

Weight per dozen 63 lbs.



inch.

Nos.

PLOW OR WAGON 36 Inches Long Hickory-Varnished Have ½-inch wrought steel wear

irons or end straps with two rivets and heavy nails in each end. Width wood at center 25 inches. Wrought center clip inch. Ring 1/2 inch. Turned point wrought hooks

AB 446-Weight per dozen 80 lbs......Each \$0.95



PLOW-STEEL With Swivel

Special analysis, ex-tra stiff steel, U-bar pattern. Self-locking hooks. Malleable iron loop and hooks. Length,

Wt. Per Each Inches Doz., Lbs. **#AB U248** \$0.79 24 50 **#AB U26S** .85 26 54

One-half dozen in a bundle.

#### DOUBLE TREES



PLOW-STEEL With Swivel 36 Inches Long Special analysis, extra stiff steel, Malleable iron loop

U-bar pattern. Self-locking hooks.

#AB U36S-Weight per dozen 92 lbs......Each \$1.15

One-quarter dozen in a bundle.



WAGON 48 Inches Long Hickory-Painted Red

Wear plate at center hole. Steel lock pins, clevises and loops. Self-colored. Width wood at center 4x2 inches. AB 248—Weight per dozen 155 lbs. Each \$1.35

One-sixth dozen in a bundle.



WAGON-HICKORY

Wrought and malleable irons. Width at in center 18x3 1/2 hold by 18 trope

center 2% inches. Wrought iron ring in center 16x3 inches with %-inch link attachments held by %-inch eye bolts passing through yoke and capped. Malleable end ferrules, with %-inch wrought end rings.

Wt. Per Lgth., Doz., Ins. Lbs.

93

108

Each Finish Ins. \$1.25 Varnished 40 1.25 Painted red 42

One-half dozen in a bundle.

#### NECK YOKE IRONS



Nos.

AB 140

AB 142R

Wrought iron plates, with ½-inch eye bolts, ¼-inch links and 3½x%-inch ring. Holes in top plate 6 inches apart.

AB 9—Weight per dozen 24 lbs. Each \$0.50

In Sets

Two No. AB 8 ferrules, one No. AB 9 neck yoke iron.

AB 14—Weight per dozen sets 48 lbs......Per Set \$0.59

Packing-bulk.

#### NECK YOKE FERRULES



Malleable iron ferrule. Diameter inside small end 1¼ inches, large end 1% inches. With %x3-inch wrought ring.

AB 8-Weight per dozen 8 lbs.....Each \$0.15

Malleable iron ferrule. Diameter inside small end 1% inches, large end 1½ inches. With %x3-inch wrought ring.

AB 8L-Weight per dozen 8 lbs...Each \$0.17

Packing-bulk.

#### POLE CAPS



ROLLED STEEL

Self-colored. 19 inches long. Pole cap and hold back in one piece.

AB 2—Weight each 2 lbs. Each \$0.27

Packing-bulk.

#### SINGLE TREE IRONS

#### SINGLE TREE CENTER CLIPS



Self-Colored
Wrought iron ½-inch round part, Width of flat part 1% inches.

AB 1-Weight per dozen

6 lbs. \_\_\_\_Each \$0.10

#### FOR SUGAR PLANTATION—SINGLE TREES

Wrought iron %-inch round part. Width of flat part 2



Wrought iron fa-inch round part. Width of flat part 21/4 inches. With 1/2 x2-inch wrought ring.

AB 3—Weight per dozen 12 lbs. Each \$0.20

Wrought iron %-inch round part. Width of flat part 3% inches. With ½x2-inch wrought ring.

AB 3H—Weight per dozen 15 lbs..... Each \$0.23

Packing-bulk.

#### SINGLE TREE IRONS



#### SINGLE TREE CENTER CLIPS

Wrought iron 76-inch round part. Width of flat part 2% inches. With %x2-inch wrought ring.

AB 3L—Weight per dozen

7 lbs. \_\_\_\_\_Each \$0.15



#### SINGLE TREE END CLIPS STANDARD

Wrought iron %-inch round part. Width of flat part 1½ inches; ½-inch wrought hook.

AB 4—Weight per dozen

#### HEAVY

Wrought iron  $7_6$ -inch round part. Width of flat part 1%-inch; %-inch wrought hook.

AB 4H—Weight per dozen 6 lbs...Each \$0.15

#### EXTRA HEAVY

Wrought iron  $\frac{1}{2}$ -inch round part. Width of flat part 1% inches;  $\frac{1}{10}$ -inch hook.

AB 4EH-Weight per dozen 10 lbs.....Each \$0.20

#### IN THREE-PIECE COMBINATIONS OR SETS

Nos.	Per Set	Type	Wt. Per Doz., Lzs.
AB 10	Plow—One No. \$0.35	AB 1—Two No. AB 4 Plow	15
AB 11	Wagon—One No.	AB 1S—Two No. AB 4 Wagon	21
AB 15	Plow-One No.	AB 18—Two No. AB 3 Plow	34



#### END FERRULE AND HOOK Malleable Iron

Wrought hook %-inch. Diameter ferrule, small end 1% inches, large end 1½ inches.

AB 12F—Weight per dozen 8 lbs. .....Each \$0.19

Wrought fron hook %-inch. Diameter ferrule, small end  $1\frac{1}{2}$  inches, large end  $1\frac{1}{2}$  inches.

AB 13F—Weight per dozen 9 lbs.....Each \$0.23



#### McPHAIL'S SINGLE TREE CLIP

Patent malleable iron. With loose hook, 1%-inch tree end opening.

AB 25—Weight per dozen pairs 9 lbs......Per Pair \$0.15



#### SINGLE TREE HOOKS

Wrought iron 5-inch

AB 5—Weight per dozen
3 lbs......Each \$0.05

Packing-bulk.

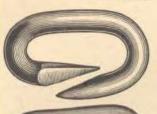
#### SINGLE TREE STRAPS

Bent-Self-Colored



Nos.	Each	Weight Po
AB 565	% Inch Round Part \$0.10	73
AB 566	1/2 Inch Round Part .12 Packing—bulk.	85

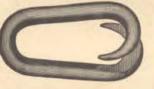
#### PLOW LINKS



#### LAP LINKS END OPEN

Wrought iron, highly polished. Wire %-inch. Size inside 2½ inches.

ABB-Weight per gross 124 lbs. ......Each \$0.15



Each

\$0.10

#### SIDE OPEN

Wrought iron, highly polished.

Size	Size	Wt. Per
Wire,	Inside,	Gross,
Inches	Inches	Lbs.
10	10x21/2	84
5/8	%x21/2	124



Nos.

AB BS%16

Malleable iron, ½-inch thick, 1% inches wide inside, 2½ inches long inside. Length over all 3½ inches.

AB 2800-Weight per dozen 5 lbs. ..... Each \$0.10

Packing-bulk.

#### OPEN LINKS



Nos. AB 10/2

Nos AB AB AB AB AB

AB 10/1



Wrought Iron

	Inside	Wt.
Wire N	Ieasure-	Per
Diam.,	ments,	Gross,
In.	Ins.	Lbs.
1/4	11/4	11
32	11/4	15
in a partor		

One-half gross in a carton.

Each

\$0.02

.03



Bright	Wire			
			Inside	Wt.
		Size 1	Measure	- Per
	Size,	Wire,	ments,	Gross,
Each	Ins.	In.	Ins.	Lbs.
\$0.05	5 x2	200	2	24
.06	%x2	3/8	2	34
.07	%x21/2		21/2	36
.08	3x21/2	76	21/2	55
.09	1/2 x 2 1/2	1/2	21/2	74
Packing	-bulk	-		
	Each \$0.05 .06 .07 .08 .09	Each Ins, \$0.05 \(\frac{7}{10}\times 2\) .06 \(\frac{9}{6}\times 2\) .07 \(\frac{9}{6}\times 2\) .08 \(\frac{7}{10}\times 2\) .09 \(\frac{1}{2}\times 2\) .09 \(\frac{1}{2}\times 2\) .09	Size   Size   Size   Size   Size   Wire,   Each	Inside   Size   Measure   Size   Measure   Size   Wire, ments,   Ins.   Size   Size   Measure   Size   Si

#### COLD SHUTS



#### WITHOUT SHOULDER

Wrought iron. Self-colored. Plain shank.

Nos.	Each	Size, Inches	Iron, Inch	Size Inside, Inches	Wt. Per Doz., Lbs.
AB ¾ AB ¾ AB ¾ AB ¾	\$0.05 .05 .05	4x1½ 4x1¼ 4x1¾ %x2	1/4 116 8/8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1½ 2½
	Two	dozen in a	carton.		
AB <sup>7</sup> / <sub>16</sub> AB <sup>1</sup> / <sub>2</sub> AB <sup>5</sup> / <sub>8</sub>	.06 .07 .10	%x2¼ ½x2½ %x3	7 16 1/2 5/8	2 21/8 23/4	3¼ 5 8½

Packing-bulk.

#### CHAIN REPAIR LINKS



LAP LINKS

Malleable iron, polished. Tested to double the strain they would ever receive when used in connection with harness work.

Nos.	Each	Iron, Inch	Length Over All, Inches	Weight Per Doz., Lbs.
AB 100	\$0.10	1/4	2	11/4
AB 150	.12	7.6	236	21/2
AB 200	.15	3/8	234	4
AB 300	.35	1/2	3%	61/2
Packing:	100 and 200 and	150—two doze		earton.



#### ACCO UTILITY

High-grade wrought iron. Coppered Finish

One dozen of the most frequently used repair links, for repairing chains of all kinds. Put up in a handy box. They are strong, easy closing and have long overlaps.

Box Contains: Diameter Inside Size, Size Closed, Quantity Iron, In. Inches Inches 2 10 114 x % 1%x1 11/4 X 18 4 1/4 1%x1+ 2 52 1%x% 118 x1 1/8 2 11/2×1/8 24x1% 1%x% 2%x11/2 AB A12-Weight per dozen boxes 17 lbs. ..... ...Per Box \$0.25

One dozen boxes in a carton.

#### CONNECTING LINKS



Malleable Iron

Nos.	Each	Measure- ments, Inches	Weight Per Doz., Lbs.
AB 25313/16	\$0.10	1,5x 15	1/4
AB 25311/4	.10	1½x1	34
AB 25315/16	.12	1+1×1,0	1
AB 2531 3/8	.15	$2\frac{1}{10}x1\frac{1}{10}$	2
AB 25317/16	.15	23/8 x 19	31/8
AB 25311/2	.17	2%x1%	41/2
100	One dozen in	a carton	100

#### MALLEABLE CLEVISES





Nos. AY 335 to AY 379

Nos. AY 395 to AY 440

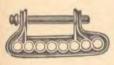
#### DOUBLE TREE SCREW PINS

Nos.	Each		Depth Inside, Inches		Per Doz., Lbs.	
AB 335	\$0.12	2	3	41/2	83/4	
AB 347	.15	2	5	61/2	13%	
AB 368	.15	21/4	4	51/2	121/2	
AB 379	.19	21/2	41/4	6	14%	
AB 395	.17	2	31/4	41/2	121/2	
AB 410	.15	21/2	31/4	436	14	
AB 4101/4	.15	21/4	31/4	41/2	14	
AB 420	.23	2	434	6	141/2	
AB 427	.23	21/4	41/4	6	171/4	
AB 430	.23	21/2	41/2	6	171/2	
AB 432	.25	21/2	5%	7	1934	
AB 440	.35	21/2	61/2	81/2	20	



#### END-SCREW PIN

Opening, Inch	Inch Clear	Length Over All, Inches	Wt. Per Doz., Lbs.
3/8	114	2 1/8	5
1	1%	31/2	71/2
1	2	3%	12



AB 2810S

AB 2815S

Inside Lugs 3½-Inch Length over all 6½ inches. 8 holes. AB 2832C—Weight per dozen 14¼ lbs......Each \$0.19

Packing-bulk.

.12

.15

#### STREET CHAVISES

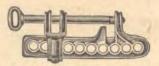


#### ROUND STEEL

Double tree. Screw pin. Oval band. %-inch pin.

Nos.	Each	Width Inside, In.	Depth Inside, In.		Wt. Per Dozen, Lbs.
AB 12R	\$0.25	2	4	5%	17
AB 14R	.29	21/4	5	5/8	19
AB 17R	.33	21/6	6	5/8	22
AB 25R	.49	3	8	84	36
	Pa	cking—bull	ε.		

#### MALLEABLE CLEVISES



#### STOWELL'S CROSS

Adjustable from 1 inch to 4½ inches. Inside lugs 8 inches long. 10 holes.

AB 3000—Weight per dozen 20 lbs..... Each \$0.25



#### DOUBLE-TREE—FLUTED PATTERN

Twisted end. Loop head screw pin. Opening 2 inches. Clear 3 inches. Extreme length 5 inches. AB 334—Weight per dozen

13% Ibs. \_\_\_\_Each \$0.19



#### FERGUSON PLOW %-Inch Pin

Beam 2¼-inch. 4 inches from center of wrench to end of beam. 1¾ inches between ears. Extreme length 6 inches.

AB 2834 Weight per dozen 11 lbs...... Each \$0.17



#### PLOW FITS FERGUSON ATLANTA PLOWS

Beam 2 inches. 4 inches from center of wrench to end of beam. Extreme length 5% inches.

AB 2837—Weight per dozen 8 lbs.... Each \$0.15

(Fits A, O, ½, 8, 1, P and all southern one-horse plows.) Beam 2¼ inches. 3½ inches from center of wrench to end of beam. Extreme length 5¼ inches.

AB 2840—Weight per dozen 12 lbs......Each \$0.15

NON CROSSABLE THREAD

# SWIVEL END—SCREW PIN %-inch opening. 1½-inch eye. Extreme length 5 inches.

AB 2516A—Weight per dozen 14 lbs......Each \$0.19

68

#### END-SCREW PIN

%-inch opening. 2%-inch clear. Extreme length 3% inches.

AB 2821—Weight per dozen 8½ lbs......Each \$0.13

#### TRACTOR CLEVISES



#### MONTICELLO

Unbreakable drop forged round steel, rich green enameled. Pin secured by cotter pin.

Nos.	Each	Size Opening, In.	Size Steel, In.	Size Pin, In.	Wt. Per Dozen, Lbs.
AB 45M	\$0.40	11/4×5	34	56	26
AB 46M	.57	1½x5	7/8	84	36
	1	Packing-bul	k.	-	-

#### PLOW HANDLES



#### STRAIGHT

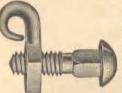
Straight grained oak 14x2 inches. Thoroughly a i r dried. Hand hold finished, balance in the rough.

Walmht

Length. Wt. Per

Per Pair	Feet	Doz., Lbs.
\$0.59	41/2	34
.65	5	38
One dozen in a	bundle.	

#### HEEL BOLTS



Nos. AB 1241/2 AB 125

> Malleable iron bolt with square shank and button head 1% inches in diameter. Malleable iron tail mut

- Committee		Size.	Each.
Nos.	Per Dozen	Inches	Lbs.
AB MI	\$0.12	%x21/2	3/4 3/4
AB M11/2	.13	%x2%	
AB M2	.15	%x31/2	% 1
АВ МЗ	.17	%x41/2	1
	One hundred in a	bag.	

#### RUB IRONS

#### Wrought Iron



Length 5½ inches, width 2½ inches, thickness ½ inch. With ¼ inch thick rub part.

AB 52-Weight each 2 lbs ....

Packing-bulk.

#### WAGON STAKE IRONS

Pressed Steel



Natural finish. Length over all 7½ inches. %-inch bolt holes. For 114x314 inch stake. Depth 114 inches.

AB 75—Weight per dozen 9 lbs.....Each \$0.10



Natural finish. Length over all 7½ inches. %-inch bolt holes. For 114x31/2 inch stake. Depth 21/2

inches.

AB 77—Weight per dozen 12 lbs......Each \$0.10

Tapered, painted blue. Length over all 6 inches with %-inch square bolt holes. For 3x1%-inch stake, 3 inches

AB 1947B—Weight per dozen 12 lbs...... Each \$0.10

Packing-bulk.

#### WAGON BOW STAPLES



Wrought-Self-Colored To Rivet On

Width 2 inches.

AB 2R—Weight per gross 11% lbs......Each \$0.05

One-half gross in a carton.

#### WAGON BOX STRAP BOLTS



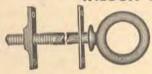
#### HALF OVAL PATTERN

Wrought iron. Length shank 31/4 inches. Length Diameter

Nos.	Per Set	Over All, Inches		Set, Lbs.
AB 710	\$0.89	10	1/2	4
AB 812	.95	12	1/2	41/9
AB 912	1.10	12	10	6
AB 914	1.15	14	16	61/2
AB 1012	1.10	12	5/8	7
AB 1014	1.15	14	5/8	71/2
AB 1016	1.29	16	5/8	8

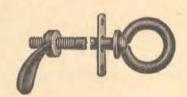
One set wired in a bundle.

#### VAGON BOX RODS



FOR WAGON BOX OR END GATE, WITH PATENT SHOULDER

Nos.	Each	Track -	Dia., Inch	Lgth., Feet	Bundle, Lbs.
AB 3A	\$0.23	Narrow	3/8	31/4	36
AB 3B	.23	Medium	3/8	31/12	40
AB 4B	.27	Wide	3/8	3 %	43
AB 2A	.29	Narrow	70	314	50
AB 2B	.29	Medium.	70	37/12	55



Nos.	Each	Track	Dia., Inch	Lgth., Feet	Wt. Per Bundle, Lbs.
AB 5A	\$0.27	Narrow	3/8	31/4	40
AB 5B	.29	Medium	3/8	37/12	45

Twenty-five rods in a bundle.

#### WAGON BOX ROD HANDLE NUTS



Malleable Iron-Self-Colored Tapped or Threaded Length 3% inches.

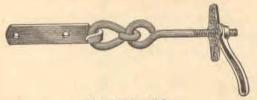
AB 38T-For % inch rod...... Each \$0.05

AB 76T-For 7/16 inch rod...... Each

Packing-bulk. Weight per dozen 1% lbs.

# FINE WORKMANSHIP BUILDS FINE KEEN KUTTER TOOLS

#### END GATE FASTENERS



#### MONTIGELLO

Suitable for use on all standard size regular grain and vegetable wagon boxes and home-made truck bodies. Easy to install!

Each set consists of four wrought steel end straps %x1x5% inches and four eye bolts with extra links. Tail nuts and washers. All painted green, Length (eye bolt and link) 10% inches.

AB 3EGS-3/s inch eye hook bolts......Per Set \$0.98

AB 4EGS-7/16 inch eye hook bolts......Per Set 1.19

One set (4) in a bundle.

Weight per dozen sets 54 lbs.

#### SIDE BRACES



Wrought iron, finished complete. Length 15½ inches.

Set of 8, wired.

Per Set	of Round Part, Inches
\$1.19	18
1.39	1/2
1.79	10

Packing-bulk. Weight per set 8 lbs.

#### COTTON FRAME CLAMPS



Nos. AB 95A

AB 95B AB 95C

Used in the construction of cotton frames, which requires eight clamps to the set.

One-piece wrought iron clamp, 70-inch in diameter. Inside width 2% inches. Inside length 10½ inches. Wrought iron clip tie ½-inch thick, 1 inch wide. Complete with nuts.

AB 101/2-Weight per 100,

125 lbs. ..... Each \$0.17

Packing-bulk,

#### AXLE GREASE



#### FRAZER'S CROWN-MICA

A perfect lubricant for carriages, carts, wagons, water wheels.
Only the finest grade of materials used. Will not gum or run from the axle. Prevents rust or tarnish on polished metal surfaces. Very

Nos. Each Quantity, Wt. Per in Tin Doz., Lbs.

AB CM1 \$0.15 1 lb. 14 AB CM3 .39 3 lbs. 45

economical.

Packing: AY CM1—three dozen in a case.

AY CM3—two dozen in a case.

## WAGON UMBRELLAS KEEN KUTTER

This is an ideal double purpose umbrella!

Besides being an efficient sun shade and rain protector, it is also an impressive advertising medium.

Made with six panels, three white, three yellow. KEEN KUTTER trade mark is printed in red on three white panels. Customer's advertisement (not exceeding 6 words or 40 letters) printed on three yellow panels.

#### YELLOW AND WHITE COMBINATION ONLY SAME ADVERTISEMENT PRINTED ON THREE YELLOW PANELS



#### Standard Spread 66 Inches

Removable Cover—made of heavy serviceable cotton drill. Solid Steel frame. Cadmium plated to resist rust. Six heavy detachable steel ribs. Ribs and stretchers specially tempered with hook ends to engage solid steel edge in top notcher and runner, eliminating bothersome tie wires. Metal rib receptacle is securely riveted to leather base and sewed to cover or under side.

Handle—Extra selected hardwood, oil finished, 11/2 inches in diameter.

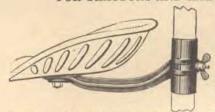
Complete with latest improved seat and floor fixtures—all metal parts japanned.

AB 10-Weight per dozen 84 lbs.....Each \$4.35

Packing-bulk.

#### UMBRELLA BRACKETS

FOR TRACTORS AND HARVESTERS



This is an ideal fixture for attaching a wagon unbella to the standard implement seat. Holds umbrella directly over the seat. After bracket is once installed um-

brella can be attached or removed without tools.

Cast metal arm and clamp, with thumbscrew—black enameled.

AB H-Weight per dozen 10 lbs...... Each \$1.25

Packing-bulk.

# Oolly Orim

Does the Work Well

Costs So Little

#### BALL BEARING JACK SCREWS

SIMPLEX-LOCOMOTIVE

Every part made extra strong for heavy lifting!

#### Lacquered in Colors

Gray iron standard, with open hand hole which permits seeing how high the screw can be run out, a valuable safety feature. Drop forged and heat-treated cap, with diamondshaped top and retaining pin. Chrome molybdenum ball reduces friction, increases power and prevents jack from twisting under the head. Steel forged screw and head, with accurate machine-cut threads.

Nos.	AB1	AB 2	AB 3	AB 11	AB 13	AB 17
Lifting Cap., Tons	10	12	16	12	16	20
Diameter Screw, In. Total Height	11/4	11/4	1%	11/2	1%	2
Closed, In. Total Height,	14	161/4	181/4	141/4	1414	121/4
Extended In	22	26	291/2	22	221/2	171/4
Color	Green	Red	Light Blue	Red	Light Blue	Dark Gray
Wt. Each, Lbs.	15	21	30	17 3.95	22 4.85	22 5.25
Each	\$2.95	4.35	5.65	3.90	4.00	0.40



#### Packing-bulk. SIMPLEX-JUNIOR

A sturdy little jack for use around the house, garage, farm and shop. Will lift any auto or motor truck without danger of tipping or collapsing. The hand hold permits the screw to be in sight at all times and eliminates the

to be in sight at all times and eliminates the danger of raising too high.

Lacquered assorted colors red, blue and green. Complete with forged heat-treated lever bar ½x14 inches. Attractively finished with genuine lacquer, preventing corrosion. Diameter screw 1 inch. Height over all closed 8 inches. Height over all extended 12½ inches.

Capacity 4 tons.

Weight per box 35 lbs.

One-half dozen, 2 red, 2 blue and 2 green in a box.

#### **#GEARED JACKS**

SIMPLEX—SINGLE ACTING



For the easy handling of re-frigerator and railroad cars, locomotives or for heavier in-

dustrial work.
Operates on down-stroke of lever, raising or lowering rack bar on each stroke of lever. Raising or lowering movement of rack bar is governed by indicator at side of jack. Straight grained hard maple pole.

Malleable iron standard and gear case, with drop carrying handles. Drop forged steel

handles. Drop forged steel ratchet wheel pinion and cap. Chrome nickel steel rack bar and pawls, Steel bushings and keys. Bronze bearings. Crucible steel lever socket. Heavy trunnion bearing and lever socket rotate in hardened steel. Closed-end, lubricant-retaining bushings. Grease cups provided where necessary. Pawls are locked under all circumstances so that load cannot be dropped. under all circumstances so that load cannot be dropped. Lift 161/2 inches. Height closed 27 inches. Rack bar 21/4 x2

inches. Length pole 6 feet. Lifting capacity 25 tons.

Packing-bulk.

#### **\*TRACK JACKS**

SIMPLEX

For heavy track, ballast and crossing work. Massive construction for hard, abusive work.

Recommended and adopted by the Roadmasters and Maintenance of Way Association for their efficiency, economy and construction.

The mechanism locks working parts in every position, preventing dropping of load.

Malleable iron standard. Drop forged steel rack bar and pawls. Steel bushings and keys. Crucible steel lever socket. Straight grained hard maple poles.

#### DOUBLE ACTING TRIP

Operates on up or down-stroke of lever and trips at any position. Lift 17½ inches. Height closed 29 inches. Rack bar 1%x1% inches. 51/2-foot pole.

Lifting capacity 15 tons.

#AY 106S-Weight each

70 lbs. ..... Each \$28.75

For bridge and construction work, public utilities, contrac-tors, railroads, boiler and machinery movers and riggers.

#### SINGLE ACTING

Operates on down-stroke of

Heavy trunnion bearing and lever socket rotate in hard-ened steel. Closed-end, lubricant retaining bushings.
Reversing device and side
changes directions of operation when revolved in halfcircle.

Lift 11½ inches. Height closed 22½ inches. Rack bar 1½x1½ inches. 6-foot oval hickory pole,

Lifting capacity 15 tons.

#AY 24S—Weight each 91 lbs..... Each \$42.75

Packing-bulk.

#### **\*POLE JACKS**

SIMPLEX-COMBINATION CRANE AND JACK

For pulling up telephone and telegraph poles. Also for railroad and industrial service.



Operates on down-stroke of lever and can be raised one notch at a time. Pivots on its own base from 30 to 90 degrees to the horizontal, and lifts, lowers, pushes and pulls at any angle. Malleable iron standard and base. Standard rests on two curved shoulders. Held in position with studs. Drop forged steel lever sockets and pawls. Chrome nickel steel drop forged rack bar with corrugated cup and "V" bar with corrugated cup and "V" notched side which will quickly engage wooden beams or boxes., and maintains firm contact against metal surfaces when pushing at any angle. Steel bushings and keys. Massive trunnion bearings and lever socket rotate in hardened steel. Closed-end, lubricant-retaining bushings. Lift 23 inches. Height, closed 29 inches. Rack bar 1½x1¾ inches.

Complete with 8-foot steel chain with grab hook, 5-foot combination steel lever, pinch bar and car mover. Also one 2-foot, 25-lb. "I" beam base support 10 inches wide, to prevent slipping and act as a substantial foundation for base of jack where ground is soft or hollowed.

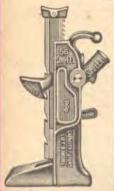
Lifting capacity 15 tons.

#AY 329-Weight each 95 lbs..... Each \$71.75

Packing-bulk.

#### \*INDUSTRIAL JACKS

SIMPLEX—SINGLE ACTING



For automobile trucks, heavy cartage, tractors, agricultural and general service.

Operates on down-stroke of lever. The arc of travel of lever bar per-mits use under every type of truck or van or in confined spaces,

Malleable iron standard. Drop forged steel "H" beam rack bar with adjustable shoe that can be raised or lowered on rack, locking firmly at any position. Drop forged steel pawls. The mechanism locks working parts in every position, preventing dropping of load. Steel bushings and keys. Drop forged steel lever socket. Heavy trunnion bearing lubricant retaining bushings. Reversing lever on side changes direction of operation.

Lift 101/2 inches. Height, closed 17 inches. Rack bar 2x11/2 inches.

Complete with 5-foot steel lever bar.

Lifting Capacity 10 Tons

\$AY 56S-Weight each 40 lbs.....Each \$27.50



For mining, agricultural and factory service.

Operates on down-stroke of lever. Highly efficient for severe duty. Malleable iron standard. Drop forged steel rack bar and pawls. Pawls are interlocked, preventing dropping of load. Steel bushings and keys. Drop forged steel lever socket folds into vertical position when not in use. Heavy trunnion bearing and lever socket rotate in hardened steel closed-end lubricant-retaining bushings. Reversing deretaining bushings. Reversing de-vice on side changes direction of operation when revolved in halfcircle.

Lift 10% inches. Height, closed 17 inches. Rack bar 11/4 x11/4 inches.

Complete with 3-foot steel chisel point lever bar.

Lifting Capacity 5 Tons

#AY 85S-Weight each 32 lbs...... Each \$17.50

Packing-bulk.

#### CAR MOVERS

#### NEW BADGER-HEAVY DUTY



Made for extremely severe service. Only the finest tested materials used throughout. Will stand up under any conditions.

Fitted with long faced toggle that turns the wheels for-ward, combined with a high long stroke of handle that long stroke of handle that will move heavily loaded cars.

Certified malleable iron castings of highest tensile and ultimate strength. Slip-proof double construction spurs of special steel, rolled for the purpose and carefully hard-ened and oil drawn. Selected Wisconsin rock maple handle, straight grained and turned oversize.

Length over all 70 inches.

AY 2—Weight each 18 lbs......Each \$8.75

Packing-bulk.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

#### BREAST CHAINS GENNE 1000340

AJAX-BRIGHT FINISH

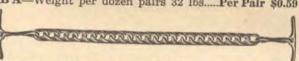
Easily shortened by taking up the links successively and dropping one or more. The snap or saddle shaped connection in the center of the chain reduces the usually great wear of chain and neck yoke rings. The length of the center breast chain snap and end snaps are included in the measurement of the chain. Weight

Nos.	Per Pair	Per Dozen Pairs, Lbs.
AB 218	Length 28 Inches—%2 Inch Wire \$1.19	
AB 220	Length 32 Inches—%2 Inch Wire 1.29	
	~~~~	_ 1

WESTERN STANDARD, SINGLE

Steel chain, bright, welded twist links, with malleable iron toggles. 8 links to the foot. 4-inch wire.

26-8-2-Length 26 Inches AB A-Weight per dozen pairs 32 lbs....Per Pair \$0.59



WESTERN STANDARD, DOUBLE, SLACK OR STAR Steel chain, bright, welded twist links, with malleable iron loggles Length 26 inches, 72-inch wire.

AB D26—Weight per dozen pairs 40 lbs...Per Pair \$0.98

Packing-bulk.



Weldless steel chain, with welded ring. Wire toggle and snap.

LENGTH 4½ FEET—BRIGHT FINISH

		wire	
22		Gauge,	Weight
Nos.	Each	Nos.	Doz., Lbs.
AB 3/41/2T	\$0.19	14	4
AB 6/41/2T	.17	17	234
LENGT	TH 6 FEET-BRI	GHT FINIS	H
AB 2/0-6T	.29	10	16
AB 0-6T	.23	11	11
AB 1-6T	.23	12	9
AB 2-6T	.23	13	71/6
AB 4-6T	.19	15	51%
AB 6-6T	.19	17	23/4

LENGTH 6 FEET—GALVANIZED FINISH—

	AU CHACOM	Wt. Per	List.
Nos.	Each	Doz., Lbs.	Each
AB 2-6TG	\$0.23	71/2	\$4.00

Nos. AB 2/0-6T and AB 0-6T one-half dozen. All other numbers one dozen in a carton.

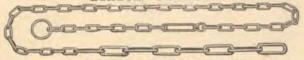
# STRETCHER CHAINS

REGULAR PATTERN-%-INCH WAGON Welded straight links, forged hook. Bright finish. Length over all 60 inches. 5 links to the foot.

AB 38W-Weight per dozen 106 lbs.....Each \$1.49

500 lbs. in a cask.

#### TRACE CHAINS



No. AB XW-ELECTRIC WELDED

Steel chain, bright, straight links, welded ring. Malleable swivel

		Actual No.	Gauge	Size	Wt. Per	Chain
Length,	Per	Links	Wire,	Wire,	Pair,	Tested
Feet	Pair	to Ft.	Nos.	In.	Lbs.	to Lbs.
61/2	\$0.79	8	2	1/4	63/4	1000
7	.79	8	2	1/4	7	1000
7	.98	8	1	0 32	9	1200
7	.89	10	2	1/4	71/4	1100
7	1.10	10	1	32	91/2	1400
7	\$1.49	10	0	y <sup>5</sup> a	12	1900
71/4	1.10	8	1	200	10	1200
714	1.59	10	0	ADE.	12%	1900
8	1.69	10	0	10	1314	1900

When ordering-state number, length feet, number of links and gauge wire.

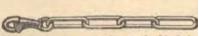
Six pairs of any size in a canvas bag, with size and quantity stenciled on outside of bag.

#### HEEL CHAINS



Steel chain, welded links. Bright finish. Malleable iron swivel dee, with screw pin. 6 links in a chain, 1%-inch wire. Length over inch wire. L all 15 inches.

	- 1	Size	Weight
100	Per	Dee,	Per Doz.
Nos.	Pair	Inches	Pairs, Lbs.
AB 45/11/2	\$0.69	11/2	30
AB 45/13/4	.69	134	31
14	One dozen pairs in	a bundle.	



Steel chain, welded links. Bright finish with snap.

Four links in a chain, each 34x3 inches inside. wire. Yankee snap 4 inches long, with %-inch round eye. Length over all 15½ inches.

AB 25H-Weight per dozen pairs 25 lbs...Per Pair \$0.65



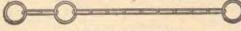
Steel chains, welded links. Bright finish. Wrought swivel. 8

links in a chain, each %x2 inches inside. %1-inch wire. Length over all 18 inches.

AB 61/1-Weight per dozen pairs 32 lbs. Per Pair \$0.59

One dozen pairs in a bag.

#### TONGUE CHAINS



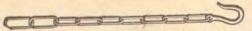
REGULAR PATTERN

Steel chain. Welded links and rings bright finish. wire. Straight links. In Length over all 33 inches. Inside diameter rings 21/2 inches.

AB ST-Weight per dozen pairs 68 lbs....Per Pair \$0.98

Packing-bulk.

#### STAY CHAINS

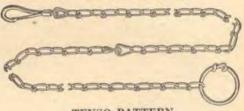


Steel chain, welded straight links. Bright finish. Forged hooks.

Length Wt. Per of Chain, Dozen, Size. Inches Lbs. Inch Nos. Each \$0.35 26 30 AB 516 34 26 39 AB 38 .49

Packing-bulk, about 500 lbs. in a barrel.

#### TIE-OUT CHAINS



#### TENSO PATTERN

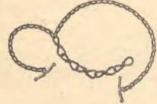
Weldless steel wire chain. Strong ring, snap and swivel

BRIGHT GALVANIZED FINISH Wire Doz. Wt. Per Lgth., in Dozen. Size Gauge Nos. Barrel Lbs. Each Wire Fit. Nos. 74 3/0 30 9 6 AB 3/030 \$0.98 44 2/0 20 10 11 AB 2/020 59 64 2/0 10 7 AB 2/030 .89 30 2/0 50 10 436 105 AB 2/050 1.19 20 11 12 34 0 AB 0/20 .49 AB 0/30 30 11 9 49 .59 0 5 81 50 11 AB 0/50 .98

		BRIGHT	LIMIS	Wire	Doz.	Wt. Per
		Size	Lgth.,	Gauge		Dozen
Nos.	Each	Wire	Ft.	Nos.	Barrel	Lbs.
AB 2/020B	\$0.55	2/0	20	10	11	44
AB 2/030B	.79	2/0	30	10	7	64
AB 0/20B	.45	0	20	11	12	34
AB 0/30B	.59	0	30	11	9	49

One in a canvas bag.

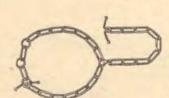
#### COW TIES



#### OHIO PATTERN

Tenso weldless wire chain with wire toggles. Bright finish. Neck-piece consists of 5 large links giving 5 adjustments. All large links on yoke side.

Non	Wash	Class	Length,	Gauge	Per Dozen
Nos.	Each	Size	Feet	Wire	Lbs.
AB A2/0	\$0.23	2/0	41/2	10	16
AB A3/0	.27	3/0	41/2	9	18
	One-half	dozen in	a carton		



#### STANDARD EL-WEL-CO-TIE OHIO PATTERN

welded links finish. Will no Smooth Bright finish. chafe. Wire toggles and three welded rings for adjustment. Malleable swivel

WY

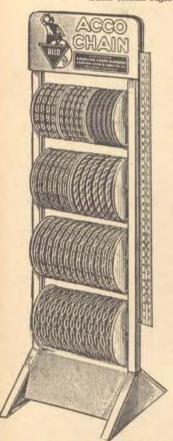
WH Do

Nos.	Each	Size	Length,		Dozen Lbs.
1402.	ENGLIST	C21X/C2	E CCE	TO E L	WHITE.
AB C2/0	\$0.25	2/0	41/2	6	16
AB C3/0	.29	3/0	41/2	6	19

Packing-bulk, about 25 dozen in a barrel.

#### CHAIN ASSORTMENT

Sells chain right off the reel! Here is a chain department in less than two square feet.



#### ACCO CHAIN Sales-maker

Displays your chain stock attractively and acts as a reminder to buy. The double-faced sign will be visible in nearly any position in your store.

#### Stand

Display rack heavy sheet steel welded to-gether, lithographed gether, lithographed blue with yellow lettering.

Height 53 inches, depth 18 inches, width 16 inches. Com-pact, easy to handle, long lasting. Chains are put up on reels to be placed on rack and unreeled, measured and cut as desired.

#### Yardstick

high-grade shellacked yardstick hangs conveniently from the side of the stand for measuring chain.

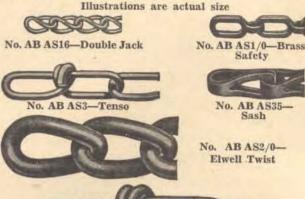
#### Chain Assortment

Consists of seven popular types and sizes of chains, one reel of each listed in next

Display Rack and Chain Assortment

AB 38-Weight-stand 25 lbs, chain 141 lbs.; complete 166 lbs.





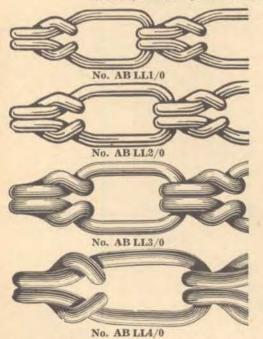


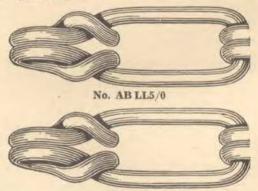
No. AB AS3/0-Lock Link

	V	Veight	
Quan- tity,		Per Reel,	Tensile Strength,
Ft.	Finish	Lbs.	Lbs.
200	SRP	9	25
200	Bright		-
	or Plain	n 5	150
200	SRP	14	375
100	SRP	7	500
175	SRP	33	1205
75	SRP	28	1510
125	SRP	35	1753
	tity, Ft. 200 200 200 100 175	Quantity, Ft. Finish 200 SRP 200 Bright or Plain 200 SRP 100 SRP 175 SRP 75 SRP	Quantity, Ft. Finish Lbs. 200 SRP 9 200 Bright or Plain 5 6 200 SRP 14 100 SRP 7 175 SRP 33

#### COIL CHAIN

For many general uses, such as light conveyors, rolling shutters, folding doors. Lies flat, is smooth, flexible and permits many adjustments.





No. AB LL6/0

LOCK LINK PATTERN. WELDLESS-S.R.P. FINISH Gauge Tensile Wt. Per Strength, 100 Ft., Nos. Nos. Per Ft. (W. & M.) Lbs. Lbs. **#AB LL1/0** \$0.041/4 11 1055 17 # AB LL2/0 .043/4 1545 21 10 # AB LL3/0 # AB LL4/0 .06 26 9 1753 .07 8 1915 31 .081/2 **#AB LL5/0** 2440 35 #AB LL6/0 .10 6 2940 41 100 feet in a carton.

## HAI



#### ON REELS

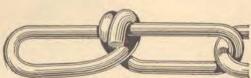
Hot galvanized wire weldless chain, durable and rustproof.

Uniform and smooth. Adaptable to a variety of uses, such as for porch swings, ham-mocks, boats, halters, tie-out and well chains.

In reels of 250 feet, in wire-bound crate from which chain can be unreeled without removing reel from crate.







No. AB GR3/0

Nos.	AB GR1/0	AB GR2/0	AB GRS
Size	0	2/0	3/0
Wire Gauge Nos.	11	10	9
Size Links, In.	2	21/8	21/2
Wt. Per Reel, Lbs.	40	50	60
Tensile Strength,			
Lbs.	1000	1205	1280
Per Foot	\$0.041/2	.043/4	.06
	250 feet on a	reel.	

#### WELL CHAIN



GALVANIZED 8-GAUGE WIRE, WITH WELDED JOINTS-LINKS TWISTED

AB 1W-Weight per 100 feet 25 lbs....Per foot \$0.071/2

500 to 600 feet in a keg.

#### PUMP CHAIN



No. 6-gauge wire. Without buttons.

GALVANIZED AFTER MAKING

AB G100-Weight per 100 feet 27 lbs....Per foot \$0.04

100 lbs. in a bag.

A general purpose chain suitable for porch swings, for

general ha	rdware	manufa	cturing a	and agr	icultur	al pur-
No. AB B5			P		D	更
No. AB B3		- T	0			R
No. AB B1				R		The state of the s
No. AB B1/0						
Nos. AB B2/0 AB SRP2/0						
No. AB B3/0						N
No. AB B4/0						Q
				a Call		
					7	

	BRIC	HT FINIS	H	
		Gauge	Tensile	Weight
	Per	Nos.	Strength,	Per 100
Nos.	Foot	(W. & M.)	Lbs.	Feet, Lbs.
#AB B5	\$0.021/2	16	260	31/2
AB B3	.021/2	14	375	5 3/4
AB B1	.023/4	12	785	10
AB B1/0	.03	11	1000	13
AB B2/0	.031/2	10	1205	17
AB B3/0	.04	9	1280	20
#AB B4/0	.043/4	8	1500	23
<b>#AB B5/0</b>	.06	7	1850	26
	100 feet	in a packa	age.	

GALVANIZED AFTER MAKING-TEN GAUGE WIRE (W. & M.)-TENSILE STRENGTH 600 LBS.

AB SRP2/0-Weight per 100 feet

17 lbs. Per Foot \$0.03

250 feet in a carton.

#### SOLD ONLY IN FULL LENGTHS.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

/0

No. AB B5/0

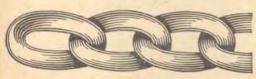
# MACHINE CHAIN



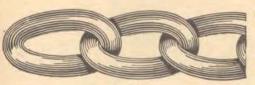
No. AB M1



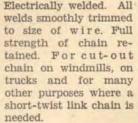
No. AB M1/0



No. AB M2/0



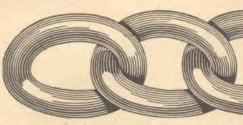
No. AB M3/0



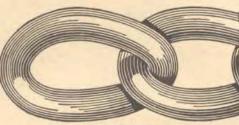
Nos. AB M2 to AM M6/0 -100 feet in a carton.

> Nos. AB M7/0 and AB M9/0-100 foot lengths bulk,

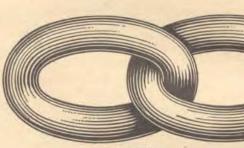
Sold Only in Full Lengths



No. AB M6/0



No. AB M7/0



No. AB M9/0

Weight

No. AB M4/0	



No. AB M5/0

			Gauge		
Nos.	Per Foot	Size	No.		
AB MI	\$0.071/2	1	8		
AB M1/0	.08	1/0	7		
AB M2/0	.08	2/0	6		
AB M3/0	.081/2	3/0	5		
AB M4/0	.091/2	4/0	77		
AB M5/0	.141/2	5/0	44		
#AB M6/0	.17	6/0			
+AB M7/0	.20	7/0	**		
<b>‡AB M9/0</b>	.27	9/0	44		

Size	Gauge No.		. No. Links to Foot		- Control of the Control
1	8	5+	201/2	1140	25
1/0	7	H	171/2	1310	29
2/0	6	130	161/2	1510	34
3/0	5	12	15	1760	40
4/0		72	14%	1990	50
5/0	44	1/4	14	2660	64
6/0		33	13	3420	78
7/0	**	16	101/4	4260	94
9/0	4	3/8	91/4	6060	136

#### PASSING LINK CHAIN



No. AB PL3/0

Used largely for tying out cattle and for other agricultural and general utility purposes.

The links of this chain are especially wide permitting free action and the passing of one link by the other. Will not kink.

#### ELECTRIC WELDED STEEL-BRIGHT FINISH 14 LINKS TO THE FOOT

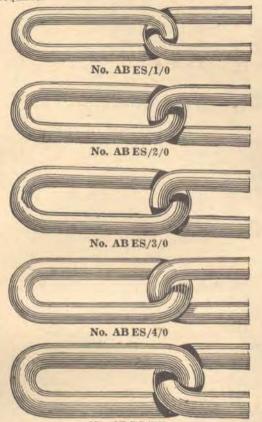
Nos.	Per Foot	Wire Gauge, Nos.	Size, In.	Wt. Per 100, Lbs
AB PL2/0	\$0.081/2	2/0	136	33
AB PL3/0	.09	3/0	17	39
	100 feet	in package.		

#### SOLD ONLY IN FULL LENGTHS

#### COIL CHAIN

STRAIGHT LINK

A general utility chain where strength and compactness are required.



No. AB ES/5/0

Electric welded. All welds smoothly trimmed to size of wire. Full strength of chain retained.

	BRIGHT	FINISH		Tensile	Wt. 100
Nos.	Per Foot	Gauge Nos.	Size,	Str'gth, Lbs.	Ft., Lbs.
# AB ES/1/0	\$0.051/2	1/0	11/64	1240	23
AB ES/2/0	.06	2/0	340	1430	27
AB ES/3/0	.061/4	3/0	1%4	1670	32
AB ES/4/0	.063/4	4/0	7/32	1890	35
#AB ES/5/0	.08	5/0	3/4	2530	47
	100 Feet in	a carto	n.		

SOLD ONLY IN FULL CARTONS

#### WELDED COIL CHAIN



Steel chain, electric welded. Tested to loads below. Safe working load one-half of proof test. age breaking strain double the proof test. Tested to loads shown

#### STANDARD-STRAIGHT LINK PROOF GRADE—SELF-COLORED

					vt. rer
Non	D 71	Size,	Links Per	Proof Test,	100 Ft.,
Nos.	Per Lb.	Inch	Foot	Lbs.	Lbs.
AB SS3/16	\$0.17	10	121/2	1045	40
AB SS1/4	.161/2	1/4	12	1800	70
AB SS%16	.15	16	10%	2720	105
ABSS 1/8	.14	8/8	934	3720	158
AB SS7/16	.131/2	7.0	834	5000	210
AB SS1/2	.131/2	1/2	8	6600	275
AB SS 5%	.131/2	5/8	63/8	10000	410

#### PROOF GRADE-BRIGHT

1		Marine Street	Wt. Per		
		Links	Proof	100	
	Size,	Per	Test,	Ft.,	
Per Lb.	Inch	Foot	Lbs.	Lbs.	
\$0.18	20	121/2	1045	40	
.17	34	12	1800	70	
.16	4 <sup>5</sup> /I	10%	2720	105	
.15	3/8	9%	3720	158	
	.17	\$0.18	Per Lb. Size, Per Sp. 18	Links Proof   Size, Per Lb.   Inch Foot Lbs.   \$0.18   \frac{70}{14}   12 \frac{12}{12}   1045   16   \frac{70}{16}   10\frac{34}{10}   2720   10\frac{34}{10}   10\frac{34}{10}   2720	

#### B. B. B. GRADE

This chain is closer link than proof grade; specially made only by experienced chain makers. Recommended where great strength and durability are required.

#### Self-Colored

	100 CAR.	CONDECT			
				1	Vt. Per
			Links	Proof	100
		Size.	Per	Test,	Ft.,
Nos.	Per Lb.	Inch	Foot	Lbs.	Lbs.
AB BBB1/4	\$0.18	. 1/4	14	2250	78
AB BBB%is	.17	30	12	3400	115
AB BBB 1/8	.16	3/8	11	4650	166
	Polished	l or Brig	ht		
				V	Vt. Per
			Links	Proof	100
		Size,	Per	Test.	Ft.,
Nos.	Per Lb.	Inch	Foot	Lbs.	Lbs.
AB BBB 1/4 P	\$0.19	1/4	14	2250	78
AB BBB5/16P	.18	30	12	3400	115
AB BBB 1/8 P	.17	3/8	11	4650	166

#### METHOD OF DETERMINING SIZE OF CHAIN NECESSARY FOR LIFTING ANY GIVEN WEIGHT

This scale is in conformity with the requirements of the United States and British Naval Departments.

Take, for example, any article weighing 1,350 lbs. To find size of chain necessary to lift this weight (1,350 lbs.), divide by the number of sheaves at the movable block, which is two sheaves and add one-third of amount for friction, which will give you 900 lbs., weight to be lifted, which is one-half of the test strain. Multiply 900 by 2, which will give you 1800 lbs. test strain. Then if you will refer to your table you will find the test strain given is for 4-inch chain.

Safe working load should be about one-half the above proof tests.

The breaking strain is about double the above proof tests.

#### STEEL LOADING CHAIN

1,000 lbs. in a cask.

For lumbering and oil field purposes. Guaranteed to pull stiff before breaking. High grade steel, very close link, with long-lap swelled weld.



#### BRIGHT FINISH

Nos.	Per Foot	Size,	Links per Ft.	Proof Test, Lbs.	Pulls 100 Stiff, Ft. Lbs. Lbs.
AB A14	\$0.41	1/4	14%	2400	4500 90
AB A%2	.43	96.2	13%	2950	5600 110
AB A5/16	.45	1/16	12%	3500	6800 130
AB A3/8	.48	3/8	10%	4900	9300 175
	1000	The in s	eask		

#### STEEL LOADING CHAIN

"ACCO" E-W GRADE

For lumbering and oil field purposes. Guaranteed to pull stiff before breaking. High grade steel, electric welded. Links are smooth and easy to handle.



BRI		

Nos.	Per Foot	Size,	Links per Ft.	Proof Test, Lbs.	Italian Lbs.
#AB ACCO3/16	\$0.18	Ma	181/4	1600	45
#AB ACCO7/32	.23	75.2	17	2000	60
#AB ACCO 1/4	.24	1/4	15	2500	75
#AB ACCO%2	.27	932	131/2	3000	95
#AB ACCO%16	.29	510	121/2	3500	110
‡AB ACCO¾	.36	3/8	101/2	5000	160
#AB ACCO7/16	.45	7/10	91/2	7000	215
#AB ACCO%	.55	1/2	9	9000	285
Pulls stiff at	approximatel;	y twic	e the p	roof tes	t.

#### COIL LOG CHAINS

1000 lbs. in a cask.

## 

#### STANDARD - SELF-COLORED

With swivel, slip and grab hooks.

Size Wt.

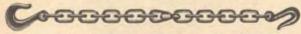
		Length,	Iron,	Each,
Nos.	Each	Feet	In.	Lbs.
#AB 101/4	\$1.39	10	1/4	8
# AB 121/4	1.59	12	3/4	9
AB 105/16	1.79	. 10	5/16	11
AB 125/16	1.89	12	5/10	13
AB 145/16	2.59	14	540	15
AB 165/16	2.89	16	5/10	17
AB 10%	2.59	10	3/8	17
AB 123/s	2.98	12	36	20
AB 143/8	3.59	14	36	23
AB 163/s	3.98	16	36	26
AB 127/16	3.98	12	7/16	26
AB 147/16	4.50	14	7/16	30
AB 167/16	4.98	16	7/10	34
# AB 101/2	3.98	10	3/2	28
# AB 121/2	4.98	12	1/2	33
#AB 141/2	5.75	14	3/2	39
# AB 161/2	6.50	16	3/2	44
	1000 lbs. in a	cask.		

#### SPECIAL - SELF-COLORED

Long (trace chain) Links. With slip and grab hooks. Length 12 feet. To inch iron.

AB 5612—Weight each 10 lbs..... ....Each \$1.19

1000 lbs. in a cask.



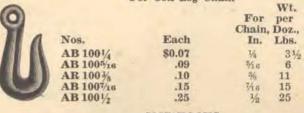
GENERAL PURPOSE UTILITY-SELF-COLORED Long (trace chain) Links, with swivel, slip and grab hooks. Size Wt.

		Length,	Iron,	Each,
Nos.	Each	Ft.	In.	Lbs.
AB 5612WS	\$1.29	12	9/16	10
AB 3814WS	2.29	14	3/8	16%
	1000 lbs. in a ca	sk.		

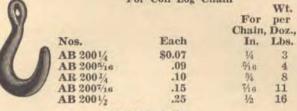
#### LOG CHAIN GRAB HOOKS

Drop forged from special steel, natural finish.

#### GRAB HOOKS For Coil Log Chain



#### SLIP HOOKS For Coil Log Chain



Packing-bulk.

#### LOG CHAIN SWIVELS

#### Malleable Iron - Polished Wt. For Size Size per Eye, Ch'n, R'ch, Doz., In. Nos. Each In. In. Lbs. \$0.10 748 1/4 23/16 3 AB 5 21/2 7/10 540 4 AB 10 .10 3 % AB 15 1/2 36 .19 7/10 31/2 AB 20 .25 940 10 13/10 弘 .25 3% 12 AB 25

Packing - bulk.

#### LOAD BINDERS

Used to bind loads of logs, lumber, hay, pipe, oil field supplies, telephone poles.

Takes up the slack after chain has encircled the load.

#### STACY'S IMPROVED SWIVEL

Jumbo Size Made entirely of malleable iron. Natural finish. Swivel on each hook prevents prevents twisting and breaking of chain.

Will fit chain with links 1 to 1/2 inch in diameter. Will take up about 5 inches of slack.

AB 2J-Weight per pair 20 lbs.....Per Pair \$5.95



Malleable iron throughout swivel on with each hook. Prevents twisting breaking of chain. Can be drawn as

tightly as desired and has ample strength to break the

Fits any chain from  $\frac{1}{4}$  to  $\frac{7}{10}$  inch in diameter of link. Length of handle 20 inches. Will take up slack to about 5 inches, which is enough to bind any load. With lumber or logs, three inches is sufficient.

AB GLB-Weight per pair 15 lbs.....Per Pair \$5.45

Packing-bulk.

# CORRECT NAME OF HARNESS PARTS

This page illustrates and gives the standard names of the various parts of harness and will assist our customers materially when ordering harness or harness parts.

#### APPLIES TO TEAM HARNESS ONLY

- 1. Bridle Front (Spotted).
- 2. Winker Brace.
- 3. Blind or Winker.
- 4. Nose Band (Spotted).
- 5. Bit Strap.
- 6. Ring Bit.
- 7. Bolt Snap on Check Line.
- 8. 1880 Buckle on Check Line.
- 9. Brow Band or Crown.
- 10. Rosette.
- 11. Gag Runner.
- 12. Bridle Cheek.
- 13. Throat Latch.
- 14. Side Check.
- 15. Check Line-Front Part.
- 16. Bolt on Hame.
- 17. Long Spot on Hame.
- 18. Breast Strap.
- 19. Common Slide on Breast Strap.
- 20. Anchor Roller Snap.
- 21. Pole Strap.
- 22. Collar Strap.
- 23. Breast Strap Lengthener.
- 24. Safe on Trace.
- 25. Belly Band.
- 26. Side Check—Back Part. 27. Top Collar Pad.
- 28. Collar.
- 29. Back Strap-Front Part.
- 30. Safe on Market Tug
- 31. Back Strap-Back Part.
- 32. Rump Safe. 33. Buckle Shield.
- 34. Uptug Safe.
- 35. Market Tugs. 36. Loop on Trace
- 37. Belly Band Billet.
- 38. Safe on Pole Strap.

- Bolt Snap on Long Side Strap.
   Long Side Strap.
- 41. Lazy Strap.
- 42. Trace. 43. 3-Link Toggle.
- 44. Links on Toggle.

45. Layer Loop.

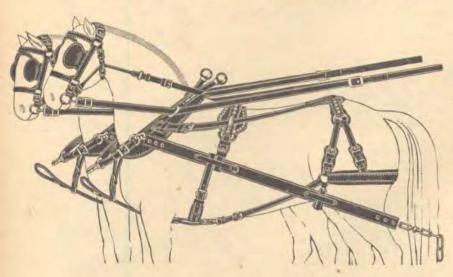
38 39

- 46. Layer on Breeching Seat.
- 47. Breeching Seat or Fold.
- 48. Hip Strap (Spotted). 49. Check Line—Hand Part.
- 50. Trace Carrier.

- 1. Bridle (Complete).
- 2. Crown Piece.
- 3. Rosette.
- 4. Gag Runner.
- 5. Cheek-Short or Broken.
- 6. Throat Latch.
- 7. Blind (Cup).
- 8. Nose Band.
- 9. Bit Strap.
- 10. Bridle Bit.
- 11. Winker Stay (Forked). 12. Front or Brow Band
- 13. Bridle Rein (Round Side).
- 14. Check Lines.
- 15. Breast Strap.
- 16. Roller Snap.
- 17. Collar Strap.
- 18. Choke Strap.
- 19. Traces or Tugs (Double and Stitched)
- Team Pad or Back Band.
- 21. Market Strap.
- 22. Belly Band Billet. 23. Belly Band.
- 24. Stay Strap.
- Turnback or Back Strap.
- 26. Buckle on Rump.
- 27. Drop.
- 28. Trace Carrier.

- 29
  - 29, Hip Strap.
  - 30. Buckle Shield.
  - 31. Up Tugs or Lead Ups (Box Loop).
  - 32. Breeching Body or Bands.
- 33. Trace Carriers or Lazy Strap.
- 34. Side, Hold Back or Quarter Strap.
- 35. Clip Swivel Heel Chains.
- 36. Hames.

The Finest Quality and Workmanship. Choice of Latigotan or Black Leather.



Ball Top Hames, Clip Traces, Without Collars

LATIGOTAN LEATHER.

AB 3713/4-With 13/4-inch doubled and stitched traces.

Per Set \$68.75

AB 3721/2F-With 21/2-inch folded traces ...... Per Set \$71.75

BLACK LEATHER

AB 23713/4-With 13/4 inch doubled and stitched traces.

Per Set \$68.75

AB 23721/2F-With 21/2-inch folded traces ......Per Set \$71.75

> One set in a wood box. Weight per set 80 lbs.

#### DESCRIPTION

#### LATIGOTAN LEATHER

L62B1½ Belly Bands—1½ inches. Folded, with pieced layer. Roller buckles and leather loop. Sewed.

L3J114H Breast Straps—with hardware. 14-inch single strap. Twin loop and roller buckle, riveted. End snaps and center roller snap.

L97 Breeching Bodies-21/2-inch single strap, with 11/2inch layer. Sewed up-tugs, with safes and leather loops. L84 Bridles—Folded, adjustable ring crown. %-inch doubled and stitched cheeks. %-inch nose band. %-inch bit straps, twin loop, riveted. Cupped blinds. Combination doubled and stitched front and winker. %-inch throat strap. %-inch long round reins. Jointed bits. L20 Choke Straps—1¼ inches. Sewed, with reverse buckle in rear end. Loop for belly band. Loose slide for collar strap. Buckle and billet at front end.

L151 Collar Straps-1 inch wide. Heavy single strap. Twin loop and roller buckle, riveted.

522C Hames-Ball top, clip.

L1024A1 Hame Straps—1x24-inch top. Riveted twin loop and roller buckle.

L10A1 Hame Straps—1x21-inch bottom. Twin loop and roller buckle, riveted.

L2771% Lazy Straps—1%-inch single strap, with 2%-inch safe, roller buckle and reverse loop, sewed. Outside safe spotted.

L41889/18/1½ Lines—1½ inches by 18 feet, stitched laps. No. 1880 buckles and flat spring snap at bit end. No. 200 line buckle on short checks. 9-foot inside checks.

L821 Pads with Market Straps—5 inches. Swell harness leather top and bottom. 1½-inch layer with dee in each end. 1½-inch double market straps. Side bridges for divided turnbacks.

L3/1¼ Side Straps—1¼ inches. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

LLSC Spread Straps-% inch, riveted. With 1%-inch celluloid ring.

L246/1¾ Traces—Doubled and stitched. 1¾ inches by 6 feet. Three-ply solid harness leather. Three rows stitching. Scalloped safes at hame end. Flat stay straps and 1½-inch belly band billets. No. 60 heel chain clipped on. L567 Traces—Folded, 2½ inches by 6 feet, stitched at each end, open in centers. 1½-inch belly band billets. Flat stay straps to hold market straps and belly band in place. With dee for side straps. No. 60, 18-inch heel chain clipped on.

L1534 Turnback and Hip Straps—1¼ inches. Divided turnback to hames. 1¼-inch hip straps sewed to japanned side trace carrier. Double and stitched rump drop. Fancy spotted.

#### BLACK LEATHER

B62B1½ Belly Bands—1½ inches. Folded, with pleced layer. Roller buckles and leather loop, sewed.

B3J1½H Breast Straps—with hardware. 1½-inch single strap. Twin loop and roller buckle, riveted. End snaps and center roller snap.

B97 Breeching Bodies—2½-inch single strap, with 1½-inch layer. Sewed up-tugs with safes and leather loops. B84 Bridles—Folded, adjustable ring crown. %-inch doubled and stitched cheeks. %-inch nose band. %-inch bit straps, twin loop, riveted. Cupped blinds. Combination doubled and stitched front and winker. %-inch throat strap. %-inch long round reins. Jointed bits. B20 Choke Straps—1¼ inches. Sewed with reverse buckle in rear end. Loop for belly band. Loose slide for collar straps. Buckle and billet at front end.

B151 Collar Straps—I inch wide. Heavy, single strap. With twin loop and roller buckle, riveted.

522C Hames—Ball top, clip. Weight per set 6½ lbs. B1024A1 Hame Straps—1x24-inch top. Riveted twin loop and roller buckle.

B10A1 Hame Straps—1x21-inch bottom. Riveted twin loop and roller buckle.

B27711/4 Lazy Straps—11/4-inch single strap, with 21/4-inch safe, roller buckle and reverse loop, sewed. Outside safe spotted.

B41889/18/11/4 Lines—11/4 inches by 18 feet, stitched laps. No. 1880 buckles and flat spring snap at bit end. No. 200 line buckle on short checks. 9-foot inside checks.

B821 Pads with Market Straps—5 inches. Swell harness leather top and bottom. 1½-inch layer with dee in each end. 1½-inch double market straps. Side bridges for divided turnbacks.

B3/14 Side Straps—14 inches, Single reverse in breeching dee, with economy buckle and spring snap at front end and economy buckle at rear.

BLSC Spread Straps-% inch, riveted. With 1%-inch celluloid ring.

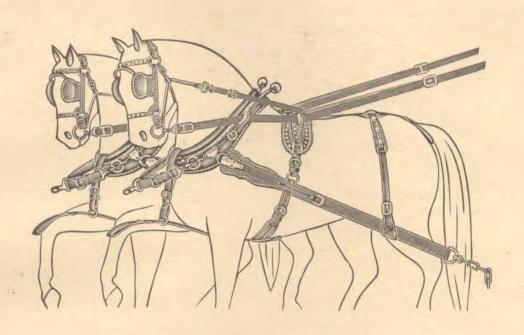
B246/1¾ Traces—Doubled and stitched. 1¾ inches by 6 feet. Three-ply solid harness leather. Three rows stitching. Scalloped safes at hame end. Flat stay straps and 1½-inch belly band billets. No. 60 heel chain clipped on. B567 Traces—Folded, 2½ inches by 6 feet, stitched at each end, open in centers. 1½-inch belly band billets. Flat stay straps to hold market straps and belly band in place. With dee for side straps. No. 60, 18-inch heel chain clipped

B1534 Turnback and Hip Straps—1¼ inches. Divided turnback to hames. 1¼-inch hip straps sewed to japanned side trace carrier. Double and stitched rump drop. Fancy spotted.

#### BLACK LEATHER-JAPANNED TRIMMED

A popular type of harness in midwestern states! Specially designed to be the best you can buy for the money! Fine quality black oak tanned leather of high tensile

strength, durable, rust-proofed hardware and careful attention to every detail of construction make these sets leaders in their price range.



## PLAIN EDGE Hames With Traces Bolted On

\$AY 1603—With Hames, Without Collars. Weight per set 75 lbs.....

Per Set \$49.95

One set in a wood box.

#### DESCRIPTION

Bridles—1-inch cheek. 1¼-inch ring crown. ¾-inch round side reins. ¾-inch flat centers. Harness leather cup blinds. Combination front and winkers. ¾-inch throat straps with swivels riveted. ¾-inch bar buckle bit straps, ¾-inch nose band. No. 47 joint bits.

Hames—Steel, bolt, ball top.

Hame Straps—%-inch leather loop and roller buckles.

Spread Straps-%-inch. One ring.

Traces—Heavy 3-ply, 1½-inch by 6 feet. Two rows stitching. Scalloped safe at front end with jointed clips for bolt hames. Flat stay straps. No. 45 6-link heel chains. 1½-inch belly band billets.

Belly Bands—Folded, 1½-inch layer. Roller buckles and leather loops.

Pads—5-inch swell harness leather housing. Felt lined. Pinked edges. 1½-inch layer, dees in end. 1½-inch market straps. Roller buckles and leather loop. Dwight hook and terrets. Spots around edge.

Lines—1½-inch by 18 feet, with No. 1880 rein buckles and flat spring snaps.

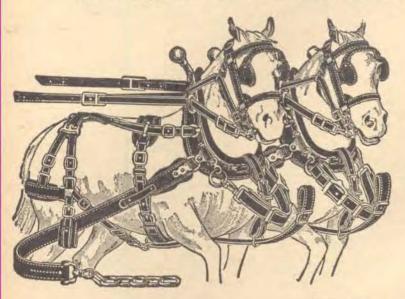
Hip Straps and Turnbacks No. 274—1½-inch turnback to go to pads. Folded crupper to buckle on crupper fork. 1½-inch wide hip straps with safes at top sewed to top trace carrier. 2½-inch wide trace loops to buckle on.

Breast Straps, Colorado—1½-inch wide. Roller buckle and leather loops. Flat spring end snaps. Roller center snaps.

Choke Straps No. 18—1½-inch ring in rear end, Loop for belly band. Roller buckle and leather loop on front end. Loose slide for collar straps.

Collar Straps No. 152-1-inch leather loop and roller buckle.

The Finest Quality and Workmanship. Choice of Latigotan or Black Leather.



Hames, With Traces Bolted on, Without Collars

#### LATIGOTAN LEATHER

AB 621/2S-With 11/2-inch traces.

Per Set \$63.75

AB 623/4S-With 13/4-inch traces.

Per Set 64.75

#### BLACK LEATHER

AB 2621/2S-With 11/2-inch traces.

Per Set \$63.75

AB 262 1/4 S-With 1 1/4-inch traces.

Per Set 64.75

One set in a wood box. Weight per set 85 lbs.

#### DESCRIPTION

#### LATIGOTAN LEATHER

L62B1½ Belly Bands—1½ inches. Folded, with layer. Roller buckles and leather loops, sewed.

L3J11/2H Breast Straps-With hardware. 11/2-inch single Twin loop and roller buckle, riveted. End spring snap and center roller slides.

L906 Breeching Bodies—214 inches. Folded, with 114-inch straight layer, with layer loops. Dees in ends.

L86 Bridles—Folded adjustable ring crown. %-inch doubled and stitched cheeks. %-inch noseband. %-inch riveted straps. %-inch riveted throat strap. Combination doubled and stitched front and winker. %-inch flat reins. Jointed bits.

-%-inch wide. Heavy single strap. L151% Collar Straps-Twin loop and roller buckle.

522 Hames-All steel. Bolt, with nickel ball top. Fit sizes 19-inch to 22-inch collars.

L10A1 Hame Straps—1x21-inch bottom. Twin loops and roller buckle, riveted.

L1024A1 Hame Straps-1x24-inch top. Riveted twin loop and roller buckle.

L62LS Lazy Straps-1-inch strap, with 1%-inch safe. L41880/18/1½ Lines—1½ inches by 18 feet. No. 1880 buckles and flat spring snaps at bit ends. No. 200 line buckle on short checks.

L1274 Pads with Market Straps—4½x2 inches. Swell pattern. Leather top and bottom. 1¼-inch layer. Japanned bridges. 1¼-inch reverse market straps.

L621 Pole Straps—1½ inches wide. Dee in rear end and Moline pole strap buckle on front end with collar strap

L3/1½ Side Straps with Snaps—1¼ inches. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

LLSD Spread Straps-%-inch, with one duranoid ring.

L1720/11/2 Trace Loops or Billets-11/2 inches wide. Sewed loop with dee in top for market strap to buckle in.

Traces—3 solid ply. 3-row stitched. 1½-inch belly band billets. Safe at front end of trace with jointed hame clip. No. 45 6-link heel chains.

L631/114-114 inches by 6 feet. L632/134-134 inches by 6 feet.

L62H Turnback and Hip Straps—1½ inches. Divided turnback to hames. 1½-inch hip strap sewed in side trace carrier at bottom of rump safe. Long hip straps to reverse around layer loop and breeching dee back to economy buckle. Japanned trace carrier.

#### BLACK LEATHER

B62B1½ Belly Bands—1½ inches. Folded, with layer. Roller buckles and leather loops, sewed.

B3J1½H Breast Straps—With hardware. 1½-inch single strap. Twin loop and roller buckle, riveted. End spring snap and center roller slides.

B906 Breeching Bodies— $2\frac{1}{4}$  inches. Folded, with  $1\frac{1}{4}$ -inchestraight layer, with layer loops. Dees in ends.

B86 Bridles—Folded, adjustable ring crown. %-inch doubled and stitched cheeks. %-inch noseband. %-inch riveted straps. %-inch riveted throat strap; combination doubled and stitched front and winker. %-inch flat reins Jointed bits.

B151% Collar Straps—%-inch wide. Heavy single strap Twin loop and roller buckle.

522 Hames—All steel. Bolt, with nickel ball top. Fit sizes 19-inch to 22-inch collars.

B10A1 Hame Straps-1x21-inch bottom. Twin loops and roller buckle, riveted.

B1024A1 Hame Straps—1x24-inch top. Riveted twin loop and roller buckle.

B62LS Lazy Straps-1-inch strap, with 1%-inch safe.

B41880/18/11/8 Lines—11/8 inches by 18 feet. No. 1880 buckles and flat spring snaps at bit ends. No. 200 line buckle on short checks.

B1274 Pads with Market Straps—4½x2 inches. Swell pattern. Leather top and bottom. 1¼-inch layer. Japanned bridges. 1¼-inch reverse market straps.

B621—Pole Straps—11/2 inches wide. Dee in rear end and Moline pole strap buckle on front end with collar strap slide.

B3/1½ Side Straps with Snaps—1¼ inches. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

BLSD Spread Straps-% inch with one duranoid ring B1720/1½ Trace Loops or Billets—1½ inches wide. Sewed loop with dee in top for market strap to buckle in.

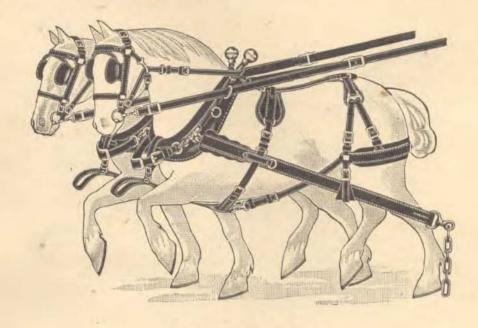
Traces—3 solid ply. 3-row stitched. 1½-inch belly band billets. Safe at front end of trace with jointed hame clip No. 45, 6-link heel chains.

B631/1½—1½ inches by 6 feet. B632/1¾—1¾-inches by 6 feet.

B62H Turnback and Hip Straps—1% inches. Divided turnback to hames. 1%-inch hip strap sewed in side trace carrier at bottom of rump safe. Long hip straps to reverse around layer loop and breeching dee back to economy buckle. Japanned trace carrier.

BLACK LEATHER-JAPANNED TRIM

This is a high quality black leather harness, far superior in material and workmanship to the average black leather harness. The black leather has highest tensile strength to stand maximum strain. Hardware used is designed and finished for lasting service. Every detail of construction adds to the long service built into every part.



With Hames, Without Collars

AB 5521/4-With 11/4-inch traces.

Per Set \$57.75

AB 5523/4-With 13/4-inch traces......

Per Set 60 75

One set in a wood box. Weight per set 90 lbs.

#### DESCRIPTION

B165 Belly Bands—Single strap, 2 inches wide, with 1½-inch layer sewed on. Roller buckle and leather loop.

B2340H Breast Strap—With hardware.  $1\frac{1}{2}$ -inch single strap. Twin loop riveted, with japanned slide in center. Flat spring snap on one end.

B905 Breeching Bodies—2¼ inches. Folded, with 1½-inch straight layer with layer loops. Dees in end.

B87 Bridles—%-inch cheeks, doubled and stitched. Folded, adjustable ring crown. %-inch nose band. %-inch bit strap. Twin loop, riveted. Combination doubled and stitched front and winker. %-inch throat strap. %-inch flat reins to rein over hames.

BC/1024B Collar Straps—%-inch wide. Single strap. Twin loop, riveted.

512LS Hames—Lone star, streamline, red band, red-o-lite, with ball top.

B7/21/1 Hame Straps—1x21-inch bottom. Japanned buckle and tuck loop, riveted.

B7/24/1 Hame Straps—1x24-inch top. Japanned buckle and tuck loop, riveted.

B2023 Lazy Straps—1-inch with 2¼-inch safe, riveted. Conway buckle.

B41880/18/13/4 Lines—13/4-inch x 18 feet. Stitched laps. No. 1880 buckles and flat spring snap at bit end. No. 200 line buckle on short checks.

B1627 Pads with Market Straps—4½x21 inches. Leather top and bottom. 1¼-inch layer with leather loop center, 1¼-inch reverse market strap.

B621 Pole Straps—1½ inches. Dee in rear end and Moline pole strap buckle at front end with collar strap slide.

B3/11/4 Side Strap with Snaps—11/4 inches. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

BLSD Spread Straps-%-inch with one Duranoid ring.

B1720/1¼ Trace Loops and Billets—1¼ inches wide, Sewed loop with dee in top for market strap to buckle in.

Traces—3-ply. Doubled and stitched. 2 rows stitched. No. 45 heel chain on end. Jointed clips on front end with 1¼-inch belly band billets.

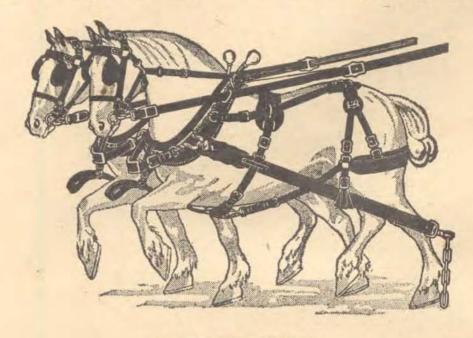
B6214/11/2-11/2 inches by 6 feet.

B6214/1%-1% inches by 6 feet.

B711 Turnback and Hip Straps—1½-inch single turnback to hames, 1½-inch hip strap sewed in side trace carrier at bottom of rump safe. Long hip straps to reverse around layer loop and breeching dee back to economy buckle. Japanned trace carriers.

BLACK LEATHER-JAPANNED TRIM

This is a high quality black leather harness, far superior in material and workmanship to the average black leather harness. The black leather has high tensile strength to stand the maximum strain. Hardware used is designed and finished for lasting service. Every detail of construction adds to the long service built into every part.



With Traces Bolted to Hames.

AB 521/2-With 11/2-inch traces; without collar.....

..Per Set \$59.75

AB 523/4-With 13/4-inch traces; without collar .....

....Per Set 61.75

One set in a wood box. Weight per set 80 lbs.

#### DESCRIPTION

B165 Belly Bands—Single strap, 2 inches wide, with 1½-inch layer sewed on. Roller buckle and leather loop.

B2340H Breast Strap—with hardware. 1½-inch single strap. Twin loop riveted, with japanned slide in center. Flat spring snap on one end.

B905 Breeching Bodies— $2\frac{1}{4}$  inches, folded, with  $1\frac{1}{4}$ -inch straight layer, with layer loops. Dees in end.

B87 Bridles—%-inch cheeks, doubled and stitched. Folded, adjustable ring crown. %-inch nose band. %-inch bit strap. Twin loop, riveted. Combination doubled and stitched front and winker. %-inch throat strap. %-inch flat reins to rein over hames.

BC1024B Collar Straps—%-inch wide. Single strap, Twin loop, riveted.

522 Hames-Steel bolt hames, with ball top.

B7/21/1 Hame Straps—1x21-inch bottom. Japanned buckle and tuck loop, riveted.

B7/24/1 Hame Straps—1x24-inch top. Japanned buckle and tuck loop, riveted.

B2023 Lazy Straps—1 inch with 2¼-inch safe, riveted. Conway buckle.

B41880/18/1½ Lines—1¼ inches by 18 feet, stitched laps. No. 1880 buckles and flat spring snap at bit end. No. 200 line buckle on short checks.

B1274 Pads with Market Straps—4½x21 inches. Leather top and bottom. 1¼-inch layer with japanned bridges and squares. 1¼-inch reverse market strap.

B621 Pole Straps—1½ inches. Dee in rear end and Moline pole strap buckle at front end with collar strap slide.

B3/1% Side Strap with Snaps—1% inches. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

BLSD Spread Straps-% inch with duranoid ring.

B1720/11/4 Trace Loops and Billets—11/4 inches wide. Sewed loop with dee in top for market strap to buckle in

Traces—3-ply. Doubled and stitched. 3 rows stitched. No. 45 heel chain on end. Jointed clips on front end with 1¼-inch belly band billets.

B571/11/2-11/2 inches by 6 feet.

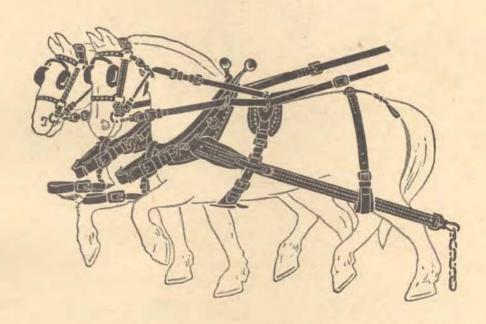
B572/11/4-11/4 inches by 6 feet.

B52H1½ Turnback and Hip Straps—1½-inch divided turnback to hames. 1½-inch hip strap sewed in side trace carrier at bottom of rump safe. Long hip straps to reverse around layer loop and breeching dee back to economy buckle. Japanned.

# \*TEAM HARNESS

#### ILLINOIS STYLE

Designed primarily to be the best you can buy for the money! Fine quality black oak tanned leather of high tensile strength, durable rust-proofed hardware and careful attention to every detail of construction make these sets leaders in their price range.



BLACK LEATHER-Plain Edges-Japanned Trimmed, Nickel Spots.

Hames with Traces Bolted on.

 $\pm$  AB 969X—With  $1\frac{1}{2}$ -inch by 6-foot traces.

Per Set \$47.75  $\pm$  AB 970X—With  $1\frac{3}{4}$ -inch by 6-foot traces.

Per Set 48.95

One set in a wood box. Weight per set 88 lbs.

#### DESCRIPTION

Belly Bands—Leather Filled. 1½-inch folded, 1½-inch layer.

Breast Straps—1½-inch wide, with end spring snap. Slide in center.

Bridles—Folded, adjustable ring crown, 1½-inch wide, with 1-inch layer and billet. %-inch doubled and stitched cheeks. %-inch nose band. ¾-inch bit strap and throat strap. Combination doubled and stitched winker stay and front. Round reins with gag swivels.

Collar Straps-%-inch wide, riveted.

Hames-Steel, bolt, nickel ball top.

Hame Straps-Ix22-inch bottom, Ix24-inch top, riveted.

Lines—1½ inches by 20 feet. Sewed laps. Flat spring snaps and metal wear buckles.

Pads—Swell pattern. 5 inches wide, 22 inches long. Leather top and bottom, doubled and stitched. 1½-inch layer, sewed on. 1½-inch reverse market straps. Cadmium-plated standing hook and terret.

Pole Straps-Heavy, 11/2 inches, single ply.

Spreader Straps-% inch with Bakelite rings.

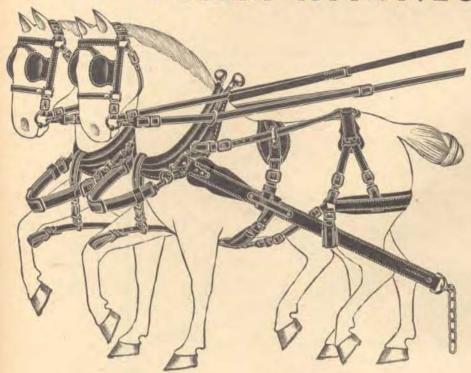
Traces—Doubled and stitched, 3-ply. Jointed clip at hame end. 1½-inch belly band billets. Leather part 6 feet long. 6-link cadmium-plated heel chain, sewed in, with screw dee:

Turnback and Hip Straps—1%-inch turnback. 1%-inch hip straps, with crupper fork and folded crupper.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# TEAM HARNESS



DESCRIPTION

#### BLACK LEATHER JAPANNED TRIMMED

Designed and built for long, hard service. Cut from selected quality medium heavy weight oak tanned harness leather, with high tensile strength.

Best construction—all sewed parts stitched with pure linen thread—other parts securely riveted.

AB 4800—Complete as described. Weight per set 75 lbs. ....... Per Set \$55.75

AB 04800—Less breeching, turnback and hip strap. With standing hook and terret pad and long bridle reins. Weight per set 70 lbs. Per Set \$46.95

One set in a box.

#### AB 4800

B62B1¼ Belly Bands—1¼ inches. Folded, with layer, roller buckle and leather loop sewed on.

B2340H Breast Straps—with hardware. 1½-inch single strap. Twin loop, riveted. With japanned slide in center, Flat spring snap on one end.

B905 Breeching Bodies—2¼ inches. Folded, with 1½-inch straight layer. Layer loops. Dees in ends.

B2093% Bridles—folded ring crown. 1-inch layer and billets on crown. %-inch doubled and stitched cheeks. %-inch bit strap. %-inch throat straps. Cup blinds. Doubled and stitched front and winker brace. Short, flat reins to hames.

B151% Collar Straps—%-inch wide; single strap. Twin loop roller buckle, riveted.

522 Hames—all steel. Bolt hame with nickel ball top. Fits size 19-inch to 22-inch collar.

B7/21/1 Hame Straps—1x21-inch bottom. Japanned buckle and tuck loop, riveted.

B7/24/1 Hame Straps—1x24-inch top. Japanned buckle and tuck loop, riveted.

B2023 Lazy Straps—1-inch single strap, with 2¼-inch safe, riveted. Conway buckle.

B75188/1 Lines—1 inch x 18 feet with No. 1880 buckle and spring snap in bit end. Center bar buckle on short checks. B1274 Pads with Market Straps—4½x21 inches. Leather top and bottom. 1¼-inch layer, with japanned bridges. 1¼-inch reverse market straps.

B621 Pole Straps—1½-inch. Dee in rear end and Moline pole strap buckle at front end with collar strap slide.
B3/1½ Side Strap with Snaps—1½-inch. Single reverse in breeching dee. Economy buckle with spring snap at front and economy buckle at rear.

BLSJ Spread Straps—%-inch with japanned rings. B1720/1¼ Trace Loops or Billets—1¼-inch wide. Sewed loop with dee in top for market strap to buckle in. B571/1½ Traces—1½-inch. 3-ply, doubled and stitched. 2 rows stitching, 6 feet long and jointed clip at hame and 6-link heel chain sewed in.

B52H1 Turnback and Hip Straps—1-inch divided turnback to hames. 1-inch hip strap sewed in side trace carrier at bottom of rump safe. Long hip straps to reverse around layer loop and breeching dee back to economy buckle. Japanned trace carrier.

#### AB 04800

B62B1¼ Belly Bands—1¼-inch. Folded, with layer, roller buckle and leather loop sewed on.

B2340H Breast Straps—with hardware, ½-inch Single strap. Twin loop, riveted. With japanned slide in center. Flat spring snap on one end.

B2093% Bridles—folded ring crown. 1-inch layer and billets on crown. %-inch doubled and stitched cheeks. %-inch bit straps. %-inch throat straps. Cup blinds. Doubled and stitched front and winker brace. Short flat reins to hames.

B151% Collar Straps—%-inch wide. Single strap. Twin loop roller buckle, riveted. Weight per pair ½ lb.

522 Hames—All steel. Bolt hame with nickel ball top. Fits size 19-inch to 22-inch collars.

B7/21/1 Hame Straps—1x21-inch bottom. Japanned buckle and tuck loop, riveted.

B7/24/1 Hame Straps—1x24-inch top, Japanned buckle and tuck loop, riveted,

B75188/1 Lines—1-inch by 18 feet with No. 1880 buckle and spring snap in bit end. Center bar buckle on short checks.

B839 Pads—4½x21-inch. Leather top and bottom. 1¼-inch layer. Standing hook and terrets. Reverse market straps.

B621 Pole Straps—1½-inch. Dee in rear end and Moline pole strap buckle at front end with collar strap slide.

BLSJ Spread Straps-%-inch with japanned rings.

BI720/1¼ Trace Loops or Billets-1¼-inch wide. Sewed loop with dee in top for market strap to buckle in.

B571/1½ Traces—1½-inch. 2-ply, doubled and stitched. 2 rows stitching. 6 feet long with jointed clip at hame and 6-link heel chain sewed in.

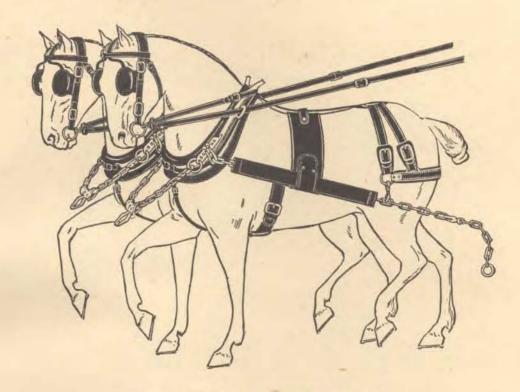
B482/1 Turnback and Hip Straps—1-inch turnback and hip straps. Turnback to pad. Crupper fork sewed to top of trace carrier with folded crupper buckled on. Trace loop 2½-inch wide with safe to buckle on.

# TEAM HARNESS

CHAIN PLOW

Especially constructed to withstand the strain that a chain plow harness has to take. Made of high quality black leather with great tensile strength and finished

with durable, rust-proofed hardware. Priced amazingly low for such quality! Extra wide back bands and traces, Long, strong chains.



#### BLACK LEATHER-JAPANNED TRIMMED

AB 285-With Hames, Without Collars ...

Per Set ... \$27.95

One set in a wood box.

Weight per set about 65 lbs.

#### DESCRIPTION

B14/4 Back Bands—4-inch wide. Heavy firm harness leather, with buckle and billets at ends, riveted on. Loop in center, riveted on. Felt lined center.

816/1½ Belly Bands—1½-inch harness leather. 17-inch billets and 23-inch bands. Japanned roller buckle and leather loop, sewed.

218 Breach Chains—Ajax, bright finish. Chain  $\frac{5}{52}$ -inch wire. Heavy center snap and double-end end snaps. Length over all 28 inches.

B39 Bridles—1¼-inch doubled and stitched cheek. Solid crown. Cupped harness leather blinds. Flat winker stay, riveted. Front buckle throat latch. Flat side rings to go over hames. No. 47 jointed ring bits.

10/1¼ Breechings—Stage. Heavy folded body 39 inches long, with layer. Reinforced around breeching rings. 1¼-inch hip straps sewed to heavy ring trace carrier on rump. Heavy safe under trace carrier hip straps, loops around breeching ring and layer loop and to reverse buckles. 1¼-inch turnback made up 57 inches. Breeching snaps in breeching rings. Japanned buckles.

B540 Chain Piping—40-inch. Leather, folded, sewed and riveted, with leather cuff at each end. Opening for belly bands 10 inches from end.

461LS Hames—Lone Star, 3-loop stage—new type. Hardwood, varnished. For 17x20-inch collars.

B7/21/1 Hame Straps—1x21-inch Japanned buckle and tuck loop, riveted.

750/18/1½ Lines—1½-inch by 18 feet, Harness leather. Sewed laps. Imitation rubber bolt snaps. Sewed in bit ends. Center bar buckle on short check. Short check centers not reinforced.

B18/1½ Pole Straps—1½-inch heavy single strap, with ring at back end and buckle and leather loop at front. Loose slide for collar strap.

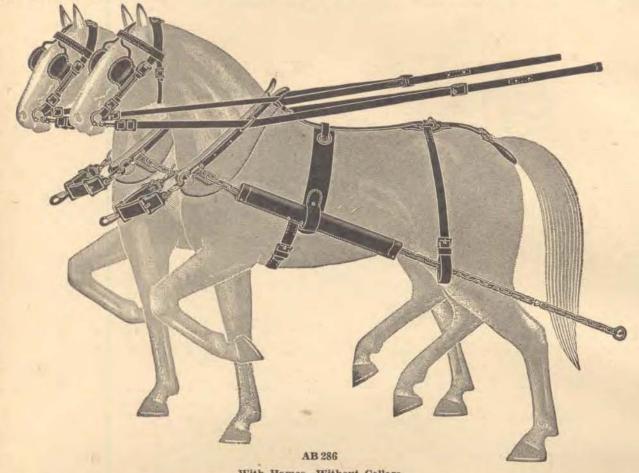
XW7/8/2 Trace Chains—8 straight links. 7 feet long. No. 2 wire.

# TEAM HARNESS

CHAIN PLOW

BLACK LEATHER-JAPANNED TRIMMED Outstanding Value!

Sturdy, well constructed harness built for long service at a very low cost. Made from strong black leather with strength right where it is needed.



With Hames-Without Collars

‡AB 286—With Turnback and Hip Straps—11%-inch turnback to pad. 11%-inch hip strap. 11%-inch crupper forks, folded crupper to buckle on ...

AB 286B-With Breeching-Body folded 39 inches long with layer. Metal clips around breeching rings. Hip straps made up 25 inches long to loop around ring and dee at body to reverse buckle. Turnback made up 57 inches long. Japanned buckles and rings. Safe under rump ring; breeching snaps in breeching dees; 14-inch hip and turnback. .....Per Set 29.95

One set in a wood box. Weight per set about 65 lbs.

#### DESCRIPTION

B14/31/2 Back Bands-31/2x39-inch. Heavy firm harness leather with wide trace loops sewed on. Turnback loop riveted.

BO1/1½ Belly Bands—1½-inch. Harness leather. 17-inch billets and 23-inch bands. Japanned roller buckles and leather loop, sewed.

BD Breast Straps-11/2-inch. 2-ply. Japanned slides in center. Breast snaps and buckles on end.

B5/11/4 Breeching Turnback and Hip Straps—Body folded 39 inches long with layer. Metal clip around breeching rings. Hip straps made up 25 inches long to loop around ring and dee at body to reverse buckle. Turnback made up 57 inches long. Japanned buckles and rings; safe under rump rings. Breeching snaps in breeching dees. 114-inch hip and turnback.

B39 Bridles-14-inch doubled and stitched cheek. Solid crown. Cupped harness leather blinds. Flat winker stay, riveted. Front buckle throat latch. Flat side rings to go over hames. No. 47 jointed ring bits.

B536 Chain Piping—36-inch leather, folded, sewed and riveted, with leather cuff at each end. Opening for belly bands 10 inches from end.

61LS Hames-Lone Star. Wood, varnished. Hook pat-

B7/21% Hame Straps-%x21-inch. Japanned buckle and tuck loops.

B4D18/1 Lines-1-inch by 18 feet. All laps sewed. Imitation rubber bolt snaps sewed in bit ends. Centers at short checks. Center bar buckle on short check. XW7-8-2 Trace Chains—8 straight links 7 feet long. No. 2 wire.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

# BLIND BRIDLES - Harness Leather



Cupped blinds with combination doubled and stitched front and winker.

Folded adjustable ring crown. Doubled and stitched cheeks % inch. Bit straps % Inch. Twin loop riveted throat strap % inch. No. 47 bits.

Long round reins % inch. Nose-band % inch.

AB B84—Black ...... Each \$3.75 AB L84—Latigotan....Each 3.75

Flat reins %-inch wide to go over hames. Noseband % inch. AB B86-Black ..... Each \$3.85 AB L86-Latigotan...Each 3.85

Weight per dozen 45 lbs.

Flat reins %-inch wide to go over hames. Noseband % inch.

Black

AB B87—Weight per dozen 45 lbs..... Each \$3.95

Cupped blinds with combination front and winker. Crown 1¼ inches. Noseband % inch. Cheeks 1 inch. Bar buckle bit straps. Buckle swivel on throat straps. Round side reins, with %-inch long flat centers. No. 47 joint bits.

AB B327B—Black ..... Each \$4.50 AB L327L—Latigotan ...... Each 4.50

Weight per dozen 55 lbs.

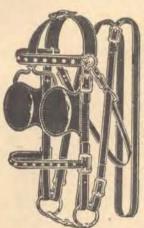
Cupped blinds with round forked winker stays. Long flat cheeks % inch. Noseband % inch. Doubled and stitched front. Throat latch % inch, with gag swivels. Round side reins, with %-inch long flat centers to rein on back band. No. 47 joint bits.

AB B100B-Weight per dozen 55 lbs.......Each \$4.50

Oupped blinds with doubled and stitched front and winker brace. Folded ring crown with 1-inch layer and billets. Doubled and stitched cheeks ¾ inch. Bit straps ¾ inch. Throat straps ¾ inch. Short flat reins to % inch. Throat straps hames. No. 47 joint bits.

Black

AB B2093 1/8 - Weight per dozen 45 lbs...... Each \$3.25



Cupped blinds with round forked winker stays. Nickel spotted double and stitched front. Single noseband. Cheeks % inch. Nickel-plated metal rosettes. Throat latch % inch, with gag runners. Flat side reins % inch, to rein over hames. No. 47 bits.

#### Black

AB B603-Weight per dozen 45 lbs. ..... Each \$3.25

One-quarter dozen in a package.



#### FOR PLOW HARNESS TENNESSEE

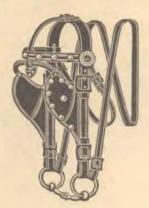
Good heavy stock.

Wide open, extra heavy. 3-ply pigeon wing blinds with extra heavy round winker stays connecting blinds. Large brass rosettes. Brass spots on front and blinds. Japanned roller buckles. Leather loops on cheeks. Throat latch % inch. Flat reins % inch, with buckle and billet. Japanned gag runners attached to separate straps sewed to crown. No. 47 japanned ring bits.

With flat reins 7 feet long.

Black

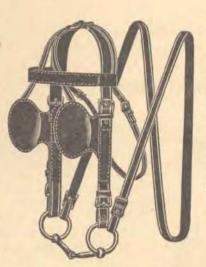
Size, Cheeks and Billets, Wt. Per Nos. Each Inches Doz., Lbs. AB 32/1 \$3.25 1 46 AB 32/11/4 3.75 134 52



Pigeon wing blinds with doubled and stitched winker stays. Brass spotted front and spots around edge of blinds. Solid crown. Cheeks ½ inch. Brass rosettes. Japanned buckles. Throat latch 1/2 inch. Flat side reins % inch, 6 feet long with buckles. Jointed ring bits.

#### Latigotan

AB SS619-Weight per dozen 42 lbs. ..... Each \$2.19



Cupped blinds and flat winker stays. Plain long cheeks. Flat throat latch. 1/2 inch. Flat solid crown. Riveted harness leather front. Short flat side reins to buckle in bit. Jointed ring bits. japanned buckles and loops.

For the South and Southeast

With Flat Reins 5 Feet Long

Black

Size Cheeks, Inches 1 114

Weight per dozen 30 lbs. One-quarter dozen in a package. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

Each

\$1.65

1.95

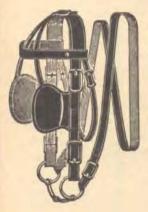
1393

Nos.

AB 916S1

AB 916811/4

# BLIND BRIDLES - Harness Leather

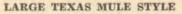


Cupped harness leather blinds with flat winker stays. Solid crown. Riveted front. Doubled and stitched cheeks, 14 inches.

Buckle throat latch. Flat side reins to go over hames. Jointed ring bits.

#### Black

AB B39—Weight per dozen 40 lbs.....Each \$1.45



Hooded type with 1¼-inch cheeks. Double and stitched blinds, joined at center and sewed. Spot in center of winker and blinds. Throat latch, 5½ inch. No. 47 jointed ring bits. Without reins.

#### Black

#### Latigotan

Weight per dozen 36 lbs. One-quarter dozen in a package.

#### RIDING BRIDLES

#### FAIR LEATHER

Add bridging in top The nin XCO With in

Nos.

AB 601 3/4

AB 601 1/8

Adjustable headstall. Fair bridle leather, plain smooth finish. Double headstall cut in one piece with buckle at top to adjust to any size. Throat latch in one piece running over head. Sewed fronts; XC rosettes, port bits.

With 6-foot quirt reins laced in center, buckled at bit.

Size	Size	Per
Cheeks, Inch	Reins, Inch	Doz., Lbs.
3/4	3/4	16
3/8	3/4	171/2

One-half dozen in a package.

Elach

\$2.35

2.75

Doubled and stitched leather blinds with ½-inch flat winker straps to buckle at center of crown.

No. 47 jointed ring bits.

#### WITHOUT REINS

Japanned bar buckle for billet and crown. Flat riveted fronts.

Japanned Trimmings Black

With Flat Blinds Cheeks and billets, 1¼ inches.

AB 53/11/4—Weight per dozen

With Cupped Blinds

Cheeks and billets, 1 inch.

Cupped blinds. Cheeks, 1¼ inches. Pieced crown with double and stitched center. Throat latch. Riveted harness leather front.

#### Japanned Trimmings

Black





Cupped blinds. Cheeks, 1% inches. Pieced crown with doubled and stitched center. Flat riveted fronts.

Japanned Trimmings

Black

One-quarter dozen in a package.

Cupped blinds. Cheeks, 1½ inches. Pieced crown. Flat riveted fronts, ¾ inch. Tumbled finish trimmings.

#### Black

AB 100FS-Weight per dozen

21 lbs. ..... Each \$0.79

One-half dozen in a package.

#### LEATHER HALTERS

Black harness leather with riveted laps. Adjustable chin straps. Halter loops and ring. Japanned trimmed.



## FIVE-RING STYLE

Snap Throat Strap

Size from square to square over head 44 inches. Cheeks 1 inch. Chin straps 1 inch.

AB 330/11/4-Weight per dozen 15 lbs..... Each \$1.49

Measures 46 inches from square to square over head. All straps 11/4 inches.

AB11/4-Weight per dozen 14 lbs. ...... Each \$1.39



#### Snap Throat Strap

Doubled and stitched throughout. Measures 45 inches from square to square over head. All straps 11/4 inches.

AB 165-Weight per dozen 18 lbs. ..... Each \$1.39

Medium weight black leather, Measures 40 inches from square to square over head. All straps 11/4 inches.

AB 100-Weight per dozen

19 lbs. ..... Each \$1.19

One-quarter dozen in a carton.

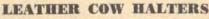


#### FOR COLTS

Buckle crown. Measures 36 inches from square to square over head. All straps 1 inch.

AB 1988/1-Weight per dozen 15 lbs. \_\_\_\_\_Each \$0.98

One-quarter dozen in a package.





Black harness leather. Buckle crown. Riveted. One-piece crown, nose, throat and chin straps. Japanned trimmed. All straps 14 inches.

#### Without Ties

AB 838/11/4-Weight per dozen 11 lbs..... Each \$0.79

One-quarter dozen in a package.

#### WEB HALTERS



# FOR HORSES

Regular Dexter adjustable-13-cord No. 2 web. Brow band and throat latch % inch. Chin strap % inch. Nickeled rosettes 1% inches, Bright malleable trimmings. Sisal tie rope % inch. Measures 42 inches from triangle to triangle over head.

Assorted colors-red and blue.

AB 153-Weight per dozen 10 lbs .... Each \$0.69

Packing-bulk

#### CORD HALTERS



JOHNSON'S IDEAL

Will not kink or twist

All one piece. two-way Special weave cotton cord, double under chin. Put together

Wt. Each, Lbs.

15

with malleable iron and steel hardware, cadmium finish to prevent rust.

The adjustable throat latch makes it fit around the neck. Diameter cord is inch.

(Extra large 1400-2000-lb. horses)

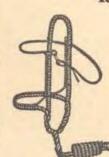
Nos. Each AB 1X

\$1.15

(Large 1100-1400-lb, horses)

1.10 One dozen in a heavy craft paper bag.

#### ROPE HALTERS



**AB 114** 

Red sisal rope, with 6-foot tie. Yellow sisal front and throat piece, 4-inch. All parts fastened with copper wire loops.

Measures 40 inches from nose piece over head.

Best quality close twisted long fibre sisal, ½-inch.

AB A-Weight per dozen 12 lbs......Each \$0.29

Medium grade sisal, 7/16-inch.

AB 3A-Weight per dozen 10 lbs. ..... Each \$0.23

One dozen in a bundle.

#### HALTER TIES



Cadmium plated swivel spring snap and ring fastened to rope with wire loops. ½-inch round sisal rope 7 feet long with wired end.

AB 7HT-Weight per dozen 71/2 lbs.......Each \$0.23

One dozen in a bundle; six dozen in a carton.

#### BREECHINGS HARNESS LEATHER

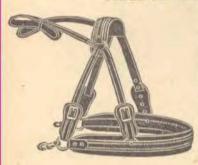


Breeching snaps in breeching rings. Japanned buckles. Hip strap and turnback 1¼ inches, body 42 inches.

#### BLACK LEATHER

AB 10/11/4-Weight per set 9 lbs.......Per Set (2) \$9.35

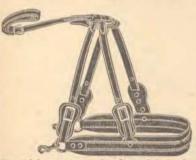
#### STAGE OR JERSEY



Creased edge. Folded body 39 inches long, with layer. Metal clips with rings and bolt snaps. Reverse hip straps sewed to ring on rump strap, to buckle into uptugs on body. Rump piece 14 inches long, with layer sewed on. Two turnbacks made up 57 inches long, to cross on back and attach to rings on hames with tie strings.

#### BLACK LEATHER

Nos.	Per Set (2)	Straps,	Turn- backs,	Width Folds, Inches	Set,
AB 100/1	\$7.50	1	34	2	8
AB 100/11/4	8.75	134	1	21/4	9
AB 100/11/2	9.75	11/2	11/4	21/2	10



Body folded 39 inches long with layer. Metal clip around breeching rings. Hip straps made up 25 inches long to loop around ring and dee at body to reverse buckle. Turnback made up 57 inches long. Japanned buckles and rings. Safe under rump ring.

Breeching snaps in breeching dees. Width hip and turnback 14 inches.

#### BLACK LEATHER

Nos.	Per Set (2)	Width Width Hip Turn- Straps, backs Inches Inches	Width, Folds,	Set,
AB B5/1	\$6.50	1 1	2	7
AB B5/11/4	7.50	14 14	2	8
AB B5/11/2	8.75	11/2 11/2	2	9
	One set in	n a bundle.		

#### BREECHINGS



Doubled and stitched body 41 inches long. Japanned metal clips, rings, bolt snaps. Hip straps, sewed to ring, with leather safe, and to reverse in body. Single turnback 57 inches long, runs to collar. Japanned bar buckles and leather slide loops. Width

STAGE

slide loops. Width hip straps 1¼ inches, turnbacks 1 inch, body 2½ inches.

BLACK LEATHER

AB 250/11/4 - Weight per set 9 lbs..... Per Set (2) \$8.75

One set in a bundle.

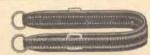
# BREECHING BODIES HARNESS LEATHER



Single strap body
2½ inches wide,
44 inches long
Straight layer 1½
inches full length,
sewed around
rings. Sewed-up
tugs 1 inch, with
safes and two
leather loops.

Nos. AB B97 AB L97 Per Set (2) \$6.45 6.45 Weight per set 4½ lbs. Color Black Latigotan

Folded body 2¼ inches wide, leather filled, with full length straight layer sewed around dees and reinforced. With layer loops.



Nos.	Per Set (2)	Length, Inches	Width Layer, Inches	Weight Per Set, Lbs.
	BLACK	LEATHER		
AB B905	\$4.00	42	11/8	41/4
AB B906	4.50	42	11/4	41/2
	LATI	GOTAN		
AB L906	4.50	42	11/4	41/6
	One set in	n a bundle.		.,

### TURNBACK AND HIP STRAPS



Harness leather. Divided turnback to hames, width 1¼ inches. Hip straps, width 1¼ inches sewed to japanned side trace carrier. Double and stitched rump drop. Fancy spotted.

AB B1534—Black Per Set (2) \$7.50
AB L1534—Latigotan Per Set (2) 7.50

One set in a bundle. Weight per set 6 lbs.

#### TURNBACK AND HIP STRAPS

Harness leather. Turnback, length 5½ feet, with with folded crupper to buckle on. Hip straps, length 34 inches, width 1½ inches with snaps. Loop and buckle at trace end. Sewed into ring on turnback. Japanned trimmed. Width Turnbacks, Wt. Per

Harness leather. Single turnback to hames, width 1½ inches, Dou-ble hip straps, width 1½ inches, sewed to side trace carriers at bottom of rump safe.

Nos.

AB 611

AB 911

Inches

13%

3

Set, Lbs.

51/2

6

Long hip straps to reverse around breeching dees and layer loops back to Economy buckle. Japanned trace carriers.

AB B711 - Weight per set 7 lbs.

Per Set (2) \$7.85

Per Set (2)

\$6.50

8.50



Weight per set 8 lbs.

Medium Weight, Medium Quality Harness Leather Black

Turn-Hip back, Straps, Wt. Per Nos. Per Set (2) Inches Inches Set, Lbs. \$6.00 1 1 AB B52H1 AB B52H11/8 6.85 11% 11/8

Medium Weight, Good Quality Harness Leather Turnback and hip straps, width 1% inches. 

AB L62H—Latigotan ......Per Set (2) 7.50

Weight per set 8 lbs. One set in a bundle.

TURNBACK AND HIP STRAPS



Harness leather. Turnback, width 11/4 inches. Hip strap width 11/8 inches. Folded crupper to buckle. Crupper fork sewed to top trace carrier. Leather loop and roller buckle. Lazy straps sewed on.

Weight per set 6 lbs.



Harness leather. Turnback to pad 1½ inches. Hip straps, width 1½ inches Hip with loops, buckles and spring snaps at end. Folded crupper, width % inch with crupper fork sewed to top of trace carrier. Black

AB B602 - Weight per set 7 lbs.

Per Set (2) \$6.50

Harness leather. Turnback to pad. Crupper fork sewed to top of trace car-rier with folded crup-per buckled on. Hip straps, with scalloped safes. Trace loops 21/2 inches wides with safe to buckle on. Japanned trimmed.

Black

Per Set (2) \$4.85 5.85

Turn-Hip back, Inches 1

Straps, Wt. Per Inches Set, Lbs. 1 7 11/8

11/4 One set in a bundle.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

Nos.

AB B4821

AB B48211/8

#### TURNBACKS



Harness leather, width 11/4 inches. To run to pad, with reverse buckle and loop. Folded crupper to buckle on.

AB 325/11/8 — Weight per dozen 7 lbs...... Each \$1.45

One-half dozen in a package.

#### TEAM PADS WITH MARKET STRAPS



Swell pattern. Harness leather top and bottom, width 5 inches. Layer 1½ inches, with dee. Double market straps, width 1½ inches. No. 50 roller buckle and loop. Side bridges for divided turnback. Layer spotted one row around edge.

AB B821—Black .....Per Pair \$6.50 AB L821—Latigotan.Per Pair 6.50

Weight per pair 5 lbs.

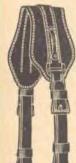


Harness leather. Swell shape top and bottom. Interlined with soft felt pad. Doubled and stitched. Layer 1½ inches, with dees in ends. Dwight hook and terrets. Single reverse market strap 1½ inches, with reverse buckle.

AB B357—Black ...... Per Pair \$6.00

AB L357—Latigotan ....Per Pair 6.00

Weight per pair 5 lbs.



Swell shape, 5½x22 inches. Harness leather top and bottom, felt interlined. 1½-inch layer with dees sewed in. Double reverse market straps, width 1½ inches, sewed, with roller buckles and leather loops. Japanned bridges, buckles and dees.

Black Leather

AB 454-Weight per pair

6 lbs. ......Per Pair \$6.00



Harness leather top and bottom 5x23 inches. Layer 1½ inches, with dees in ends. Double market straps, 1½ inches, with reverse buckle. Metal Colorado bridges.

AB B561—Black. Per Pair \$5.50

AB L561—Latigotan. Per Pair 5.50

Weight per pair 4½ lbs.

One pair in a package.

#### TEAM PADS WITH MARKET STRAPS



Swell shape, width 5 inches. Double harness leather top, felt lined. 1½-inch layer, with dees sewed in. Dwight hook and terrets. Double reverse market straps, 1½ inches, sewed, with roller buckles and leather loops. Japanned buckles and dees.

#### Black Leather

AB 462—Weight per pair 6½ lbs. Per Pair \$5.75

One pair in a bundle.



bridges. Weight per pair 4
lbs. Per Pair \$4.00

AB B1627—Black, with leather loop center bridges. Weight per pair 4½ lbs.........Per Pair 4.00

One pair in a package.

#### BACK BANDS

#### Black Leather

Swell shape. Harness leather top and bottom. Leather layer 1¼ inches. Reinforced billets 1¾ inches. One row nickel spots on outer edge.

Length made up 491/2 inches.

Width 5 Inches





Large dees sewed and riveted on each end. Two open-eye snaps in each dee.

> Length 39 Inches Width 4 Inches

AB 4DS—Weight per dozen
17 lbs. ......Each \$1.95

One-half dozen in a package.

#### BACK BANDS

BLACK

BLACK HARNESS LEATHER
Wide trace loops sewed and riveted. Turn-back loop riveted on

in center. Wt. Per Size, Doz., Nos. Each Ins. Lbs. Length 39 Inches

Length 39 Inches AB B14/3½ \$1.10 3½ 16

AB B14/4 1.19 4 18

Length 42 Inches
AB 788/31/2 1.15 31/2 14

AB 788/4 1.25 4 16

Buckle and billets at ends, riveted on. Loop in center riveted on. Felt-lined center.

Length 42 Inches

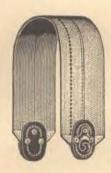
Each

\$1.20

1.30

Wt. Per Size, Dozen, Ins. Lbs. 3½ 16





Nos.

AB 790/31/2

AB 790/4

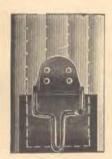
#### THE GURLEY

White sail duck with harness.

Leather chafes sewed on. Large
Gurley hooks secured by copper
rivets.

AB 8—No. 8. Weight per dozen 12 lbs......Each \$0.57

Packing-bulk.



#### Padded-Comfortable

Heavy white duck—5 inches wide, 39 inches long. Padded with composite stuffing, same as used in colar pads. Four rows quilting. Split leather safes. H. & A. hooks, securely fastened to band.

AB 1G—Weight per dozen
18 lbs. .....Each \$0.45

Six dozen in a bale.



Plain white canvas with burlap reinforced center. No trimmings. Width 5-inches. Length 42 inches.

With Japanned "Boss" Hooks

AB G70BH—Weight per dozen 9 lbs. Each \$0.39

Without Hooks

AB G70—Weight per dozen
31/4 lbs. Each .15

Packing-bulk.

#### BACK BANDS



Cotton webbing — 4 inches wide, with bound ends. No. 90 Plow Boy heavy black japanned combination hook and buckle.

Length Over All 39 Inches

AB 0T—No. 0 heavy webbing ...... Each \$0.30

AB 1T-No. 1 medium weight webbing......Each

Weight per dozen 10 lbs.

Length Over All 42 Inches

AB 1T42-No. 1 medium weight webbing...Each .29

Weight per dozen 11 lbs.

Cotton webbing—5 inches wide, with bound ends. No. 95 Plow Boy heavy black japanned combination hook and buckle.

Length Over All 39 Inches

AB 05T—No. 0 heavy webbing......Each \$0.39

Weight per dozen 16½ lbs. One dozen in a bundle.

#### WEB BACK BANDS



Webbing 4 inches wide, with bound ends.

Length Over All, Wt. Per Nos. Each Weight Inches Doz., Lbs. AB 0 \$0.19 Heavy 31/2 39 AB 1 .15 Medium 39 2 AB 1/42 .15 Medium 42 21/2 Webbing 5 inches wide, with bound ends.

AB 50 \$0.25 Heavy 39 4
AB 51 .19 Medium 39 2½

One dozen in a bundle.

#### BACK BAND WEB



SOLD ONLY IN FULL ROLLS

WHITE COTTON

Nos.	Per Foot	No. Cotton		Wt. Per Roll, Lbs.
AB 0/4	\$0.06	0	4	81/2
AB 0/5	.08	0	5	10
AB 1/4	.041/2	1	4	51/2
AB 2/4	.04	2	4	51/4

100 feet in a roll. One roll in a package.

#### BACK BAND HOOKS



Heavy stamped steel, black japanned.

For 4-Inch Webbing.

AB 90-Weight per dozen pairs 9 lbs ......Per Pair \$0.15

For 5-Inch Webbing.

AB 95-Weight per dozen pairs .19 ....Per Pair 101/2 lbs. ..



Heavy wrought steel, black japanned with 10-gauge steel wire latch.

		For			Weight Per Doz.
Nos.	Per Pair	Webbing, Inches	Lgth., Inches		Pairs, Lbs.
AB 40	\$0.15	4	45%	31/2	7
AB 45	.15	5	5%	31/2	9
	1	Packing-bu	ılk.		

#### BELLY BANDS HARNESS LEATHER



#### For Chain Harness

With 17-inch billets and 23-inch band made up 40 inches. Japanned roller buckle and leather loop, sewed.

#### BLACK

Nos.		Each	Size, Inches	Wt. Per Doz., Lbs.
AB 816/11/4	HEAVY	WEIGHT \$0.50	LEATHER 114	7
AB 816/11/2		.55	11/2	9
AB 816/13/4		.75	1%	11
AB 816/2		.85	2	13

MEDIUM WEIGHT LEATHER 11/2 .59 81% AB B0111/2



Folded, with sewed layer. Roller buckles and leather loops sewed. Made up 23 inches long.

Nos.	Each	Width, Inches	Wt. Per Doz., Lbs.
AB B62B1 1/4 AB B62B1 1/2	80.95 1.10	11/4	13 15
AB L62B11/4	LATIGOTAN 1.10	11/2	15

Single strap 2 inches wide with 14-inch layer sewed on. 14-inch roller buckle and leather loop.

BLACK

AB B165—Weight per dozen 12 lbs..... Each \$0.80

One-half dozen in a package.

#### BELLY BAND BILLETS

BLACK LEATHER



AB 1750/11/2-Weight per dozen 4 lbs...... Each \$0.40

One-half dozen in a package.

#### BREAST STRAPS

HARNESS LEATHER



#### WITH HARDWARE

Two-ply-width 11/2 inches. Made up 28 inches long. Japanned slides in center. Breast snaps and buckles on end.

#### BLACK

AB BD-Weight per dozen 341/2 lbs. \_\_\_\_ Each \$1.45

#### WITHOUT HARDWARE

Made up 56 inches long, with buckle and leather loop sewed 8-inch lap liner around buckle Japanned trimmed.

Extra Heavy-Single Ply



#### BLACK LEATHER

Nos.	Each	Width, Inches
AB BC0/11/2	\$0.95	11/2
AB BC0/13/4	1.15	1%
	LATIGOTAN	
AB LC0/11/2	.95	11/2
	Weight per dozen 18 lbs.	



#### WITHOUT HARDWARE

Heavy single strap.

Made up 56 inches long with roller buckle and twin loops, riveted. 8-inch lap liner around buckle. Japanned trimmed.

#### LATIGOTAN

Width 11/2 inches.

AB L3J11/2-Weight per dozen 16 lbs..... Each \$0.95

WELL Them

RIA	CK	事 事(3)	ATHER	

Nos.	Each	Width, Inches	Dozen, Lbs.
AB B3J11/2	\$0.95	11/2	16
AB B3J1 ¾	1.10	1%	18

Single strap—width 11/2 inches, length 41/2 feet, with twin loop, riveted. BLACK

AB B2340-Weight per dozen 16 lbs...... Each \$0.95

One-quarter dozen in a package.

#### HAME STRAPS

Medium grade harness leather. Riveted, No. 74J japanned roller buckles and japanned wire tuck loops.

> Made Up 21 Inches Long Black

Nos. AB B7/21/1/8 AB B7/21/1 AB B7/21/11/8	Each \$0.15 .17 .19	Size, In. % 1 11/8	Doz., Lbs. 11/6 23/4 2
AB B7/24/1	Made Up 24 Inches Long \$0.21	1	31/4

\$0.21

Heavy single strap selected harness leather. Roller buckle and twin loops, riveted. Made Un 21 Inches Long

14176	Black	Size,	Wt.
Nos.	Each	In.	Lbs.
AB B10A1	\$0.19	1	21/2
AB B10A11/8	.23	11/8	3
	Latigotan		
AB L10A1	.19	1	21/2
Mac	de Up 24 Inches l	Long	
AB B10/24A1	\$0.23	1	3
AB B10/24A11/8	.25	11%	31/2
	Latigotan		
AB L10/24A1	.23	1	3
	TEAM		

(ESI)

Heavy single strap selected black harness leather; sewed. No. 50J japanned roller buckles. Leather loops.

	Made Up 21 Inch	es Long	Wt. Per
		Size,	Dozen,
Nos.	Each	Inches	Lbs.
AB 600/1	\$0.23	1	134
AB 600/11/8	.25	11/8	2
AB 600/11/4	.29	11/4	21/4

Heavy single strap selected harness leather. Sewed roller buckle and leather loops.

	Made Up 24 Inch	ies Long	Wt. Per
**	Theole	Size,	Dozen,
Nos.	Each	Inches	Lbs.
AB 686/1	\$0.25	1	3
AB 686/11/8	.29	11/8	31/2

Two-ply Latigotan leather. Double and stitched. Japanned roller buckles. Leather loops sewed on. Brade Tto Of York or Family

Nos. AB 50/1 AB 50/1½	Each \$0.29 .35	Size, Inches 1	Wt. Per Dozen, Lbs. 21/4 21/2
E	<u> </u>		

Doubled and stitched. Heavy black harness leather top and latigotan leather bottom. Japanned roller buckle and twin loop, riveted. Made up 21 inches long, width AB 251—Weight per dozen 3 lbs...... Each \$0.19

One dozen in a package.

#### HAME STRINGS

#### KNOTTED



WH

Good quality split chrome flexible leather. % inch wide. Made up 34 inches long.

AB HS 1/8 - Weight per dozen 1¼ lbs...... Each \$0.15

One dozen in a package.

#### COLLAR STRAPS



Harness leather. Heavy single strap. Twin loop and roller buckle, riveted.

Made Up 28 Inches Long

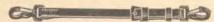
Wt.
Doz., Lbs.
3
4
3
4

Single strap % inch. Twin loop, riveted. Length 24 inches.

AB BC10/24B-Weight per dozen 31/2 lbs.....Each \$0.19

One dozen in a package.

#### CHECK-UP STRAPS



Harness leather. Single strap %-inch wide. Spring snap sewed at one end. Reverse buckle and spring snap at other end.

AB B142—Black ......\$0.49

One-half dozen in a package. Weight per dozen 6 lbs.

## CHOKE STRAPS



leather. Harness 11/2-inch. Sewed and reverse buckle with ring in rear end. Loop for belly band. Loose slide for collar strap. Buckle and billet at front end.

AB B20—Black ..... .....\$1.00

AB L20—Latigotan ...... 1.00

One dozen in a package. Weight per dozen 131/2 lbs. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### POLE STRAPS

Each

\$1.20

1.45



Nos. AB 646/13/4

AB 646/2

Heavy single strap leather, with ring in rear, with safe. Loop for belly band. Buckle and leather loop at front end. Loose ring for collar strap.

Wt. Per
Dozen,
Lbs.
21/2
2 1/8



Heavy single strap harness leather, with ring sewed in rear end. Buckle and leather loop at front end. Loose slide for collar strap.

Wt. Per

	Mark Control	Size,	Dozen,
Nos.	Each	Inches	Lbs.
AB B18/11/2	\$1.00	1%	14
AB B18/13/4	1.15	1%	15
La	tigotan-Width 1	1½ Inches	
AB L18/11/2-W	eight per dozen	14 lbsEa	ch \$1.00
Harness leather, Moline pole stra slide.	width 1½ inches p buckle on from	s. Dee in rear at end with col	end and lar strap
		TCa	ch \$0.98
AB L621—Latig	otan	Еа	ch .98

Weight per dozen 14 lbs. One dozen in a bundle.

#### SPREAD STRAPS



Harness leather, width % inch with buckle, ring and slide loop. Length over all, buckled, 12¾ inches.

#### BLACK

AB BLSJ—Japanned ringsEac	h \$0,17
AB BLSC—Celluloid ringsEac	h .23
AB BLSD—Duranold rings Eac	h .19
LATIGOTAN	
AB LLSC—Celluloid rings Eac	h \$0.23
AB LLSD—Duranoid rings Eac	h .19
One dozen in a package. Weight per dozen 2	lbs.

#### MARKET STRAPS



Harness leather, width 1½ inches. Roller buckle and leather loop, sewed, with slide loop. Length 30 inches.

AB B229½—Black	inches. Per	Pair	\$1.15
AB L229 1/2 Latigo	tanPer	Pair	1.15
******	A man dament makes # then		

Weight per dozen pairs 7 lbs.

Harness leather, width 1½ inches. Roller buckles and tuck loops, riveted. Slide loop. Length 30 inches.

AB B227—Black Per Pair \$1.10

AB L227—Latigotan ......Per Pair 1.10

Weight per dozen pairs 6 lbs. One dozen pairs in a bundle.

#### SIDE STRAPS



Heavy single strap harness leather. No. 50 buckle and leather loop sewed with extended 6-inch lap around buckle. Made up, length 5½ feet.

	Black		Wt. Per
Nos.	Each	Size, Inches	Dozen, Lbs.
AB B564/1	\$0.75	1	81/4
AB B564/11/8	.80	11/8	91/2

Latigotan-Width 11/8 Inches

AB L564/11/8-Weight per dozen 91/2 lbs....Each \$0.85



Harness leather. Single reverse, width 14 inches, th spring snap at

in breeching dee. Economy buckle with spring snap at front and Economy buckle at rear.

	Black		****
Nos.	Each	Width, Inches	Wt. Per Dozen, Lbs.
AB B3/11/8	\$0.55	11/4	3%
AB B3/11/4	.60	114	434
AB L3/11/8	.55	11/8	384
AB L3/11/4	.60	114	4.8%
	One dozen in a	bundle.	74

#### LAZY STRAPS

Single strap 1% inches with 2½-inch safe, roller buckle and reverse loop, sewed. Measures 12 inches when buckled up. Outside safe spotted.

AB B277/11/8—Black ......Per Set (4) \$2.19 AB L277/11/8—Latigotan .....Per Set (4) 2.19

Harness leather; 1-inch strap, with 1%-inch liner.

AB B62LS—Black .......Per Set (4) \$1.49

AB L62LS-Latigotan ......Per Set (4) 1.49

Single strap, 1 inch, with 2¼-inch safe, riveted. Conway buckle. Length when buckled up, 12 inches.

GOOD QUALITY HEAVY LEATHER
AY B71—Black ......Per Set (4) \$1.19

AY L71—Latigotan ......Per Set (4) 1.19

MEDIUM QUALITY, MEDIUM WEIGHT LEATHER In Black Only

AY B2083—Weight per set 11/4 lbs. ......Per Set (4) \$1.19

One set in a package.

#### DEATHER TRACES



Three-ply harness leather. Scalloped safes at hames. Reinforced at hame end. Sewed around bolt. No. 45 screw pin. Six-link polished heel chain 18 inches long. Flat stay strap.

Length 6 feet.

Black		Size	Rows
		Bil-	of
	Width.	let.	Stitch

Wt.

Per 1- Set. ing Lbs. Per Set, (4) Ins. Ins. Nos. 1% 2 22 \$18.00 11/2 AB B140/11/2 3 25 AB B141/13/ 21.00 134



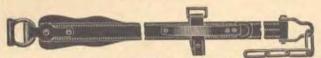
Harness leather, folded. Width 2½ inches. Stitched at end, open in center. Belly band billets, width 1½ inches. Flat stay straps to hold market straps and belly band in Dee for side straps. No. 60 heel chain 18 inches place. Dee for s long, clipped on.

Length 6 feet.

AB B567—Black ......Per Set (4) \$19.50

AB L567—Latigotan ......Per Set (4) 19.50

Weight per set 23 lbs.



Heavy harness leather, doubled and stitched. Scalloped safes at hames, with jointed hame attachments. Six-link heel chain, with screw dee and swivel sewed in. Belly band billets, flat stay strap.

Nos.	Per Set, (4)	Width,	Bil- lets, Ins.	Rows Stitch- ing		
AB 424/11/2	\$16.50	11/2	114	2	17	
AB 424/13/4	18.75	13/4	11/2	3	20	

Three-ply solid harness leather. Three rows stitched. Belly band billets, width 1½ inches. Safe at front end of trace with jointed hame clip. No. 45 six-link heel chain. Length 6 feet.

	Width.	Weight Per
r Set (4)	Inches	Set, Lbs.
\$17.50	11/2	23
19.50	1%	26
	Contract Contract	or Set (4) Inches \$17.50 1½

Latigotan

Nos.	Per Set (4)	Width, Inches	Weight Per Set, Lbs.
AB L631/11/2	\$17.50	11/2	23
AB L632/13/	19.50	1%	26

Three-ply harness leather, doubled and stitched. Two rows stitching. Belly band billets, width 1¼ inches. Jointed clip at hame. Six-link heel chain sewed in. Length 6 feet.

Black

AB B571/11/2-Width 11/2 inches. Weight per set 23 lbs. .....Per Set (4) \$15.75

AB B572/13/4-Width 13/4 inches. Weight per set 26 lbs. Per Set (4)

One set in a bundle.

#### LEATHER TRACES



Three-ply solid harness leather. Doubled and stitched. Three rows stitching. Width 1% inches. Scalloped safes at hame end. Flat stay straps and 1½-inch belly band billets. No. 60 heel chain clipped on.

Length 6 feet.

AB B246/13/4—Black ......Per Set (4) \$16.50

AB L246/13/4—Latigotan Per Set (4) 16.50

Weight per set 25 lbs.

Three-ply solid harness leather, doubled and stitched. Two rows stitching. Scalloped at hame end. Flat stay strap. Belly band billets, width  $1\frac{1}{2}$  inches. No. 45 heel chain sewed in.

Length 6 feet.

	Black		
	Per	Width,	Wt. Per
Nos.	Set, (4)	Inches	Set, Lbs.
AB B6214/11/2	\$16.50	11/2	22
AB B6214/13/4	18.75	1%	26



Three-ply solid harness leather, doubled and stitched. Hook at front end. Japanned cockeye sewed in rear end. Length 6 feet.

Black Width, Weight Per Set, Lbs. Per Set (4) Inches Nos. 12 AB B663/11/2 \$11.75 11/4 134 AB B664/13/4 13.50 15 Latigotan Width, Weight Per Per Set (4) Inches Set, Lbs. Nos. AB L663/11/2 \$11.75 11% 12



134

15

13.50

AB L664/13/4

#### FOR TEAM HARNESS

Three-ply solid leather, doubled and stitched, with sewedin triangular cockeyes. Length 6 feet.

Nos.	Per Set (4)	Width, Inches	Weight Per Set, Lbs.
AB 400/11/2	\$10.85	136	10
AB 400/13/4	12.85	1%	11
		- mail	

One set in a bundle.

#### TRACE LOOPS AND BILLETS



Harness leather. Sewed lap with dee in top to buckle market strap.

AB B1720/11/4-Width 11/4 inches. Weight per

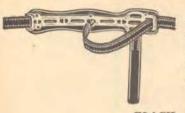
AB B1720/11/2-Width 11/2 inches. Weight per dozen 4½ lbs......Each .35

Latigotan

AB L1720/11/2-Width 11/2 inches. Weight per dozen 41/2 lbs. Each \$0.35

One dozen in a package.

#### HAME TUGS



XC metal Moeller plate with leather safe under plate. Doubled and stitched leather billets to attach to hames. Leather belly teard billets. band billets.

#### BLACK

Nos.	Per Set,	Tugs, Inches	Per Set,
AB B462/11/2	\$6.45	11/2	8
AB B464/11/4	6.90	1%	9
	LATIGOTAN		
AB L462/11/2	\$6.45	11/2	8
AB L464/13/4	6.90	1.%	9
	One set in a bundle.		

#### CHAIN PIPING



For Covering Trace Chains on Chain Harness.

Heavy black harness leather. Cut 5½ inches wide. Folded, sewed and riveted, with leather cuff at each end. Opening for belly band 10 inches from end.

Nos.	Each	Length, Inches	Wt. Doz., Lbs.
AB B536	\$0.85	36	121/2
AB B540	.95	40	16
AB B542	1.00	42	18
	One-third dozen in	a bundle.	

#### HITCHING STRAPS

Single strap harness leather, with that spring snap sewed on one end. Length 6½ feet.

Nos.	Each	Size, Inches	Wt. Per Dozen, Lbs.
AB 742/3/4	\$0.49	34	41/2
AB 742/7/8	.55	7/8	51/2
AB 742/1	.60	1	61/2
AB 742/11/8	.65	11/8	71/2
	One-half dozen in a	package.	- 6000

#### LEATHER CHECK LINES



Harness line leather, standard medium weight. Creased edges, all laps sewed. Imitation rubber bolt snaps sewed in bit ends. Center bar buckles at checks; centers at short checks. Japanned buckles.

#### BLACK LEATHER

Nos.	Per Pair	Made Up, Size	Doz. Pairs, Lbs.
AB B4D18/1	\$4.25	18 ft. x 1 in,	50 -
AB B4D18/11/8	4.95	18 ft. x 1 1/2 in.	56
AB B4D18/11/4	5.25	18 ft. x 11/4 in.	62
	One pair in a	package.	

#### LEATHER CHECK LINES

Double and stitched centers. No. 1880 buckles and spring snaps at bit end. No. 200 line buckle on short check. HEAVY, FIRM LINE LEATHER; reinforced where short

Size 20 Feet x 11/8 Inches

AB B1880—Black Per Pair \$6.75 AB L1880—Latigotan Per Pair 6.75

checks buckle. Length inside checks, 61/2 feet

Weight per dozen pairs 80 lbs.

HEAVY, FIRM LEATHER; reinforced where short checks buckle. Length inside checks, 9 feet.

Size 18 Feet x 11/8 Inches

AB L41889—Latigotan Per Pair 6.50

Weight per dozen pairs 82 lbs.

MEDIUM WEIGHT LINE LEATHER. Not reinforced in center. Length inside checks, 61/2 feet.

	Black		
Nos.	Per Pair	Size, Made Up	Pairs Lbs.
AB B41880/18/1	\$5.50	18 ft. x 1 in.	65
AB B41880/18/11/8	5.50	18 ft. x 1 1/8 in.	7.0

Latigotan-Size 18 Feet x 11/8 Inches AB L41880/18/11/8 - Weight per dozen pairs 70 lbs. Per Pair \$5.50

HEAVY WEIGHT LINE LEATHER, with roller buckles and leather loop. Moline rein buckle at check. All laps sewed and riveted. Length inside checks, 6½ feet,

Japanned buckles.

Size 20 Feet x 11/8 Inches Black

AB B41880CE—Weight per dozen pairs 72 lbs. Per Pair \$7.00

HEAVY, FIRM LINE LEATHER. Double and stitched centers, reinforced where short checks buckle. Japanned buckles and flat spring snaps. Rein buckle at checks.

Weight Per Size, Doz. Pairs, Nos. Per Pair Made Up Lbs. AB 362/18/11/8 \$5.25 18 ft. x 1 1/2 in. 66 AB 364/20/11/8 20 ft. x 1 1/8 in. 6.25 70

Good quality, MEDIUM WEIGHT HARNESS LEATHER, with all laps sewed. Imitation rubber bolt snaps sewed in bit end. Center bar bolt on short check. Short check centers not reinforced.

Rlank

		Weight Pe	
Nos.	Per Pair	Size, Made Up	Doz. Pairs Lbs.
AB 750/16/11/8	\$4.00	16 ft. x 1 1/4 in	. 51
AB 750/18/11/8	4.35	18 ft. x 11/8 in	. 54

Good quality, MEDIUM WEIGHT HARNESS LEATHER. Imitation rubber snap looped in bit end. No. 1880 buckle on front ends. Center bar buckle on short check. Short check not reinforced.

> Black With Bolt Snap in Bit End Size 18 Feet x 136 Inches

AB 188/18/11/8 - Weight per dozen pairs Per Pair \$4.75

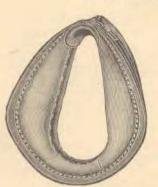
With Spring Snaps in Bit End Size 18 Feet x 1 Inch AB B75188/1—Weight per dozen pairs 60 lbs. Per Pair \$4.75

One pair in a package.

# SIMMONS HORSE COLLARS

• PERFECT FITTING • LONGER WEARING

With Gall Cure Hair Pads

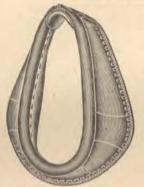


#### EXTRA HEAVY TEAM ALL FAIR LEATHER About 18-Inch Draft

Extra heavy selected kip stock with thong sewed inseam and ribbon lace thong sewed outseam. Solid back, with wide extended back fender. Pressed sole leather pad, thong sewed in 1¼-inch buckle and billet, top thong sewed on. Large solid rim.

Sizes 18 to 22 Inches AB S352F-Straight pattern. Average weight per dozen 102 lbs..... Each \$5.95

Each collar in an individual paper bag.



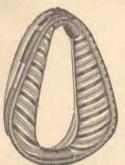
#### HEAVY DUTY ALL FAIR LEATHER

About 17-Inch Draft

Heavy selected kip leather with thong sewed inseam and ribbon thong sewed outseam, Pieced back with extra hame hig at draft. Large solid rim—pressed sole leather pad. 14-inch buckle and billet.

AB S155F-Straight Pattern. AB S0155F-Half Sweeney Shape.

Size, nches	Each AB S155F	Each AB S0155F	Wt. Per Doz., Lbs.
18	\$4.85	********	100
19	4.85	\$4.85	103
20	4.85	4.85	106
21	4.85	4.85	109
22	4.85	4.85	112
23	5.35	5.35	115
24	5.95	5.95	118
25	6.50	6.50	121

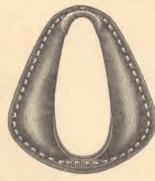


#### About 1714-Inch Draft

Fair split leather rim. Heavy white duck back with extra split leather hame and line lugs. Turned outseam, with two rows thread stitching. Pressed sole leather neck pad. Tick face. Leather throat lugs. 1¾-inch buckle and billet.

AB S4-Straight Pattern. AB S04-Half Sweeney Shape.

Size,	Each	Each	Wt. Per
Inches	AB S4	AB S04	Doz., Lbs.
17	\$1.95	\$1.95	56
18	1.95		59
19	1.95	1.95	62
	1.95	1.95	65
20 21 22	1.95	1.95	68
23	1.95	1.95	71
	2.19	2.19	74
24	2.39 One-half do:	zen in a carton.	77



# Russet kip leather back and rim, with black soft hair flexible leather face. Thong sewed inseam. Thong ribbon lace-sewed outseam, with ribbon sewing at throat curved in, making it throatless; 1¼-inch buckle and billet, thong - sewed. Sole leather peck pad Sole leather neck pad. AB S170B - Straight pattern. AB S0170B - Half Sweeney shape. In

Size, iches	Each AB S170B	Each AB S0170B	Wt. Per Doz.,Lbs.
18	\$5.75	\$5.75	115
19	5.75	5.75	118
20	5.75	5.75	121
21	5.75	5.75	123
22	5.75	5.75	126
23	6.00	6.00	129
24	6.75	6.75	132



#### HEAVY DUTY About 16-Inch Draft

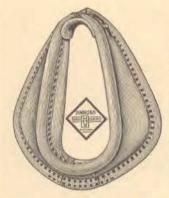
HEAVY DUTY-With Gall

Cure Hair Face

About 17-Inch Draft

California russet oak collar, leather back and rim. Black leather hame chafes. Soft black shoe leather face. Cushion padding. Patented hand thong sewed middle seam. Thong sewed outside seam. Thong sewed buts... seam. Extended welt. Pressed sole leather pad;

Sizes 17 to 22 Inches #AB S450-Average weight per dozen 96 lbs. ..... Each \$5.25



#### HEAVY DUTY ALL FAIR LEATHER

About 18-Inch Draft

Full back and rim. Russet California oak collar leather back, rim and throat piece. Russet oak collar leather face. Patented thong sewed middle seam. Thong sewed outside seam with 1%-inch extended welt. Extra row of thong sewing on throat. Pressed sole leather neck pad. 1¼-inch buckle and billet.

Sizes 17 to 22 Inches

#AB S575-Average weight per dozen 120 lbs. .....Each \$7.50

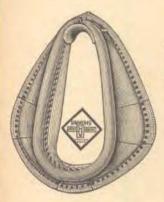
One-half dozen in a carton.

When ordering-state number and size wanted.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory. Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added,

# SIMMONS HORSE COLLARS

## • PERFECT FITTING • LONGER WEARING



# HEAVY DUTY ALL FAIR LEATHER About 17-Inch Draft

California russet oak collar leather back, rim, hame chafe and throat piece. Russet oak collar leather face. Cushion padding. Patented hand thong sewed middle seam—thong sewed outside seam. Extended welt. Pressed sole. Leather pad. 1½-inch buckle and billet.

Sizes 17 to 22 Inches

#AB S475 — A verage weight per dozen 102 lbs. ..... Each \$5.85



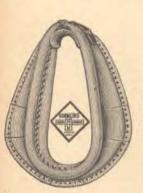
1¼-inch buckle and billet. AB SL30—Straight pattern.

AB SL030-Half Sweeney shape.

With Patent Fasteners

AB SL030P — Half Sweeney shape.

Size, In.	Each AB SL30	Each AB SL030	Each AB SL030P	Wt. Doz., Lbs,
17	\$5.25	\$5.25	*******	90
18	5.25	5.25	\$5.29	94
19	5.25	5.25	5.29	98
20	5.25	5.25	5.29	102
21	5.25	5.25	5.29	106
22	5.25	5.25	5.29	110
23	5.95	5.95	*******	114
24	6.45	6.45	******	118
25	7.45	7.45	*******	122



## ALL FAIR LEATHER

Strong—Long Lasting About 15-Inch Draft

California russet oak collar collar leather back, rim and hame chafes. Russet oak collar leather face. Cushion padding, Patented hand thong sewed middle seam. Thong sewed outside seam. Pressed sole leather padlinch buckle and billet.

Sizes 17 to 22 Inches

One-half dozen in a carton.



#### Good Quality—Practical About 16-Inch Draft

Heavy russet back and rim. Russet collar leather face. Hand thong sewed middle and outseam. Black leather pad; 1-inch buckle and billet.

Sizes 17 to 22 Inches

\*AB S375—Average weight per dozen 86 lbs......Each \$4.39



#### SOFT FLEXIBLE COLLAR About 15-Inch Draft

The leather in this collar will remain soft and pliable and fit perfectly to any shaped animal neck. It is treated to withstand animal heat and perspiration and will not rub nor cause sore necks if used without sweat pad.

Latigotan soft flexible leather. Pieced back with extra lug at hame draft. Thong sewed inseam. Ribbon sewed outseam. Pressed sole leather neck pad. 1-inch buckle and billet at top.



## HEAVY DUTY

About 161/2-Inch Draft

Russet kip face. Russet split back and rim. Pieced back, with kip hame lug at draft. Thong sewed inseam and outseam. Pressed sole leather pad; 1¼-inch buckle and billet.

AB 350—Straight pattern. AB 0350—Half Sweeney shape.

Size, Inches	Each AB 350	Each AB 0350	Wt. Per Doz., Lbs.
17	\$3.49	\$3.49	77
18	3.49	3.49	81
19	3.49	3.49	84
20	3.49	3.49	87
21	3.49	3.49	90
22	3.49	3.49	93
23	3.89	3.89	95
24	4.19	4.19	98

One-half dozen in a carton

Note: When ordering-state number and specify size wanted.

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# SIMMONS HORSE COLLARS

PERFECT FITTING
 LONGER WEARING

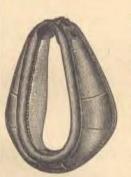


#### Good Quality-Practical About 17-Inch Draft

Heavy russet split leather back Heavy russet split leather back and rim. Split leather hame chafe and throat piece. Split chrome leather face. Jumbo cushion padding. Double thread stitched middle seam. Double thread stitched outside seams. Pressed sole leather neck pad. I-inch buckle and billet.

AB 275-Straight pattern.

Size, Inches	Each	Wt. Per Doz., Lbs.
		The second second
17	\$2.98	93
18	2.98	96
19	2.98	99
20	2.98	102
21	2.98	105
22	2.98	108
23	3.69	111
24	4.19	114



#### Practical, Good Quality Leather About 15-Inch Draft

Heavy russet split leather back and rim. Split leather hame chafes and throat pieces. Split chrome leather face, with heavy cushion padding. Double thread stitched middle seam and out-seam. Pressed sole leather neck pad. 1-inch buckle and billet.

#### Sizes 17 to 22 Inches

#AB S225-Average weight per dozen 84 lbs....Each \$2.39



#### Practical-Economical About 1714-Inch Draft

Heavy white duck back with chrome split leather hame chafe, line chafes and throat pieces. Heavy 5-inch web rim with heavy ticking face. Hair padding. Wide thread, three-row stitched middle seam with leather welt. Double thread leather welt. Double thread stitched outside seam. Pressed sole leather top pads. 1-inch buckle and billet.

Sizes 17 to 22 Inches

#AY S250-Average weight per dozen ..... Each \$1.98

One-half dozen in a carton.

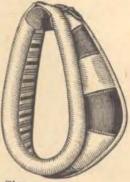
#### About 161/4-Inch Draft

Heavy tick face-fair split leather back, 6-inch web rim. Thread-sewed outseam with leather welt. Pressed sole leather neck pad; 14-inch buckle and billet.

Sizes 17 to 22 Inches

AB S950 - Straight pattern. Average weight per

dozen 68 lbs..... Each \$1.69



## Serviceable-Economical

About 161/2-Inch Draft

Heavy white duck back, with split leather hame and line lugs. Web rim. Striped ticking face. Pressed sole leather neck pad; 1¼-inch buckle and billet.

AB S34-Straight pattern.

Size,		Wt. Per
Inches	Each	Doz., Lbs
17	\$1.49	66
18	1.49	69
19	1.49	72
20	1.49	75
21	1.49	78
22	1.49	81
23	1.59	84
24	1.79	87

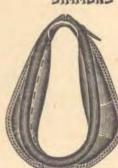


#### Serviceable-Economical About 15-Inch Draft

Striped ticking face—white duck back and rim. Fair split hame, line and throat lugs. Pressed sole leather neck pad. 1-inch buckle and billet.

AB S600 - Straight pattern. Average weight per dozen 17 lbs. Each \$1.29

#### SIMMONS MULE COLLARS



ALL FAIR LEATHER—HEAVY DUTY—Snug Fitting About 161/2-Inch Draft

All kip leather. Pieced back with extra lug at hame. Thong sewed ribbon outseam with high draft and Inswell making perfect fit for mules. 14-inch buckles and billets at top. Pressed sole leather pads.

Sizes 17 to 21 Inches

AB S92-Average weight per dozen 87 lbs. ..... Each \$4.95

One-half dozen in a carton.

When ordering-state number, and specify size wanted.

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# HORSE COLLARS



#### ALL FAIR LEATHER About 17½-Inch Draft

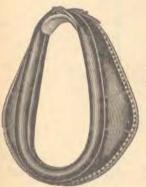
Heavy selected leather, with hame chafe and throat piece. Thong sewed middle seam and outseam—extended welt. Hair face pad. Sole leather neck pad. 1½-inch buckle and billet.

Sizes 18 to 22 Inches

AB 90—Average weight per dozen

85 lbs. .....Each \$5.45

One-half dozen in a carton.

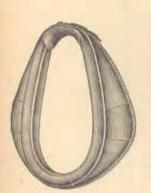


#### TEAM About 16-Inch Draft

All black oil grain upper leather. Whole rim. Pieced back. Thong sewed throughout. Hair face. Sole leather neck pad—1-inch buckle and billet at top.

Sizes 18 to 22 Inches

One-half dozen in a corrugated paper box.



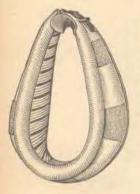
#### MEDIUM WEIGHT TEAM About 15-Inch Draft

He a v y split leather. Fair leather pieced back and rim. Best grade grey chrome leather face. Thread sewed throughout. Semi-throatless. Sole leather neck pad—1-inch buckle and billet at top.

Sizes 17 to 20 Inches

AB 225KW — Straight
pattern. Average
weight per dozen 74
lbs. ——Each \$2.29

One-half dozen in a burlap sack.



#### About 1714-Inch Draft

White duck back, with split leather reinforcements and throat piece. Heavy 6-inch rim—ticking face. Jumbo cushion padding. Two-row stitched middle seam. Stitched outside seam, with outside leather welt. Pressed sole leather neck pad. I-inch buckle and billet.

Sizes 16 to 21 Inches

AB 175—Straight pattern. Average weight per dozen 86 lbs.......Each \$2.19

One dozen in a burlap sack.



#### TEAM

#### About 161/2-Inch Draft

Heavy split leather back and rim, with hame chafe and throat piece. Extra quality 8-oz. tick face. All thread sewed. Sole leather neck pad. 11/4-inch buckle and billet.

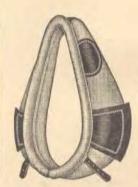
Sizes 17 to 22 Inches

AB 14—Straight pattern. Average weight per dozen 90 lbs..... Each \$1.79

Sizes 19 to 22 Inches

AB 014—Half Sweeney shape. Average weight per dozen 90 lbs..... Each \$1.79

One-half dozen in a carton.



## LANKFORD'S FLEXICURE

(Patented)

Cotton Filled—Anti-Chafing

Made on scientific principles to fit perfectly. Will cure and prevent galls and sore shoulders. Collar is open at bottom allowing it to follow animal's shoulder while in motion and permits removing collar, hames and harness at one time.

Heavy sail duck, with heavy leather chafes. Well sewed throughout. Stuffed with specially prepared and medicated absorbent cotton that has remarkable healing properties and Open at bottom, stuffed over too.

will not become hard. Open at bottom, stuffed over top. Fitted with straps and buckles for holding hames.

Sizes 16 to 23 Inches

AB PLF-Average weight per dozen 70 lbs... Each \$1.49

One-half dozen in a burlap sack.



#### About 15-Inch Draft

Russet split leather back and rim. Split leather hame chafes and throat piece. Striped ticking face. Sewed middle seam. Pressed sole leather neck pad. %-inch buckle and billet.

Sizes 15 to 19 Inches

AB 150—Straight pattern. Average weight per dozen 63 lbs. Each \$1.39

One dozen in a burlap sack.

## GALL SALVE



#### BICKMORE'S

An astringent and antiseptic ointment for treating harness galls, wire cuts and other sores, on horses and cattle.

In 2 Oz. Metal Cans

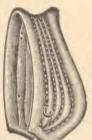
AB 5—Weight per dozen 1½ lbs. Each \$0.35

One dozen cans in a carton.

Note: When ordering-state number and specify size wanted.

# SWEAT PADS

## COLLAR PADS PREVENT SORE SHOULDERS

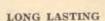


#### 100% DEER HAIR STUFFING NON-IRRITATING-COOL

Yellow and white drill (yellow outside, white inside) Five rows quilting. Plain eye. Four steel japanned spring hooks, riveted to pad.

12 inches wide from seam to seam at hame chafe or broadest point.

Sizes 21 to 26 Inches AY 60M-Average weight per dozen 26 lbs..... Each \$0.98

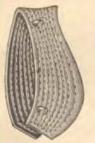


Blue striped heavy awning (drill) with plain edge. Four japanned steel hooks (two on each side). Five rows quilting. Jute stuffing.

AB 80-Average weight per dozen 26 lbs...... Each \$0.79

Width given is from seam to seam at hame chafe or broadest point below quilting.

Size, In. Width, In.	19 13	20 14	21 14	22 14
Size, In.	23	24	25	26
Width, In.	14	14	14	14



#### STUFFED EXTRA THIN

Enamel drill face and brown drill back. Seven rows quilting. Composite stuffed. Four japanned steel spring hooks. Width 11 inches.

Sizes 19 to 26 Inches.

AY 148T-Average weight per dozen 32 lbs..... Each \$0.69

#### U. S. THINNER PADS

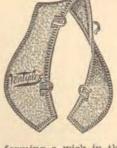
A pad of excellent quality, well made but thinner and lighter than regular style sweat pads.

Blue color drill with extended red felt edges. Four japanned steel spring hooks. Seven rows of quilting. Jutine

11 inches wide from seam to seam at hame chafe or broadest point before quilting.

Sizes 18 to 26 inches.

AB11-Average weight per dozen 26 lbs..... Each \$0.59



## VENTIPLEX

Unusually Cooling
Made of several layers of wool hair and India fibre. A practical and special made fabric, so conand special made labric, so constructed that it forms a strong porous and yet soft material. The two facings are of long staple wool—next to each of these are stays of India fibre—the center is composed of coarse wool and hair.

The long wool fibres of the facings are interlaced through and through, from side to side—forming a wick in the thousands of small holes or pores in the fabric which carry the moisture to the outer side and permits of free circulation. Cooling—cures gall sores.

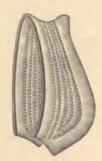
Washable, holes its share. Washable-holds its shape.

Gray fabric %-inch thick, heavy twine bound. Four black japanned steel hooks.

Sizes 18 to 24 Inches

AB V10-10 inches wide at hame chafe or widest

AB V11-11 inches wide at hame chafe or widest point ..... Each



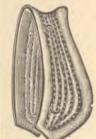
#### REVERSIBLE—WITHOUT HOOKS

Old gold drill. Jute stuffed, with five rows of quilting. Extended red felt edge.

AB 12R ......Each \$0.57

Width given is from seam to seam at hame chafe or broadest point before quilting.

Size, In. Width, In. 11 11 12 12 12 12 12



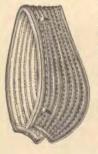
Old gold drill face and back with extended red felt edge. Four japanned steel spring hooks—riveted to pad. Five rows quilting. Jute stuffing.

Each \$0.49 AY 20 .....

Width given is from seam to seam at hame chafe or broadest point before quilting.

Size, In.	17	18	19	20	21
Width, In.	11	11	11	12	12
Size, In.	22	23	24	25	26
Width, In.	12	12	12	12	12

One dozen in a carton. Average weight per dozen 26 lbs.

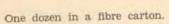


## SOLO Keeps Horse Dry and Cool This porous pad is cooling, prevents gall, is washable and holds its shape. Made of a fabric of several

layers of brown India fibre about % inch thick and bound with heavy twine. Four japanned steel hooks, 10 inches wide at hame chafe or widest point.

Sizes 18 to 23 Inches AB SO/10 — Average weight per dozen 15 Ibs. .... Each \$0.47

Two dozen in a carton.



Note-When ordering-state number, and specify size wanted.

#### COLLAR PADS



#### No. AY 5

#### GENUINE DEERSKIN Long Lasting

One-piece genuine North American deerskin, with American deerskin, with Straps and buckles

Specially Shaped. Size 51/2x61/4 inches. AB 5—Weight per dozen 6 lbs...... Each \$0.98

Flat (Not Shaped). Size 6x10 inches,

AB 610—Weight per dozen 8 lbs......Each \$0.95



#### LIGHTHOUSE (AIRFLOW)

These pads are made of genuine live sponge rubber. Cool, soft and healing. May be washed.

Flexible rubber is cold vulcanized to waterproof duck and will not sepa-rate. Complete with strong leather

straps riveted and clinched through leather reinforce-ments. Size 6½x10 inches.

AB 100—Weight per dozen 8 lbs.....Each \$0.89

Packing-bulk.



#### PRESSED ZINC Durable

These pads are made of high quality smooth pressed zinc and are designed for use under collars to prevent and cure galls. Fitted with two %-inch harness leather straps harness leather straps with buckles.

Nos.	Each	Size Nos.	Size In.	Doz., Lbs.
AB SZ61/2	\$0.69	61/2	54x4%	8
AB SZ71/2	.75	71/2	61/8 x 51/8	12
	Prince of the same of the			

Two dozen in a case.

#### BELL COLLARS LEATHER

Nos AB

AB

Nos

AB

AB

#### COW OR HORSE

Creased edges. Jap-anned bar buckles riveted on.

Made up length 36

s.	Each	Width, Inches	Wt. Per Dozen, Lbs.
3611/4	\$0.40	11/4	3
3611/2	.45	11/2	4



COW OR HORSI
Single strap black
harness leather
creased edges
Japanned ba
buckles, riveted
on. Leather loop
Made up lengtl
35 inches.

Wt. Per

	Each	Inches	Lbs.
3511/4	\$0.45	11/4	31/2
3511/2	.50	11/2	41/4
1		SHEE	P



Single strap black harness leather, width 14 inches.

Japanned roller buckles, riveted on, With leather loop. Made up length 22 inches.

AB 2211/4—Weight per dozen 21/4 lbs...... Each \$0.25

One-half dozen in a package,

# Modernize Your Living Room with

# SIMMONS

# FURNITURE

Highest Quality Materials and Workmanship Assure Years of Continuous Comfort. New Modern Styling and Fabrics Will Make Your Home Most Attractive.

# \*SADDLES

## FINEST QUALITY—FOR COMFORT, STRENGTH AND SMART APPEARANCE



WESTERN STOCK

 Handsomely Hand-Stamped Heavy Russet Skirting— Copper Hand-Riveted Stock.

Tree—Beef hide covered steel fork with 16-inch swell fork and leather-covered horn. Seat—15 inches. Beaded bound cantle. Seat and jockey in one piece.

Fenders—16½x9½ inches—doubled and securely stitched. Skirts—28x14 inches. Sheep wool lined with rounded corners

Stirrups—2½ inches brass-bound oxbow with foot leather—for added foot comfort.

Stirrup Leathers—3-inch, laced—with 3-inch extra lining to go around stirrups. Extra strong.

Riggings—1½-inch double rigging latigoes, to tie. 1¾-inch off billets to buckle. 1½x16-inch connecting straps, ½x28-inch rope snaps. 3-inch solid brass dees.

#AB 4731—Weight each 49 lbs.......Each \$75.75



TEXAS

Fair Leather— Fancy Stamped.

Tree — 14x10-inch steel fork with leather - covered horn.

Seat—And jockey in one piece.

Fenders — 14x7% inches.

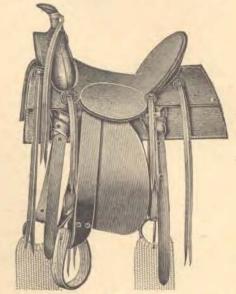
Skirts — 21½x11 inches, felt-lined. Stirrups — 2-inch oxbow.

Stirrup Leathers
—1/2-inch.

Riggings — 1½inch solid front strap. 1½-inch tie latigoes.

Girths—15-strand hair—stout, nonirritating.

# A B 3 0 7 — Weight each 22 lbs....Each \$23.75



TEXAS

Fair Leather—Smooth and Distinctive Plain Throughout.

 An excellent saddle for general use—built strong and sturdy—fine quality materials and workmanship throughout.

Tree—14½-inch, non-spreading, with 10-inch swell and leather-covered horn.

Seat-One-piece 141/2-inch seat and jockey.

Fenders—8x15 inches. Skirts—12x24 inches—felt lined.

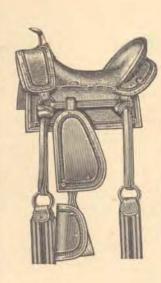
Stirrups-2-inch oxbow, extra lined for foot ease.

Stirrup Leathers—2-inch—strong, durable.

Riggings—1%-inch tie straps, 1%-inch off billets, to buckle, leather-covered rings.

Girths-14-strand hair-stout, non-irritating.

‡AB 680—Weight each 29 lbs..... Each \$33.75



LITTLE GENTS'
Fair Leather—Russet
Skirting Fancy
Stamped.

 Very high quality materials and workmanship attractive finish, neatly patterned.

Tree—Morgan style with nickel horn.

Seat — 12 inches with beaded cantle.

Fenders-6x10 inches.

Skirts-14x6 inches.

Stirrups-3-inch, leather-

Stirrup Leathers — 1-inch, to buckle.

Riggings — %-inch tie straps.

Girths—3 inches web. Sheep wool lined bars.

\*AY 1262—Weight each 12 lbs. ..... Each \$11.95

Packing-bulk.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### SADDLES



#### ENGLISH STYLE Fair Leather-Neat and Trim

17x10% inches, Tree straight.

Seat—Pigskin with pigskin impression skirts and jockeys.

Skirts—11 inches wide by 21 inches long from center of seat—grain leather pad sewed in.

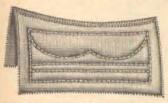
Stirrups-Nickeled.

Stirrup Leathers-11/4-inch —hooks onto bars.

Girths-4-inch heavy web. #AY 43-Weight each 16 lbs..... Each \$27.95

Packing-bulk.

#### RIDING SADDLE PADS OR BLANKETS



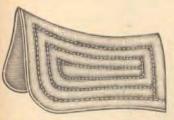
#### COMFORTABLE-LONG LASTING

Old gold drill. With pinked red felt edge and 5 rows quilting. Com-posite stuffing (cattle stuffing (tarsation), Reversa hair and jute). ible. Size 27x31 inches.

AB 30A-Weight per dozen 50 lbs......Each \$1.10

Heavy duck. One side old gold, other side red color. With pinked red felt and 5 rows quilting. Composite stuffing (cattle hair and jute). Reversible. Size 31x31

AB 20A-Weight per dozen 68 lbs......Each \$1.45



#### ROUGH RIDER

Economical-Practical Old gold drill. With extended plain edge and 6 rows quilting. Composite stuffing (cattle hair and jute). Size 26x32 inches.

AB 201—Weight per dozen 35 lbs......Each \$0.98

Two dozen in a burlap sack.

#### CINCHAS



#### TEXAS STRONG-WHITE COTTON

Nos.	Each	Strands	Width,
AB 160	\$0.45	15	536
AB 161	.57	20	7

One dozen in a package. Weight per dozen 8 lbs.

#### SPURS



Polished steel with 11/4inch blue steel rowel. 2%-inch curved shank. Four spur strap buttons.

#### Without Strap

AB 11761/2-Weight per dozen pairs 6 lbs. Per Pair \$1.65

#### With Black O.K. Spur Straps

AB 11761/28-Weight per dozen pairs 8 lbs. Per Pair \$1.75



Malleable iron. XC plate (tinned) with %-inch blued steel rowel. 1inch slightly curved shank. 1/2-inch spur strap loops.

#### Without Straps

AB 2006—Weight per dozen pairs 3 lbs.....Per Pair \$0.40

With 3/8-Inch Black or Fair Common Spur Straps

AB 2006S 1/8 — Weight per dozen pairs

2½ lbs. Per Pair \$0.50

One-half dozen pairs in a carton.

#### SPUR STRAPS

#### COMMON



Black or fair strap leather 16 inches long, % inch wide. XC plate (tinned) buckle, riveted on

AB 14 1/8 - Weight per dozen pairs % 1b...Per Pair \$0.15

One dozen pairs in a bundle.

#### O.K.



Black leather, with billet and tinned buckle riveted on. For use with No. AB 11761/2 spurs.

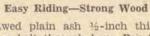
AB8 - Weight per dozen pairs 21/2 lbs.

Per Pair \$0.30

Packing-bulk.

#### STIRRUPS

#### TEXAS PATTERN



Sawed plain ash 14-inch thick Iron bolt through bar. Bar 11/4 inches in diameter, 3 inches long. Inside measurements 5 inches wide, 4% inches high. Width at bottom 5 inches.

AB 45—Weight per dozen pairs 24 lbs......Per Pair \$0.50

Packing-bulk.

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#### STEEL HAMES

#### STREAMLINE—BOLT DRAFT Are 60% to 70% Stronger Than

Wood Hames.

This hame is gracefully streamlined—its perfectly rounded shape fits snugly under the collar roll.

Welded steel body with hardwood filler. Has 2-inch brass ball, 2-inch one-stud line ring, loose bolt draft and bottom loop.

Hard baked black enameled finish with red

For 21 and 22 inch collars.

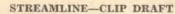
AY 522—Weight per dozen pairs 

Three dozen pairs in a case.

For 23, 24 and 25 inch collars - 21/2-inch draft bolt.

AY 524—Weight per dozen pairs 93 lbs......Per Pair \$2.98

Two dozen pairs in a case.



Are 60% to 70% Stronger Than Wood Hames.

This hame is gracefully streamlined-its perfectly rounded shape fits snugly under the collar roll.

Welded steel body with hardwood filler. Has 2-inch brass ball, combination loop, 2-inch one-stud line ring, 11/2-inch extra back strap ring and clip draft, hold back plate with 2-inch ring and bottom loop.

Hard baked black enameled finish, with red

For 21 and 22 inch collars.

AY 522C-Weight per dozen pairs 

#### STREAMLINE-LONE STAR RED-O-LITE UNBREAKABLE BALL

Are 60% to 70% Stronger Than Wood Hames

This hame is gracefully streamlined—its perfectly rounded shape fits snugly under the collar roll. The unbreakable Red-o-lite ball is permanently red and matches any harness

Welded steel body with hardwood filler. Has 2-inch Red-o-lite ball, 2-inch one-stud line ring, 1½-inch extra back strap ring, draft hooks with "Lone Star" attachment, 2-inch breast ring and bottom loop,

Attractive hard baked black enameled finish with red band.

For 21 and 22 inch collars.

AB 512LS-Weight per dozen pairs 75 lbs.......Per Pair \$2.49

Three dozen pairs in a case.

#### HAMES

#### LONE STAR - CONCORD, 3-LOOP STAGE

#### Adjustable Draft

Varnished hardwood, with flat steel back 2% inches wide, I inch thick at draft and 2 inches long. Top loops 11/8 inches wide-2-inch one-stud line ring-1%-inch wrough breast ring. Draft hook with "Lone Star attachments. All metal parts polished.

For 17 to 20 inch collars.

AB 61LS-Weight per dozen pairs 

#### LONE STAR-LIGHT PATTERN-3-LOOP STAGE Adjustable Draft

Varnished hardwood, with %-inch flat steel back extending around bottom. Size 2½ inches wide, 1 inch thick a draft, 25 inches long. Mortised top loops 1½ inches wide Loose bottom loop 1¼ inches wide, 1%-inch single studine rings, 1¾-inch breast ring, "Lone Star" adjustable draft. Fits 17 to 20 inch collars. All metal parts polished

AB 1LS—Weight per dozen pairs

Per Pair \$0.89

#### LONE STAR - NEW TYPE 3-LOOP STAGE Adjustable Draft

Varnished hardwood body, with mortised top loops. Structural channel steel back shaped and fitted snugly over the tongue on wood with projecting ends bent over at top and bottom and securely riveted. Loose bottom loop. All steel trimmings. "Lone Star" adjustable draft—1%-inch breast ring.

Hame is 25 inches long, 1% inches wide, inch thick at draft with 1%-inch single stud line ring.

For 17 to 20 inch collars.

AB 461LS-Weight per dozen 

For 19 to 22 inch collars.

AB 462LS-Weight per dozen 

One dozen pairs in a sack. Five dozen pairs in a case.

#### HAME TUGS



With Clips

Strong malleable iron tugs and hooks with wrought stee clips—japanned finish. Size 1½ inches. Length 12½

AB 474J11/2—Weight per set (4)

......Per Set (4) \$2.50



Strong malleable iron tugs and hooks-japanned finish.

			V	Vt. per
***	Per	Size,	Length,	Set,
Nos.	Set (4)	In.	In.	Lbs.
AB 471J11/2	\$2.85	11/2	121/8	514
AB 471J13/4	2.95	1%	121/8	634
	One set in a	carton		

#### HAME FASTENERS

"GGG"



Cadmium plated. Four-link twisted steel chain, with wrought steel frame and lever. Malleable hook on one end and malleable hook with

cotter or the other. Adjustable from 5 to 8 inches.

AB 1932-Weight per dozen 81/4 lbs......Each \$0.49

One dozen in a carton.

#### HAME FASTENERS OR CHAINS

#### SUCCESS



Wrought twist link chain 12 inches long, No. 3 wire. 172-inch steel hooks, with clipper snap to hold chain secure. Adjustable from 41/2 to 14

inches. Japanned finish.

AB 20-Weight per dozen 91/2 lbs.... Each \$0.45

One dozen in a carton.

#### HAME CLIPS



THREE-HOLE For wood hames

Wrought steel, polished. Tongues approximately 5¼ inches long; %-inch loop—inside measurement ¼ inch.

AB 984 Weight per dozen 31/2 lbs..... Each \$0.12



TWO-HOLE For wood hames

Wrought steel, polished. Tongues 3 and 3¼ inches long, % inch wide, with

% inch. loop—inside measurement % inch.

AB 982—Weight per dozen 3 lbs......Each \$0.08

Two dozen in a carton.

#### CONCORD CLIPS



COOPER'S

STRAIGHT CONCORD CLIPS

Heavy malleable iron, japanned

AB 10A-1% inches..... Each \$0.10 AB 10B-2 inches ..... Each

> One dozen in a carton. Weight per dozen 8 lbs.

#### HAME STAPLES



Polished steel, tapered to drive through hames. Length over all 3½ inches. Complete with washers. Length shank at shoulder

2% inches.

Width

		Shank at			Wt.	
	Elech	Size,	Shoul der,	in	Per Doz.,	
os.	Each	Inch	Inch	Carton	Lbs.	
B 957	\$0.10	To	7/8	2	21/4	
B 960	.07	3/8	18	1	11/2	

#### BOTTOM CLIPS AND LOOPS

#### FOR HAMES



For repairing hames on which bottom loops are broken.

Wrought steel clip + inch wide, 1% inches long with steel bottom loop for 1-inch strap.

One dozen in a carton.



#### FOR STEEL HAMES

Steel loop with steel roller and black japanned steel clip. For 1¼-inch strap.

AB 1981—Weight per dozen 2 lbs.....Each \$0.08

One dozen in a carton, with rivets.

#### SCREW BOTTOM LOOPS

#### FOR HAMES



Malleable iron, polished. Will take 1-inch strap. For hame steel ¾ inch wide. Screw connection.

AB 978-Weight per dozen 1

lb. ..... Each \$0.08

#### FOR HAMES



Malleable iron, polished. Will take 1¼-inch strap. For hame steel ¼-inch wide. Screw connection.

AB 977-Weight per dozen 11/2 lbs. \_\_\_\_\_Each \$0.12

Three dozen in a carton.

#### HAME LINE RINGS



Polished welded steel rings 2 inches in diameter with 2-inch steel tongue or stud. Furnished with washers.

AB 995-Weight per dozen 1 lb. ..... Each \$0.07

One dozen in a carton.

#### BOLT STUDS

#### REGULAR



Polished steel. Length 4 inches. Used in connection with hame bolts No. 5.

AB 997-Threaded. Weight per dozen 11/4 lbs. \_\_\_\_\_Each \$0.10

AB 9971/2-Plain. Weight per dozen 11/4

lbs. \_\_\_\_\_Each .10

Two dozen in a carton.

#### HAME HOOKS



GENUINE LONE STAR Drop forged steel—heat treated. For hames with ratchet feature. Length over all 2½ inches.

AB 900—Weight per dozen 3 lbs.....Each \$0.07

One dozen in a carton.

#### HAME TUG HOOKS



Used in connection with hame tugs Nos. AB 471 and AB 474.

Malleable iron—durable japanned finish.

AB 271J—Weight per dozen 1% lbs......Each \$0.10

Two dozen in a carton.

#### HAME RATCHETS

FOR LONE STAR HAMES

Polished wrought steel. Small hole pattern with six holes (standard) for No. AB 900 hame hooks. Complete with springs and rivets.

One dozen in a carton.

#### STRAIGHT BUGGY WHIPS



ATLANTIC-LENGTH 6 FEET

Full stocked java—black color. Loaded butt, two long russet buttons and Philadelphia snap.

AB U50-Weight per dozen 6 lbs......Each \$0.59



RED SEA-LENGTH 6 FEET

Full stocked java—black color. Round end. One combination thumb button. Philadelphia snap.

AB U25-Weight per dozen 6 lbs......Each \$0.35

One-quarter dozen in a package.

#### HAME RIVET NAILS

Polished, 7-gauge steel. Length  $1\frac{1}{2}$  inches. Head  $\frac{1}{2}$  inch.

AB 96711/2—Weight per lbs......Per Lb. \$0.2

Packing-bulk.

#### HAME RIVETS

Iron wire, size 7, with oval head.

Nos. AB 7 ½ AB 7/1 Length, Inches ½ 1 Per Pound \$0.19 .19

One pound in a carton; 100 lbs. in a case.

#### DROP TOP WHIPS



Four-plait brown and tan mixed cover with 3 ft. java stock and 2% ft. solid leather drop top. Length over all 5% ft.

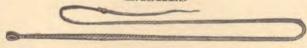
AB 25C—Weight per dozen 31/2 lbs......Each \$0.25

One-half dozen in a package.



One-quarter dozen in a package.

#### LASHES



#### STRONG-FLEXIBLE

Four-plait white horse hide stage lashes, with loop and snap plaited in.

		Length,	Wt. Per
Nos.	Each	Feet	Doz., Lbs.
AB 116	\$0.37	5	41/2
AB 117	.43	6	41/2

#### EXTRA STRONG

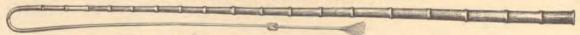
Four plait Texas horsehide ox lashes, with loop and snap plaited in.

Diameter

Nos. Each Feet Inches Doz., Lbs. AB 127 \$0.49 6 ½ 4 AB 128 .65 6 ¾ 6

Packing—bulk.

## HARVESTER OR BINDER WHIPS



#### LONG LIGHT FLEXIBLE—BAMBOO STOCK

Extra fine sun-dried Japanese bamboo stock—10 feet long, with 5-foot white thread plaited drop and thread lash. Length over all 15 feet.

AB 1800—Weight per dozen 71/2 lbs...... Each \$0.59

Six dozen in a bundle.

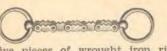
## LONG HEAVY DUTY-LONG LASTING WOOD STOCK

Black ebonized wood stock—10 feet long, with 5-foot black thread plaited drop and thread lash. Length over all 15 feet.

AB 1802—Weight per dozen 10 lbs...... Each \$0.98

One-quarter dozen in a bundle.

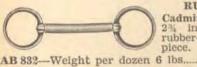
#### BRIDLE BITS



SAW MOUTH

XC plate (tinned). Flexible mouthpiece 7 inches long—made of reted together with zig

One-half dozen in a carton.

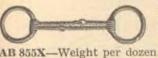


RUBBER MOUTH

Cadmium plated. Rings 2% inches, with 5-inch rubber-covered mouthplece.

t per dozen 6 lbs.....Each \$0.59

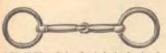
One dozen in a carton.



XC plate (tinned). Steel rings 2½ inches, with 6inch double wire twist jointed mouth.

AB 855X—Weight per dozen 7 lbs.....Each \$0.30

One-half dozen in a carton.



Forged loose rings 2% inches in diameter.

XC Plate Tinned

AB 47X—6-inch jointed steel mouth......Each \$0.17

Polished Finish

AB 47P-6 inches jointed steel mouth...... Each \$0.15

AB 47PS-5% inches stiff steel mouth......Each .1:

Packing-bulk. Weight per dozen 7 lbs.

# KEEN KUTTER TABLEWARE

Will Look Mighty Nice On Your Dinner Table

The Long Lasting

Stainless Metals

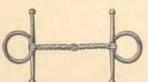
Attractive Handles

Add a

Gay Harmonious Note

to Your Service

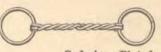
#### BRIDLE BITS



SINGLE WIRE

XC plate (tinned). Malleable rings 1% inches, with 5%-inch full balled cheeks and 6-inch single wire twist, jointed mouth.

AB 875X—Weight per dozen 4 lbs.....Each \$0.30



Single wire twist jointed curved mouthpiece, 6 inches long.

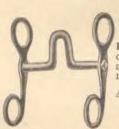
Cadmium Plated—21/2-Inch Rings

AB 5471/2—Weight per dozen 41/2 lbs......Each \$0.17

Heavy, 2%-Inch Rings

Polished Finish-21/2-Inch Rings

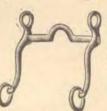
AB 5471/2P-Weight per dozen 41/2 lbs.......Each \$0.15



#### DAISY

Blued. Malleable iron, 5½-inch cheeks—with 1¼-inch cheek loops and 1½-inch line loops. 4%-inch mouth, with 1½-inch port.

AB 938B—Weight per dozen 7 lbs. Each \$0.59



XC plate (tinned). Malleable frame with 5-inch cheeks—wrought rings 1½ inches and 1-inch cheek loops. 4½-inch mouth, with %-inch port.

AB 632X—Weight per dozen 6 lbs. Each \$0.49

One-half dozen in a carton.

# HARNESS LEATHER

OAK TANNED - FULL SIDES



The finest leather obtainable both in quality and price. Only animal fats are used as a lubricant. Outstanding

characteristics—plump shoulders, close trim, bright finish, smooth grain, clean unwashed flesh, firm bellies, high tensile strength and excellent wearing qualities.

Black. Full sides weighing 17 to 25 lbs.

AB HLB Per pound \$0.69

In rolls.

# HARNESS SNAPS



SECURITY PATTERN SWIVEL, ROUND EYE

XC plate (tinned) with aluminum steel spring— rustproof. Size of eye 34 inch.

AB 72—Weight per gross 15 lbs......Each \$0.15

One-half gross in a carton.



YANKEE-ROUND EYE

Cadmium-plated malleable-iron body, pressed steel tongue, riveted at joint. Brass lever spring. %-inch round eye.

AB 815 % - Weight per gross 15 lbs...... Each \$0.10

One-half gross in a carton.



POLO-SWIVEL ROUND EYE

Nickel - plated malleable body, with round swivel eye. Rustproof spring.

WH

Nos. Size Eye, In.	AB 337NP 1/4	AB 337NP 3/8
Wt. per Gross, Lbs.	234	3
Each	\$0.08	.08

One gross in a carton.



# IMPROVED POLO WITH LOOP EYE

XC plate (tinned). Aluminum steel spring—rustproof. Lip is sunken to prevent spring from slipping from under it.

Nos.	Each	Size Eye, Inches	Gross in a Carton	Per Gross, Lbs.
AB 51	\$0.07	3/4	1/2	10
AB 52	.07	7/8	1/2	11
AB 53	.07	1	1/2	12
AB 54	.08	11%	1/6	15
AB 55	.09	11/4	3/4	24
AB 56	.10	11/2	1/4	26



ROUND SWIVEL XC plate (tinned).

Nos.	Each	Size Eye, Inch	Wt. Per Gross, Lbs
AB 160	\$0.15	5%	161/2
AB 161	.16	3/4	18
AB 162	.19	7/8	21

One-quarter gross in a carton.



ROUND EYE, PLAIN

XC plate (tinned)-Size of eye % inch.

AB 19—Weight per gross 17 lbs..... Each \$0.09

One-half gross in a carton.



IMPROVED LOOP EYE

Imitation rubber, Flexible non-corrosive steel spring. Lip is sunken to prevent spring from slipping from under it.

		Size Eye,	Wt. Per
Nos.	Each	Inches	Gross, Lbs.
AB 351	\$0.05	34	10
AB 352	.06	7/8	11
AB 353	.06	1	12
AB 354	07	11/8	15
	One-half gross	in a carton.	
AB 355	\$0.08	11/4	24
AB 356	.09	11/2	26
AB 357	.10	1%	28
AB 358	.12	2	30

One-fourth gross in a carton.



#### SQUARE EYE-BOLT XC plate (tinned)-

Rustproof WW72

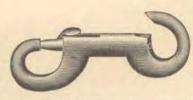
Nos.	Each	Size Eye, Inches	Gross in Carton	Per Gross, Lbs.
AB 115	80.07	1	1/0	18
AB 120	.09	11/8	3/4	20
AB 125	.10	11/4	1/3	30
AB 130	.13	136	1/3	31
AB 135	.14	1%	1/4	35
AB 140	.15	2	34	40



#### SQUARE EYE BOLT

Black imitation rubber with brass bolt.

Nos.	Each	Size Eye, Inches	Gross in a Carton	Per Gross, Lbs.
AB 315	\$0.08	1	1/6	1236
AB 320	.09	11/4	1/6	15
AB 325	.10	11/4	1/3	21
AB 330	.12	1%	1/8	23



#### OPEN DIRECT EYE, TRACE OR BREAST CHAIN

XC plate (tinned). Heavy weight. Spring enclosed in a solid socket. Size of eye ½ inch. Length over all 4 inches.

AB 48X—Weight per gross 28 lbs......Each \$0.23



OPEN DIRECT EYE, TRACE OR BREAST STRAP

XC plate (tinned). Heavy weight. Size of eye ½ inch. AB 522—Weight per gross 24 lbs..... Each \$0.17

One-third gross in a carton.

#### HARNESS SNAPS



OPEN DIRECT EYE
XC plate (tinned). Size
of eye % inch.

AB 520—Light weight. Weight per gross 12 lbs. Each \$0.12

AB 521—Medium weight. Weight per gross 15 lbs. Each .14



#### DOUBLE

XC plate (tinned) rustproof. Length 4 inches.

AB 511—Weight per gross 19 lbs...... Each \$0.19



#### KLINGSNAPS WITH ROUND EYE

One continuous piece of spring steel wire, XC plate (tinned).

		Gauge	Diam- eter	Wt. Per
		of	Eye.	Gross,
Nos.	Each	Wire	Inch	Lbs.
AB 1507	\$0.05	7	5/8	10
AB 1508	.06	13	3/4	11
	One-half gross	in a cart	on.	*

#### POLO BIT SNAPS



XC plate (tinned). Rustproof aluminum steel spring. Inside measurement 2 inches.

AB 421-Weight per gross 10 lbs.......Each \$0.08

One-half gross in a carton.

#### BABY SNAPS



XC plate (tinned) with rustproof spring, and ½-inch loop.

AB 20B—Weight per gross 2 % lbs.....Each \$0.05

#### BAG SNAPS



Nickel plated with flat steel spring and %-inch swivel loop eye.

AB 25—Weight per gross 2% lbs......Each \$0.08

One gross in a carton.

#### SWIVEL ROPE SNAPS



A practical, strong and durable snap that will do well the work for which it is intended.

Galvanized S. R. P. finish. Heavy wire snap, with flat steel spring and wire eye. Length over all 4½ inches. Eye % inch.

One-quarter gross in a carton.

#### MARTINGALE SNAPS



YANKEE— SWIVEL

MC plate (tinned).

Malleable body
and pressed steel
tongue with spiral
spring. Swivel
loop with screw
pin and roller.

Nos.	Each	Size Loop, Inches	Wt. Per Doz., Lbs.
AB 865X11/2	\$0.49	11/2	8
AB 865X13/4	.55	1¾	9



#### WANKEE— MARTINGALE OR CHOKE

XC plate (tinned). Malleable body and pressed steel tongue with spiral spring. Screw pin and roller.

Nos.	Each		, Wt. Per Gross, Lbs.
AB 845X11/2	\$0.25	11/2	42
AB 845X13/4	.29	1%	45
	One dozen in a	carton.	

#### BREAST STRAP ROLLER SNAPS

#### YANKEE



Cadmium plated. Malleable body with pressed steel tongue and brass lever spring. Large roller steel rivet.

Nos.	Each	Width Roller, Inches	Wt. Per Doz., Lbs
AB 8511/2	\$0.33	11/2	71/2
AB 8513/4	.37	1%	81/2
AB 852	.45	2	9
	One dozen in a	carton.	

#### BREAST STRAP SNAPS WITH BUCKLE



#### FAVORITE

XC plate (tinned) stamped steel lever. Buckle 1½ inches wide.

AB 894—Weight per dozen pairs 13 lbs...Per Pair \$0.75

One-half dozen pairs in a carton.

#### HEEL CHAIN SNAPS



YANKEE— TRACE OPEN EYE

XC plate (tinned). Malleable body, with patented overhanging and

tapering eye. Pressed steel tongue, with spiral spring. Size of eye ½ inch. Length over all 4 inches.

AB 826AX—Weight per gross 33 lbs...............Each \$0.19

One-quarter gross in a carton,

#### BREAST CHAIN SNAPS



#### YANKEE DOUBLE END

Malleable iron body with pressed steel tongues, riveted at joints. Brass lever springs.

One-quarter gross in a carton.

Heavy. Polished. Length over all 5¼ inches.

AB 855—Weight per gross 54 lbs......Each \$0.19

One dozen in a carton.



#### YANKEE-CENTER

Polished, Malleable body. Pressed steel tongue. Brass lever spring.

AB 850—Weight per dozen 9 lbs...Each \$0.33

One dozen in a cardboard box.

#### BREAST STRAP SNAPS AND SLIDES



#### YANKEE

XC plate tinned. Malleable iron strap slide and snap. Pressed steel tongue with spiral spring. Steel pin.

		Size Slide	. Wt. Per
Nos.	Each		Doz., Lbs.
AB 46X11/2	\$0.45	11/2	10
AB 46X1 3/4	.49	1%	11
AB 46X2	.55	2	12
-	and the transfer of the same of	THE CONTROLS	

One-half dozen in a carton.



#### YANKEE WITH MARTINGALE ATTACHMENT

Convenient-Durable

XC plate tinned. Malleable iron strap slide, screw Martingale loop, and snap. Pressed steel tongue with spiral spring —steel pins.

Lefts and Rights

Nos.	Each	Slide, Inches	Loop, Inches	Doz., Lbs.
AB 246X11/2	\$0.75	11/4	11/2	11
AB 246X13/4	.79	1%	1%	121/4
One-third dozen	(two each l	left and righ	nt) in a	carton.

#### HARNESS BUCKLES



Black japanned steel. Easy working tongues and improved loose roller construction, for quick, easy handling.

Each	Size, Inches	Gross in Carton	Gross, Lbs.
\$0.03	1/2	1	2
.03	5/8	1	2%
.03	34	1	31/4
.04	3/8	1/2	41/2
.05	1	1/2	6
.06	14	1/2	9
	\$0.03 .03 .03 .04 .05	Each Inches \$0.03	Each Inches Carton \$0.03

# Œ

#### LOOP PATTERN

Black japanned steel. Easy working tongues and improved loose roller construction, for easy, quick handling.

Nos.	Each	Size, Inches	Gross in Carton	Wt.Per Gross, Lbs.
AB 150J %	\$0.04	5%	1	434
AB 150J 3/4	.04	34	1	5%
AB 150J 1/8	.04	7/8	1/2	83/4
AB 150J1	.04	1	1/2	91/2
AB 150J11/8	.05	11/8	1/2	1234
AB 150J11/4	.06	11/4	3/4	14%
AB 150J11/2	.07	11/2	1/4	18
	One dozen in	a parton		

One dozen in a carton.



Fine Quality—Long Service Japanned steel, with barrel roller.

Wt. Per

Lbs.
3
3%
634
73/2
91/2
2

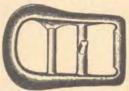


#### ECONOMY

Japanned finish. Steel type.

		Size.	Gross in	Wt.Per Gross,
Nos.	Each	Inches	Carton	Lbs.
AB 550J3/4	\$0.04	3/4	1	4
AB 550J1	.05	1	1/2	4
AB 550J11/8	.05	11/8	1/2	41/2
AB 550J11/4	.06	11/4	1/2	51/2
AB 550J11/2	.07	11/2	1/3	41/4

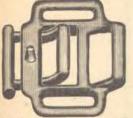
#### CROSS REIN BUCKLES



Japanned finish. Malleable iron.

		Cina	Canana ta	Wt.Per
Nos.	Each	Size, Inches	Gross in Carton	Lbs.
AB 200J1	\$.06	1	1/3	4
AB 200J11/8	.07	11/8	1/3	41/4
AB 200J11/4	.08	11/4	1/3	5

#### CHAMPION TRACE BUCKLES



TWO-LOOP

Japanned finish. Malleable iron.

Nos.	Each		Inches	Doz., Lbs.
AB 175J11/2	\$0.23		1%	5
AB 175J13/4	.25		1%	51/2
	One dozen	in a c	arton.	

#### CONWAY BUCKLES



IMPROVED PATTERN

Japanned finish. Malleable iron.

Nos.	Each	Size, Inches	Gross in Carton	Gross, Lbs.
AB 210J 3/4	\$0.03	3/4	1/2	71%
AB 210J78	.03	7/8	1/6	81/2
AB 210J1	.04	1	1/2	9
AB 210J11/8	.05	11/8	1/9	11
AB 210J11/4	.06	14	1/4	131/2
AB 210J11/2	.07	11/2	1/4	161/2

#### BUCKLE FRAMES



#### CHAMPION

Japanned finish. Sturdy malleable iron.

		Size,	Doz.,
Nos.	Each	Inches	Lbs.
AB 175FJ11/2	\$0.17	11/4	31/4
AB 175FJ13/4	.19	1%	4
	One dozen in a car	ton.	

#### TRACE BUCKLE BAILS



#### CHAMPION

Japanned finish. Regular pattern. Malleable iron.

		Size,	Wt. Per Doz.,
Nos.	Each	Inches	Lbs.
AB 175BJ11/2	\$0.07	11/2	11/2
AB 175BJ134	.08	1%	1%
1000	Two dozen in a car	rton.	

#### TWIN HARNESS LOOPS



#### IMPROVED PATTERN

Japanned finish. Malleable iron.

		Size,	in a	Gross,
Nos.	Each	Inches	Carton	Lbs.
AB 192J3/4	\$0.05	3/4	1/2	31/2
AB 192J1	.06	1	1/2	5%
AB 192J11/4	.07	11/4	1/2	91/2
AB 192J11/2	.08	11/2	3/4	13
	One degree in	a aantan		

One dozen in a carton.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

#### BREAST STRAP SLIDES



#### TRACE CARRIERS



COOPER'S PATTERN

Wt. Per

Lbs.

414

Size

Size, Doz.,

In.

11/2

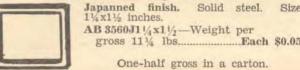
134

Japanned finish. Malleable iron. Size 11/4 inches.

AB 386J11/4-Weight per dozen 31/4 lbs......Each \$0.15

One dozen in a carton.

#### HALTER SQUARES



#### STRAP TRACE CARRIERS



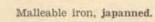
THE TROJAN IMPROVED PATTERN

Very attractive, popular, useful and ornamental Japanned finish. Malleable iron, Size

11/2 x21/4 inches. AB 667J11/2x21/4-Weight per 

One dozen in a carton.

### HARNESS RINGS



		Size,	Wire	Gross in a Car-	Wt. Per Gr.,
Nos.	Each	In.	Gauge	ton	Lbs.
AB HJ1/4	\$0.02	3/6	7	2	1
AB HJ 5%	.02	5%	7	2	1
AB HJ 3/4	.02	34	7	1	2
AB HJ 1/4	.02	7/8	7	1	3
AB HJ1	.03	1	7	1	4
AB HJ11/8	.03	11/8	7	1/2	5



#### BREECHING RINGS

Solid steel, japanned.

			Gross	Wt.
	Size	Wire	in a	Per
Each	In.	Gauge		Lbs.
\$0.04	11/2	3	1/2	10
.04	1%	2	1/2	11
.05	2	2	1/2	16
.06	21/4	2	34	17%
	\$0.04 .04 .05	\$0.04 1½ 1¾ .05 2	Each Size, Wire So.04 $1\frac{1}{2}$ 3 $0$ 4 $1\frac{3}{4}$ 2 $0$ 5 2 2	Each Size, Wire Car- In. Gauge ton \$0.04 1½ 3 ½ .04 1¾ 2 ½ .05 2 2 ½

#### RING TONGUES

Malleable iron ring tongue of ¼-inch iron, japanned finish. Size 3 inches. AB 400/3-Weight per gross 9 % 1bs..... Each \$0.03

One-half gross in a cardboard box.

#### BREAST CHAIN SNAPS



#### YANKEE DOUBLE END

Malleable iron body with pressed steel tongues, riveted at joints. Brass lever springs.

One-quarter gross in a carton.

Heavy. Polished. Length over all 51/4 inches.

AB 855—Weight per gross 54 lbs......Each \$0.19

One dozen in a carton.



#### YANKEE—CENTER

Polished, Malleable body. Pressed steel tongue. Brass lever spring.

AB 850—Weight per dozen 9 lbs...Each \$0.33

One dozen in a cardboard box.

#### BREAST STRAP SNAPS AND SLIDES



#### VANKEE

XC plate tinned. Malleable iron strap slide and snap. Pressed steel tongue with spiral spring, Steel pin.

		Size Slide,	Wt. Per
Nos.	Each	Inches	Doz., Lbs
AB 46X11/2	\$0.45	11/2	10
AB 46X1 3/4	.49	1%	11
AB 46X2	.55	2	12
	and the same of th	and the second s	

One-half dozen in a carton.



#### YANKEE WITH MARTINGALE ATTACHMENT

Convenient-Durable

XC plate tinned. Malleable iron strap slide, screw Martingale loop, and snap. Pressed steel tongue with spiral spring —steel pins.

Lefts and Rights

Size Wt.Per

Size

Nos.	Each	Slide, Inches	Loop, Inches	Doz., Lbs.
AB 246X11/2	\$0.75	11/2	11/2	11
AB 246X1 1/4	.79	1%	1%	121/4
One-third dozen	(two each lei	ft and rig	ht) in a	carton.

#### HARNESS BUCKLES



Black japanned steel. Easy workin tongues and improved loose roller con struction, for quick, easy handling.

Nos.	Each	Size, Inches	Gross in Carton	Gross
AB 420J1/2	\$0.03	1/4	1	2
AB 420J 1/8	.03	5/8	1	234
AB 420J3/4	.03	3/4	1	31/4
AB 420J 1/8	.04	7/8	1/2	41/2
AB 420J1	.05	1	1/2	6
AB 420J11/4	.06	11/4	36	9



#### LOOP PATTERN

Black japanned steel. Easy work ing tongues and improved loos roller construction, for easy quick handling.

Nos.	Each	Size, Inches	Gross in Carton	Wt.Pe Gross Lbs
AB 150J 5%	\$0.04	5%	1	4 34
AB 150J3/4	.04	3/4	1	5%
AB 150J 1/8	.04	7/8	1/2	834
AB 150J1	.04	1	1/2	91/2
AB 150J11/8	.05	11/8	16	12%
AB 150J11/4	.06	11/4	1/4	14%
AB 150J11/2	.07	11/2	1/4	18
	One dozen	in a carton.		



## Fine Quality-Long Service

Japanned steel, with barrel roller.

			VY Co I t			
	-	Size,	Gross in	Gross		
Nos.	Each	Inches	Carton	Lbs		
AB 50J 5/8	\$0.03	5/8	1	3		
AB 50J 3/4	.03	8/4	1	334		
AB 50J1	.04	1	1	63/4		
AB 50J11/8	.04	1%	1/2	736		
AB 50J11/4	.05	1%	1/2	91/9		
AB 50J11/2	.05	1%	1/2	12		

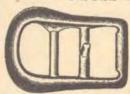


#### ECONOMY

Japanned finish. Steel type.

		Class	Channe to	Wt. Pe
Nos.	Each	Size, Inches	Gross in Carton	Gross
AB 550J 3/4	\$0.04	3/4	1	4
AB 550J1	.05	1	1/4	4
AB 550J11/8	.05	11/4	1/2	43/
AB 550J11/4	.06	11/4	1/2	51/6
AB 550J11/2	.07	11/2	1/3	41/4

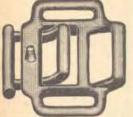
#### CROSS REIN BUCKLES



Japanned finish. Malleable iron

				Wt.Per
Nos.	Each	Size, Inches	Gross in Carton	
AB 200J1	\$.06	1	1/4	4
AB 200J11/8	.07	11/4	1/3	41/4
AB 200J11/4	.08	11/4	1/3	5

#### CHAMPION TRACE BUCKLES



TWO-LOOP

Japanned finish. Malleable iron.

Nos.	E	ich		Inches	Doz., Lbs.
AB 175J11/2	1917	.23		11/2	5
AB 175J13/4		.25		1%	51/2
	One do	zen in	2,	carton.	

#### CONWAY BUCKLES

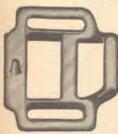


IMPROVED PATTERN

Japanned finish. Malleable iron.

			Wt. Per
Each	Size, Inches	Gross in Carton	Gross, Lbs.
\$0.03	8/4	1/2	71/2
.03	7/8	1/2	81/2
.04	1	1/2	9
		3/9	11
		74	131/2
.07	1/2	74	161/2
	\$0.03 .03	Each Inches \$0.03 % .03 7/8 .04 1 .05 11/8 .06 11/4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

#### BUCKLE FRAMES



#### CHAMPION

Japanned finish. Sturdy malleable iron.

		Size,	Doz.,
Nos.	Each	Inches	Lbs.
AB 175FJ11/2	\$0.17	11/2	31/2
AB 175FJ13/4	.19	134	4
	One dozen in a car	ton.	

#### TRACE BUCKLE BAILS



CHAMPION

Japanned finish. Regular pattern. Malleable iron.

			Wt. Per
		Size,	Doz.,
Nos.	Each	Inches	Lbs.
AB 175BJ11/2	\$0.07	11/2	11/2
AB 175BJ134	.08	13/4	134
1	wo dozen in a car	rton.	

#### TWIN HARNESS LOOPS



IMPROVED PATTERN

Japanned finish. Malleable iron.

		Size,	in a	Gross,
Nos.	Each	Inches	Carton	Lbs.
AB 192J 3/4	\$0.05	3/4	1/2	31/2
AB 192J1	.06	1	3/2	5%
AB 192J11/4	.07	11/4	1/2	91/2
AB 192J11/2	.08	11/2	34	13
The same of the sa	One degen in	a anutan		

One dozen in a carton.

BREAST STRAP SLIDES

Japanned. Cast gray iron. Wt. Per Size, Doz., Nos. Each In. Lbs. AB 40711/ \$0.12 11/2 AB 40713/4 1% .14 414 One dozen in a carton.

#### TRACE CARRIERS



COOPER'S PATTERN Japanned finish. Malleable iron.

Size 14 inches.

AB 386J11/4-Weight per dozen 31/4 lbs......Each \$0.15

One dozen in a carton.

#### HALTER SQUARES



Japanned fin 11/4 x 11/2 inches. finish. Solid steel. Size AB 3560J1 1/4 x1 1/2 - Weight per gross 111/4 lbs. Each \$0.05

One-half gross in a carton.

#### HIP STRAP TRACE CARRIERS



THE TROJAN IMPROVED PATTERN

Very attractive, popular, useful and ornamental Japanned finish. Malleable iron. Size

11/2 x21/4 inches. AB 667J11/2x21/4-Weight per

dozen 21/2 lbs..... Each \$0.15

One dozen in a carton.

#### HARNESS RINGS

Malleable iron, japanned.

		Size.	Wire	Gross in a Car-	Per
Nos.	Each	In.	Gauge		Lbs.
AB HJ1/2	\$0.02	1/2	7	2	1
AB HJ 5/8	.02	5/8	7	2	1
AB HJ3/4	.02	3/4	7	1	2
AB HJ 1/8	.02	7/8	7	1	2 3
AB HJ1	.03	1	7	1	4
AB HJ11/8	.03	11/8	7	36	5



#### BREECHING RINGS

Solid steel, japanned.

		Size,	Wire	Gross in a Car-	
Nos.	Each	In.	Gauge	ton	Lbs.
ABJW11/2	\$0.04	11/2	3	1/2	10
AB JW134	.04	1 %	2	1/2	11
AB JW2	.05	2	2	3/2	16
AB JW21/4	.06	21/4	2	1/4	17%

#### RING TONGUES

Malleable iron ring tongue of ¼-inch iron, japanned finish. Size 3 inches.

AB 400/3-Weight per gross 9 % lbs...... Each \$0.03

One-half gross in a cardboard box.

#### CELLULOID RINGS



Solid steel center, with attractive celluloid outer shell.

Nos.	Each	Inside Diam., Ins.	Gauge		Wt. Per Gross, Lbs.
	7	RED			
AB 40R 1/8	\$0.09	7/8	4/0	1/2	1
AB 30R1	.10	1	3/0	3/2	1%
AB 20R11/8	11	11/8	2/0	1/0	21/4
AB IOR11/4	.13	11/4	1/0	3/6	31/2
AB 2R1 1/2	.17	11/2	2	3/6	5
AB 4R13/4	.23	134	4	1/0	714
AB 6R21/8	.33	21/8	6	3/6	834
	w	HITE			
AB 40W 1/8	.09	7/8	4/0	1/6	1
AB 30W1	.10	1	3/0	1/2	1%
AB 20W11/8	.11	11/8	2/0	1/6	21/4
AB 10W11/4	.13	11/4	1/0	1/6	31/4
AB 2W11/2	.17	11/2	2	1/6	5
AB 4W13/4	.23	134	4	1/6	71/4
AB 6W21/8	.33	21/8	6	1/6	834
	В	LUE		7.0	0 /4
AB 40B 1/8	.09	7/8	4/0	1/2	1
AB 30B1	.10	1	3/0	1/6	
AB 20B11/4	.11	11/8	2/0	1/6	1%
AB 10B11/4	.13	11/4	1/0	1/6	21/4
AB 2B11/2	.17	11/2	2	1/6	31/2
AB 4B13/4	.23	1%	4	7,7,1	5
AB 6B21/8	.33	21/8	6	1/6	7¼ 8¾

## CELLULOID SPREAD LOOPS



All celluloid-attractively colored.

Nos.	Each	Size, Inches	Gross in Box	Wt. Per Dozen, Lbs.
	RED			
AB 593R 3/8	\$0.04	5/8	1	1/2
AB 593R 3/4	.04	34	1/2	3/4
	WHITE			
AB 593W 5/8	\$0.04	15%	1	1/6
AB 593W3/4	.04	8/4	1/6	3/4
	BLUE			-
AB 593B 5%	\$0.04	5/8	1	16
AB 593B3/4	.04	34	3/2	72 %

## HALTER LOOPS AND RINGS



Solid steel. Japanned finish.

Nos. AB 3610J11/4	Each \$0.08		Diam. Ring, Inches	Wt. Per Gross, Lbs. 51/2
AB 3610J11/2	.10	11/4	2	6

One-quarter gross in a carton.

#### CLIP COCKEYES



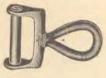
STANDARD PATTERN
Malleable iron cockeye,
with wrought steel clips.
Japanned finish.

Nos. AB 440J1½ AB 440J1¾	Each \$0.18	Width Cockeye, Ins. 11/2 13/4	Width Clip, Ins. 1	Lgth., Ins. 6 6%	Wt. Per Doz., Lbs. 3 41/2
	One dozen	100	1.00	9.78	472

## COCKEYES

D

Two dozen in a carton.



Malleable iron. Japanned finish, To screw.

Nos.	Each	Width, Inches	Dozen in Carton	Wt. Per Doz., Lbs.
AB 465/11/4	\$0.12	11/4	2	214
AB 465/11/2	.13	11/2	2	21/2
AB 465/13/4	.15	134	2	3
AB 465/2	.17	2	1	31/2

## JOINTED TRACE CONNECTORS



#### FOR BOLT HAMES

Wrought steel clips and malleable solid clevis with steel pin. Japanned finish. Will fit over bolt hame roller.

Nos.	Each	For Hame Bolt, Inches	Length, Inches	Wt. Per Doz., Lbs.
AB 20/11/2	\$0.19	11/4	71/8	934
AB 20/13/4	.22	184	71/8	101/4
AB 20/2	.25	2	71/8	111/2

One-third dozen in a carton.

#### CONCORD CLIPS



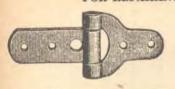
STRAIGHT PATTERN Heavy wrought steel.

Japanned finish.

		Wt. Per		
Nos.	Each	Width, Inches	Length, Inches	Doz., Lbs.
AB 10/11/2	\$0.10	11/2	45%	316
AB 10/21/4	.15	21/4	45%	5
	One dense to	The second second		

One dozen in a carton.

#### TRACE SPLICES FOR REPAIRING TRACES



HAGLOCK Easy to Use-Holds Longer

Heavy wrought steel. Japanned finishsteel pin. Size 11/2 inches. Length 3% inches.

AB 948/11/2-Weight per gross 18 lbs...... Each \$0.12

One dozen in a carton.



#### ONE-PIECE-STRAIGHT

Malleable iron with bev-eled edges—four holes. Size 41/2 inches long, 1/4 inch wide.

AB 949-Weight per gross 12 lbs...... Each \$0.07

Packing-bulk.

#### TRACE AND BELT SPLICES

#### SMITH'S PATENT



Extensively used by saddlery manufacturers. They make a perfect splice and smooth joint when used for repairing leather goods, straps, belting or cotton webbing. Cannot pull out when properly applied. Especially desirable for use on extra heavy belts running over large pulleys and for splicing traces. Soft copper body 1% inches long, with %-inch rivet ends. Spring brass washers 2½ inches long.

AB TBS00-Weight per box 1 lb......Each \$0.05

Fifty in a box.

#### HEEL CHAIN DEES



#### CONCORD PATTERN

Malleable iron. Japanned finish. With bolt and roller.

-		Size,	Wt. Per
Nos.	Each	Inches	Doz., Lbs.
AB 488J11/2	\$0.17	11/2	31/2
AB 488J13/4	.19	1%	4
AB 488J2	.22	2	41/2
AB 488J21/4	.27	21/4	5
100	One dozen in a	carton	



#### REPAIR DEES

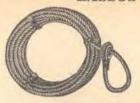
#### SHORT PATTERN

Strong malleable iron. Japanned finish. With screw and roller.

		Size,	Wt Per	
Nos.	Each	Inches	Doz., Lbs.	
AB 490/11/2	\$0.15	11/2	21/4	
AB 490/13/4	.18	1%	234	
AB 490/2	.23	2	3	

One dozen in a carton.

#### LASSOS OR RIATAS



For roping cattle. Made of high-grade rope diameter inch inch Fitted with hondas or lasso ring No. AB 358B ready for use. End of rope spliced to prevent raveling.

#### SIMMONS—COWBOY

Pure Manila Rope

AB 3C40—Length	1000	The state of the s	\$1.75
AB 3C33—Length	33	feetEach	1.45

#### SIMMONS-RED WEST

Sisal Rope

Three strands, very	good	quality.	
AB 3RW40—Length	40	feetEach	\$1.25

AB 3RW33—Length 33 feet Each 1.15

LIGHTNING Silk Manila Yacht Line Three strands. Fine quality.

AB 3LM40—Length 40 feet Each \$2.85 AB 3LM33—Length 33 feet...... Each 2.45

Weight of 40-foot lengths 2% lbs. Weight of 33-foot lengths 2% lbs. Wrapped in heavy paper.

# HONDAS, OR LASSO RINGS

EGG-SHAPED PATTERN-FOR LARIATS



For 1/2-inch rope. 5/8x11/4-inch eye. Malleable iron XC plate tinned. AB 358X-Weight per dozen 1¼ lbs. ..... Each \$0.10

Solid brass polished. AB 358B-Weight per dozen 1¼ lbs. ......Each

Six dozen in a carton,

#### LARIAT SWIVELS



Malleable iron, polished. Length over all 3 inches.

.20

-		For Rope,
Nos.	Each	Inch
AB 2512	\$0.10	56
AB 2516	.10	3/4
Packing-bt	ilk. Weight per dozei	n 2½ lbs.

## KEEN KUTTER TOOLS

Are Made of the Finest Quality Materials. They Are Built Strong and They Last Long.

### CURRY COMBS

#### SOLID BACKS-EASY TO USE, DURABLE



Solid back, with malle-able iron mane comb and steel knockers. Bars riveted to back. Wrought steel shank through handle is riveted at end. Cold-rolled stee |-lac-

Black enameled wood handle with steel ferrule. Size of back 4%x4 inches,

AB 108—Weight per dozen 12 lbs......Each \$0.29



Solid back, with heavy malleable iron mane comb—%-inch teeth. Wrought steel knockers.

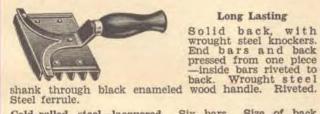
Cold-rolled steel-lacquered. Six bars. Size of back 4%x3¼ inches.



Solid back. End bars and back pressed from one piece—inside bars riveted to back. Heavy wrought steel shank through handle—riveted. Extra handle brace. Black enameled wood handle with brass ferrule. ferrule.

Cold-rolled steel-lacquered. Eight bars. Size of back 4%x3% inches.

AY 75-Weight per dozen 10 lbs......Each \$0.23



#### Long Lasting

Cold-rolled steel-lacquered. Six bars. Size of back 4%x3¼ inches.

AB 150-Weight per dozen 61/4 inches...... Each \$0.23

#### RUST AND CORROSION PROOF



Closed back. One piece steel wire through comb and handle—looped at end. End of comb reinforced with wire loop knock-ers. Malleable iron mane comb riv-eted on. Galvan-

ized steel brace passes into handle and is riveted to back

Galvanized steel, clear lacquer finish. Seven bars. Black enameled wood handle, with steel ferrule. Size of back 4x4% inches.

AB 6-Weight per dozen 71/2 lbs...... Each \$0.25

One dozen in a carton.

#### OPEN BACK



Open back, with braces or knockers at sides. Coppered steel wire shank, through comb and handle—riveted at end.

Black enameled wood handle with brass ferrule. Cold-rolled steel-lacquered. Eight bars. Size of back 4x5 inches.

AB 70—Weight per dozen 8 lbs......Each \$0.23

#### TWO-FACED—REVERSIBLE



Reversible comb. Clock spring to hold comb in position. Steel shank through bars and handle— riveted. Black enameled wood handle with brass ferrule.

To reverse, pull back and turn the handle to the right or left.

Fine spring steel-japanned and lacquered. Four circular bars.



Closed back. One-piece heavy-gauge bright steel wire passes through black enameled wood handle and comb, leaving a loop at end of handle and forming knockers at front ends. Nickel-plated fer-Nickel-plated ferends. rule.

Galvanized steel, gold lacquered finish. Six bars. Size of back 3x41/2 inches.

AB 460—Weight per dozen 6 lbs..... Each \$0.15

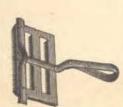


Open back, with steel bars, mane comb and knockers. Bars and back pressed from one piece. Steel shank and red stained wood handle, with brass ferrule.

ish. Six bars. Size of back 4¼x2¼ inches.

AB 000M-Weight per dozen 4 lbs......Each \$0.15

One dozen in a carton.

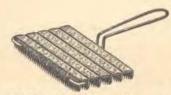


Open back with cold-rolled light steel bars. Bars and back pressed from one piece. One-piece cold-rolled oval steel loop handle— riveted. Oval steel knocker.

Cold-rolled steel, lacquered fin-ish. Six bars. Size of back ish. Six bars. 44x24 inches.

AB 1-Weight per dozen 31/2 lbs. ..... Each \$0.10

Packing-bulk.



Closed back. One-piece bright steel wire forms the handle, passes through comb and also forms wire loop knock-ers at front corners.

Galvanized steel—six bars. Size of back 34x 4% inches.

AB 1G-Weight per dozen 44 lbs.....Each \$0.10

One dozen in a carton. Twelve dozen in a case.

#### HORSE BRUSHES



#### Fine Quality for Fast, Easy Work

Hardwood oval block 71/4 x4 inches, natural lacquer fin-ish. Best quality leather hand strap, nailed on. Genuine ox palmetto fibre stock securely stapled into block. Seven rows—trimmed 1% inches out.

AB 45—Weight per dozen 10 lbs. Each \$0.59



Comfortable Hand Strap Solid oval block 856x4 inches, with polished top. Patent leather hand hold. tacked to side of block. Durable Palmyra tightly stapled into block. Seven rows — trimmed flat, 11/2 inches out.

AB 20B-Weight per dozen 7 lbs. Each \$0.35

One dozen in a carton.



Easy Grip—Durable

Hardwood block 8x21/4 inches, sanded and polished - with pointed ends and deep grooved sides for a good grip.

into block. Five rows—trimmed oval, 1% inches out. AB 43—Weight per dozen 91/2 lbs...... Each \$0.35



Long Lasting

Humped shaped ve-neered wood block— 10x2% inches, polished. Pointed ends. Good grip. Brown India stock securely stapled into block. Five rows— trimmed flat, 2 inches out.

AB 42—Weight per dozen 91/2 lbs......Each \$0.35

One-half dozen in a carton.



Economical-Serviceable

Varnished hardwood block, 91/2 x21/4 inches. Oval top-pointed ends. Good grip. Palmyra into block. Five rows—trimmed oval, 2 inches out.

AB 6B—Weight per dozen 10 lbs...... Each \$0.19



#### Good Quality Low Price

Hardwood oval block. 34 inches - smoothly sanded. Split leather hand strap nailed on. Best grade Palmyra stock securely stapled into block. Six rows-trimmed H inch out.

AB 18B—Weight per dozen 7 lbs...... Each \$0.19

One dozen in a carton.

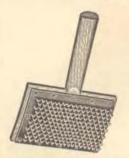
#### HORSE BRUSHES



Practical-With Comfortable Hand Strap Hardwood oval block 7½x3¾ inches—smoothly sanded. Split leather hand strap nailed on. Best grade Palmyra stock securely stapled into block. Six rows—trimmed block. Six rows—trin oval, 1% inches out.

AB 19B—Weight per dozen 9% lbs......Each \$0.23

One dozen in a carton.



#### HORSE CARDS

For Quick, Expert Work

Strong pressed board face on stout wood back. Tinned plated wire—rust-resisting, Size 5%x3½

AB 04-Weight per dozen 5 lbs. ..... Each \$0.29

Twelve dozen in a case.



#### NEATSFOOT COMPOUND

BLUE RIBBON

Adds New Life to Leather

special compound of dependable quality for water-proofing and soften-ing leather. Preserves and adds new life to all leather surfaces.

Wt.

In spout-attached tin cans.

Nos. AB NHP AB NQ AB NHG	Each \$0.23 .59 .98	Contents Cans ½ Pint Quart	Cans in Case 3 2	Per Case, Lbs. 25 58
AB NHG	.98	1/2 Gallon	1	60

HEERWAGEN B

#### NEATSFOOT OIL

THREE BROTHERS Economical—Preservative

For oiling, softening and preserving harness and all articles of leather. Adds life to the leather and makes it water and heat proof.

Best quality winter-strained Neatsfoot oil thinned down with highly refined mineral oil.

One quart lithographed sealed cans,

AB HNO--Weight per dozen 25 lbs..... Each \$0.35

Two dozen cans in a case.



#### LEATHER DRESSING

VISCOL

For Better Service-Longer Life

Viscol dressing softens, preserves and water-proofs shoes, harness, belts, jackets, and all other leather goods. It makes belts grip the pulleys and prevents the glazing of razor strops. Full directions for applying on each

Put up in screw top tin cans.

Nos.	Each	Contents Can, Pt.	Per Doz.
AB 12	\$0.35	1/2	10
AB 14	.25	1/4	41/2
	One dozen in	a carton	



# USE Mansfield ONE OF TODAY'S FINEST TIRES!



#### THE MANSFIELD SUPERIOR

A streamlined tire of distinctive beauty that sets a new standard of performance, safety and silence. Available in both white and black sidewalls.



#### THE MANSFIELD CUSHION BALLOON

This famous Mansfield low-pressure balloon has been stepped up to an even higher range of performance and modern styling.



#### THE MANSFIELD PIONEER

Brings to owners of older model cars the latest in safety construction and streamlined design—at money saving prices.



#### THE MANSFIELD TOURIST

This dependable passenger car tire delivers reliable mileage at low cost. A popular tire for equipping used cars.



#### THE TRANSPORT TRUCK and BUS

Provides truck, bus and fleet owners with a new standard of safety and dependability at reduced cost per mile—plus the new Mansfield Special Delivery Truck and Bus Tires for stop-start service—Mud and Snow Tires for passenger cars and trucks—new Tractor Tires for wheel-type tractors.

# Juarantee

ASSURES IMMEDIATE REPLACEMENT

PURCHASER'S  PURCHASER'S  ADDRESS  Brand name of tire  (Check one square)  SIZE  The Mansfield Superior  MANSFIELD Superior  MANSFIELD Superior  MANSFIELD Superior  ADDRESS  TOURIST  UNITED  Gistributor, who purch & Rules  mane and seen, who purch & Rules  mane and seen, who purch & Rules  mane and seen, who purch & Rules  material seen, who pu	
St. Andrews Co.	
NAME NAME OF THE PROPERTY OF T	
ADDRESS THE STIPLY OF	
Brand na	narant
Check one squares MAAN	PLEASE USE CARRIES BOTTS
PURCHASER'S  PURCHASER'S  ADDRESS  Brand name of tire  (Check one aquare)  MANSFIELD SUPERIOR  MANSFIELD SUPERIOR  MANSFIELD SUPERIOR  MANSFIELD SUPERIOR  MANSFIELD SUPERIOR  MANSFIELD SUPERIOR  SIZE  TOURIST  UNITED  Date  Application of tire & Rubber Company has guaranteed to its name and so purchased the above tire, that every tire bearing its hicken substituted in the substitute of the man normal operations, who will not to time or defects in working and that its which is previously defended in the state of the man normal operations, and that it will give or the privileged to replace it with a new tire charging only for the serv, wheel out of alignment, obstructions of willful or the serv.  Date of return  (IN CASE REPLACES	PAPER,
The The Tourist Pioneer	Par and the state of the state
distributor, who have a constitution of the co	Passenger Car Service NO
The Mansheld Tire & Rubber Company has guaranteed to its hicked and this privileged to replace it with a new tire character of examination.  The Mansheld Tire & Rubber Company has guaranteed to attend the above tire, that every tire bearing its shield the statistical without limit as free from defects in working the baring its hicked that this tire has failed under to transport operating conditions.  The Rusanteed to replace it with a new tire character of examination of the statistical replace it with a new tire character of examination.	Commercial Car Service No. 87914
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Date of return  (IN CASE)  Out of alignment, old because the serv. this re-	their dealers st. Ruht.
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IS NECESSAN	Amon carrier bus service or nearly flat regardless of cause tres their dealers shall not be liable in any event for indirectly by the failures to with their dealers shall not be liable in any event for indirectly by the failures to with the follower, the failures to
Date of return  Ovaler's Signature  Dealer's Signature  Mansfield Superior . 15 Months  Mansfield Balloons 15 Months	injury by running flat or nearly flat regardless of are worn out, injured by fire or wrecks, tires used in taxical more flat flat regardless of cause, tires used in taxical flat regardless shall not be liable in any event for injuries to dealer of shother may be flet through any authorized with the claim. This certificate and the fire must be replacement.
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Mansheld Balloons 15 Monnis	
Mansfield Pioneer 12 Months	
Mansfield Tourist 6 Months	
	W.
These coverages are for tires in normal	Plus
average passenger car service. All	1 190
tires in normal average commercial	In addition to this
service are guaranteed six months ex-	extra protection warranty,
cept Tourist Tires which are guaran-	Mansfield Tires are further

teed three months.

guaranteed against defects of

workmanship and materials for

the life of the tire.

# NEW...

# 6 Bar Tread

# GIVES MANSFIELD TIRES GREATER NON-SKID, NEW SILENCE AND LATEST STREAMLINE STYLING



# NEW SCIENTIFIC TREAD DESIGNS THAT "BITE" THE ROAD FOR FAST STARTS AND QUICK STOPS!

Car owners today require safe mileage. They want protection against skids—they want positive, sure-footed traction for fast get-aways—they want a tire that can stop when emergencies demand quick halts.

The new 6-bar tread has been designed to meet these modern requirements. All new Mansfield tires have wider, flatter treads that put more rubber on the road. More non-skid edges lessen the dangers of forward and sidewise skids. Center riding ribs make steering easier.



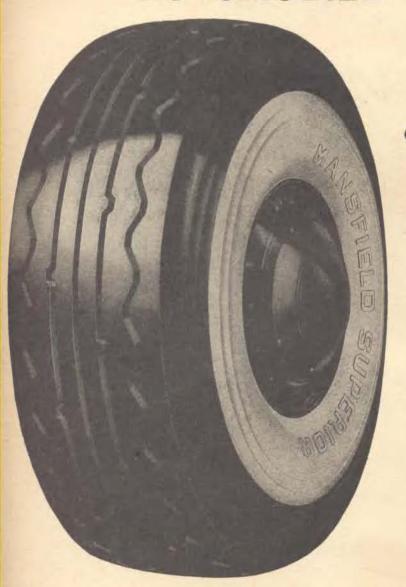
# NEW BEAUTY TO HARMONIZE WITH TODAY'S MODERN CARS. NEW SILENCE TO MATCH TODAY'S QUIET MOTORS.

New tread designs bring to all Mansfield tires advanced streamlined styling. Their smart, distinctive lines enhance the appearance of any car.

New type treads now make all Mansfield tires, more than ever, fitting companions for today's quiet-running motor cars. They represent the latest developments in safe, noiseless tread design.

. . . and GREATER MILEAGE!

ALLOY RUBBER, a new development, is tough and wear-resistant—
more economical in the long run—greater safety for a longer time!



### THE MANSFIELD

# perior

The ultimate in streamlined beauty designed for the car owner who wants extra smartness and distinction with freedom from tire noise.

Here is a tire that matches modern cars - in beauty - in silence—in strength. Beneath its distinguished design is a generous extra measure of finest materials, assuring the utmost in safety and service. Mansfield Superiors are today's smartest looking tires. Exceptional beauty with added new silence makes them the choice of discriminating car owners. Built for the car-owner who wants the utmost in protection and performance and who realizes that a few dollars extra is a small price to pay for the assurance and security this tire brings.

Modern styling and advanced engineering combine to establish the Mansfield Superior as a new peak in appearance and safety.

#### TWO-WAY TREAD

Center bars roll lightly and steer with finger-touch control. Outer non-skid bars grip the road—protect against forward and sidewise skids—afford safer braking and greater traction.

#### DOUBLE BREAKERS

Two breaker strips under the tread give shock absorber action against pavement jolts and road shocks. They reinforce the whole tire structure and provide added safety in high-speed driving.

#### REINFORCED SIDEWALLS

High-speed driving doubles sidewall strain. Mansfield construction carries two inside cord plies around the steel cable heads—up into the sidewall—to reinforce the vital area.

#### LOW HEAT BUILD-UP

Cotton fabric cords are embedded in a pure gum friction rubber that absorbs internal heat. This protects against hidden separations—assures cool running tires.

#### BLACK WITH WHITE SIDEWALLS FOUR-PLY

Nos.	Each	Size, Tire Rim	Weight Each, Lbs.
OB SW4/600-16	\$20.95	6.00-16	23
OB SW4/650-16	25.80	6.50-16	28
OB SW4/700-15	27.20	7.00-15	28
OB SW4/700-16	28.00	7.00-16	31
	SIX-PLY		
OB SW6/750-16	43.05	7.50-16	41
	ALL BLACK		
	FOUR-PLY		
		CIT	Weight
Nos.	Each	Size, Tire Rim	Each, Lbs.
OB SB4/600-16	\$17.45	6.00-16	23
OB SB4/650-16	21.50	6.50-16	28
OB SB4/700-15	22.65	7.00-15	28
OB SB4/700-16	28.35	7.00-16	31
	SIX-PLY		
OB SB6/750-16	35.90	7.50-16	41



4-Ply Balloons Center Traction Tread

6-BAR TREAD

6-Ply Balloons Center Traction Tread

THE NEW MANSFIELD

# CUSHION BALLOON

WITH AN OUTSTANDING RECORD IN HIGH SPEED SERVICE THIS LOW PRESSURE CUSHION BALLOON HAS BEEN STEPPED UP TO AN EVEN HIGHER RANGE OF PERFORMANCE AND STYLING.

The new Mansfield Cushion Balloon offers a still greater performance value. Its wider, flatter 6-bar tread provides greater non-skid protection, better traction and easier steering. Its streamlined styling reduces tire noise in today's steel-bodied cars. The Mansfield Cushion Balloon sets a new standard of true tire value.

#### 6-BAR TREAD CUSHION BALLOONS

-		100000000000000000000000000000000000000	20.00
Nos.	FOUR-PLY Each	Size,	Weight Each, Lbs.
OB M4/550-16	\$13.90	5.50-16	19
OB M4/550-17	13.95	5.50-17	21
OB M4/600-16	15.70	6.00-16	23
OB M4/625-16	17.55	6.25-16	25
OB M4/650-16	19.35	6.50-16	27
OB M4/700-16	21.00	7.00-16	30
	SIX-PLY		
OB M6/550-17	16.75	5.50-17	25
OB M6/600-16	18.60	6.00-16	26
OB M6/625-16	20.65	6.25-16	28
OB M6/650-16	21.35	6.50-16	30
OB M6/700-16	24.70	7.00-16	35

#### CENTER TRACTION TREAD

FOUR-PLY		
Each	Size, Tire Rim	Weight Each, Lbs.
\$11.10	4.75-19	18
12.85	5.25-18	20
14.65	5.50-18	20
14.95	5,50-19	21
SIX-PLY		
19.40	6.00-17	28
19.80	6.00-18	29
20.35	6.00-19	30
20.70	6.00-20	31
23.40	6.50-17	32
24.00	6.50-19	35
	Each \$11.10 12.85 14.65 14.95 SIX-PLY 19.40 19.80 20.35 20.70 23.40	Size, Tire Rim \$11.10



THE New MANSFIELD

# Pioneer

This New Tire Answers the Need of Owners of Older Cars Who Demand Modern Appearance and Reliable Mileage at Moderate Cost.

Here is a modern tire for the average car. The New Mansfield Pioneer has the flatter, wider 6-bar tread that provides the maximum in positive traction plus the latest in streamlined appearance. The se husky tires deliver long mileage and afford real protection against skids and blowouts. No motorist need run the risk of driving with smooth worn tires when Mansfield Pioneers offer so much in safety and dependability at low first cost. Popular sizes with combination tires for oldest models.

THIS MODERN TIRE FOR OLDER CARS PROVIDES

SAFETY AND SERVICE AT LOW DRIVING COST!

# SIZES TO FIT CARS OVER 5 YEARS OLD 4-PLY PIONEER TIRES

Nos.		Each	Size, Tire Rim	Weight Each, Lbs.
OB P4/440/450-21		\$ 8.65	4.40/4.50-21	16
OB P4/475/500-19		8.90	4.75/5.00-19	17
OB P4/525-17		9.90	5.25-17	18
OB P4/525-18		10.30	5.25-18	19
OB P4/550-16	8	11.10	5.50-16	17
OB P4/550-17		11.15	5.50-17	19
OB P4/600-16		12.55	6.00-16	20
OB P4/625-16		14.05	6.25-16	22
OB P4/650-16		15.50	6.50-16	. 24

# AUTOMOBILE TIRES THE MANSFIELD





THE TIRE FOR
SAFETY
AND SERVICE
AT
LOWEST
DRIVING COST!

GOOD LOOKING

STURDY

DEPENDABLE

The Mansfield Tourist is the answer to the demand of owners of older cars for serviceable, smart-looking tires at money-saving prices. The Tourist offers these motorists a substantial measure of reliable mileage and tire safety. For the same reason, Tourist tires are in ready demand with car dealers. Their dependability, good looks, and extra protection guarantee make used cars sell easier. Popular balloon sizes with combination tires for oldest models.

#### **4-PLY TOURIST BALLOONS**

Nos.	Each	Size Tire Rim	Weight Each, Lbs.
OY T4/450-20	\$ 6.75	4.50-20	14
OY T4/440/450-21	7.00	4.40/4.50-21	15
OY T4/475/500-19	7.20	4.75/5.00-19	15
OY T4/525-17	8.05	5.25-17	18
OY T4/525-18	8.35	5.25-18	18
OY T4/550-17	9.05	5.50-17	19
OY T4/600-16	10.20	6.00-16	20

#### UNITED HIGH PRESSURE TIRES

OY U303½—30x3½. Weight each 14 lbs. Each \$6.35



HERE'S REAL ECONOMY!

THEY SAVE THE COST OF CHAINS, TOW-BILLS,
AND REPAIRS DUE TO SKIDS ON BAD ROADS!

NO NEED FOR CHAINS!

USE MANSFIELD

# Mudders

THE MUD AND SNOW TIRES
THAT PULL LIKE DRAFT
HORSES

Both Forward and Reverse!

Here are the tires that make their own road in any kind of weather. Deep, wide-angled, double-V cleats dig down deep into mud and sand or snow—push their way through the toughest going. The interlocking tread design provides continuous contact with the road, avoiding bumping on hard pavements.

Mansfield Mud and Snow Tires are self-cleaning—both forward and in reverse! Mansfield Mudders are built as strong as they look. They are reinforced at every point of strain.

Mount these tires according to arrows on sidewalls.

# NOTE THESE POPULAR COMBINATION SIZES: 4-PLY TRACTION GRIP MUDDERS

Nos.	Each	Size Tire Rim	Weight Each, Lbs
OB MS/440/450-21	\$10.50	4.40/4.50-21	17
OB MS/475/500-19	11.85	4.75/5.00-19	19
OB MS/525/550-17	13.80	4.25/5.50-17	21
OB MS/525/550-18	14.45	5.25/5.50-18	22
OB MS/600/625-16	16.35	6.00/6.25-16	23

# AUTOMOBILE INNER TUBES

# Mansfield Heavy Duty

### REINFORCED

Increase Driving Safety for Yourself and Your Family

Make Your Tires Last Longer

Specially reinforced by an extra layer of chemically treated, tough, live rubber welded to the rim side of the tube. This reinforcement protects where wear is the greatest, affording further security in high speed driving. Pinching, tearing, and other common causes of tube failure are eliminated. Made of select crude rubbers expertly compounded to resist heat and age.

#### Double Purpose Rubber Valve

Passenger car tubes are equipped with latest type rubber valves which replace both straight and bent metal stems. Easy to inflate—easy to mount. Stems are vented to release trapped air.

		For Tires,	Weight Each,
Nos.	Each	Size	Lbs.
OB MCD16	\$3.65	\$ 6.00-16 \$ 6.25-16	4
OB MC17	3.30	\$ 5.50-17 \$ 6.00-17	4
OB M700/15	4.30	7.00-15	4
OB MD16	4.35	\$ 6.50-16 \$ 7.00-16	4
OB M750/16	5.25	7.50-16	5

#### MANSFIELD PIONEER **Outstanding Values!**

Full size standard gauge, cured circular shape in individual heaters to fit tires without buckling or wrinkling.

wrinking.		For	Weigh
Nos.	Each	Tires,	Each,
2100	ESTICIT	Size [4.40-20]	Lbs.
OB PA20T	\$1.90	4.50-20	3
02 11101	ф1.00	4.75-20	
		4.40-21	3
OB PA21T	2.00	4.50-21	9
And a service	2.00	4.75-21	
		5.00-17	3
OB PB17T	2.15	5.25-17	0
OB P525/18T	2.25	5.25-18	0
	101/01/2	(4.75-19	
OB PB19T	2.25	5.00-19	9
300000	WINE	5.25-19	
OR DEED GOT	0.14	5.50-16	3
OB P550/16T	2.45	7 6.00-16	0
OB PCD16T	2.85	6.25-16	3
OB PC17T	0.00	(5.50-17	3
OBPUTT	2.65	6.00-17	
OB PC18T	0 **	(5.50-18	3
OBTUST	2.75	6.00-18	
OB PC19T	2.80	5.50-19	4
OBTUIST	2.00	7 6.00-19	
		5.50-20	4
OB PC20T	3.00	6.00-20	-
		6.00-21	
OB PD16T	3.45	6.50-16	4
ODIDIOL	Octo	7.00-16	
OB PD17T	3.50	6.50-17	4
OMEDITE	424120	77.00-17	
OB PD19T	3.70	6.50-19	5
ON LULUX	0.10	7.00-19	
Louis sees Ereich	to doptimation	ab - 11 t - 1	



# Offer Greatest Economical Mileage

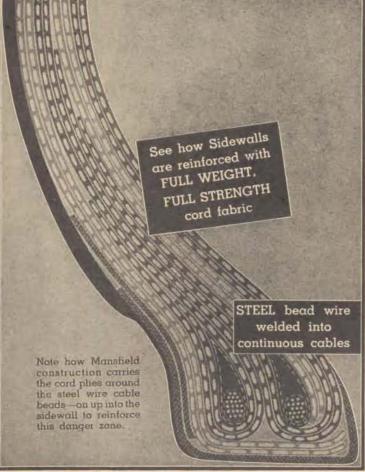
- Dense-Twist Cord
  Dense twist cord concentrates
  greater strength in less bulk—
  permits a greater volume of heatresistant rubber in the carcass to
  produce cool-running tires.
- Ribbed Traction Tread

  Rolls smoothly, steers easily, and grips safely. Extra thick, it wears slowly and evenly in heavy duty service.
- Armored Sidewalls

  Four or more cord plies are carried around the steel cable beads

  —up into the sidewall—for extra

  strength in the danger zone.
- Extra Carcass Cushioning
  Extra layers of live, resilient rubber cushion the carcass structure, weld tread and carcass into a perfectly interacting unit.
- Graduated hardnesses in adjoining tire elements produce uniform reaction to flexing and roadway shocks—protect against separations and blowouts.



## TRUCK AND BUS TIRES



# The New Mansfield

# Transport

Slashes Operating Costs!

Mansfield Transport Truck and Bus tires defeat heat to give fleet and truck operators a new range of tire performance.

Engineers have reduced internal heat in Mansfield Transports. Their Dense-Twist cotton cords concentrate greater strength in less bulk, permitting increased rubber in the carcass.

Their metallic base friction rubber absorbs the temperatures of high speed hauling.

#### BUS AND TRUCK TIRES

Nos.	Each	Size, Tire-Rim	Ply	Wt. Each, Lbs.
OB MT6/600-20	\$22.60	6,00-20	6	36
OB MT6/650-20	28.50	6.50-20	6	40
OB MT8/700-20	37.80	7.00-20	8	51
OB MT8/750-20	46.85	7.50-20	8	71
OB MT10/825-20	70.50	8.25-20	10	95
OB MT10/900-20	82.40	9.00-20	10	113
OB MT12/975-20	105.65	9.75-20	12	143

#### HIGH PRESSURE TIRES

Nos.	Each	Size, Tire-Rim	Ply	Wt. Each, Lbs.
OB MT8/305	28.35	30x5	8	42
OB MT8/326	36.80	32x6	8	47
OB MT10/326	48.20	32x6	10	67
OB MT10/347	67.95	34x7	10	87
OB MT12/347	73.30	34x7	12	93

### TRUCK TIRES



### THE ANSWER

TO

LOWER COST TIRE MILEAGE

FOR

1/2 AND 3/4-TON

TRUCKS

THE New MANSFIELD

Transport

Your tire costs will drop amazingly when you equip your small trucks with these new tires of small diameter designed to replace regular passenger car tires ordinarily used on 1/2 ton and 3/4 ton trucks.

These tires are true heavy duty construction—are built to withstand overloading and hard service. Their greater tread volume, stronger reinforced sidewalls, heavy beads, double cord breakers, Dense-Twist cord, and low heat build-up carcass rubber that defeats tire-killing heat—all combine to deliver long, low-cost mileage on light trucks.

These tires are for % and % ton trucks of:

Hardware Stores Lumber Yards Implement Dealers Farmers

Paint Dealers Contractors

School Buses

Builders

—And in every service, where these important commercial vehicles are used.

#### **6-PLY TRANSPORT**

Nos.	Each	Size, Tire-Rim	Each Lbs.
OB MT6/600-16	\$22.05	6.00-16	28
OB MT6/650-16	25.35	6.50-16	32
OB MT6/700-16	29.30	7.00-16	37
OB MT6/750-16	38.45	7.50-16	42

# BUS AND TRUCK TUBES FOR THE NEW MANSFIELD TRANSPORT 1/2 AND 3/4-TON TRUCKS

On sizes 6.00-16 and 6.50-16, use Mansfied Heavy Duty passenger car tubes.

On sizes 7.00-16 and 7.50-16 use Mansfield Heavy Duty black truck tubes.

The 7.00-16 and the 7.50-16 Mansfield Heavy Duty black truck tube sizes are available with TR 15 valves or hand bendable TR 50 valves, as specified.

1	1	For	Wt. Each,
Nos.	Each	Tire, Size	Lbs.
OB M600-16T	\$3.65	6.00-16	4
OB M650-16T	4.35	6.50-16	5
OB M700-16T	5.00	7.00-16	5
OB M825-20T	11.10	8.25-20	11
OB M900-20T	12.70	9.00-20	13
ОВ М975-20Т	13.80	9.75-20	15

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

Wt

THE New MANSFIELD

# Special Delivery



#### \* SPECIAL DELIVERY TIRES

Nos.	Each	Size Tire Rim	Ply	Weight Each Lbs.
#OB MSD10	\$22.35	6.00-16	6	31
‡OB MSD17	36.30	\$30x5 6.50-20 32x6	8	54 54 65
‡OB MSD19	45.95	7.00-20	8	65
≠OB MSD22	56.45	32x6 7.50-20	10	87 87

## BUILT ESPECIALLY FOR SLOW-MOVING MULTI-STOP-START VEHICLES

Ideal for low cost service on milk trucks, bread trucks and in delivery service of all kinds.

- · Extra thick tread for longer wear.
- Heavy buttressed shoulders to withstand curb scraping.
- Reinforced sidewalls for extra tire life.
- Double cable beads for maximum strength.

Continuous stopping and starting grinds down ordinary truck tires. The new Mansfield Special Delivery is engineered and built for service where long economical mileage is an important consideration. Their extra thick treads contain greatly increased volume for slow moving multi-stop trucks.

#### INNER TUBES

OB MSD10, use OB MCD16 Mansfield Heavy Duty passenger car tubes. OB MSD17 and OB MSD19, use OB MDT20 Mansfield Heavy Duty black truck tubes. OB MSD22, use OB MET20 Mansfield Heavy Duty black truck tubes.

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

## TRUCK TIRES



THE New

MANSFIELD

# Pioneer

# THE TRUCK TIRE THAT OFFERS MAXIMUM VALUE FOR MINIMUM INVESTMENT

Specially designed for commercial operators who want a dependable truck tire at moderate cost.

Deep-grooved treads, heavy cable beads and reinforced carcass make Mansfield Pioneers an exceptional value in their price range.

		Size		Weight Each.
Nos.	Each	Rim	Ply	Lbs.
OB PT305	\$22.70	30x5	8	39
OB PT8326	29.45	32x6	8	43
OB PT10326	38.55	32x6	10	57
OR PT660020	18.10	6.00-20	6	29

# **MANSFIELD TRUCK TUBES**



Immensely strong and super-resistant to high temperatures developed in high-speed hauling.

Made of high carbon, high tensile black rubber, cured tire-shape in individual heaters and fit casings without bunching or wrinkling.

#### **EQUIPPED WITH CONVERTIBLE METAL VALVES**

May be bent to the shape desired even after the tire is mounted.

Nos.	Each	Sizes	Each, Lbs
OB MCT20/305	\$4.45	30x5	5
OB M326T	6.85	32x6	8
OB MET20/347	9.60	34x7	12
OB MDT20/700-20	5.50	7.00-20	6

#### PIONEER TRUCK TUBES

Full size, standard gauge, of black, heat-resistant rubber. Fit truck and bus casings accurately. Equipped with convertible metal valve that may be bent to shape desired even after tire is mounted.

Nos.	Each	Sizes	Weight Each, Lbs.
OB PCT20	\$3.40	6.00-20	4
OB P326T	5.20	32x6	7

THE New MANSFIELD

# Special Delivery



#### \* SPECIAL DELIVERY TIRES

Nos.	Each	Size Tire Rim	Ply	Weight Each Lbs.	
#OB MSD10	\$22.35	6.00-16	6	31	
		( 30x5		54	
#OB MSD17	36.30	6.50-20	8	54	
		∫ 32x6		65	
#OB MSD19	45.95	7.00-20	8	65	
		( 32x6		87	
#OB MSD22	56.45	7.50-20	10	87	

### BUILT ESPECIALLY FOR SLOW-MOVING MULTI-STOP-START VEHICLES

Ideal for low cost service on milk trucks, bread trucks and in delivery service of all kinds.

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- Double cable beads for maximum strength.

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OB MSD17 and OB MSD19, use OB MDT20 Mansfield Heavy Duty black truck tubes.
OB MSD22, use OB MET20 Mansfield Heavy Duty black truck tubes.

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## TRUCK TIRES



THE New

MANSFIELD

# Pioneer

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Specially designed for commercial operators who want a dependable truck tire at moderate cost.

Deep-grooved treads, heavy cable beads and reinforced carcass make Mansfield Pioneers an exceptional value in their price range.

		Size		Weight Each.
Nos.	Each	Rim	Ply	Lbs.
OB PT305	\$22.70	30x5	8	39
OB PT8326	29.45	32x6	8	43
OB PT10326	38.55	32x6	10	57
OB PT660020	18.10	6.00-20	6	29

# MANSFIELD TRUCK TUBES



Immensely strong and super-resistant to high temperatures developed in high-speed hauling.

Made of high carbon, high tensile black rubber, cured tire-shape in individual heaters and fit casings without bunching or wrinkling.

#### **EQUIPPED WITH CONVERTIBLE METAL VALVES**

May be bent to the shape desired even after the tire is mounted.

Nos.	Each	Sizes	Each, Lbs.
OB MCT20/305	\$4.45	30x5	5
OB M326T	6.85	32x6	8
OB MET20/347	9.60	34x7	12
OB MDT20/700-20	5.50	7.00-20	6

#### PIONEER TRUCK TUBES

Full size, standard gauge, of black, heat-resistant rubber. Fit truck and bus casings accurately. Equipped with convertible metal valve that may be bent to shape desired even after tire is mounted.

Nos.	Each	Sizes	Weight Each, Lbs.
OB PCT20	\$3.40	6.00-20	4
OB P326T	5.20	32x6	7

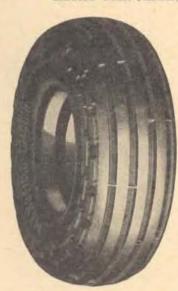


# Tractor

# MAKE FARMING EASIER AND MORE PROFITABLE!

- · Wear longer in any kind of farm service.
- Operate in high gear, cover more ground in a day—cut fuel costs.
- Extend the useful life of the tractor and increase your own driving comfort.

#### EXTRA PERFORMANCE BUILT IN!



Made of longer wearing alloy rubber of dense, even texture with tough tread rubber from bead to bead. Resists sun, weather and barnyard acids. Protects tire against cuts and snars.

snags.
Self-cleaning, forward or reverse.
Double V treads
deliver smooth,
powerful, positive
traction with a
greater soil gripping action that
prevents slippage
in hillside work.
More tire for your
money! Built to

maximum specifications for size. Greater volume assures larger load capacity, surer traction, easier riding, longer life.

#FRONT WHEEL TRACTOR TIRES

Ribbed, deeper, non-skid tread holds direction, gives better shoulder traction, banishes slipping.

Nos.	Each	Size Tire Rim	Ply	Wt. Each, Lbs.
<b>#OB MTT4/500/15</b>	\$12.15	5.00-15	4	15
<b>‡OB MTT4/550/16</b>	13.40	5.50-16	4	20
#OB MTT4/600/16	15.25	6.00-16	4	22
<b>‡OB MTT4/750/18</b>	23.25	7.50-18	4	37

#### MANSFIELD TRACTOR TUBES

Seep less air—These tubes are made of special rubber stock so dense that air seepage is reduced to the minimum. They are cured tire shape in individual heaters and fit casings accurately without wrinkling or bunching.

Wt.

Each,

Lbs.

115

121

136

Ply

4

6

6

**‡REAR WHEEL TRACTOR TIRES** 

This tire is large and soft, lays its own track as it re-

volves; absorbs the bumps and jolts of hard ground,

cushions tractor against vibrations, thus increasing driv-

ing efficiency and comfort. Scientifically spaced double

Each

\$70.10

83.15

90.85

Size

Rim

9.00-36

11.25-24

11.25-28

V cleats with increased bar length for better traction.

Nos.

#OB MTT4/900/36

#OB MTT6/1125/24

**#OB MTT6/1125/28** 

‡REAR	WHEEL	TUBES	Wt.	#FRONT	WHEEL	TUBES	Wt.
		Size	Each,	Nos.	Each	State of the state	
Nos.	Each	Tire Rim	Lbs.	#OB MTG500/15T	\$2.25	5.00-15	3
<b>‡OB MTG900/36T</b>	\$13.65	9.00-36	16	<b>‡OB MTG550/16T</b>	2.50	5.50-16	3
# OB MTG1125/24T	12.50	11.25-24	15	#OB MTG600/16T	2.65	6.00-16	3
<b>‡OB MTG1125/28T</b>	14.00	11.25-28	18	# OB MTG750/18T	4.00	7.50-18	5

#### FREE! VALUABLE TIRE MANUAL

Gives detailed information about the use and service of pneumatic equipment on tractor wheels—shows how to weight wheels, how to use anti-freeze, gives tire and wheel specifications for nearly all makes of tractors, explains detailed construction of Mansfield Tractor Tires and gives other valuable information about tractors and their operation.

#### WRITE US TODAY FOR YOUR COPY!

#Goods marked thus (#) are not carried in stock and can only be furnished by shipment direct from factory.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

# TIRE SIZES Used for Original Equipment on Cars from 1928 to 1939

_					.0					0410 11	O 1111 1	02	0 10	000
2000	BUICK	Contract of	1932	6		1931	Spec. 8	6.00-17	1930	8	7.00-20	1938	6-1600	6.50-16
1928	6-115	5.25-21 6.00-21	1932 1932	8	6,50-17	1931	Cust, 8	6.50-18	1931	8	7.00-19	1938	8-1601	7.00-16
1929	6-116	5.50-20	1933	Imp. 8	7.00-17 5.50-17	1932	6	5.50-17	1932 1932	8	7.00-18	1938	Sup. 8	7.50-16
1929	6-121 6-129	6.50-20	1933	8	6.00-17	1933	6	5.50-17	1933	8	7.50-18	1939	Six 1700 Eight 170	6.50-16
1930	6-40	5.50-19	1933	Imp. 8	6.50-17	1933	8	6.00-17	1933	12	7.50-18	1000	3, 5	7.00-16
1930	6-50 6-60	6.50-19	1933	Cust. 8	7.50-17	1934	Std. 6	6.25-16	1934	V12-145	7.50-28	-		
1931	8-50	7.00-19 5.25-18	1934	6 Royal 8	6.50-16 7.00-16	1934 1934	Std. 8 Cust. 8	6.50-16 7.00-16	1934 1935	V12-136	7.00-18	1929	PLYMOU 4	4.75-20
1931	8-60	5.50-19	1934	Imp. 8	7.50-16	1935	6	5.25-17	1936	V12 Zephyr	7.50-17	1930	4	4.75-19
1931	8-80 8-90	6.50-19	1934	Cu. Imp. 8	7.50-17	1935	Spec. 6	5.25-17	1936	V12	7.50-17	1931	4	4.75-19
1932	8-50 8-60	6.00-18	1935	6 AS 8 AS	6.25-16	1935	8	6.50-16	1937	Zephyr	7.00-16	1932	4	5.25-18
1932	8-80 8-90	7.00-18	1935	8 AF	6.50-18 7.00-16	1936	Super C-8	7.00-16 5.25-17	1937	V-12 K Zephyr	7.50-17	1933	6	5.25-17 5.25-17
1933	8-50	6.00-17	1935	Imp. AF	7.50-16	1936	90	6.00-16	1939	V-12	7.50-16	1934	DL6	6.00-16
1933	8-60	6.50-17	1935	ICSAF-137	7.50-16	1936	110	6.25-16	1939	Zephyr	7.00-16	1935	6	6.00-16
1933	8-80 8-90 34-50	7.00-17	1935 1936	IC8AF-146	7.50-17	1937	852-D	5.25-17		NASH	A COLOR	1936	P-1	5.25-17
1934	34-60	7.50-16	1936	8	6.25-16	1937	85 91	6.00-16	1928	Std. 6	5.00-20	1936	P-2 P3 Std.	6.00-16 5.50-16
1934	34-90	7.50-16	1936	AF8	7.00-16	1937	90	6.00-16	1928	Spec. 6	5.25-20	1937	P3 DeL	6.00-16
1935	40	6.25-16	1937	Royal C16-5	6.25-16	1938	Special	6.00-16	1928 1929	Adv. 6	6.00-20	1937	P4	6.00-16
1935 1935	50 60	7.50-16	1937	Royal C16-7		1938	Sup. Chgr.	6.50-16	1929	Std. 6 Spec. 6	5.00-20	1937	P4-7	6.50-16
1935	90	7.50-16	1938	Roy. C-18	6.50-16	1939	Std. Spc.	6.00-16	1929	Adv. 6	6.00-20	1938 1938	P-5 P-6	5.50-16 6.00-16
1936	36-40	6.50-16	1938	Imp. C-19 C. I. C-20	6.50-16	15	HUDSON-		1930	6	5.00-19	1939	P-7	5.50-16
1936	36-80	7.00-16	1938	C. I. C-20	7.50-16	ALCOHAL .	TERRAPLA		1930	T.1.6 6-60	5.50-19	1939	P-8	6,00-16
1936 1937	36-90 40	7.50-16	1939	Roy. C-18 Imp. C-19	6.25-16	1928	6	6.00-19	1931	8-70	5.50-19		PONTIA	0.0
1937	60	7.00-15	1939	Cus. Imp.	7.50-16	1930	6-139"	6.50-18	1931	8-80	5.50-18	1928	6	4.75-20
1937	80	7.00-16	-	DeSOTO	110000000	1931	8	5.50-18 5,50-18	1932	6-960	5.25-18	1929	6	5.00-19
1937 1938	90	7.50-16	1929	6	5.00-19	1932	8	6.00-17	1932	8-970 8-980	5.50-18 6.50-17	1930	6	5.00-19
1938	40 60	6.50-16 7.00-15	1930	8	5,25-19	1933	6	5.50-17	1933	Big 6	5.50-17	1931	6	5.00-19
1938	80	7.00-16	1930	6	5.00-19	1933	Terraplane (	6.00-17	1933	Std. 8	5.50-17	1932	8	5.25-18 6.00-17
1938	90	7.50-16	1931	8	5.25-19 5.00-19	1934	8	6.25-16	1933	Spec. 8	5.50-18	1933	8	5.50-17
1939	40	6,50-16 7,00-15	1932	6	5.25-18	1935	Terraplane 6	6.00-16	1933 1934	Adv. 8 Big 6	6.50-17	1934	8	6.00-17
1939	60 80	7.00-15	1933	6	5,50-17	1935	Big 6	6.00-16	1934	Adv. 8	5.50-17 6.50-16	1935 1935	6	6.00-16
1939	90	7.50-16	1934	6	6.50-16	1935	8 Terraplane 6	6.25-16	1934	Amb. 8	7.00-17	1936	6	6.50-16
	CADILLA		1935 1935	6-AS 6-AF	6.25-16 6.50-16	1936	6	6.00-16	1935	Adv. 6	6.25-16	1936	8	6.50-16
1928	8	7.00-20	1936	AS	6.25-16	1936	8	6.25-16	1935 1936	Adv.Amb.8		1937	6	6.00-16
1929	8	7.00-20	1936	AF	6.50-16	1937	Terraplane		1936	Amb.	6.00-T6 6.25-16	1937 1938	6-26	6.50-16
1930	V8, V16	7.00-19	1937	S3-5	6.00-16	1937	8	6.00-16	1936	Amb. 8	6.50-16	1938	8-26	6.00-16 6.50-16
1931	V8 V12	7.50-19	1937 1938	S3-7 S-5	6.50-16	1938	Terraplane		1937	Adv. 6	6.25-16		Six 25, 26,	28 6.00-16
1931	V16	7.50-19	1939	5-6	6.00-16	1938	Hudson 83	6.00-16	1937 1938	Adv. 8 Amb. 6	7.00-16	1	TUDEBA	-
1932	V8	7.00-17	-	DODGE		1938	Hud. 84-5-7		1938	Amb. 8	6.25-16 7.00-16		Dict. 6	5.50-20
1932	V12	7.50-17	1928	4-128	5.00-19	1939	81-82-83	5.50-16	1939	Lafayette	6.00-16	1928	Comr. 6	6.50-20
1932	V16 V8	7.50-17	1928	Vic. 6	5.25-19	1939	84-85-87	6.50-16	1939	Amb. 6	6.25-16	1929	Dict. 6	5.50-20
1933	V12	7.50-17	1928	Sr. 6	6.00-19		HUPMOBIL	2000	1939	Amb. 8	7.00-16	1929 1929	Comr. 6	5.50-20
1933	V16	7,50-17	1929 1929	Std. 6 Sr. 6	5.00-19 6.00-19	1928	6A	5.50-19	1928	OLDSMOBI		1929	Comr. 8 8-125	5.50-20 6.00-20
1934	V8	7.00-17	1930	Std. 6	5.50-19	1929	6A	5.50-19	1928	6 6F	5.25-18 5.25-18	1929	8-135	6.50-19
1934 1934	V12 V16	7.50-17	1930	Sr. 6	6.00-19	1930	6S	5.25-19	1930	6	5.25-18	1930	Dict. 6	5.50-19
1935	V8	7.00-17	1930	6DD	5.00-19	1930	8C	6.00-19	1931	6	5.25-18	1930	Comr. 6 Dict. 8	5.50-19
1935	V12	7.50-17	1930	8DC	5.50-18 5.00-19	1931	Cent. 6 Cent. 8	5.50-19	1932	6-8	6.00-17	1930	Comr. 8	5.50-19 5.50-19
1935 1936	V16 V8-60	7.50-17	1931	8	5,50-18	1932	6-214	5.50-19	1933	6	5.50-17 6.00-17	1930	8 F.E.	6.50-19
1936	V8-70 & 75	7.50-16	1932	6	5.50-18	1932	6-216	5,50-18	1934	6	5.50-17	1930	8 F.H.	6.00-20
1937	60	7.00-16	1932	6	6.00-18	1932	8-218	5.50-19	1934	8	7.00-16	1931	6 Dict. 8	5.25-19
1937	65-70	7.50-16	1933	8	6.50-17	1932	8-221 8-222	6.00-17	1935 1935	6	6.25-16	1931	Comr. 8	6.00-19
1937 1937	75-85 90	7.50-16	1934	6	6.25-16	1933	6-321	6.00-17	1936	F36	7.00-16	1931	Pres. 8	6.50-19
1938	V8-60	7.00-16	1935	6	6.00-16	1933	8-322	6.00-17	1936	L36	7.00-16	1932 1932	6 Dict. 8	5.50-18
1938	V8-65-75	7.50-16	1936 1937	6 D5-5	6.00-16	1934 1934	417-421J 421-422	6.50-16	1937	6	6.50-16	1932	Comr. 8	5.50-18 6.00-18
1938	V16	7.50-16	1937	D5-7	6.50-16	1934	426	6.50-17	1937 1938	6	7.00-16	1932	Pres. 8	6.50-18
1939	V8-60-61 V8-75	7.00-16	1938	Six	6.00-16	1935	518	6.00-16	1938	8	7.00-16	1933	6	5.50-17
1939	V16	7.50-16	1939	Six	6.00-16	1935	521	6.50-16	1939	F6	6.50-16		8-63 8-72	6.00-17
-	CHEVROLE	0.00000000	1928	FORD 4A	4 50 04	1935 1936	527 618	7.00-16 6.00-16	1939	L8	7.00-16	1933	8-92	6.50-17 7.00-17
1928		4.50-21		4A	4.50-21	1936	621	6.50-16	1000	PACKARD		1934	6, Dict. 8	5.50-17
1928		4.50-21	1930	4A	4.75-19	1938	6E	6.25-16	1928 1928	6-526	7.00-20		Com. 8	6.00-17
1930	6	4.75-19	1931	4A	4.75-19	1938	8 H Six	6.50-16	1928	8-443	7.00-20	1935	Pres. 8 Dict. 6	6.50-17 6.00-16
1931	6	4.75-19 4.75-19	1932 1933	4B, 8V 4B	5.25-18 5.25-17	1939	Eight	6.50-16	1929	8-626	6.00-20	1935	Com. 8	6.50-16
1932	6 Standard	5.25-18	1933	87	5.50-17	-				8-640	7.00-20		Pres. 8	7.00-16
1933	Master	5.25-17	1934	V-8	5.50-17	1004	LA FAYETT	The second	1930	8-645 8-726	7.00-20 6.00-20		Dict. 6 Pres. 8	6.00-16
1934	Master	5.50-17	1935	V-8	6.00-16	1934 1935	6	5.50-17	1930	8-733	6.50-20	1937	Dict. Std.	6.50-16
1935	Std. 6	5.25-17	1936 1937	V-8 74	6.00-16 5.50-16	1936	6	6.00-16	1930	8-740	7.00-19	1937	Dict. Pl.	6.00-16
	Master 6	5.50-17	1937	78	6.00-16	1937	6	6.00-16		8-26	6.50-19			7.50-16
			1938	V-8 60	5.50-16	1938	3810	6.00-16		8-40	7.00-19	1938	6 & Com. President	6.00-16 6.50-16
1936	Standard Master	5.50-17		V-8 85	6.00-16	1	LASALLE		1932	8-901	6.50-19	1939	Com. 9A	6.00-16
1937	Master Std. 8-Mstr.	5.50-17	1938			Participation of the Participa		6.00-20	1932	8-902	6.50-19	1939		
1937 1938	Master Std. 8-Mstr. Six	6.00-16	1939	V-8 60	5.50-16	1928	8-125"		4000	D 000			Pres. 50	6.50-16
1937 1938	Master Std. 8-Mstr.	6.00-16	1939	V-8 60 V-8 85	5.50-16 6.00-16	1928	8-134"	6.50-20		8-903	7.00-19	-	And the same of th	0.00
1937 1938	Master Std. 8-Mstr. Six	6.00-16 6.00-16 6.00-16	1939	V-8 60 V-8 85 GRAHAM	6.00-16	1928 1929	8-134"	6.50-20	1933	8-903 Lt. 8	7.00-17	1928	WILLY 6-56	S
1937 1938 1939	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52	6.00-16 6.00-16 6.00-16 8 4.75-20	1939 1939 1928 1928	V-8 60 V-8 85 GRAHAM 6-10 6-14	5.00-19 5.25-19	1928 1929 1930	8-134" 8	6.50-20 6.50-19 6.50-19	1933 1933 1933	8-903 Lt. 8 Sup. 8	7.00-17	1928 1928	WILLY: 6-56 6-66A	0.00
1937 1938 1939 1928 1928	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-62 6-62	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18	1939 1939 1928 1928 1928	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19	5.00-19 5.25-19 5.50-19	1928 1929 1930 1931	8-134" 8 8 8	6.50-20 6.50-19 6.50-19 6.50-19	1933 1933 1934	8-903 Lt. 8 Sup. 8 12 8	7.00-17 7.50-17 7.50-17 7.00-17	1928 1928 1928	WILLY: 6-56 6-66A 6-70A	5.50-19 6.00-20 6.00-19
1937 1938 1939 1928 1928 1928	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18	1939 1939 1928 1928 1928 1928	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19	5.00-19 5.25-19 5.50-19 6.00-19	1928 1929 1930 1931 1932 1933	8-134" 8 8 8 8	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-17	1933 1933 1933 1934 1934 1935	8-903 Lt. 8 Sup. 8 12 8	7.00-17 7.50-17 7.50-17 7.50-17	1928 1928 1928 1928	WILLY 6-56 6-66A 6-70A 6-66B	5.50-19 6.00-20 6.00-19 6.00-19
1937 1938 1939 1928 1928 1928 1928	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-62 6-62 6-72 6-80	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18	1939 1939 1928 1928 1928 1928 1929	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19	5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 5.50-19	1928 1929 1930 1931 1932 1933 1934	8-134" 8 8 8 8 8	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-17	1933 1933 1933 1934 1934 1935	8-903 Lt. 8 Sup. 8 12 8	7.00-17 7.50-17 7.50-17 7.50-17 6.50-16	1928 1928 1928 1929 1929	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19
1937 1938 1939 1928 1928 1928 1928 1929 1929	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18 5.50-18 6.00-18	1939 1939 1928 1928 1928 1928 1929 1929 1929	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19 6-29 6-12 6-15 6-21	5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 5.50-19	1928 1929 1930 1931 1932 1933 1934 1935	8-134* 8 8 8 8 8 8	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-16 7.00-16	1933 1933 1933 1934 1934 1935 1935	8-903 Lt. 8 Sup. 8 12 8 12 120 8 Super 8	7.00-17 7.00-17 7.50-17 7.50-17 6.50-16 7.00-17 7.00-17	1928 1928 1928 1929 1929 1930 1930	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-70B	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19 6.00-19 5.50-19
1937 1938 1939 1928 1928 1928 1928 1929 1930	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75 6	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18 5.50-18 6.00-18	1939 1939 1928 1928 1928 1929 1929 1929 1930	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19 6-29 6-12 6-15 6-21 8td-6	5.00-16 5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 6.00-19 5.25-19	1928 1929 1930 1931 1932 1933 1934	8-134" 8 8 8 8 8	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-16 7.00-16 7.00-16	1933 1933 1934 1934 1935 1935 1935 1935	8-903 Lt. 8 Sup. 8 12 8 12 120 8 Super 8 Super 12	7.00-17 7.50-17 7.50-17 7.50-17 6.50-16 7.00-17 7.00-17 7.50-17	1928 1928 1928 1928 1929 1929 1930 1930 1931	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-70-B 6-66D	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19 6.00-19 5.50-19 6.00-18
1937 1938 1939 1928 1928 1928 1929 1929 1930 1930	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75 6-66 6-70	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18 5.50-18 5.00-19 5.50-18	1939 1939 1928 1928 1928 1929 1929 1929 1930 1930	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19 6-12 6-12 6-15 6-21 8td-6 Spec. 6	5.00-16 5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 6.00-19 5.50-19 5.50-18	1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938	8-134" 8 8 8 8 8 8 8 8 8 8 9 50 50 V-8-50	6.50-20 6.50-19 6.50-19 7.00-17 7.00-17 7.00-16 7.00-16 7.00-16 7.00-16	1933 1933 1933 1934 1934 1935 1935 1935 1935	8-903 Lt. 8 Sup. 8 12 8 12 120 8 Super 8 Super 12 120	7.00-17 7.50-17 7.50-17 7.50-17 6.50-16 7.00-17 7.50-17 7.50-17 7.50-16	1928 1928 1928 1929 1929 1930 1930 1931 1932	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-70B 6-66D 6-66D	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19 6.00-19 5.50-19 6.00-18 6.00-16
1937 1938 1939 1928 1928 1928 1929 1930 1930 1930	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75 6 6-86 6-70 6-77	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 5.50-18 6.00-18 5.50-18 6.00-18	1939 1939 1928 1928 1928 1928 1929 1929 1930 1930 1930	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19 6-12 6-12 6-15 8-21 Std. 6 Spec. 6 Std. 8	5.00-19 5.25-19 5.50-19 5.50-19 5.00-19 5.50-19 6.00-19 5.25-19 5.50-18 6.00-18	1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939	8-134" 8 8 8 8 8 8 8 8 8 8 9 50 50	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-16 7.00-16 7.00-16 7.00-16	1933 1933 1933 1934 1934 1935 1935 1935 1936 1936	8-903 Lt. 8 Sup. 8 12 12 120 8 Super 8 Super 12 120 8	7.00-17 7.00-17 7.50-17 7.50-17 6.50-16 7.00-17 7.00-17 7.50-17 7.50-16 7.00-16	1928 1928 1928 1929 1929 1930 1930 1931 1932 1932	WILLY: 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-70B 6-66D 6-66D 6-95	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19 6.00-19 5.50-19 6.00-18 6.00-16 5.50-17
1937 1938 1939 1928 1928 1928 1929 1930 1930 1930	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75 6-66 6-70	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18 5.50-18 6.00-18 5.50-18 6.00-18 7.00-18 5.50-18	1939 1939 1928 1928 1928 1929 1929 1930 1930 1930 1930	V-8 60 V-8 85 GRAHAM 6-10 6-19 6-19 6-15 6-21 Std. 6 Spec. 6 Std. 8 Spec. 8 Cust. 8	5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 5.50-19 5.50-19 5.50-18 6.00-18 6.00-18 6.00-18	1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939	8-134" 8 8 8 8 8 8 8 8 36-50 50 V-8-50 V-8-50	6.50-20 6.50-19 6.50-19 6.50-19 7.00-17 7.00-16 7.00-16 7.00-16 7.00-16 7.00-16 7.00-16	1933 1933 1933 1934 1934 1935 1935 1935 1936 1936 1936 1937	8-903 Lt. 8 Sup. 8 12 8 12 120 8 Super 8 Super 12 120 8 Super 8 Super 8	7.00-17 7.00-17 7.50-17 7.50-17 6.50-16 7.00-17 7.50-17 7.00-17 7.00-16 7.00-17 7.00-17 6.50-16	1928 1928 1928 1929 1929 1930 1930 1931 1932 1932 1935 1937	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-70B 6-66D 6-66D 6-66D 6-95 77	5.50-19 6.00-20 6.00-19 5.50-19 6.00-19 5.50-19 6.00-18 6.00-16 5.50-17 5.50-17
1937 1938 1939 1928 1928 1928 1929 1930 1930 1930 1930 1931	Master Std. 8-Mstr. Six Mas. 8-DeL. CHRYSLEI 4-52 6-62 6-72 6-80 6-85 6-75 6 6-66 6-70 6-66 6-70	6.00-16 6.00-16 6.00-16 R 4.75-20 5.25-18 6.00-18 7.00-18 5.50-18 6.00-18 5.00-19 6.00-18 7.00-18 5.50-18 6.00-18	1939 1939 1928 1928 1928 1929 1929 1930 1930 1930 1930 1930 1931	V-8 60 V-8 85 GRAHAM 6-10 6-14 6-19 6-29 6-12 6-15 6-21 8-21 8-21 8-21 8-21 8-21 8-21 8-21 8	5.00-16 5.00-19 5.25-19 5.50-19 6.00-19 5.50-19 6.00-19 5.25-19 5.50-18 6.00-18 6.00-18	1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939	8-134" 8 8 8 8 8 8 8 8 8 7 8 8 8 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8	6.50-20 6.50-19 6.50-19 7.00-17 7.00-17 7.00-16 7.00-16 7.00-16 7.00-16	1933 1933 1933 1934 1934 1935 1935 1935 1936 1936 1936 1937	8-903 Lt. 8 Sup. 8 12 8 12 120 8 Super 8 Super 12 120 8 Super 8	7.00-17 7.00-17 7.50-17 7.50-17 6.50-16 7.00-17 7.50-17 7.50-17 7.50-17 7.00-16 7.00-17	1928 1928 1928 1929 1929 1930 1930 1931 1932 1935 1937 1938	WILLY 6-56 6-66A 6-70A 6-66B 6-70-B 6-66B 6-66D 6-66D 6-66D 6-95 77 4	5.50-19 6.00-20 6.00-19 6.00-19 5.50-19 6.00-19 5.50-19 6.00-18 6.00-16 5.50-17

### TIRE SIZES — Cars Which Use Them (1926-1939)

1825-29 Ford 4A   1825-35 Ford 1A   1825-35 Fo	TIRE	SIZES — Cars	Which Use T	hem (1926-19	139)
1902-97   Chevrolet 4   1907-98   Ford 80   1907-98   Ford 80   1907-98   Ford 80   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99   1907-99	4.40/21	5.50/16			
4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/201  4.50/2	1926-27 Chevrolet 4	1937-38 Ford 60			
Authorities   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-190   1907-1	1926-27 Ford 41	1939 Hudson 112	1939 Nash Lafayette		1935 Buick 50
1982   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985			1935 Plymouth 6	1936 Reo Flying Cloud	
1928	1929 Chevrolet 6	1939 Plymouth P7	1936 Plymouth P-2		1936-37 Cadillac V8, 60-
1920-19   Ford 4A   1920-19   Chevrolet Master   1920-19   Chevrolet Mas					
4.75/19 1920.31 Chevrolet (6-10) (6-10) (6-10) (7-10) (7-10) (6-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-10) (7-1				8-50	61
1920.51   Durant 4   1926   Chevrolet Master   1926   Chevrolet Master   1926   Chevrolet Master   1927   1928   Chevrolet Master   1928   Chevrolet Std. 6   1922-29   Chevrolet Std	4.75/10	1934 Auburn Std. 6	1937-38 Pontiac 6	1936 Auburn 852	1935 Chrysler 8-AF
Darrant (4-10) (29)   1935   Chevrolet Mast   1935   Studebaker Dit.   1935   1936   Chevrolet Mast   1935   Studebaker Dit.   1935   Chevrolet Mast   1935   Studebaker Dit.   1935   Chevrolet Mast   1935   Chevrolet Mast	1930-31 Chevrolet 6		1939 Pontiac 8		
1928 to 30 Whilppet (4)   1926 to 30 Whilppet (5)   1927 to 30 Whilppet (6)   1927 to 30 Whilppet (6)   1928 to 30 Whilp		1935 Chevrolet Mast.		1938-39 Bulck 40	1935 Graham Super
1982 to 30 Whippet (-)   1983   5.850 to 6   1984   1984   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985	1929 Durant 4	1936 Chevrolet Master	1939 Studebaker Com.	1935 Chrysler 8 AS	1934 Hupmobile 8-427
1928 to 30 Whitpert (6)   1923		1933 Chrysler CO6		1936 Chrysler DeLuxe	
1922-9 Erskin 6   1922-19   1924   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1925-19   1		6			1937-38 LaSalle 50
1923 - 20   Erakine 6   1920 to 29   Fording 6   1920 to 29   1920 t		1934 Essex Terra-		1939 Chrysler Imp.	1936-37 Lincoln Zephyr
1920 to 28 Droite 8 1921 to 31 Doc8ote 6 1922 to 31 Doc8ote 6 1922 to 31 Doc8ote 6 1923 to 31 Doc8ote 6 1923 to 31 Doc8ote 6 1924 to 31 Doc8ote 6 1925 to 32 Doc8ote 8 1925 to 32	1928-29 Erskine 6				
1900   Chysler 6   1902 to 31 Deboto 6   1902 to 32 Deboto 6   1		1932-33 Graham (6)	1933 Chrysler CT8	1935 DeSoto 6AF	1939 Nash Amb. 8
1922 to 31 Dodge (4-12)	9 80 (48)	1934 LaFayette		1937 DeSoto S-3-7	1936-37 Oldsmobile 8
1922 to 31 Desoto 6 (1-2) 1923 to 31 Desoto 6 (1-2) 1923 to 31 Desoto 6 (1-2) 1924 to 31 Points 6 (1-2) 1924 to 32 Points			1935 Graham Spec. 6		
(6)   Std. 6) (6-1933	1929 to 31 DeSoto 6	1933-34 Oldsmobile (6)	1932 to 34 Hupmobile (8-	(6)	1939 Packard 1701-2
1928-29 Graham 6 1930 to 32 Naah (6) 1932-30 Milys (7) 1932-31 Milys (7) 1932-31 Milys (7) 1932-32 Mil	(6) (Std. 6) (6-	1933 Rockne 6-75	(6-321) (421)	1934 Hudson-8-123	
1922-62 Graham 6 1922-03 Willys 6) 1923-05 Willys 6) 1923-05 Willys 6) 1923-05 Willys 77 1924-1925-1925-1925-1925-1925-1925-1925-1925			1932-33 Oldsmobile (6)		
1925	1928-29 Graham 6		1932-34 Pontlac 8	417) (6-421J)	
1935   Willys 77   1936   Willys 77   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933   1933	1929 to 31 Pontiac 6			1936 Hupmobile 621	1933 Auburn 12-165
1932   Survey   1932   Survey   1932   Survey   1932   Survey   1933   Survey   1934   Survey   1935   Chevrolet Stid.   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   1930   13   193			(8-63) (Com. 8)		
1933-34 Chevrolet Std. 6   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36   1930-36		1932 Buick 8-50		1935 Nash Adv.	1935 Cadillac V8
1935   Chevrolet Std. 6   1936   Chevrolet Std. 6   1930-31 Graham Special 1933-34 Continental 4-Lt.   1932-34 C	5.25/17	(6-70) (6-66 6)	6.00/18	1936 Nash AS	1932-33 LaSalle 8
1993. 34 Continental 4-Lt, 1993. 34 Graham Special 199				1936-37 Oldsmobile 6	
1933   Ford B4   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1932   1933   1932   1933   1933   1934   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935	1936 Chevrolet Std.	1930-31 Graham Special	90) (8-95)	1935 Packard 120	Super 8
1933   Sex Terr, 6   1932   Hupmobile 6-126   1931-32   Nash 6-30   1932   Studebaker 8-9.2   1932   Studebaker 8-9.2   1933   Studebaker 8-9.2   1934   1935   Studebaker 8-9.2   1935   Studebaker 8	1933-34 Continental 4-Lt.	1930-31 Hudson 8			1935 Packard Super 8
1935   Craham 6   1936   Craham 80   1937   Craham 85 2-D   1932   Craham 85 2-D   1933   Craham 85 2-D   1933			72, 75, 77	1935 Pontiac 8	
1932   1932   1932   1932   1932   1932   1932   1932   1933   1933   1933   1934   1934   1934   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935   1935	1935 Graham 6	(8-970) (Spec. 8)	1930 Graham Spec. &	1937-38 Pontiac 8	
1935		1932 Studebaker (6)	Std. 8 1928 to 31 Reg (6-15) (6F)		1932 Buick (8-80) (8-
1933   Rockne     1932   Willys Knight   6,95     1932   Millys Knight   6,19     1932   Millys Knight   1932   Milly	1933-34 Plymouth 6		(6-20) (6-Wol.)	8	
5.25/18 1928 Aburn 6.76 1931 Buick 8.50 1932-32 Chrysier 6-60 at 1928-29 Chrysier 1928 at 1928		1932 Willys Knight	8		Imp. 6
1928   Auburn 6-76   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930   1930	5.25/18	2.02.00			(V12)
1927-28 Chrysler 6   1930   Dodge Std. 6   1928-29 Graham (6-15)   1928-29 Graham (6-25) & 1928-29 Graham (8-25) & 1928-29 G	1928 Auburn 6-76		2 2 2 2 2 2 2		
1932   DeSoto 6   1932   Essex 6   1933   Hudson Super 6   1929-30   Nash Spec 6   1929-30   Nash Spec 6   1930   Studebaker   1930   Studebaker   1931   Studebaker   1931   Studebaker   1932   Studebaker   1937-38   Chrysler Imp. 8   1937-38   Chrysler Imp. 8   1938-30   Prysler Imp. 1938-30   Prysler Imp. 193	1932-33 Chevrolet (6)	(8-60)			(8-990)
1932   DeSoto 6   1932   Essex 6   1932   Essex 6   1932   Essex 6   1932   Ford (4A) (V8)   1933   Hudson Super 6   1929-30   Nash Spec. 8   1928-30   Nash Spec. 8   1929-30   Nash Spec. 6   1929-30   Nash Spec. 8   1929-30   Nash Adv. 6   1929-30   Nash Spec. 8   1929-30   Nash Spec. 8   192		1928-29 Graham (6-15)	1928-29 Graham (6-29 &	(Imp. 8)	1930-32 Pierce Arrow 8
1832	1932 DeSoto 6			1932 to 34 Hupmobile (8-	
1923   1924   1925   1926   1927   1926   1927   1926   1927   1926   1927   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928   1928	1932 Ford (4A) (V8)	(6A) (Cent. 6 &	6		
1932 Nash 6-960 1932 Polymouth 4 1932 Pontiac 6 1932 Rockne 6-65 1934 Studebaker 8-72 1935 Studebaker 8-72 1936 Rockne 6-65 1937 Auburn (6-66) 1938 Rockne 6-65 1938 Rockne 6-65 1939 Rockne 6-65 1930 Rockne 6-65 1930 Rockne 6-65 1931 Chrysler 6 1932 Rockne 6-65 1932 Rockne 6-65 1934 Rockne 6-65 1935 Rockne 6-65 1936 Rockne 6-65 1937 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1938 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1938 Rockne 6-65 1938 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1938 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1936 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1939 Rockne 6-65 1930 Rockne 6-65 1931 Rockne 6-65 1932 Rockne 6-65 1933 Rockne 6-65 1934 Rockne 16 1935 Rockne 6-65 1936 Rockne 6-65 1937 Rockne 6-65 1938 Rockne 6-65 1938 Rockne 6-65 1939 Rockne 6-65 1939 Rockne 6-65 1930 Rockne 6-65 1931 Rockne 6-65 1932 Rockne 6-65 1933 Rockne 6-65 1936 Rockne 6-65 1937 Rockne 8-72 1938 Rockne 8-72 1938 Rockne 8-72 1938 Rockne 8-72 1938 Rockne 8-72 1939 Rockne 8-72 1939 Rockne 8-72 1939 Rockne 8-72 19		1929-30 Nash Spec. 6	(8M) (8C) (8-221)	1932-33 Nash Adv. 8-980	
1932	1932 Nash 6-960	(Dict. 6 & 8)		1931-32 Reo (620) (8-25)	1935 Buick 60
1932   Flocking 6-65   1934   Flocking 6-65   1935   Flocking 6-65   1936   Flocking 6-65	1932 Plymouth 4	(Com. 6 & 8)	1928-30 Willys Knight		
1932   Willys 6-90		1928 to 30 Willys Knight	(6-70B) (6-66B)		
1927   Auburn (6-66) (8-77)   1937-38   Chevrolet Std.   1937-38   Chevrolet Master   1938-30   Chevrolet Master   1939   Chevrolet Master   1939   Chevrolet Master   1938   Chevrolet Master   1939   Chevrolet Master   1939   Chevrolet Master   1939   Chevrolet Master   1939   Chevrolet Master   1938   Chevrolet Master   1939   Chevrolet Master   1930		****		1928 to 30 Auburn (8-115)	1938-39 Cadillac V-8
1937   1937   1937   1937   1937   1937   1937   1937   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938		1936 Auburn 654	1928 LaSalle 8-125	1931 Graham Cust. 8	1934 Chrysler Imp. 8
1931   Chrysler 6   1930   Chevrolet Master and De Luxe   1932   DeSoto 8   1938   DeSoto 8   1937 - 38   DeSoto 8 - 3-5   1939   DeSoto 8 - 3-5   1930   DeSoto 8 - 3-5   1	(8-77)	1937-38 Chevrolet Std.			
1928		1939 Chevrolet Master	526) (8-626)	(8-30) (8-35) (8-	1935 Chrysler IC8AF-
1928-30   Graham (Std. 6)   1939   DeSoto S-6   1939   Dodge 6   1935-36   Dodge 6   1935-36   Dodge 6   1935-36   Dodge 5   1926 to 28 Bulck Mast. 6   1931   Nash 8-70   1928   Nash 8-70   1929   Roosevelt 8   1931   Studebaker (6) (Dict. 8)   1935-36   Ford V-8   1935   Ford V-8   1935   Ford V-8   1936   Chrysler 6   1937-38   Chrysler Royal 1928   Nash Spec. 8   1936   Graham 90   1937-38   Graham 85, 90, 91, 95   1936   Tolk on 6   1936   Tolk on 6   1937-38   Tolk on 6   1937-38   Tolk on 6   1938   Tolk on 6   1936   Tolk on 6   1	1928 Dodge Vic. 8		1927-29-30 Studebaker	1932 Studebaker Pres.	1937-38 Chrysler Imp.
1930   Hupmobile (6S)   1927 to 29 Marmon (Little   1937-38   Dodge D5-5   1937 to 29 Marmon (Little   1937-38   Dodge D5-5   1938   1939   Dodge D5-5   1938   1939   Dodge Six   1931   Nash 8-70   1928-29   Peerless 6-60 & 61   1934   Essex Terrapiane 6   1934   Essex Terrapiane 6   1935   Studebaker (6) (Diot. 8)   1935   Studebaker (6) (Diot. 8)   1935-36   Ford V-8   1937-38   Ford 85   1937-38   Ford 85   1937-38   Ford 85   1937-38   Ford V-85   1937-38   Graham 90   1937-38   Graham 90   1937-38   Graham 90   1937-38   Graham 85, 90, 91, 95   1937-38   Graham 85, 90, 91, 95   1937-38   Graham 85, 90, 91, 95   1938   Chrysler Royal 1926-27   Dodge 4   1938   Hudson 6-81, 1939   Hudson 8   1938   DeSoto 6-8   1938   Chrysler 6   1938   Hugmobile 618   1939   Hugmobile 618   1939   Hugmobile 6   1935   Hudson 8   1935   Hudson 6-8   1935   Hudson 6-8   1935   Hudson 6-8   1935   Hudson 6-8   1937   Hudson 6-8   1938   Hugmobile 618   1939   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 618   1939   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1938   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1937   Hudson 6-8   1938   Hugmobile 6   1938   Hug	(Std. 6)	1939 DeSoto S-6	(Spec. 6) (Pres. 8-125 & 8FH)		
1931   Nash 8-70   1928-29   Peerless 6-60 & 60   1934   Essex Terra-plane 6   1935   Studebaker (6) (Dict. 8)   1936   1937-38   Ford 8-5   1937-38   Ford 8-5   1937-38   Ford 8-5   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1937-38   1		1935-36 Dodge Six	6.00/21	1930-31 Buick (6-50) (8-	
1928-29   Periess 6-60 &   1933   Essex Terra-   1926-27   Periess 6-72   1928 to 33   Franklin 6   1934   Cadillac V-12   Cadillac V-16   1935   Essex Terra-   1936 to 31   Lasaile 8   1930 to	8) (8-68)	1831-39 Dodde Do-p		80) (8-90)	
1929   1924   1935   1934   1935   1935   1935   1936   1935   1936   1937-38   1937-38   1937-38   1937-38   1937-38   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938	1928-29 Peerless 6-60 &	1933 Essex Terra-		1929 to 33 Franklin 6	
1931   Studebaker (6)   (Dict. 8)   1935   Essex Terra- plane 6   1935   40 Buick   1930 to 31 Nash 8   1931 and 10 Chrysler 108AF-   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27		1934 Essex Terra-		1930 to 32 Hupmobile	
1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926-27   1926	1931 Studebaker (6)		52) (Std. 8-50)	(8H) 8-U 8-225	1937 Cadillac 90
1926-27 Hupmobile (6) (6A) (1937-38 Ford 85 (1936 Chrysler 6 (1937-38 Chrysler Royal 1938 Nash Spec. 8 1936 Graham 90 (1927 Oldsmobile 6 (1927 Oldsmobile 6 (1937-38 Graham 85, 90, 1935 DeSoto 6-AS (1936 DeSoto AS-6 (1936 DeSoto	100000000000000000000000000000000000000	plane 6	1935 40 Buick	1930 to 31 Nash 8	
1928   1936   1937   1938   1938   1938   1938   1938   1938   1938   1938   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939   1939	1926-27 Hupmobile (6)	1937-38 Ford 85	1936 Chrysler 6	(8-33) (8-902)	1935-36 Lincoln V12
1926-27 Oakland 6 1927 Oldsmobile 6 1927 Oldsmobile 6 1928 to 31 Studebaker 1933-34 Packard 12 1935 Packard 12 1935 Packard 12 1935 Packard 12 1937-38 Graham 85, 90, 91, 95 1938 DeSoto AS-6 193	(6A)			1929 to 31 Pierce Arrow	1939 Lincoln V12
1937   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938   1938	1926-27 Oakland 6	1937-38 Graham 85, 90,	C-18	1928 to 31 Studebaker	
1926 to 28 Buick Std. 6- 1936 Hudson 6 1934 Graham 6 1938-39 Buick 60 1935 Pierce Arrow 1926-27 Nash Spec. 6 1936 Hupmobile 518 1936 Hupmobile 618 1939 Hupmobile 6 1937 Hudson 6-8 1936 1936-37 Buick 60 1935 Pierce Arrow 1935 Pierce Arrow 1935 Pierce Arrow 1935 Pierce Arrow 1936 1937 Hudson 6-8		1939 Graham Std. Sp.	1936 DeSoto AS-6		1933-34 Pierce-Arrow
115 1939 Hudson 6-81, 1934 Hudson 8-118 1938-39 Buick 60 1935 Pierce Arrow 1926-27 Dodge 4 1926-27 Nash Spec. 6 1935 Hupmobile 518 1936 Hudson 8 1933 DeSoto 6 1935 Pierce Arrow 1926-27 Studebaker Std. 6 1936 Hupmobile 618 1939 Hupmobile 6 1937 Hudson 6-8 1255			1934 Graham 6	1936-37 Buick 60	1240 (1248)
1926-27 Nash Spec. 6 1935 Hupmobile 518 1936 Hudson 8 1933 DeSoto 6 1936 Pierce Arrow 1926-27 Studebaker Std. 6 1936 Hupmobile 618 1939 Hupmobile 6 1937 Hudson 6-8 1255	115	1939 Hudson 6-81,	1934 Hudson 8-118	1938-39 Buick 60	
THE AT CHARGE THE COURT OF THE	1926-27 Nash Spec. 6	1935 Hupmobile 518	1936 Hudson 8	1933 DeSoto 6	1935 Pierce Arrow
	1926-27 Studebaker Std. 6	1 1936 Hupmobile 618		1 1337 Mudson 6-8	1200

## **AUTOMOBILE JACKS**

#### AMERICAN STANDARD HYDRAULIC



A high quality jack. Its sturdy construction, handsome appearance and superior features make it an outstanding value among low priced hydraulic car jacks.

Jack is perfectly balanced and easy to control—ram in center of base prevents tipping under load. Centered handle socket makes it easy to position jack under axle with regular pumping handle. Pin point release valve directly under handle socket. Body, base and angled pump one-piece leakproof certified malle-

able iron, with high-grade steel working parts. No joints to loosen and leak.

Will operate in any position—upright or horizontal—and is ideal for bending and pressing.

Tested to 50% over its rated capacity.

Attractively finished in bright red, with blue and gold labels. Complete with two-piece green enameled steel handle 30% inches long.

Capacity 1½ tons. Height, low 7 inches, total height 14½ inches. Hydraulic lift 5½ inches. Hand extension 2% inches.

OB SX107—Weight each 91/2 lbs...... Each \$3.95

One in a carton.

#### AJAX



These jacks are built to handle all of today's popular light weight cars. They operate smoothly, are dependable and will give lasting service. Designed especially for small cars with springs and axles set low down to the ground—will get under any car with a flat tire.

Pressed steel standard, with broad sied-type base that slides easily. High-grade steel double screw, with steel cut gears enclosed in standard. Hardened steel cap with tilting feature to insure positive grip. Folding type steel handle, 36 inches long.

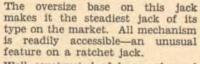
#### Capacity 1/4 Ton

Height down 5 inches, raise 7½ inches. Full height 12½ inches.

Fifteen in a case.

#### ERO

#### All Steel-Ratchet



Well constructed of heavy channel steel, with clean, sharp ratchet teeth. 14-inch steel handle. Black enameled finish.

Ample capacity for light weight cars. Height closed 8½ inches. Extended 14 inches.

OB 4004—Weight each 3% lbs......Each \$0.69

Twelve in a carton.

#### SPRINGFIELD

#### Bumper Type-Ball-Bearing

Will safely raise one wheel of any pleasure car on the market, without necessitating crawling under the car to jack it up by the axle. Has high and low grip—the low grip for large or oversize tires.

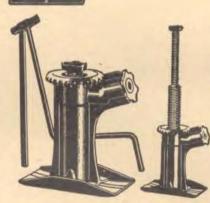
Malleable iron standard and double grip. Steel cut gears. High-grade steel screw % inch diameter. Complete with brace type round Bessemer steel handle. Green enameled finish.

For cars weighing up to 3,500 lbs. Minimum height 11 inches, height over all 29 inches. Rise of grip 18 inches.

OB 35-Weight each 9

1bs. \_\_\_\_\_Each \$2.39

Packing-bulk.



#### Ball-Bearing Double Screw

You can depend on quick, easy action from this strong, smooth operating jack.

Steel welded body and base with skid. %-inch steel inner screw, 1%-inch outer screw. Hardened steel cup-shaped cap which assures positive grip with axle or spring. Handle 40 inches long. Painted green.

Capacity One Ton

Minimum height 7¼ inches. Maximum height 16 inches.

OB S3—Weight each 8½ lbs...... Each \$2.69

One in a carton.

# A Good Name to Go Buy— KEEN KUTTER

#### AUTOMOBILE PUMPS

ROSE



Quality made for ease of operation and long wear.

The patent valve eliminates friction and draws a full supply of air below the plunger on each up stroke. On the down stroke the valve automatically closes and forces the air into tire—this method allows tire to be quickly inflated with very little effort.

Seamless 18 gauge steel cylinder, 18 inches long, 1¼-inch diameter, blue enameled finish. Heavy steel cap with air intake hole. Extra heavy steel base with ¼-inch round steel collapsible foot rest, which folds snugly against cylinder. cylinder.

Extra large black enameled wood handle, securely fastened to piston with bolt and steel plate. Steel piston rod, fu-inch in diameter. Specially tanned cup leather, with patent valve, 5-ply rubber tubing 24 inches long, with standard screw connection. Length over all 22 inches. OB 150—Weight each 3 lbs. Each \$1.95

One in a carton.





These pumps are made on the same machines and by the same expert workmen as the famous Rose pumps.

The easy, labor-saving stroke, perfect compression, durable trouble-free construction, heavy steel barrel, durable cupped piston leather, and large, comfortable wood handle combine to give the best value available for the money

Blue enameled steel barrel 18 inches long, 1½ inches in diameter, with steel cap and base. Collapsible steel wire foot rest. Black enameled wood handle with steel piston rod. Patented valve. Red rubber tubing, with standard screw connection. Length over all 21 inches.

OB D1850-Weight each 21/2

lbs. \_\_\_\_\_Each \$1.19

25 in a case

#### NOERA

An inexpensive, sturdy black enameled steel barrel pump which will give excellent service. All connections are made firm and leakproof. Black enameled steel barrel 1½x17 inches with steel cap. Strong stamped steel, black enameled foot base. Steel plunger rod with well-seasoned natural finish hardwood handle. A coil spring encircles the rod inside the barrel and serves as safety buffer between plunger and cap on the upstroke. Two-ply black rubber hose 18 inches long with standard tire valve connection.

Has check valve connection that is a sure check against compressed air escaping into the pump.

OB 2102-Weight each 11/2 lbs. Each \$0.49

25 in a carton. Weight per carton 37 lbs.

#### CUP LEATHERS



The size of a cup means the outside diameter of the cylinder for which the cup is intended—a 1-inch cup leather fits a cylinder which is 1-inch outside diameter.

Cit.

Nos.	Each	Inches	Per 100
OB CL78	3 for 5c	7/8	10 ozs.
OB CL100	3 for 5c	1	10 ozs.
OB CL114	2 for 5c	11/4	10 ozs.
OB CL112	2 for 5c	11/2	10 ozs.
OB CL134	2 for 5c	1%	1½ lbs.

Packing: 1%-inch-50 in a cardboard box. Others-100 in a cardboard box.

#### REPAIR PATCHES SIMMONS LACLEDE

All Rubber-For Repairing Inner Tubes

Will make a permanent repair and is guaranteed to withstand the greatest tire heat, air pressure and road shocks. A high grade all-rubber cold patch covered with linen on one side to protect uncured rubber. Will stretch with the tube.

> Outfit complete with all rubber patch, tube of cold patching cement, and metal buffer.

> Patch 3x12 inches, with 3/x4-inch tube of cement.

OB S412-Weight per dozen

3% Ibs. ..... Each \$0.15

One dozen in a carton.



AR

For repairing automobile and motor-cycle inner tubes, rubber boots, hose, hot water bottles, or anything made of rubber.

The patches are highest grade cured rubber, backed with semi-cured rub-ber. They make a permanent repair that will not creep, loosen or blow through.

Each outfit consists of one patch 3x5 inches, six patches 14x14 inches, and one 4x3-inch tube of cold patching cement in a round cardboard box with scraper top.

OB S10-Weight per dozen 2 lbs......Each \$0.10

Six dozen in a carton.

#### PRESSURE GAUGES IMPROVED SCHRADER-FLAT BAR For Balloon Tires



Schrader black finish flat bar indicator with easily read white figures and graduations. The flat bar flashes out, giving the correct pressure reading instantly—it is not necessary to turn the gauge to read pressure turn the gauge to read pressure.

There are no delicate, fragile parts and no complicated mechanism to get out of order. The positive, direct action affords an unfailing check-up on tire pressure.

Nickel-plated brass case. Improved ball foot permits use on all wheels with balloon tires. Length 2% inches, diameter ½-inch. Calibrated from 10 to 50 lbs. in 1-lb. units OB 5050—Weight each 3 ounces......Each \$1.39

One in a leather case. Ten in a cardboard box.

#### TIRE VALVE CORES

For Schrader Valves on Either High or Low Pressure Tires



They have spring cup at bottom, stabilizing guide at center of pin and bridge-type screw plug at top. These three points of support assure perfect core alignment and positive air-tight seal when in use.

OB 4000-Weight per 1,000

Per Box of Five \$0.25 11/2 lbs. ...

> Five cores in a slide-cover metal box. Fifty in a display carton.



#### TIRE VALVE CAPS

For Schrader valves.

Brass, nickel plated, with knurled edge and slot in top. Can be used to remove plunger core. Rubber washer inside. Length over all % inch.

Five in a metal box.

#### EMERGENCY CHAINS

For Pulling Passenger Cars Out of Ruts, Deep Snow or Mud

#### WEED-UNIT



Balanced construction insures chains remaining in proper position on tire.

Heavy galvanized side plates stand the gaff of hard wear.

Snug-fitting for greater efficiency.

Double-locking buckle, easy to operate, prevents unit from becoming loose in use.

Bar-reinforced cross chains give maximum traction, longer wear.

Brass-plated cross chains and side plates.

#### Weather-proofed web strap.

Can be used on either wood or wire wheels.

Straps on—quickly and easily put on or removed. Not for continued use.

Nos.	Each	Fits Tires, Size, Inches	Weight Each, Lbs.
OB PO	\$0.59	4, 4.40, 4.50, 4.75	1
OB P1	.69	5, 5.00, 5.25, 5.50	1%
OB P2	.79	6.00, 6.25, 6.50	11/2

Six units in a heavy cloth bag.



#### CLEVELAND

Constructed to fit firmly on tire and remain in good grip position.

Wrought steel side members are strong and durable.

Two cross chains are case-hardened and brass plated. Give good traction.

Strap 1 inch wide of black webbing.

Nos. OY CC21	Each \$0.25	Brass Plated Fits Tires, Size, Inches 4.00, 4.40, 4.50, 4.75	Weight, Each, Lbs.
OB CC22	.29	5.00, 5.25, 5.50	11/8
OB CC23	.35	6.00, 6.25, 6.50	11/4
		Packing-hulle	

#### SIMONIZ



"Makes Cars Stay Beautiful"

The scientifically perfect method of cleaning and protecting all fine

finishes.

 "Motorists wise" know it gives the hardest and most durable protection, as well as beauty, to the finish of a new car.

Never smears or spots.

- After Simonizing—mud splashes and dust or rain spots can be wiped off easily with a cloth without injury to the finish.
- Also protects household and office furniture from dust, scratches, stains, and blemishes.

In friction top tin cans.

OR 160-61/2-ounce (net weight) cans ..... Per Can \$0.44

Weight per carton 38 lbs. 24 cans in a carton.

#### SIMONIZ KLEENER



Safe, and Economical.

When it comes to restoring the luster to a dull car finish, Simoniz Kleener is the best dry cleaner for the job! It thoroughly and safely cleans all fine finishes—lacquer, enamel or varnish.

Quick to Use,

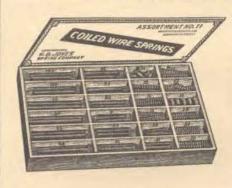
Use it, too, for furniture to protect it from stains and scratches.

In friction top tin cans.

OR 150-12-ounce (net weight) cans...... Per Can \$0.44

Weight per carton 23 lbs. 24 cans in a carton.

#### COIL SPRINGS



Extension and compression springs for use in garage or repair shop.
All high-grade spring wire, accurately coiled and looped, black japanned.

Extension springs range in size from 2% to 6 inches and compression springs from 1% to 3 inches.

Assortment of 180 Springs

OB 11-Weight per assortment 9 lbs......Each \$0.05

Each assortment in a substantial partitioned box.

#### AUTOMOBILE FANS



#### **KNAPP-MONARCH**

For automobiles, motorboats and airplanes—keeps frost from freezing on windshield in winter—and the efficient air flow makes it ideal for summer ventilation.

2-speed switch: Moderate air delivery for mist and frost, high speed for frost and stuffy interior. With flexible, safe rubber blades—no rattle, no cumbersome guard—no glare. Mounted on universal ball joint. Can be tilted at any angle. Convenient switch is large enough to handle while wearing gloves. Non-glare brown enamel finish.

Equipped with necessary attachments to install on steering wheel post. Easily installed—has 40-inch rubber lead cord, ample for attaching to electrical system of car. Uses minimum amount of current, approximately 2.8 amperes.

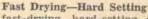
One in a carton Six in a case.

#### PERMATEX FORM-A-GASKET

This product has many desirable qualities and hundreds of uses. It is supersensitive to the slightest irregularities in the surfaces with which it comes in contact.

It spreads like soft butter, sets firmly into position and dries hard or pliable, depending on whether No. 1 or No. 2 is used.

When making assemblies with new or old gaskets or without solid gaskets, every pit, scratch or break in the surfaces is filled by the Form-A-Gasket that is applied as a thin film of leakproof protection.



No. 1 is fast-drying, hard-setting assembling paste used for making permanent assemblies, building up uneven or warped flange surfaces and for repair of broken parts.

It makes unions leakproof to gasoline, gasoline vapor, kerosene, hot or cold oil, grease and water. Such unions will also withstand maximum heat, greatest pressure and continual vibration. Adds strength and resistance wherever needed. ever needed.

Nos.	Each	Size Tube, Ounces	Dozen in Carton	Per Doz., Lbs.
OB 1/2T	\$0.35	2	1	5
OB 1/8T	1.00	8	3/2	15

Non-Hardening-Pliable

No. 2 is a non-hardening, pllable product for general assembly work where speed of applica-tion is desirable and disassembling is frequently done. All types of solid gaskets, from heaviest copper to thinnest cork, are preserved and may be used again in the same assemblies. It spreads with extreme ease and disassembles at slightest

		Size Tube,	Dozen	Per Doz.,
Nos.	Each	Ounces	Carton	Lbs.
OB 2/2T	\$0.35	2	1	5
OB 2/8T	1.00	8	3/2	15

#### VALVE GRINDING COMPOUND



For grinding valves, lapping cylinders, fitting piston rings, and other motor parts

The high-grade abrasive is compounded with a special hard petroleum which keeps it suspended in me-chanical mixture under 250° Fahrenheit.



In two-compartment friction top tin cans-one-half grade D (roughing) and one-half grade A (finish and polishing) in a can.

Nos.	Each	Cans, Ounces	Weight per Dozen, Lbs.
OB 20	\$0.35	2	11/2
OB 40	.55	4	3
	Twelve in a	carton.	

#### HAND SOAP



#### KLEX Lathers in any water, in any temperature

A high-grade soap made with cocoanut oil and pumice stone. Especially recommended for mechanics, auto-ists, printers, painters and office workers

One cake in a carton. One-half gross in a fibre box.

**GARAGE MEASURES** 



SIMMONS KANT LEAK

Heavy gauge steel, double seamed and soldered, extra seamed and soldered, extra heavily galvanized, with nar-row red stripe at top, bottom and funnel.

Extra large funnel with fine copper gauze strainer in open-ing soldered to body.

Nine-gauge iron wire ball with black enameled ball wood. Heavy steel ears riv-eted on. Flat steel loop handle wear battom rivered on near bottom, riveted on.

capacity 5 Gallons. Height of body 13½ inches, diameter 11 inches, height over all 17¾ inches, length over all 18½ inches.

OB S925—Weight per dozen 65 lbs..... Each \$1.75

One-quarter dozen in a crate.

#### TRACTOR FILLING CANS RADIATOR



Heavy galvanized beaded sheet steel body, seamed and soldered. Large spout with brass strainer. Flat steel loop handle at back, riveted on. Heavy steel wire ball with black enameled wood grip. Red painted stripe top and bottom.

Capacity 5 Gallons, Height 14 inches, diameter 11 inches, height over all 16 inches.

OB T5-Weight per dozen 64 lbs......Each \$1.00

> One-quarter dozen in a carton.

#### OFFSET TRACTOR FUNNELS



DELPHOS-Non-Swirl The non-swirling feature consists of a galvanized iron fin in body of funnel. This fin makes the liquid run through faster without forming a swirling cone that usually slows down the liquid and makes it run over the top.

Extra heavy galvanized iron, double seamed and soldered. Rolled top rim. Brass strainer cloth in tube. Equipped with ring to hold chamois in position. Wire ring on side for hanging. Red enameled stripe around top.

Side Tube

Capacity 2 gallons. Diameter 12 inches. OB 900-Weight per dozen 40 lbs. Each \$1.19

One-quarter dozen in a carton.

#### FUNNELS



NESCO Automobile

Extra heavily galvanized sheet steel, seamed and soldered, with brass wire strainer. Rolled top rim. Extra hoop to fasten chamois

Capacity 2 gallons. Diameter 121/4 inches. OB 2G-Weight per dozen 40

lbs. ..... Each \$1.00



Tractor

28-gauge galvanized sheet steel, seamed and soldered. Heavy wire rim crimped at top. With supporting skirt. Brass wire strainer. Capacity 5 quarts. Diameter 10 inches. Height over all 9 inches.

OB 50-Weight per dozen 32 lbs.....Each \$0.89

One-half dozen in a crate.

#### GALENA MOTOR OIL

A super quality 100% pure Pennsylvania oil — More efficiency, economy and safety for your car.

Galena Motor Oil will lubricate under every condition. It will not thin out or break down under the heat of the modern high-speed engine, nor get thick and gummy when cold.

- Easy starting—Galena 100% Pennsylvania Oil, when cold, will not thicken as readily as oils made from any other crudes—and therefore motors lubricated with Galena Oil offer less resistance to the efforts of the starter and battery—start easier on cold mornings. Also, because of better adherence to metal, will give perfect lubrication from the instant of starting.
- Pep and Speed—The rich body of a Galena Oil seals piston rings better, increases compression and power, and forms a firm film on the cylinder walls and all moving parts that decreases friction drag.
- Safety—Galena Oil forms a protective film over all friction-surfaces of the motor, reduces wear, eliminates the possibility of oil failure permitting mechanical injury or breakdown, such as burned-out bearings and scored cylinder walls. Even high motor heat and the hardest driving will not cause this high-grade Pennsylvania Oil to thin out and fail.
- Economy—In addition to the economy of reduced wear and fewer repairs, Galena Oil will stand up longer between changes, and will go farther between added quarts, because its durable, firm body allows only a minimum amount to pass the piston rings, and the little that does pass will not burn and exhaust as easily as other oils, but remains on the cylinder walls to lubricate the piston on its upstroke.



One-quart can

Five-quart can

Five-gallon can





Grade	1-Qt. Cans	5-Qt. Cans	5-Gal. Cans
Extra light SAE10	OB G101Q	OB G105Q	OB G105G
Light SAE20 Medium SAE30	OB G201Q OB G301Q		OB G205G OB G305G
Medium heavy SAE40 Heavy SAE50	OB G401Q OB G501Q	OB G405Q	OB G405G
Special heavy SAE60	OB G601Q	OB G605Q	OB G605G
Super heavy SAE70		OB G705Q	OB G705G
Can, Quantity	Per	Cans in Case	Weight Per Case, Lbs.

\$ .30

1.50

5,00

#### GALENA MOTOR OIL DEALS



To assist our customers in their selection of an assortment of oil we present the following:

#### Deal Consists of:

144 one-quart cans

12 five-quart cans.

3 five-gallon cans. 1 wire display rack.

OB G1—Weight per deal, 637 lbs.

#### Deal Consists of:

96 one-quart cans. 8 five-quart cans. 2 five-gallon cans. 1 wire display rack.

OB G2-Weight per deal, 430 lbs.

NOTE: When ordering deals be sure to specify plainly grades or our numbers of oil wanted.

#### DISPLAY RACKS



For Galena Motor Oil This display rack serves as a complete, separate and attractive oil department in a very small space.

It accommodates nine 1quart cans, and three 5quart cans and makes an attention-compelling, salesgetting display.

Heavy wire rack, spot welded at intersections. Sturdy and almost topple-proof. Attractive metal signs in red, yellow and black.

Height 48% inches, width 30½ inches, depth 15% inches.

Cans of Oil Not Included.

OX GDR-Weight each, 16 lbs.

One in a carton.

#### PENN-ACTION MOTOR OIL

56

45

.50

#### 100% PURE PENNSYLVANIA



For All Speeds-All Weather

Self Cont'd.

The modern motor oil—Penn-Action was especially developed to protect modern motors from the punishment of today's highest driving speeds under all weather conditions!

Particularly in the lighter grades now being recommended by car manufacturers, Penn-Action has higher flash and fire tests, higher viscosity indices and greater stability than necessary for superior performance. A special processing of 100% Pennsylvania neutrals and bright stocks imparts these characteristics. Even in the lower S.A.E. grades, Penn-Action is economical—yields maximum mileage while lubricating perfectly and minimizing motor wear.

Grade		2-Gal. Cans	5-Gal. Cans
Extra Light	SAE10	OB PA102G	OB PA105G
	SAE20	OB PA202G	OB PA205G
	SAE30	OB PA302G	OB PA305G
Medium Heavy	SAE40	OB PA402G	OB PA405G
Cans.	Per	Cans in	Wt. Per
Gallons	Can	Case	Case, Lbs.
2	\$2.40	3	50
E	5.00	Self Contd	50

#### PENETRATING OIL



#### KEYSTONE

This oil has high wetting power against metals and their oxides and supplies the demand for an oil with fast penetrating qualities.

Guaranteed Non-Corrosive and Harmless to All Metal Surfaces

> In Attractively Lithographed Tin Cans

Grade No. 1—Has extremely fast penetration, is "Wetter" than No. 2 and takes hold of the inter-

stices of nut and bolt joints in a remarkably short space of time. It has no volatile materials and consequently greatly reduces the fire hazard. Because of this absence of volatile materials, it stays in place longer and saturates impacted surfaces thoroughly.

Because it has high penetrating qualities, No. 1 is less of a lubricant than No. 2. However, it provides ample lubrication to support its wetting properties.

OB P0/1P—One-pint cans—with handy spout enclosed in can. Weight per dozen cans 16½ 1bs.——Per Can \$0.69

OB P0/1G—One-gallon cans. Weight per can 8 lbs. Per Can 3.00

Grade No. 2—Has more lubricating and less penetrating qualities than No. 1, but even as a penetrator renders outstanding service as a break-in oil. As such, it is superior to most oils.

Also aids in preventing sticking valves and has a tendency to soften carbon deposits. Makes a very efficient spray for springs and chassis and eliminates all body and door squeaks.

OB P0/2P—One-pint cans—with handy spout enclosed in can. Weight per dozen cans 16½ lbs.——Per Can \$0.69

OB P0/2G—One-gallon cans. Weight per can 8 lbs. Per Can 3.00

Packing-bulk.

#### LUBRICATING GRAPHITE



#### DIXON'S-PURE FLAKE

Dixon's Ticonderoga Flake Graphite has many valuable applications as a lubricant for cylinders, valves and bearings, either alone or mixed with oils and greases. It is also nearly indispensable to engineers and mechanics for coating gaskets and packing for pipe fittings.

#### COARSE FLAKE

Especially intended for heavy or loose bearings, cylinders of blowing engines, for flanges, gaskets or packings.

OB 1632-1-lb. cans. 36 cans in a case....Per Can \$0.69

#### FINE FLAKE

Especially intended for lubrication of engine cylinders, valve motions and valves, and generally for all close-fitting bearings.

Nos.	Per Can	Contents Cans, Lbs.	Cans In a Case
OB 2631	\$0.49	1/2	36
OB 2632	.69	1	36
OB 2633	2.95	5	10

ANTI-FREDIVAS



NOR'WAY

A New and Better Methanol Anti-Freeze . . . Complete Protection

Nor'way anti-freeze is in every way a "de luxe" product. Three quarts of it are equivalent in anti-freeze protection to four quarts of ordinary denatured alcohol.

It was developed in the Research Laboratories of Commercial Solvents Corporation—the first American company to market synthetic methanol. It does not contain denatured alcohol or water, is practically odorless and does not evaporate one-half as quickly as ordinary denatured alcohol.

A special anti-rust ingredient keeps cooling system clean and free from clogging.

Nos.	Per Gallon	Contents and Style of Container	Quantity in Case	Wt. Per Case, Lbs.
OB NWQ	\$0.95	1-Qt. Cans	24 Cans	50
OB NWIR	.85	1-Gal. Round Can	6 Cans	50
OB NW5	.85	5-Gal, Drums	**********	40
OB NW54	.77	54-Gal, Drums		417

Proportion of Water and Nor'way to Protect Cooling System

#### Directions:

Ascertain capacity of cooling system, including hot water heater. Empty radiator and pour in quantity of Nor'way specified for temperature to which protection is desired. Fill with water to within 3 inches of top of radiator. To replenish, add equal parts of Nor'way and water. The following figures are based on a 10-quart cooling system. Other systems can be figured in proportion.

Q	arts o	r Per	Cent
8%	11/4	87.5	12.5
8	2	80	20.
73/4	23/4	72.5	27.5
61/2	31/2	65	35
6	4	60	40
51/4	41/2	55	45
	8¾ 8 7¼ 6½ 6	Quarts 0 8% 1¼ 8 2 7¼ 2% 6½ 3½ 6 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Complete proportion chart on can.



# ALUMINUMWARE

Does the Work Well and Costs So Little



# General Electric Lamp Accessories

#### THREE-LAMP METAL KIT



Always carry "spares" for emergency replacements-avoid the inconvenience and danger of unexpected light failure in out-of-the-way places far from service.

#### BLACKENING DETECTOR



Replace failing bulbs before they burn out. Merely place bulb in detector-special textolite material backing immediately shows if bulb is beginning to lose its lighting power. Made of textolite ... Each \$0.10

#### ADJUSTMENT SCREEN

ATHERAL IN ELECTRIC	HEADSON AND THEN THE THE
fetitidateleteta)	and martin
***************************************	
160 T.C	in a state of the

Insures clearest and safest lighting of the road. Chart easily and quickly permits correct adjustment for most efficient, non-glare lighting.

Size 8x4 feet. Adjustable vertical and horizontal markers. (Unmounted.) Weight each 1/4 lb...Each \$0.85

#### BATTERY TYPE LAMP TESTER



Quickly and surely tests all types of auto lamps. Without Cells-Weight

each 1/2 lb..... Each \$0.20

#### WIRE LAMP RACK



Keeps lamps ready at hand for faster customer servicealso very efficient as a "reminder" display.

Holds 10 boxes of bulbs. For larger stocks use two racks. Weight each 11/2 lbs..... Each \$0.25

For Penetrating Warmth, USE A SIMMONS Circulator Heater



# General Electric Mazda Automobile Lamps



Use Better Lamps for Greater Safety!

There Is a Difference Between Auto Lamps - A Difference That May Prevent an Accident GENERAL ELECTRIC MAZDA LAMPS ARE DEPENDABLE



0	0
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Con	tact

1111	
(B/8):- 1	
Double	
Contact	

Base has two projecting studs which engage in right angle slots in receptacle or socket equipped with a spring which presses against the base of bulb holding it firmly.



G-414 Bulb Min. Bay, Base



Mazda-61 Mazda-63 Mazda-81 G-6 Bulb Bay. Cand. Base



Mazda-87 Mazda-93 S-8 Bulb Bay, Cand, Base



- Company
Madza-1000
Mazda-1110
Mazda-1116
RP-11 Bulb
Bay, Cand. Bas



Mazda-2331 (Prefocused), RP-11 Bulb Base has metal collar with graduated slots so that bulb can be se-cured in correct focused position by a slight turn to the right.

6-8 VOLT AUTOMOBILE SERVICE

Mazda Lamp Number 51 <sup>2</sup> 55	Std. List and Retail Price, Each \$0.07	Candle- power 1 0.4 Amps.	Bulb G-81½ G-4½	Base Min. Bay, Min. Bay,
612)	.20	2	G-6	Bay, Cand.
62 <sup>2</sup> }	.07	3	G-6	Bay, Cand,
64	.12	3	G-6	Bay, Cand.
753	.16	3	G-6	Bay, Cand,
81	.10	6	G-6	Bay. Cand.
82	.13	6	G-6	Bay, Cand.
87	.15	15	S-8	Bay. Cand.
88	.20	15	S-8	Bay, Cand.
1000	.19	32-32	RP-11	Bay. Cand.
1104	.60	32-21	RP-11	D. C. Prefoc.
1105S4	.45	50	RP-11	Bay. Cand.
1110	.19	21-21	RP-11	Bay. Cand.
11145	.45	21-21	RP-11	Bay. Cand.
1116	.19	32-21	RP-11	Bay, Cand.
11185	.45	32-21	RP-11	Bay. Cand.
1129	.19	21	S-8	Bay. Cand.
1130	.23	21	S-8	Bay. Cand.
1133	.19	32	RP-11	Bay. Cand.
11546	.25	21-3	S-8	Index Bay. Can
1158	.19	21-3	S-8	Bay. Cand.
11705	.45	21-6	S-8	Bay. Cand.
11725	.45	32-6	RP-11	Bay. Cand.
1183	.35	50	RP-11	Bay. Cand.
1184	.40	50	RP-11	Bay, Cand.
1186	.40	50-21	RP-11	Bay. Cand.
1188	.40	50-32	RP-11	Bay. Cand.
13234	.27	32	RP-11	S. C. Prefoc.
15034	.50	50	RP-11	S. C. Prefoc.
2320	.30	32-21	RP-11	D. C. Prefoc.
2330	.30	32-32	RP-11	D. C. Prefoc.
23311	.30	32-32	RP-11	D. C. Prefoc.
2520	.50	50-21	RP-11	D. C. Prefoc.
2530	.50	50-32	RP-11	D. C. Prefoc.
25317	.60	50-32	RP-11	D. C. Prefoc.
30018 30039	.75	21-21-32	S-12	3-Pin Bay.
	.75	32-32-32	S-12	3-Pin Bay.

Notes: 1—indicator. 2—3-4 volts. 3—7.5 volts for bus, taxi service. 4—for fog lights, spotlights. 5—for Fords prior to 1929. 6—not interchangeable with 1158. 7—bar. filament. 8—1932-1933 Cadillac. 9—1933-1934 Packard.

		VOLT AUTOM	OBILE SERV	ICE
Mazda	Std. List			
Lamp	and Retail	Candle-		
Number	Price, Each	power	Bulb	Base
57	\$0.18	0.2 Amps.	G-41/2	Min. Bay.
67	.15	3	G-6	Bay. Cand.
68	.15	3	G-6	Bay, Cand.
89	.21	6	G-6	Bay. Cand.
90	.21	6	G-6	Bay, Cand,
93	.25	15	S-8	Bay, Cand.
94	.25	15	S-8	Bay. Cand.
1120	.45	21-21	RP-11	Bay, Cand.
1122	.45	32-21	RP-11	Bay. Cand.
1124	.45	32-32	RP-11	Bay. Cand.
1141	.30	21	S-8	Bay. Cand.
1142	.30	21	S-8	Bay, Cand.
1143	.50	32	RP-11	Bay. Cand.
1144	.50	32	RP-11	Bay, Cand.
1176	.55	21-6	S-8	Bay. Cand.
1195	.60	50	RP-11	Bay, Cand.
1196	.60	50	RP-11	Bay, Cand.
1327	.60	32	RP-11	S. C. Prefoc.
2326	.55	32-21	RP-11	D. C. Prefoc.
2336	.55	32-32	RP-11	D. C. Prefoc.
2526	.70	50-21	RP-11	D. C. Prefoc.
	Average weig	ght per 100, 3 lbs	. Ten in a u	

Note to dealer: The symbols "OB" apply to all items listed above.

### AUTOMOBILE BULB INFORMATION

The Following Information Shows Automobile Bulbs Required for the Various Passenger Cars:

	the ro	HOWH	ig Into	rmation	one	ws Au	tomonne	buibs Required	ior the	e vari	ous Pa	issenger	Cars:		
Car and Model Year	Head-		d er	1st No. Inst., 1 2nd No. Indic'r F	or	Stop		Car and Model, Year	Head-		er	1st No. Inst., 2nd No. Indic'r	or	Stop	Lie.
A Car				ANTAM		Digital	A MANC	Loni	ngne	Sitte	CORE		ranei	Signa	rate
1938-1939	2330	55	1158	63	64	1158		1930-31	1000	63	63	63	87a	87	**
								1936 1937	2331 2331	63 55	1158 1158	63-55 63-55	81 81	1158 1158	
1000	4400		UBUR		0.4	07		100000							
1930 1931	1133	63	63 1158	63	81	87 1158	11				E SOT		227		
1932-33 1934 (M-652)		63	1158	63	81	1158	***	1930-31 1932-33	1000	63 63	1158 1158	63 63	64d 87	1158 1158	**
and Y) 1934 (Others)		63 63	1158 63m	63 63	81 81	1158 1158	**	1934 1935	2320 2320	63 55	1158 1158	63 63-55	87 87	1158 1158	**
1935 (M653) 1935 (M851)	1000 2320	63	1158 1158	63-63	81 81	1158	**	1936 (Stndrd. 1936 (Others)	2331	55 55	1158 63	55 55	87 87	1158	**
1936 1937	2320 2331	63 55	1158 1158	63 63-55	81 81	1158 1158	63	1937-38 1939	2331 2331	55 55	1158 1158	55s 55s-51	87 87	1158 1158	63 63
			AUSTIN	V						1	DODG	E			
1930-33 1934-36, Inc.	1158 1158	**	63 63	63	**	63		1930 (Std.), 6	1000	co.	1150	-00	01.1	****	
1001-00, 1110.	1100				100	00		and 8 1931 1932-33	1000 1000e		1158 1158	63	81d 87	1158	1.4
1000 00	1000		BUICK		01	077		1934 1935	2320 2320	63 55	1158 1158	63 55	87 87	1158 1158	11.1
1930-32 1933 1934-35 (Ex.	1000	63	63 63	63 63	81	87 87	::	1936-38 1939	2331 2331	55 55	1158 1158	55s-55 55s-51	87 87	1158 1158	63
M40) 1935 (M40)	2330 2320	63 63	63	63 63	81 81	87 81		1		DUE	SENB	ERG			
1936 1937-38-39	2320 2320	55 55	63 1154	51-51 55-51	81 81	87 1154	63	1934-37	1000	63	63	63	64	1129	**
		C	ADILLA	VC.						D	URAN	T			
1930-31	1000	63	63	63	63	87	25	1930-32, Incl.	1000	63	1158	63	63	1158	
1932-33 1934-35	3001 2330	63	63 63	63 63-50	87b 81	87 87	**			3	ESSEX				
1936 1937-38	2330 2330r	55 55p	63 1154	51-51 51-51	87 87	87 1154	63	1930-31	1000	63f	63	63	63	87	**
1939	2330	55	1154	55-51	87	1154	63	1932	1000	63	63	63-64	88	87	**
		CH	EVROL	ET							FORD	6			
1930-33 1934 (Master)	1000 2320	63	63 63	63	63 81	87c 63	44 V	1930-32 1933-34	1000	63 63	63 1158	63 81	63 63	1129 1158	**
1934 (Stndrd.) 1935		63 55	63 63	63 63	81	63 63	**	1935-36 1936	2330 2330	63 63	1158 1158	63-51 63	63 63	1158 1158	
1936 1937-38-39 (E	2320	55	63	51	81	63	**	1937-38-39	2330	55	1158	63-51	63	1158	63-55
cept Coach and Sedan										FR	ANKL	IN			
Models) 1939 (Coach	2320	55	63	55-51	81	63	**	1930-31 1932-33-34	1000	63 63	63 63	63 63	63 87	87 87	**
and Sedan)	2330	55	1154	55-51	81	1154	63			G	RAHA	M			
		CF	IRYSLI	ER			- 2	1930 (Stds.),		-					
1930-31 (Six) 1931 (Others)	1000 1000	63 63	1158 63	63 63	87 87	1158 87		6 and 8 1930 (Others)	1000	63	1158	63	81	1158	
1932 (M-Cl) 1932 (Others)	1000	63 63	1158 63	63 63	87 87	1158 87	**	'31 1932	1000 1116	63 63	63 63	63 63	81 63	87 87	11
1933 (Imp'l 8) (Cust8)	1116	63	63	63	87	87		1931-33 (Prosperity Six)		63	1158	63	63	1158	
1934 (Six) 1934 (Others)	1116 2320	63 63	1158 1158	63 63	87 87	1158 1158		1933 (Others) 1934	1000 2320	63 63	1158 1158	63 63	63 63	1158 1158	12
1935 1936-37 (Mod.	2320	55	1158	63-55	87	1158		1935 1936	2320 2320	55 55	63 63	63	64 87	87 87	4
C17) 1937 (Others)		55	63	55s	87	87	63	1937 1938-39	2330 2330	55p 55	63 1158	55 51-55	63 63	87 1158	63 63
38 1939	2331 2331	55 55	1158 1158	55s 55s	87 87	1158 1158	63 63		181.00						
		CON	TINTEN	TAT				1930	1000	63	IAM P	63	81	87	
1934	1000	63	TINEN 1158	63	63	1158		1930 (Stand.) 6 and 8	1000		1158	63	81	1158	**
100 March 100 Ma		1000		-00	00	1100	10.0	o and o	1000	00 +	1100	UO	OL	1100	14.4

a—1129 on 1930 models. b—81 on 1932 models. c—63 on 1933 models. d—87 on 1930-31 models. e—1116 on 1933 models. f—81 on 1931 models. g—81 on 1930-31 models. h—63 on 1931-32 models. i—1158 on model 54. k—81 on some 1935 models. l—87 on 1930 models. m—1129 on combination back and stop. n—2330 on early 1935 Dictator models. p—63 on fender lamps, q—55 on models 115 and 120. r—2530 used in right headlamp where state laws permit 50 cp. s—51 in ignition key lamp. t—81 on M621-N. w—1323 in auxiliary head.

Note: 2330 and 2320 are the new prefocus headlights.

### AUTOMOBILE BULB INFORMATION

The Following Information Shows Automobile Bulbs Required for the Various Passenger Cars:

	lead- light	Side	r	1st No. Inst., E 2nd No. Indic'r P	or	Stop Signal		1			Side	Rear I	1st No. Inst., I 2nd No. Indic'r P	or anel	Stop Signal	
1930-31 1932 1933 1934-35 Six	1000 1000 1000 2320 2320	63f 63 63 63 55	63 63 1158 1158 1158	63 63-64 63-64 63-64 63-64	81 88 87 87 87	87 87 1158 1158 1158			1938 (6, 120) 1939 (6, 120, Super 8) 1939 (12)	2330 2330	55 55	1158 63	55-51 55-51	81 81	1158 87	63 63
1935 Eight 1936 1937-38-39	2331 2331	55 55p	1158 1158	51-55 55-51	87 87	1158 1158	63		1930-32, Inc.	1000	63	63 CE AR	63	81h	87	-
1930-31	1000	63	PMOB 63	63	63g	87			1930 1931-32-33	1000	81	81	63	87	1129	**
1932-33-34 (M 421-422-426)	-	63	63	63	81	87			1931-32-33 1934-35 1936-37-38	1000 1000 2330w	81 81 55	81 81 81	63 63-51 55-64	81 81 81	1129 63m 1129	**
1934 (Others) 1935	2320	63	63	63k	81	87			****			YMOU'				
1936 (618G) 1936 (621N)-37 1938-39	2320 2320 2320	63 63	63 63 1158	63-51 81 55-51	81 81 81	87 87 1158	63		1930-31 1932-33 1934	1000 1000 1116	63 63	1158 1158 1158	63 63 63	64d 87 87	1158 1158 1158	
1004	****		FAYET		00	1100			1935 1936	2320 2331	55 55	1158 1158	63 55	87 87	1158 1158	5.5
1934 1935 1936	1116 2320 2331	63 55 55	1158 1158 1158	63 63 63	63 63 81	1158 1158 1158	1.		1937 1938	2331 2331	55 55	1158 1158	51-51 55-51	87 87	1158 1158	63 63
1937-38-39	2331	55	1158	55-55	81	1158	63		1939	2331	55 P	1158 ONTIA	55-51s	87	1158	63
1930-31	1000	63	A SALI 63	63	63	1129f			1930-31	1000	63	63	63	63g	87	
1932 1933	1000	63 63	63 63	63 63	81 87	87 87	**		1932 1933	1116 1116	63 63	63 63	63 63	81 81	87 63	100
1934-35	2330	63	63	50-63	81	87			1934	2320	63	63	63	81	63	9.1
1936 1937-38	2330 2330r	55 55	63 1154	51-51 51-51	87 87	87 1154	63		1935 1936	2320 2320	63 55	63	51-51 51-51	81 81	87 87	2
1939	2330	55p	1154 INCOL	55-51	87	1154	63		1937-38 1939	2320 2320	55 55	63 1154	55-51 55-51	81 81	87 1154	63
1930-31-33 1932	1000	63 63	63 63	63 63	81 81	1129 87	**	-1	1930 (M-15,			REO				
1934	1116	63	63	63	81	87	97		20)	1000	63	63	63	64	87	(6)
1935 1936-39	2320 2330	55 55	63 1158	81 81-55-51	81 81	87 1158	**		1931 (Model N-35) '32							
1550-05				PHYR	01	1100	**		(M-31, 35, 52	2)						
1936-37 1938-39	2330 2330	55 55	1158 1158	63-51 55-51	81 81	1158 1158	81	-	'33 (Model N-33)	1116	63	63	63	63	87	
1300-03	2000		ARMO		01	1100	01		1930-33 (Others)	1000	63	63	63	63	87	
1931 (Model 70)	1000	63	1158	63	63	1158			1934-35	1116	63	63	63	63	87	23
1931 (Model							**	17	1936	2320	63 B	63 OCKN	63 F	63	87	7.7
88) 1931 (Sixteen)	1000	63 63	63 63	63 87	63	87 87	**	-	1932-33	1000	63	1158	63	81	1158	94
1933	1000	63	63	81	81	87						DEBAI		4.40		
1939	2330	55	ERCUI 1158	55-87	63	1158	63		1930-32 1933	1000	63 63	631	63 63	81 63	87i 87	**
1000 00		00	NASH				10000		1934-35	1000n	63	1158	63-55	81	1158	7.7
1930-33 1934	1000	63 63	63 1158	63	81 63	87 1158	**	1	1936 1937	2331 2331	55 55	1158 1158	55-55 55-55	81 63	1158 1158	10
1935 1936	2320 2331	55 55	1158 1158	63 63	63 81	1158			1938 1939	2331 2331	55 55	1158 1158	55-55 51-55	87 87	1158 1158	63
1937-38-39	2331	55	1158	55-55	81	1158 1158	63		1000	2001		STUTZ		0.1	1100	00
1930-31	1000	63	63	63	63g	87			1930-31 1932-34	1133	63	63	63	87a	87a	94
1930-32	1000	OLI 63	SMOE 63	63	81h	87			(M-LAA) 1933 (Others)	1133 1158	63 81	63 1158	63 63	81 81	87 1158	
1933 1934	1116 2320	63 63	63 63	63 63	81 81	87 87	4.4		1934 (Pkge, Car)	87	82	63	63	81	63	
1935	2320	55	63	51-51	81	87	153		2007	2.		RAPL		44	uu.	14.4
1936 (Six) 1936 (Eight)	2320 2330	55 63	63	63-51 63-51	81 81	87 87	11		1933	1000	63	1158	63-64	87	1158	18.0
1937-38 1939	2320 2320	55 55	1154 1154	55-51	81	1154	63		1934 1935	2320 2320	63 55	1158 1158	63-64 63-64	87 87	1158 1158	**
1000	2020		CKAR	55-51 LD	81	1154	63		1936 1937-38	2331 2331	55 55p	1158 1158	51-51 63-51	87 87	1158 1158	63
1930-32	1000	63	63	63	81	1129			1939	2331	55p	1158	55-51	87	1158	63
1933-34 1935	3003 2330	63 55	63 63	63 63	81 81	87 87	**		1930-36, Incl.	1000	63 V	VILLY: 1158	63	63	1150	
1936 (120B) 1936 (Others)	2330	55	63	63	81	87	**		1937-38	2320	55	1158	63	63	1158 1158	**
37 1938 (Super 8,	2330	55	63	63q-51	81	87	**		1939	2320	55 WILE:	1158 VS-KN	51-63 TCHT	63	1158	63
1938 (Super 8,	2330	55	63	55-55	81	87	63	1	1931-32	1000	63	1158	63	63	1158	**

a—1129 on 1930 models, b—81 on 1932 models, c—63 on 1933 models, d—87 on 1930-31 models, e—1116 on 1933 models, f—81 on 1931 models, g—81 on 1930-31 models, h—63 on 1931-32 models, i—1158 on model 54, k—81 on some 1935 models, l—87 on 1930 models, m—1129 on combination back and stop, n—2330 on early 1935 Dictator models, p—63 on fender lamps, q—55 on models 115 and 120, r—2530 used in right headlamp where state laws permit 50 cp. s—51 in ignition key lamp, t—81 on M621-N, w—1323 in auxiliary head.

Note: 2330 and 2320 are the new prefocus headlights.

# SPARK PLUG INFORMATION

The following shows the number of Edison Spark Plugs required on various passenger and commercial cars.

		The state of the s	ACCOUNTED COME CARC
PASSENGER CARS	PASSENGER CARS Name Plug No.	PASSENGER CARS Name Plug No.	*COMMERCIAL CARS Name Plug No.
The state of the s	GRAHAM	PACKARD	BROCKWAY (Trucks)
AUBURN S /12	8-Cyl. Mod. 36-37S/13	1028 HC Turbo HdsS/2	1931, '32 other than
1932 to '34 "12"S/13 1934, '35 "6" and "8"S/25	1935, '34 Super-	1930 HC Turbo HdsS/13 1927 to '31 Reg. HdsS/2	Model 90S/13, S/15 1935, '36 ModelsS/15
1936 Model 654, 852S/25	1935, '34 Super- chargers		
AUSTIN	1938 Std. Models	1932 Models 1933 to '36, IncS/25 1937, '38, '39 Models S/25	CHEVROLET
1000	1937 Model 85	(10 MM)	To 1928, InclS/2 1929 to '31, Incl.S/12, S/13
To 1938, InclS/13	1937 Models, 95, 110, S/25	PEERLESS	1932
BUICK	1038 Models	1020 20 Mod 81 S/13	1933 to '36, InclS/23 1933-37 Models, S/25, S/26
1925 to '28, InclS/3 1929, '30S/12	1939 ModelsS/25	1930 to '33	1000 01 1120000000000000000000000000000
1938, '39 ModelsS/23	HUDSON To 1928, InclS/12	PIERCE-ARROW	CHICAGO
CADILLAC	1020 to 31 Incl	1932, '33 12-Cyl. 1934, '35, '36, '37 Models. S/23	17A, 18A, 20AS/13, S/15
1020 130	1932, '33 8-CylS/15 1933 Super 6S/23	1938 ModelsS/25	COLEMAN
1931 to '35, InclS/15 1936, '37 V8S/25	1933 Super 6S/25	DIVMOUTH	E52 to 55, Incl. S/13, S/15
1938 Models	1934, '35 ModelsS/25 1936, '37 ModelsS/26	1930, '31	202 10 00, 1101110, 10, 10, 10, 10, 10, 10,
CHEVROLET	1938, 39 Models	1933 to '36, InclS/23	CORBITT
To 1928 Incl	HUPMOBILE	1937, '38 ModelsS/26 1939 De LuxeS/25	1929 to '34 using Cont.
To 1928, Incl	1927, '28, 6 and Ser. A.S/2 1928, 8-Cyl	1939 RoadkingS/26	16R, 18R, 20R, 21R, 22R, 600S/15
1932	1929 to '36 Incl5/15	PONTIAC	Lyc. WFC, GGCS/23 Lyc. GFC, AEFS/15
1933, '34 ModelsS/23 1935, '36 ModelsS/25	1938, '39 ModelsS/15	To 1929, Incl	Wank, 6MZ-6BK
1937 to '39, InclS/25 1938 ModelsS/25	LAFAYETTE C/13	1930, '31	6MK, 6BL
	1936	1934 to '38 ModelsS/25	12B (1937) Lyc. WFCS/25, S/26
CHRYSLER	1938, '39 ModelsS/15	REO	
1929 "66", "70"; 1930 "66"; 1931 "8"	LA SALLE	1928 to '34, InclS/13	DAY ELDER
1930, 31, Ser. 70, 77,	1000 to 100 Tool S/13	1935, '36 H. C. Heads.S/18 1935, '36 Std. HeadsS/15	1930 to '32 Model 60S/13, S/15
66, and Imp. 8S/12 1931 DeLuxe 8S/23	1934	ROOSEVELT	Other models 1930 to
1099 to 36 Incl	1934	Double Dome Heads. S/13	'32S/15
1937 Models S/26 1938, '39 Models S/25	LINCOLN	STUDEBAKER	DIAMOND T
1938 RoyalS/26	1928 to '32 InclS/2	1927, '28, Com. and Pres	1930 Model T200,
CONTINENTALS/13	1934 to '36, InclS/15 1936 ZephyrS/23	Pres	215S/13, S/15
COPP To 1935 Incl S/13	1937, '38 V-12	1934 to '39, InclS/15	DODGE
1936, '37 ModelsS/25	1937, '38, '39 Zephyr. S/25	STUTZ	Models 124, 130S/2
DE SOTO	1939 V-12		H30, H43, H44 ModelsS/13, S/15
To 1931 InclS/13		1933 to '36, InclS/15	ModelsS/13, S/15 Models DA, DD, DP, TC, TAE, Ply. U. &
1932 to '35, InclS/23 1936 AirstreamS/25	1927 to '29 Thel	TERRAPLANE	CG ModelsS/13, S/15
1027 728 MODELS 0740	16-Cyl	1932, '33	Model CC/3S/15
1939 Models	1930 00 32, 19100. 00	1036 to '38 Models5/20	Model DPT, T SerS/13 1935-36 ModelsS/23
DEVAUXS/13	MERCURY S/25	WILLYS-KNIGHT	KC KCI, KH Series.
DODGE	NASH	1000 and 100 Models S/13	LC Own 201S/25 K32, K33, K34S/25
4 Cyl. ModelsS/2	Adv. and Spec. 6 to \$\frac{128}{28} \tag{28}	1933 Ser. 66S/2	K35, K36, K37, K38,
1929 to '31, InclS/13 1932 to '36, InclS/23			K45, K46, K47, K48, Own 241S/25, S/26
1037 '38 Models	11-30, 11-70		K50 K51 K52 K70.
1939 ModelsS/25	and '32 8-70, Late	*COMMERCIAL CARS Name Plug No.	K71, K72, Own 309.8/25
DURANT	9-70; 1929, 30, 31	Name Flug No.	LF Series, Own 217S/25
After 1929 and Model	and other 6-Cyl. S/12 ModelsS/12		LG, LH Series, S/25, S/26
670	1936 AMB, 6 and 6 0/40		Own 241S/25, S/26 K50V, K51V, K52V,
ESSEX	1936 "400"	Mods. 52, 56, 66, 4X, 6X, 8X, 10X. S/13, S/15	6 K60V, K61V, K62V, Own 309S/25
1929 to '31, InclS/1 1932 "6"S/1	5	AMERICAN LA FRANCE	MC (1937).
	OAKLAND 1930, '31S/1	1936 '37 Models 475	Own 218S/25, S/26
Model TS/2	9 All others		MD Series (1937), Own 218S/25, S/26
Wodel A	2	ATTERBURY	ME Series (1937),
1933 to '37 V-8S/1 1937, '38 V-8-85 (18	1928 to '31, InclS/1	H6, R6, C/6S/13, S/1	
MM Head)S/1		O ANTO CATE	Own 228S/25, S/26
1938 V-8-85 (14 MM	1937, F-37, L-37, 1938, 1938, '39, 6 and 8-Cyl.	1936 Mods. TT, UTT.	MG, MH Series (1937), Own 241S/25, S/26
1939 V=8=60, V=8=600/4	5 Models	6T, 6UT, CS/13, S/1	MT, MK Series (1937).
1937, '38 V-8-60S/2 1937, '38 V-8-85S/1	5 OVERLAND	AVAILABLE	Own 333S/25, S/26
	4-Cvl	9 1929, '30 Mods. S/13, S/1 1932 Models S/13, S/1	D ESUI DELLE
FRANKLIN 1928 to '34, InclS/1	6-CylS/ 1939 ModelsS/2	6 1933, '34S13, S/1	5 1932 to '34, Incl. S/13, S/15
1940 00 94, 11101-1-1-10/1		1 1 11 23 number of plug is f	or severe service.

\*Where two numbers (as S/13, S/15) are listed the 2d number of plug is for severe service.

# SPARK PLUG INFORMATION

The following shows the number of Edison Spark Plugs required on various commercial cars and tractors.

*COMMERCIAL CARS	*COMMERCIAL CARS	*COMMERCIAL CARS	*COMMERCIAL CARS
Name Plug No.	Name Plug No.	Name Plug No.	Name Plug No.
FAGEOL (Buses)	HAWKEYE	SCHACHT	WHITE (Trucks)-Cont'd.
Using Wauk, 6BKS/13, S/15	Model 40S/13, S/15	Wauk SRLS/13, S/15	712/SL, 706, 710, 810, (1936-'37), Own 13A, S/26
All others using	HENDRICKSON	SEAGRAVE	712NS, 718NS, 706M.
18MM HeadsS/15	Model 38D	Models 11, 66E-3, 66E-6,	812, 818 (1937), Own 16AS/26
FAGEOL (Trucks)	1933 to '35S/13, S/15	66E-7, 66E-8, 66E-9, 80E-9, 80E-10S/25, S/26	CHICAGO AND
18MM HeadsS/15	INDIANA	00E-9, 00E-105/25, 5/20	WICHITA
FARGO	1930 Models 120, 140, 170, 195, 220, 250,	SELDEN	Models 6-75S/13, S/15
1929 to '33, InclS/13, S/15	400	Models 39/C, 47/CB, 47/CD, 67, 67/C,	
Models TDP, T2, T4, T5, T6, T7, T8S/25	1930 Models 290, 640S/2	37/CRS/15	TRACTORS
T5, T6, T7, T8S/25	INTERNATIONAL	STANDARD	ALLIS CHALMERS
FEDERAL	Models H, F, L, K, 21, 31, 33, 41, 43, 61, 63,	Using Cont. 17E, 11R,	1937 Model WS/23
1929 Models 3/C/6;	94, 103, 54, 54/C, 74,	16R, 18R, 21RS/15	1936 Model WC., S/25, S/23
1930 T10, T10W, U6, 4/C/6S/13, S/15	74/C, 104/CS/3 1933, '34 Model	STERLING	Model U
1932 Models other	D1	Models FB50, 60, 70, 80,	BAKER
than X8S/13, S/15 1935 Models 30, 40, 50.S/15	1934, '35 C/1, C/30S/13, S/15	90, FC/90, 100, 120,	The state of the s
		F3, H5, FT3S/13, S/15 FD115, 140, 200S/15	BEEMAN (GARDEN) Jr. Model DS/12
FORD	KLEIBER	Models FB30, 35,	
Model T	Buda, EngS/12, S/13 Cont. EngsS/15	40S/13, S/15	BATES (STEEL MULE).S/3
1933 to '36, Incl., V-8.S/15	LA FRANCE REPUBLIC	STEWART	BOLENS
1937, V-8, 85S/15 1937 V-8, 60HPS/26	M-2, H3, H5, F3, E1,	1932, '33, '34 Models 29XS, 32X, 43X,	1937 Model 68S/25
	D2S/13, S/15	45X, 50X; 1934 18X.	1928 to 1933S/13
GMC (Trucks) 1927 & '28 BuickS/3	Model 35-4S/15	1935 46HS/15	CENTAUR
1929, '30, '31 BuickS/15	LE MOON	STUDEBAKER	1933 to '38S/15
1932 Pont & Own 200.S/23 1933 T18, T23 (Pont).S/23	Models later than 1928S/13, S/15	1933, '34 Models other	CLEVELAND
1934 & '35	MACCAR	than W841, 665, 883S/15	Model D
ModelsS/13, S/15 1936 Models (except	1933 Models other than	1935 Models other	EAGLE
T23H, T33, T33H,	60A & 66S/13,S/15	than W8S/13, S/15 1936S/15	1936 6AS/15
T18	MACK (Trucks)	Vancture of the second of the	
F16, F16H Olds 6S/25	AB6, BF, BG, BLS/15	SUPER TRUCK 1930, '31, '32 Models,	FORDSON Model T
(1937) T18, F18, T18H, F18H S/25, S/26	Jr. Mods. 1M, 10M, 20M, 30M, 90MS/13, S/15	50DS/13, S/15	Model T
(1937) T23, F23,	HC, 14M/M HeadsS/23	1933, '34 ModelsS/13, S/15	The state of the s
T23H, F23H, Own 257 S/25, S/26	MACK (Buses)	TWIN COACH	GLEANERS/2
(1937) T33, F33,	Model BGS/15	Models 235, 23R, 30, 30AS (With Alumi-	GRAHAM-BRADLEYS/13
T33H, F33H, Own 286S/25, S/26	MENOMINEE	num Heads) S/25, S/26	HART-PARR
(1937) T46, F46,	1933, '34 ModelsS/13, S/15	WALTER	thru '28
Own 331S/25, S/26 (1937) T46, F46,	MORELAND (Trucks)	1934, '35 FNS/15	
Own 400S/25, S/26	1931 Models EX7,	WARD LA FRANCE	I. H. C. 1933 F-20, 1933, '34, '35
(1937) T61, F61, T61H, F61H.	EX19, H7, 24S/15	Models using Wauk SRL	Farmall F20, F30, S/3
Own 400-450S/25, S/26	Bus Models 1934S/15	Cont. 12KS/13, S/15 Fire Truck Models	1931 Model 10-20, '29 Farmall
(1936) T18H, T18, Own 239S/25, S/26	Models 156B, 156W,	30F, 49FS/13, S/15	Mod. 31, 41, 51, 8/15 8/13
(1936) T23H,	166	Models using Lyc. Engine AECS/15	Ind. Mod. 20
Own 257 S/25, S/26 (1936) T33, T33H,	REHBERGER	1934 Wauk, MKS/15	LAWSON
Own 286S/25, S/26	Models B33, 40,	66F, 75F, 66F2, 50F2S/26	Models 20-35, 2-40S/3
1932-'33 using Pontiac and Own Eng. 200S/25	43S/13, S/15	WILLYS 77AS/13, S/15	Models RAU, RAY,
	REO (Trucks)	WHITE (Trucks)	LAS/15
GMC (Buses) Model W (after '29) &	Models DA, DC, DFS/13, S/15	9A, 11AS/15	OLIVER
365, 366, 525, 661,	1932 to '36, Incl. S/13, S/15	GK, GKAS/12, S/13 713 Bus, 712, 718,	70KD, Orch. 70 KDS/15
663, 709, 712, 714, 715S/13, S/15	(1937) Models 450,	Own 9AS/26	ROCK ISLAND
Model 788S/15	475S/25, S/26 Other 1937	684 Bus, Own 10AS/26 730-731, Own 10ABS/26	G2-15-25S/2 18-35S/2
1937 Models 716, 722, 728, 731, 738,	ModelsS/25, S/26	703, 704, 704K, 706 Bus, 709, 705, 805, 809	State of Control of the Control of t
739S/25, S/26	SANFORD	709, 705, 805, 809 (From 1936), Own	6AS/15
GRAMM	1930 ModelsS/12, S/13	11AS/26	
Models AX6, BX6, D,	1931, '32, '33, '34 Models 518R, 621R, 766,	684 Bus, 688, Own 12AS/26	UTILITOR (GARDEN) All except Models 500,
EX, 175, 177HyS/15	767S/13, S/15	730-731, Own 12ABS/26	501, 502 and 507S/13
C, EY, G, GY, WS/13 C/515, 516S/12	1933, '34 Models 303, 505S/15	706M Bus, 704K2, Own 12AS/26	WATERLOO BOYS/29

\*Where two numbers (as S/13, S/15) are listed the 2d number of plug is for severe service.

#### SPARK PLUGS



#### EDISON-GREEN LINE

#### For Easy Starting, Fast Running and Gasoline Saving!

These quality spark plugs are worthy of their great name-are manufactured to the highest standard in the industry! Inspection and testing are done on every individual part before assembly. Exceedingly high uniformity is assured by the use of precision-made parts.

Each finished spark plug is triple-testedand comes to you gas-tight, electrically efficient, with spark gap properly set, and with threads clean and correctly cut. The famous, exclusive Edison albanite

core—a stronger, better insulator—quicker heat dissipation—resistant to extreme

temperature changes.

#### EACH \$0.49

Nos.	Description	Champion	A. C.	Splitdorf
OB S2	% in. long, 1%-in. Hexagon	3X, 3	575, B, Z, Z1	8 or 19
OB S3	% in. long, %-in. Hexagon	6	C	7
OB S12	18 M/M Metric, 1-in. Hexagon	11	D12, G12, G13	17 or A9
OB S13	18 M/M Metric, 1-in. Hexagon	8, 10, C7	D9, D10, G9, G10, PR10	9
OB S15	18 M/M Metric, 1-in, Hexagon	7	G8, D8, O8	*******
OB S23	14 M/M Metric, ℍ-in. Hexagon	J5, J6, J5C	K9, S9, SL9	
OB S25	14 M/M Metric, ∰-in. Hexagon	J7, H10, J7S	K7, S7, SL7	
OB S26	14 M/M Metric, ℍ-in. Hexagon	J8, J9	K5	
OB S29	½-in. Standard, ∰-in. Hexagon	X, 31	1075, Q	1 or 3

One in a carton. Weight each 3 ounces.

#### STORAGE BATTERY TESTERS

#### HYDROMETERS

The sulphuric acid solution in storage batteries varies in density between full charge and complete discharge, and its variation is almost regular (fluid is lightest when battery is completely discharged). The measure of its density forms a reliable and best method of ascertaining the state of charge.

The gauge in the hydrometer indicates the specific gravity of the battery fluid when withdrawn from battery by pressure on bulb after pointed tube is inserted in opening of cell.

A fully charged battery usually has a specific gravity of 1275; a fully discharged battery 1150. Generally the following table can be safely followed:

80% of charge remains when gauge indicates 1250

60% of charge remains when gauge indicates 1225

40% of charge remains when gauge indicates 1200

20% of charge remains when gauge indicates 1175

Is practically exhausted when gauge indicates 1150

The above figures are only approximate.



High grade glass tube 7 inches long, %-inch in diameter. Red rubber bulb, red rubber stopper and nozzle in one plece, with flange to prevent breaking. Hydrometer is shot-weighted and graduated from 1100 to 1300 specific gravity. Length over all 13 inches.

OB 54—Weight each 8 ounces Each \$0.59

One in a cardboard box, with directions for using.

The Recollection of Quality Remains Long After the Price Is Forgotten.

E. C. Simmons

#### BATTERY CLIPS

UNIVERSAL

Strong channel construction throughout



A small test and battery clip for radio use and general testing purposes. Also handy for ignition test sets, soldering irons, electro-plating racks. Improved interlocking necks spring. Screw connection.

10-ampere canadity.

10-ampere capacity. Steel, cadmium plated. Length 2 inches. Jaw spread  $\frac{0}{10}$ -inch.

OB 48B—Weight per 100, 2 lbs.....Each \$0.05



A medium size clip for "A" radio storage battery. Teeth on one jaw and notch on the other so that it will stand erect on round battery post.

Interlocking necks prevent jaw offset. Patented leacoated copper shunt gives spring complete protection. Patented lead-25-ampere capacity. Steel, lead coated. Length 2% inches, jaw spread 1 inch.



A high grade, rugged, heavy duty clip. For battery service stations and for constant potential or series charg-ing. Recom-mended on port-

able and A. C. radio sets for ground connection. Teeth on one jaw, notch on the other, 33-lb. spring protected by lead-coated copper shunt. Screw connection. 50-ampere capacity. Steel, lead coated. Length 4 inches, jaw spread 14 inches.

Ten in a carton. (Five marked + for positive and five plain (no mark) for negative) Ten cartons in a standard package.

## SIMMONS LIGHTNIN' STORAGE BATTERIES

FOR QUICKER STARTING-PLENTY OF SURPLUS POWER-BUILT-IN LONG LIFE

When You Want the Best in Any Price Range, Choose SIMMONS Lightnin'!



6 VOLTS

Group No. 1—Size  $9\frac{\pi}{10}$  inches long,  $7\frac{\pi}{10}$  inches wide, 9 inches high.

		Guar.		Capac.	
		Period,	No.	Amps.,	Each,
Nos.	Each	Months	Plates	20 Min.	Lbs.
OB 13L*	\$ 4.85	9	39	98	40
OB 13M*	5.98	12	39	100	41
OB 15F*	6.50	12	45	112	42
OB 15S1	7.95	18	45	120	42
OB 15HP	9.75	24	45	140	47
OB 178K	10.00	24	51	160	48
Group No. 1F-	Size 10%	inches long	g. 736 in	nches wi	de. 8-1
inches high.	Care Told	221021013 2011	D) (1/19 3/		- AM
OB 17TW*	\$ 6.75	12	51	105	43
OB 17W	7.95	21	51	135	44
OB 19WP	9.75	24	57	140	48
Group No. 1L-	Size 19.	inches le	ong. 4	inches v	ride. 9
inches high.	D100 1010		our Di		
OB 15NF*	\$ 7.95	12	45	112	51
OB 17NS	11.95	18	51	136	52
OB 17NH	15.50	24	51	160	52
Group No. 2-	Size 10% i	nches lone	7.1. in	ches wie	ie 916
inches high.	DARIO 4078 A	TICTICO TOTAL	*10 ***		W. W. 70
OB 17F*	\$ 8.25	12	51	125	47
OB 1781	10.00	18	51	136	48
OB 17HP	12.50	24	51	160	54
200 7.1-77		in a carto	n.		

Can be recharged from any direct current generator, or from any alternating current generator when transformed through a rectifier, in from 8 to 24 hours. Recharging instructions furnished with each battery.

Note: When ordering give the following information, in addition to number of battery:

The name, year and model of car together with the type of battery specified in replacement list. If possible give the voltage and dimensions of battery box, i. e., length, width and height, voltage (the number of vents times two). In addition specify the type terminals wanted (rubber-covered wire, cone terminals, tapered post or straight post).

#### ADJUSTMENT PERIOD ON SIMMONS LIGHTNIN' BATTERIES

SIMMONS Lightnin' batteries are guaranteed by the manufacturer against faulty material and workmanship.

Within a period of 90 days from date of sale to the original user, any SIMMONS Lightnin' battery which fails to give satisfactory service and is found, upon examination by the manufacturer to be defective in materials, or workmanship, will be repaired or replaced (at the option of the manufacturer) without charge.

13L—High quality at low cost. These batteries are excellent and will easily outlast their guarantee under ordinary use. Composition case. High-grade plates in thick. Highest grade wood separators. Guarantee 9 months' adjustment basis.

13M, 15F, 15NF, 17TW and 17F—Rugged, dependable batteries capable of performance expected of batteries at much higher prices. Built to exceed their guarantee. Composition case. Finest quality plates  $\theta_a$ -inch thick. Genuine Port Orford cedar separators. Guarantee 12 months' adjustment basis.

12/7, 15S1, 17NS, 17S1, 19S1, 19W, 21S1 and 23S—Quick starting, heavy duty, hi-capacity batteries that will stand long, hard use. Hard rubber moulded case. Full size finest quality plates (%-inch positive and %-inch negative). Finest grade genuine Port Orford cedar separators. Guarantee 18 months' adjustment basis.

15HP, 17NH, 17HP, 17SK, 19HP, 19WH and 21HP—For motorists who want the best. Whether for car, truck, bus or radio these batteries will give the maximum results in service and performance for a long period of time you can't expect of ordinary batteries. Hard rubber moulded case. Full size finest quality plates, %-inch thick. Finest grade genuine Port Orford cedar and perforated rubber separators. Guarantee 24 months' adjustment basis.

#### 6 VOLTS

Group No. 2F-Size 11% inches long, 7% inches wide, 8% inches high.

Nos. OB 19W*	Each \$10.75	Period, Months		Capac. Amps., 20 Min. 155	
SATURE TO A TO			1000		-
Group No. 3 inches high.	—Size 11%	inches long	5, 7% 11	iches wie	le, 9%
OB 19S1	\$12.25	18	57	145	53
OB 19HP	14.75	24	57	185	60
Group No. 4	Size 13%	inches lon	g, 7 in	ches wic	le, 9%
OB 21S1	\$14.50	18	63	159	63
OB 21HP	18.75	24	63	200	70
Group No. inches high.	5—Size 14,7	inches lon	g. 7 in	ches wid	le, 8%
OB 23S	\$19.50	18	69	190	78

#### 12 VOLTS

Group No. 6—Size 11% inches long, 7 inches wide, 8% inches high.

OB 12/7 \$11.50 18 42 52 61

\*Black composition case. All others genuine hard rubber moulded case.

Commercial car service guarantee periods are one-half of periods shown above.

One in a carton.

After expiration of this 90 days' guarantee period, any battery which fails in normal service and is found, upon examination by the manufacturer, to be defective in materials or workmanship, will be replaced with a new battery on the established pro rata basis—adjustment to be based on current price, plus transportation charges. For example:

If a battery carrying a 12 months' adjustment warranty, listing at \$12.00, falls in service in 9 months from date of purchase, the user will then receive a new battery of the same type for ½ths (ninetwelfths) of \$12.00 or \$9.00.

Normal passenger car service—not to exceed 1,000 miles per month.

Commercial car service (passenger car batteries)—not to exceed 2,000 miles per month.

Transportation charges both ways must be paid by the owner of the battery when battery is submitted for inspection or adjustment.

# STORAGE BATTERY INFORMATION

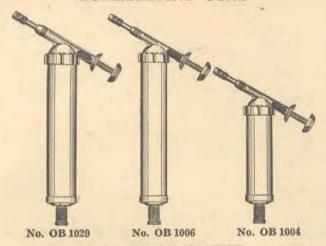
Storage Battery Required for Various Passenger Automobiles, Including 1938 Models

		Battery			Battery			Battery
Year	Model	Group No.	Year	Model	Group No.	Year	Model	Group No.
	AUBURN 31—6-85, 8-95			FORD T All		1922-286	PACKARD 3-Cyl. and 8-Cy	
	8-98-100-125, 8- 8-50, 851, 852 (2-160, 161, 165	, 1260 and	1933-4-Cv	l Cyl			136-143 Se Light 8-Cyl. Se 633-726-733	ries 623-
1934-37—6 1936—E30	Super Charge 3-52, 653, 654			AM-PAIGE, G		1931-38—I 1935-38—I	Big 8-Cyl Light 8, Super 8 120	, 12-Cyl4
1925 to '30	BUICK —Master 6-Cyl	12	1928-3061 1928-3261	10-612-56 14-615 19-29-835-21-27	-8373		PIERCE-ARRO	200
1931-37-8	3-50, 8-60-57, 32 34-50, 40	2-50, 33-50,	1933-35-S	9-53-54-57 Std. 8-Cyltd. 6, 668-668 F	tadio Spl.	1924 to '3	0—80-81, 8-Cyl 3-Cyl. 133, 143,	144, A, B,
1932-35-3	34-60, 60-80, 9 32-80, 90, 33-80,	90, 34-90.3 , 90, 34-90.1 1L	1934-37—86 1936-37—85	6, 73, 74. 37 Radio, 8, S Charged 72, 75	uper 5, 116, 120.2	1932-38—1	C, C234, A1- 840A, 845, 1601 12-Cyl. 1240A, 1 1245, 1255, 16 1702, 1703	, 17013 248A.
1932-38-	V-88, 355B, 8		1300-1111	HUDSON			PLYMOUTH	
1935-37-	V-12, 370B, 12 V-16 J, 60, 60S, 65	Spec.	1932-33-A	-Cyl	2	1929-38	All	1
1923 to '28	CHEVROLE 3—All		1936-38-6- 1936-38-8-	-Cyl. -Cyl,	1F	1932-8	PONTIAC	2
1930-36-	Stand. Master All		1300-112	HUPMOBILI		1936—DL	6-Cyl. 6, DL8	2
1925 to '3	CHRYSLE 10—58-60-62, 65	-66-702	1931-32-H	-L-8-C8-216-22 I and U-226-23	22	1938—6-C	cyl. and 8-Cyl	1L
1931-6	6 CI, CO, 8 C7	Action to the contract	1934—6W, 1934-35—6	417	Cyl. 51SD,	1931-32— 1931-34—	Six 25-22 8-30-35-N52-62, N59	N1, N2,
1931-33— 1931-32—	8 CP, 8 CQ Imp. 8 6-Cyl. Airstrea Cyl. Airstrea	am, C6, 8- um, C2, C7,	1937-6, 8	521J, 8-Cyl. 52	2	1933—N35	8 Royale 52, 54, 6A, Flyir 75 Royale	SF2, S3,
1934-37—	C8, 6-C16, 8- 6 8CU, 8CV, A	irflow, Cl,		FAYETTE (N			STUDEBAKE	R
1934-35 I	Imp. Airflow C9, C10, C11, mp. CW	8-C15, 173	1007.91 A	LA SALLE		1929-30-	Light 6, Dictato	
1938—8 1	mp. Cust. Imp	3	1932-34-A		3	1931—6 . 1931—Die	Pres. 8	
	CORD 32—Ex. 1930		1021 to 122	LINCOLN 3—All		1933-34 1933-35—	m. 8, Pres. 8 6-56, Com. 73, C Pres. 8-92, 8-82, 8-Cyl	Pres. 1C.
1933-34-	All	4	1	INCOLN ZEP		1932-35— 1936—Die	Dict. 6, 8, A, Dic Com. 1B, 8-Cy et, 6, Pres. 8	ct. 1A, 2A,
1928-33-	DE SOTO	1				1937-38-	All	2
1934-6 8	SE Airflow	am, SF, 6	1931-35-6	NASH 60, 1060, 1120,		1934-38-	TERRAPLAN	
1938—All	Cyl. Airflow S/2	2		1220, Adv. 6-3 3-70, 8-80, 1070, 1280, Adv. 8-3	1080, 1180, 35802	1020 Sis	WILLYS 98A and 98B	1
1915 to 1	DODGE 26—All	6	1937—Adv	3-90, 1090, 1190 5, 6, 400, 3720 6, 8, 3780 6, 6		1931-32— 1930-32—	Six 97 and 98D, Eight 8-88D	90, 77, 99.1
1930-33-	29—Std. Victor -Senior 6 -Six DD-DH-D -8-DC	L-DP1	1938—Am	b. 8			WILLYS-KNIC	The state of the s
1930-33— 1934-35— 1934—DI	-8-DG, DK, DC -DR6, DS/6, D R6 Radio	D, DB, SR 6.3 U61	1935-37-6	OLDSMOBII Six and Eight 3-Cyl	1	1929-32-	70-56 -66B-6-66D -70B-87 illys Six-95	4
1936-37-3	38—All		1930-37-6	3-Cyl	**********	1330-447	my o war-ou	

NOTE-When ordering give the following information in addition to number of battery:

The name, year and model of car together with the type of battery specified in replacement list. If possible, give the voltage and the dimensions of battery box, i. e., length, width, and height (voltage, the number of vents times two) In addition specify the type terminals wanted (rubber-covered wire, cone terminals, tapered post, or straight post)

#### LUBRICATING GUNS



#### KLEENSEAL FILLER TYPE

When Kleenseal guns are to be used in severe service requiring frequent refilling, the filler tube type is recommended. These differ from the standard models, in that the follower rod is hollow to permit filling through the rod from the filler bucket. It is unnecessary to remove the head from the barrel, which makes filling not only fast but exceedingly clean.

Equipped with nozzles for Kleenseal, hydraulic and Zerk fittings. Finished in cadmium plate.

Wt. Max. Cap., Diam., Pres., Each, Lbs. Lbs. Each Ozs. In. Nos. 18 2,000 5 **OB** 1029 \$8.75 32 5,000 **OB 1006** 7.75 14 Te 4 9 20 5.000 31/2 OB 1004 6.75



LINCOLN KLEENSEAL-Lever Type

Very strong and ruggedly built. For use on large bearings of tractors, implements and machinery where large volume with medium pressure is required.

Has an improved compound leverage principle which continues to increase the ratio of the leverage as the stroke is completed, and builds up higher pressure with less effort.

The pump plunger moves in the direction of the grease flow, which is the most natural and easy way to operate a lever gun. A spring-pressed follower pushes the grease right up to the pump head, eliminating air pockets and loss of prime.

Barrel has coarse, non-crossable threads for quick assembly. Easily filled by unscrewing barrel from head and sucking the grease into barrel. All lubricants from light to heavy fibrous can be handled. 2,000 lbs. pressure. 18-ounce capacity.

OB 1059—Weight each 7 lbs...... Each \$10.00

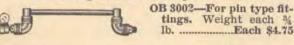
One in a carton.

#### ATTACHMENTS FOR LUBRICATING **GUNS**

LINCOLN

For Lever Type Guns

Lubricating Gun Metal Whip Assemblies

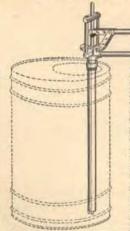




OB 3003-For standard button head fittings. Weight each 1½ lbs. .....Each \$5.75

One in a carton.

#### LUBRICANT TRANSFER PUMPS

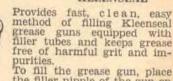


Wherever lubricants are used in large quantities they are ordinarily purchased in 400-lb. drums. Frequently it is necessary to transfer smaller quantities from the drum into filler pumps, grease guns, tanks or bucket pumps. To do this by hand, with a paddle or other implement, is not only awkward, wasteful and laborious, but the grease becomes contaminated. The Lincoln Transfer Pump is the answer to this problem. It is equipped with a 2-inch pipe thread bushing which is easily inserted in the 2-inch bung opening of any standard 400-lb, drum. Pump tube reaches to the bottom of the drum. Grease container remains closed to dirt of any kind. A long, easily operated pump handle is arranged so that it may be used either on the same or opposite side from the outlet. LINCOLN

OB 1315—Weight each 28 lbs...... Each \$29.95

One in a carton.

#### GREASE GUN FILLERS KLEENSEAL



purities.
To fill the grease gun, place the filler nipple of the gun on the filling nipple of the pump. A few strokes quickly fill the grease gun. A hanger is attached to the grease container of the pump to provide support for the grease gun when not is service.
The especially designed pump handle, when raised to a vertical position provides great convenience in carrying gun filler from one point of service to another.

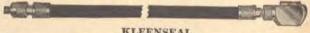
White enameled—capacity 25 lbs.

OB 1206—Weight each 24 lbs.

Each \$17.50

One in a carton.

#### HAND GUN HOSE



For service in contacting standard button head fittings. Braided construction permits great flexibility in service and rubber core is resistant to oil and grease.

Complete with standard button head coupler and swivel

connection with 16-inch male pin-type at opposite end. Length 15 14 inches. OB 3034—For button head whip hose. Weight each 1¼ lbs......Each \$4.50



For use with hand-operated grease guns. An especially treated rubber core makes this hose impervious to oil and grease, and its braided construction permits great flexibility in contacting fittings in inaccessible places. Hose is complete with swiveling bayonet coupler for contacting pin-type fittings and ½-inch male pin-type fitting at opposite end. Length 12 inches, OB 3030—For pin-type fittings. Weight each ¾ lb.

Wrapped in paper.

Retail prices quoted above are those found to be prevailing in the St. Louis area. Freight to destination should be added.

..... Each \$1.25

#### LUBRICATING FITTINGS

#### KLEENSEAL

Cut down replacement costs with these durable and longlasting fittings.

Lincoln Kleenseal fittings are standard equipment on many of the most popular and best-known automobiles, machinery and farm implements. All fittings have spring and ball check unless otherwise specified. The spherical face withstands more abuse and hard use than any other possible design. They are easy hardened. possible design. They are case hardened.









WA Don

**WW7**+

No. OB 5000 No. OB 5050

No. OB 5300

No. OB 5350

Each	Item	100, Lbs
\$0.05		-
	Straight	11/8
.10	¼-in. Pipe Thread—	
32		41/8
.10		
12		234
.10	67½° Elbow	5%
		\$0.05







No. OB 5030 No. OB 5130 No. OB 5500

Nos.	Each	Item	Per 100, Lbs.
OB 5030	\$0.05	%-in. Straight Drive— No Ball Check	7/8
OB 5130	.10	% in. 30° Elbow Drive— No Ball Check	11%
OB 5500	.10	%-in. Pipe Thread— Water Pump	3%



Anti-friction bearing. 16-Inch Pipe Thread

OB 5099-Weight per 100, % lb...Each \$0.15



#### KEYSTONE "B-B"

Save Grease! Save Damage! Save Time! Low-pressure lubrication for ball and roller bearings.

These fittings eliminate the dangers of over or under-lubrication. Over-lubrication results in power losses, overheating caused by inter-nal friction and excessive wear, as well as wasting lubricant.

Reissue
Pat.

No. 20743
Other
Patent
Pending

Any pressure fitting or hand compression cup, plus one of these grease fittings, assures proper application—not just once, but every time the bearing is lubricated. It is impossible to "pack" a bearing under high pressure.

As little as 1/1000 ounce too much will show at the escape ports of the fitting.

Simple to install. Just attach "B-B" fitting to bearing, then screw present pressure fitting or grease cup into the "B-B" fitting. Use the same pressure gun or grease cup as before.

		V	Vt. Each,
Nos.	Each	Pipe Thread	Ounce
OB BB1/8	\$0.60	1/8-inch	5/8
OB BB1/4	.65	¼-inch	7/8
	Packing_	-bulk	

#### LUBRICATING FITTINGS

#### LINCOLN-STANDARD BUTTON HEAD



Correctly designed and hardened to give long service. Suitable for use on many types of equipment and machinery.



No. OB 5700

No. OB 5705

Nos.	Each	Items	Wt. Per 100, Lbs.
OB 5700	\$0.20	1/4-in. Pipe Thread	61/4
OB 5705	.25	¼-in. Pipe Thread	61/4

#### LINCOLN-PIN TYPE

Correctly designed and hardened to give long service. Suitable for use on many types of equipment and machinery





No. OB 5625 No. OB 5675



Nos.	Each	Items	Wt. Per 100, Lbs.
OB 5603	\$0.05	%-in. Pipe Thread-	-
OD 5003	40.00	Straight	3
OB 5625	.12	14-in. Pipe Thread-	
		Straight	5
OB 5675	.15	1/4-in. Pipe Thread-	
		90° Angle	71/2
	Pac	king—bulk.	

#### GREASE CUPS



PLAIN COMPRESSION Rough Steel Finish Without Leather Washers

Closed

Sectional View

Nos.	OB S200/2/0	OB S200/0
Inside diameter, inches	1	11/4
Shank pipe thread, inches	1/8	1/4
Capacity (grease), ounces	1/2	2/3
Height over all, inches	1 1/8	21/4
Weight each, ounces	3	4
Each	\$0.10	.10
	to be stored to	La maria

Nos.	OB S200/1	OB S200
Inside diameter, inches	11/2	2
Shank pipe thread, inches	1/4	3/8
Capacity (grease), ounces	1	2
Height over all, inches	21/2	2%
Weight each, ounces	6	9
Each	\$0.12	.17

Packing-bulk.