MILLERS FALLS TOOLS

SINCE





Hand Tools Portable Electric Tools Hack Saws



MILLERS FALLS COMPANY

GREENFIELD, MASSACHUSETTS, U. S. A.

CHICAGO OFFICE 100 S. Jefferson Street NEW YORK OFFICE 28 Warren Street

Coble Address: "Millerfall" Greenfield Codes: Acme and Bentley's



ADJUSTABLE BLOCK PLANES



No. 206

No. 55



Standard Angle. All Steel Construction

The unbreakable all steel construction of this fine little plane makes it particularly suited for use in manual training shops as well as for skilled craftsmen. Screw depth adjustment of tool steel iron. Bottom and sides nicely polished. Drop forged frog. Steel knob, screw lever cap and adjusting nut nickel plated. Price each Width Iron Weight Code

1 lb.

Weight

7/8 lb.

1 3/8 lbs.

61/4"

51/2"

15/8"

Standard Angle. Lever Depth Adjustment

Lever depth adjustment of solid tool steel cutter iron. Screw operating cap clamp nickel plated. Bottom nicely polished with sides and inside and cap black enameled.



Width Iron

1 3/4"

Standard Angle. Lever Depth Adjustment

Lever depth adjustment of solid tool steel cutter iron. Bottom and sides nicely polished with inside black enamel. Black enameled cap clamp operated by nickel plated screw. Rosewood knob handle.

1 5/8"

All of the above planes packed one in a box



NON-ADJUSTABLE BLOCK PLANES

These short length, inexpensive planes will be found particularly useful in pattern work and model building or where the work is in close quarters. They are light in weight and fit into the hand snugly.





No. 33

No. 5

Standard Angle

Bottoms nicely polished. Sides and clamps black enameled. Screws operating cap clamps nickel plated. Solid tool steel cutter irons.

M	-	33	
N	0.	5	

\$4.00

Price each

Price each

\$2.60

\$1.90

EDFLO

Code

EDELS

EDANS



Width Iron 13/8"

3/8 lb. 7/8 lb.

\$0.90 EDOOL EDWAD 1.50

MILLERS FALLS



Standard Angle

Bottom and sides polished. Lever cap and hardwood knob handle black enameled. Solid tool steel cutter iron. Screws operating cap clamp nickel plated.

No. 700

1 5/8"

Weight 1 3/8 lbs. ETCAB

Price each \$2.00



Standard Angle

Bottom and sides nicely polished with inside and lever cap black enameled. Rosewood knob handle. Solid tool steel cutter iron. Nickel plated clamp screw.

Length

Width Iron 1 5/8"

Weight 1 1/4 lbs. EDOLT

Price each \$2.30

All of the above planes packed one in a box

ROSE TOOLS, INC.



NO. 84 HACK SAW FRAME



The Finest Frame Ever Made

The frame is made of fine quality steel 1/16 inch thick by 1/16 inch wide and the back is hard, touch steel 1/16 inch thick. The rear portion of the frame, stamped from 1/16 inch steel, affords a rigid support for the handle and a guard that gives complete protection to the hand. The handle is made of unbreakable, transparent red "Tenite" comfortably shaped and checked to afford a good grip.

Easily adjustable for 8 to 12 inch blades which are held by sturdy studs with heavy pins set in clips that permit facing the blade in four directions. Any desired tension on the blade can be secured by turning up the large wing nut at the rear. Equipped with a Millers Falls "Blu-Mol" High Speed Hack Saw Blade. Beautifully polished, heavily nickel plated and buffed throughout.

Price eod No. 84 8-12" 314" 3/16 x 13/16" 1 lb. 15 ozs \$4.10 IGOTU Packed one in a box

NO. 48 HACK SAW FRAME



For design, serviceability and price appeal in the higher quality field this frame has never been approached. Its unusual rigidity and fine balance, combined with its finely polished, nickel plated and buffed finish, are sure to make it one of the year's best sellers. The fully guarded handle is made of unbreakable, black "Tenite." It is nicely checked to afford a comfortable, sure grip. Adjustable for 8 to 12 inch blades. Equipped with one 10 inch blade.

8-12" 31/4" Packed one in a box

Capacity

No. 48

Weight 3/16 x 11/16" 1 3/4 lbs. INPAR

Price eoch \$2.80 NO. 300 HACK SAW FRAME



New

Price early

\$3.50

MILLERS FALLS

The new lever tensioning device with which this fine new frame is equipped supplies more tension with less effort, easier and quicker blade changing, more accurate cutting and more cutting value from every blade. Tension is released by pulling down the lever that hugs the bottom of the frame below the handle. It is instantly restored after the blade has been changed and the lever snapped back into the normal position.

The heavy duty frame is very rigid insuring lasting alignment of the blade. It is made of 3/6 x 3/4 inch steel and the back is stamped 1/16 inch hard steel as is the entire handle frame.

The handle is made of tough, unbreakable, red "Tenite" molded on in one piece. It gives a sure, comfortable grip. The frame has an unusually pleasing balance. Quickly adjustable for 10 or 12 inch blades which may be faced in any of four directions.

All exposed metal parts beautifully polished, nickeled and buffed. A 10 inch Millers Falls "Tuf-Flex" Special Alloy, Flexible Blade is supplied with each frame.

Weight Code No. 300 3/16 x 3/4" IBYOR 10-12" 3 1/8" 2 lbs.

Packed one in a box

NO. 1027 HACK SAW FRAME



A fine quality frame that appeals instantly to the tool-wise purchaser. The heavy back reinforcement extends down the entire length of the molded black pistol grip handle making it practically unbreakable. The hang is excellent. Adjustable for 8 to 12 inch blades which can be faced in four directions. Equipped with one 10 inch blade. Finely polished, nickel plated and buffed.

No. 1027

8-12"

31/4"

3/16 x 11/16" Packed two in a box

101

Weight 1 3/4 lbs. ICHNO

Price each \$2.10

100



NO. 1237 HACK SAW FRAME



A substantial and serviceable frame with specially reinforced back and fitted with the popular black molded pistol grip handle with metal reinforcement its entire length. Easily adjustable for 8 to 12 inch blades which can be faced in four directions. Equipped with one 10 inch blade.

All exposed metal parts nickel plated.

Capacity Depth Weight Code Price each No. 1237 8-12" 31/4 3/16 × 11/16 1 3/4 lbs. INVER \$1.50

Packed two in a box

NO. 99 HACK SAW FRAME



A serviceable frame offered at a very attractive price. The handle is made of black composition reinforced its entire length, knurled and shaped to give a sure, comfortable grip. The balance is excellent. The frame construction is substantial and permits ample tension on the blade by means of a wing nut. Blade can be faced four ways. Equipped with one 10 inch hack saw blade. Quickly and positively adjustable for 8 to 12 inch blades.

All exposed metal parts nickel plated.

Copacity Depth No. 99 8-12" 23/4"

New

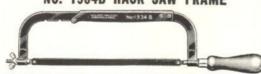
\$52 x 11/16"

Weight 1 1/8 lbs.

Code INNOT Price ead \$1.00

Packed two in a box

NO. 1934B HACK SAW FRAME



A sturdy, rigid frame built specially to meet Federal Specifications. It is easily adjustable for 8 to 12 inch blades which can be faced in any of four directions. Ample tension is secured by the wing null on the outer stud. Finished in black "Ebonite" finish with the handle of mahagany lacquered hardwood-

No blade furnished with this frame.

Copocity No. 1934B 8-12

Depth 3"

Stock 3/16 x 11/16" Packed two in a box

Weight 1 1/2 lbs. **ICORT**

Price each \$1.20

No. 24

ROSE TOOLS, INC.

NOS. 125 and 126 HACK SAW FRAMES



Well made, non-adjustable frames, low price. Made for 10 and 12 inch blades which may be faced in any one of four directions. Blade tension secured by turning the straight, mahagany finished, hardwood handle. One blade furnished with each frame. All exposed metal parts nickel plated.

Capacity 10" No. 125 No. 126 12"

31/8" 31/8"

3/16 x 11/16" 3/16 x 11/16" Packed two in a box

lb 1 1/4 lbs.

IMBED IMBUE

MILLERS FALLS

\$1.05 1.20

NO. 515A HEAVY **DUTY HACK SAW FRAME**



Made for extra heavy cutting of large rods, bars, rails, structural shapes, etc. The heavy backs have smooth, even bends. Ample blade tension is secured by turning the large wing nut on the outer stud. Blades can be faced in four directions. One 12 inch blade furnished with each frame. Attractively finished in black enamel with a mahogany finished hardwood handle.

No. 515A

12"

Depth 51/4"

1/4 x 1"

2 lbs.

Code ILIAC

\$2.95

Packed one in a box NO. 24 RAIL SAW



A heavy duty frame with a deep 101/4 inch throat for cutting steel rails and large structural shapes. Handles are selected hardwood shaped to give a sure, comfortable grip. The large wing nut gives ample tension on the blade which can be faced in four directions. One 12 inch blade furnished. Nicely black enameled with handle in natural lacquered finish.

Capacity 12"

101/4" 1/4 x 1" Packed one in a box

Weight 3 5/8 lbs.

Code ILECK

Price each \$3.50



NO. 1723 HACK SAW FRAME



A serviceable, all-metal frame adjustable for 8 to 12 inch blades. Pressed steel pistol grip handle checked to give a good, sure grip. Blades can be faced four ways. Thumb nut provides ample tension on blade. One 10 inch blade furnished with each frame. Entire frame nickel plated.

Capacity Depth Stock Weight Code

No. 1723 8-12" 31/4" 3/6 x 11/6" 1 1/2 lbs. IMPEL

Packed two in a box

NO. 168 HACK SAW FRAME

Price each

\$1.75



Frame well constructed throughout and fitted with an indestructible all-metal pistol grip handle. It is adjustable for 8 to 12 inch blades which may be faced in any of four directions. Thumb nut provides blade tension. Entire tool well nickeled. Equipped with one 10 inch blade.

NO. 237 KEYHOLE HACK SAW



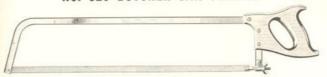
The new handle with which this famous little tool is now equipped will make it more popular than ever It gives a surer grip and better control. It is nicely finished in red and black enamel.

The blade with 18 teeth per inch has carefully hardened and tempered teeth and a soft flexible back which minimizes breakage. It cuts nails, metal lath, plaster board, stucco, armored cable, conduit, packing, bone, bakelite, fibre, hard and soft wood, etc., etc. It can be used in countless places where the ordinary hack saw will not operate.

Length Overall Length Blade \$0.35 4 ors YEYAT No. 237 51/2" 91/2 Price dos. \$2.00 Extra Blades 18 Tooth YEYDB 2.00 No. 7 YEYGA Extra Blades 24 Tooth No. 8

Packed six complete saws or one dozen blades in a box

NO. 320 BUTCHER SAW FRAMES



Sturdy, well balanced frames, well built throughout for long satisfactory service. The frame is made of nicely finished 1/4 by 3/4 inch round edge steel. Each frame is equipped with a high quality 5/6 inch spring tempered saw blade tensioned by means of a large wing nut operating on the rear stud. The confortably shaped hardwood handle has a natural lacquered finish. Frame and parts nickel plated.

	Length	Depth	Stock	Weight	Code	Price each
No. 320	18"	5*	1/4 x 3/4"	1 1/8 lbs.	YILIX	\$2.00
No. 320	22"	5"	1/4 x 3/4"	2 1/8 lbs.	YILLA	2.20
No. 320	24"	5"	1/4 x 3/4"	2 3/8 lbs.	YILKO	2.30
			Packed two in a b	xoo		

NO. 420 BUTCHER SAW BLADES



Made from the finest quality of spring steel, 5% inch wide, tempered, ground and polished. The teeth are set and filed after setting, making a very free, fast-cutting blade. Ends are rounded and punched to length.

	Length	Width	Weight, Box	Code	Price doz
No. 420	18*	5/8"	5 lbs. 5 ozs.	YOJKO	\$2.00
No. 420	22*	5/8"	6 lbs. 3 ozs	YOJLE	2.40
No. 420	24"	5/8"	7 lbs.	AMLOY	2.55
		Packed o	ne-half gross in a box		

NO. 83 KITCHEN SAW



A well made, serviceable saw for use in the home for cutting green bone and frozen meat. The frame is made of 3/6 by 1/2 inch round edge steel. The handle is made of selected hardwood with a natural lacquer finish.

Each frame is equipped with a polished and tempered blade, ½ inch wide, which is filed and set for fast, free cutting.

No. 83 Length Blode Stock Weight Code Price acid.

14" 1/6 x 1/2" 1/6 lb YASIR \$1.00 Price doz.

Extra Blodes 14" 1/2 lb, per doz. YASFA \$1.65

Packed six frames in a box; six dozen blades in a box



BUTCHER SAW BLADES IN COILS

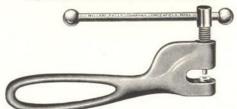


These coils are made of one continuous strip of the finest quality, spring tempered steel with a bright, ground and polished finish. Blue finish can be supplied, if desired. The teeth are set and then filed after setting, making them exceptionally sharp and ready for immediate use. The teeth are corredly shaped and pitched — 11 teeth per inch — for free, easy cutting. They can be readily refiled with the proper equipment.

Supplied in either 25 or 50 foot coils put up in a box from which they are easily dispensed in the desired lengths.

desired leng	Length	Width	Teeth	Weight	Code	Price per ml
No. 251	25'	3/8 "	11	1 1/4 lbs.	YIALM	\$3.70
No. 252	25'	3/4"	11	1 3/4 lbs.	YIANP	3.70
No. 311	50'	5/8"	11	2 1/2 lbs.	YIJUP	7.40
No. 312	50'	3/4"	11	3 1/2 lbs.	YIKAL	7.40
			Packed one coil	in a box		

NO. 200 BUTCHER SAW PUNCH



There is so much variation in the sizes of various styles of butcher's saw frames that most of the better class of butcher's saw blades or coils are not punched when they leave the factory. All dealers in, and users of, these blades will find this inexpensive device very convenient for punching the necessary holes

The frame is made of black enameled, malleable iron. The screw and crossbar are polished steel The punch and die are made from fine tool steel carefully hardened and tempered to punch spring steel

No. 200

7 ozs. Packed one in a box

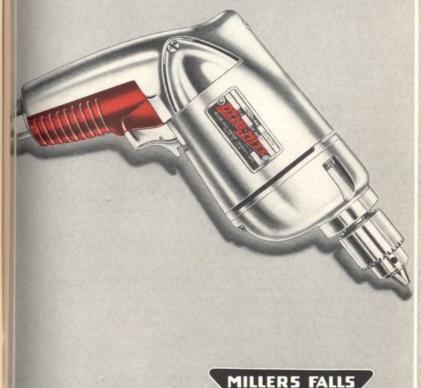
YEMAJ

\$1.30

ROSE TOOLS INC.

ELECTRIC TOOLS

TOOLS





GENERAL PURPOSE BENCH GRINDER



New

MILLERS FALLS

For Grinding, Wire Brushing and Buffing

MILLERS FALLS PORTABLE ELECTRIC TOOLS

GENERAL UTILITY LINE

With this catalog we announce the first of a complete line of utility tools and accessories produced to meet the particular requirements of the individual tool user, such as, home owners, carpenters, farmers, model and pattern makers, hobbyists and a host of others who need power tools for intermittent use, at reasonable prices.

There are no finer tools in this class than the new $\frac{1}{4}$ inch and $\frac{1}{2}$ inch drills and stands listed on pages 110 and 111. They are attractive in appearance and are finished to reflect their fine construction throughout. Their power is conservatively rated giving a reserve safety factor not found in other comparable drills.

These tools will be distributed through the hardware jobbing trade and afford a satisfactory spread for the jobber and dealer alike.

Discounts to the trade will be quoted on request.

STANDARD INDUSTRIAL LINE

The regular line of Millers Falls Electric Tools, long and favorably known for their fine performance and dependability, is designed and engineered throughout for production use in industry and in the automotive, plumbing, heating, construction, electrical and many other fields. The wide range of capacities, speeds and power now available answer most every requirement encountered. New tools in development will make the line even more attractive as an outstanding merchandising opportunity.

It is sold, on a selective basis, through recognized distributors and Millers Falls Co. will welcome the opportunity of discussing a distributorship with any qualified concern. Our policy and effective co-operation are liberal and fair in every detail and should lead to a mutually satisfactory association.

Write for complete electric tool catalog and further particulars.

SERVICE STATIONS

More than thirty strategically located service stations are available in the United States and Canada for the repair or reconditioning of Millers Falls Electric Tools. They carry complete stocks of parts and have the equipment and skilled personnel to render unusually prompt-and efficient service. A fine, new grinder that is rugged, powerful and reliable. The design of both the mechanical and electrical parts is excellent and the performance is comparable to that of much higher priced grinders.

It is nicely suited for a great variety of "touch up" jobs in industry and the requirements of automotive, plumbing and heating, electrical or other types of repair shops. It is equally valuable to home workshop owners, farmers and craftsmen in general.

The heavy 14½ inch spindle runs on large, grease sealed, precision ball bearings. Greater distance between the motor housing and the wheels gives increased accessibility and a wider flexibility of use particularly on brushing, polishing and buffing. The heavy, wider wheel guards are mounted directly on the spindle housing. The work rests are easily adjustable.

OVERALL HEIGHT: 9½ inches. Bench to center of spindle 5½ inches.

MOTOR: Powerful ¼ H.P. for 50/60 cycle A.C. only. 115 or 230 volts.

SPINDLE: Ball bearing. Overall length 14 ½ inches.
WHEELS: One each coarse and fine, high grade abrasive.
CORD: Six feet of high quality, three conductor with plug.

	Rating	Wheels	No Lood R.P.M.	Shipping weight	Code	Price each
No. 60	1/4 H.P.	6 x 1/2 x 1/2"	3450	45 lbs.	NILUR	\$39.50
No. 867	Plain Eye Shields, p	per pair		1 3/8 lbs.	DORPA	3.00
No. 8610	Illuminated Eve Shi			3 1/4 lbs.	DOSSY	7.50
No. 7600	Cast Floor Pedesta	l, each		85 lbs.	DUBAX	23.00

For Grinding and Wire Brush Wheels, see pages 76 and 126

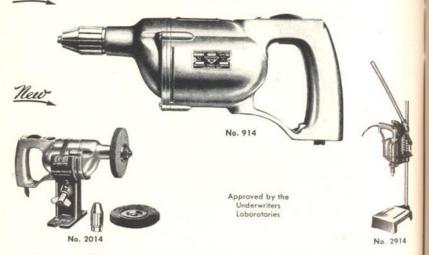
108



Hew

GENERAL UTILITY DRILL

1/4 INCH



A truly wonderful 1/4 inch drill developed with the sole objective of giving the individual craftsman a better drill than ever available before at such a low price.

It is a smooth running, powerful, sturdily built tool to meet the particular requirements of home owners, farmers, cabinet makers, carpenters, model and pattern makers, hobbyists and a great variety of light maintenance and repair shops. The pleasing lines, light weight and excellent balance are a promise of the long, dependable service it will deliver and which all tool-wise mechanics count of from a Millers Falls Tool.

A number of interesting attachments with accessories for use in this drill are in development and will be announced shortly Sanding, grinding, buffing and wire brushing are among the operations that can be performed.

MOTOR: Universal for D.C. or A.C. — 25 to 60 cycles — 115 and 220/230 volts.

HOUSING: Die cast aluminum alloy. Hammered grey enamel finish.

CHUCK: New Millers Falls Precision. GEARS: Alloy steel — grease lubricated.

BEARINGS: Ball thrust spindle — all others oil impregnated bronze.

SWITCH: Single pole — make and break

CORD: Seven feet of two conductor, Type SJ, with moulded rubber reinforcement and plug.

	Capacity in Steel	No Load R.P.M.	Amps. Full Load	Length overal	ı w	'eight	Code	Price
No. 914	1/4"	2500	2	111/2"	31/	2 lbs.	PANON	\$19
No. 2115 No. 2014 No. 2914	Wheel Arbor for Bench Stand, Base Bench Stand	4 x ½ x ½" e 4½ x 2", H	Wheels eight to Chuck		2	lbs.	PARAR PAREB	2

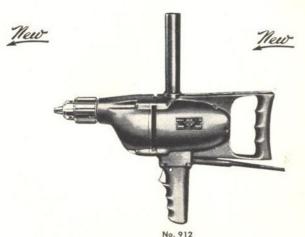
No. 914 can also be used in the No. 2912 Stand on the following page



GENERAL UTILITY DRILL

1/2 INCH





No. 2912

Approved by the Underwriters Laboratories

The Best Dollar Value of any Drill Made

for the craftsman whose work requires a drill of ½ inch capacity this tool offers a remarkable value. thas more power, finer construction, better performance and less weight than any comparable drill on the market. It is ruggedly built, amply powered and heavily insulated.

MOTOR: Universal for D.C. or A.C. — 25 to 60 cycles — 115 and 220/230 volts.

HOUSING: Die cast aluminum alloy Fine hammered grey enamel finish.

CHUCK: No 33B Jacobs Standard key-operated. CAPACITY: 1/2 inch in steel - 3/4 inch in hard wood.

GEARS: Alloy steel - grease lubricated.

BEARINGS: Ball thrust spindle bearing — all others oil impregnated bronze.

SWITCH: Double pole with lock — automatic trigger release.

CORD: Three conductor, Type SJ, cord with moulded rubber reinforcements and plug cap with grounding terminal connector.

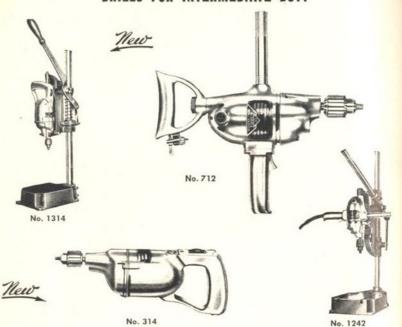
	Capacity in Steel	No Load R.P.M.	Amps. Full Load	Length overall	Weight	Code	Price each
No. 912	1/2"	450	3	15"	8 lbs.	PANNA	\$35.00

	For Drill No.	Max. Chuck to Table	Max. Chuck to Column	Max feed	Weight	Code	Price ead
. 2912	912	14"	51/4"	31/2"	26 lbs.	PARAB	\$16.80

BENCH STAND



DRILLS FOR INTERMEDIATE DUTY



These two beautifully designed and engineered drills are built to a high standard to meet the requirements for a $\frac{1}{4}$ inch and $\frac{1}{2}$ inch drill for intermediate service on maintenance and repair jobs. On the work for which they are intended they can be depended on for smooth, uninterrupted performance.

MOTORS: Universal for D.C. or A.C. - 25 to 60 cycles.

VOLTAGES: 115, 125, 150, 230 or 250.

CHUCK: Jacobs key-operated. GEARS: Heat-treated alloy steel. BEARINGS: Ball thrust spindle — all others oil impregnated bronze.

No Load

SWITCH: Fully enclosed. Double pole.

Copocity

CORD: Ten feet of high quality, three conductor with unbreakable plug.

1/4 " 1/2 "	1800 400	2.2 3.5	12" 15½"	4 ½ lbs. 10 ½ lbs.	DAMOY DYNET	\$25.00 41.00
		BENC	H STANDS			
For Drill No.	Max Chuck to Table	Max. Chuck to Column	Max feed	Weight	Code	Price each
314 712	131/2"	5" 71/2"	2 1/2"	25 lbs. 77 lbs.	DYNUT DYREX	\$11.00 27.50
	For Drill No.	1/2" 400 For Max Chuck to Table 314 13 1/2"	V2" 400 3.5	V2" 400 3.5 15 ½"	V2" 400 3.5 15 ½" 10 ½ lbs.	V2" 400 3.5 15 ½" 10 ½ lbs. DYNET

"DYNO-MITE"" PRODUCTION DRILLS

MILLERS FALLS



More Power More Production Longer Service

his new, improved line of "Dyno-Mite" drills has been augmented by the addition of a high torque radel equipped with a 3% inch chuck nicely adapted to the airplane and many other industries. The rotors are more powerful; finer materials used and fabrication held within the closest tolerances. Dyno-Mite" drills are efficient, highly dependable production tools.

No. 220, 1600 R.P.M. is recommended for general service in steel, while the high speed models are ideal for drilling small diameter holes in non-ferrous metals with minimum burr. The slower speed, but to the torque models are recommended for stainless and the hard alloy steels up to the inch and full duck capacity in non-ferrous metals.

NOTOR: Universal D.C. or A.C. - 25 to 60 cycles. VOLTAGES: 115, 125, 220/230, 250.

OUSING: Die cast aluminum, fine grey enamel finish.

HUCK: Jacobs key-operated.

Price end

EARINGS: Armature, intermediate gears and spindle, grease sealed, ball bearing.

FEARS: Heat-treated alloy steel throughout.

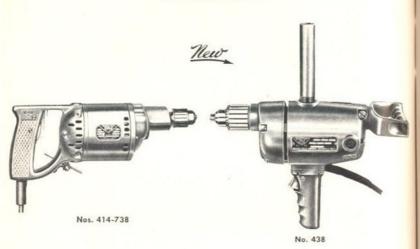
WITCH: Double pole, with lock, automatic trigger release.

CORD and PLUG: Ten feet of three conductor heavy duty cord with plug.

	Chuck	Steel	Non-Ferrous	No load Speed R.P.M.	Length overall	We	ight	Code	Price each
	CHUCK	Jieer	140171411042	10.00			200	27772	
220	1/4"	1/4"	1/4"	1600	8 1/8"	3	lbs.	DARAT	\$38.00
225	1/4"	3/16"	1/4"	2500	8 1/8"	3	lbs.	DAREL	38.00
220	1/4"	5/32 "	1/4"	3500	8 1/8"	3	lbs.	DAREX	38.00
225	1/4"	1/8"	1/4 "	5000	8 1/4"	3	lbs.	DARID	38.00
240	5/16"	3/16"	3/16"	800	9 5/8"	3 1/2	lbs.	DAROW	44.00
245	3/16"	5/16"	3/16"	500	9 5/8"	31/2	lbs.	DAROF	44.00
250	3/8"	3/16"	3/6"	800	101/8"	4	lbs.	DARRO	46.00
200	3/8"	5/14"	3/8"	500	101/4"	4	lbs.	DARYS	46.00
90 Univer		nale Drive		for Nos. 220, 2	25, 230, 235,	240 an	1245	DETRO	30.00



ELECTRIC DRILLS



These are industrial drills of the highest order. They have been used on every sort of application and found tried and true. Constant improvement and refinement of their electrical units and the precision machining of all vital metal parts insures the long life and dependable service for which they are famous.

The new No. 438 replaces the No. 538 in response to a growing demand for a close coupled heavy duty drill of \(^3\) inch capacity. It is one of the finest tools ever produced.

MOTORS: Universal for D.C. or A.C.— 25 to 60 cycles — 115, 220/230 and 250 volts.

CHUCKS: Jacobs key-operated.

GEARS, PINIONS and SPINDLES: Finest heat-treated alloy steel.

BEARINGS: Nos. 414 to 738 ball bearing armature with bronze spindle bearings.

No. 438 ball bearing armature and spindle. All others needle roller.

BRUSHES: Long life pigtail — accessible from without.

SWITCHES: Double pole, fully enclosed. Underwriter approved.

CORD: Ten feet of best rubber covered three conductor, Type S, with unbreakable plug.

	Capacity in Steel	Standard No Load R.P.M.	Special No Load R.P.M.	Amps. Full Load	Length overall	Weight	Code	Price
No. 414	1/4" Std.	1800	3000	2.5	12"	5 1/a lbs.	DIANA	\$4
No. 514	1/4" H.D.	2000	1000-1500-3000	3.0	14"	7 lbs.	DRAWL	5
No. 516	3%" H.D.	1500	2000	3.0	14"	7 3/8 lbs.	DROVE	5
No. 638	3/8" Spl.	1000	1500	3.0	14"	7 5/8 lbs.	DINOX	5
No. 738	3/8" H.D.	400	None	3.0	14"	8 3/4 lbs.	DAHOV	5
No. 438	3/8" H.D.	900	None	4.5	14"	9 1/2 lbs.	DINNO	5

Special speeds as above \$2,50 extra. For Stands and other Accessories see pages 117 and 126.



ELECTRIC DRILLS



No. 512

No. 3012

The requirements for drills with ½ inch capacity are completely covered by these three fine tools. They are rugged and powerful and built up to the high standards set for all Millers Falls Tools.

The addition of the new No. 512 answers the demand for a compact unit for use in close quarters or by operators who prefer this type of design for general use.

MOTORS: Universal for D.C. or A.C.— 25 to 60 cycles — 115, 220, 230 and 250 volts.

CHUCKS: Jacobs key-operated.

GEARS, PINIONS and SPINDLES: Finest heat-treated alloy steel.

BEARINGS: No. 312 ball bearing armature. Spindle bronze sleeve with ball thrust bearing. All others bronze sleeve.

No. 512 ball bearing armature and spindle. All others needle roller.

No. 3012 ball bearing armature and spindle. All others bronze sleeve.

BRUSHES: Long life pigtail — accessible from without.

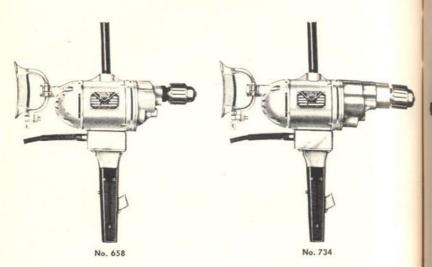
SWITCHES: Double pole, fully enclosed. Underwriter approved.

CORD: Ten feet of best rubber covered, Type S, three conductor with unbreakable plug.

	Capacity in Steel	No Lood R.P.M.	Amps. Full Load	Length overall	Weight	Code	Price each
No. 312 No. 512	1/2" Std. 1/2" Std.	525 550	4.5 5.0	17"	15 3/8 lbs. 9 1/2 lbs.	DIRCK	\$58.00
No. 3012	1/2" H.D.	650	5.5	18"	19 lbs.	DIRYL	75.00



ELECTRIC DRILLS



Each of these rugged, heavy duty drills is available in two speeds which completely cover requirements in these capacities. They are perfectly suited for such jobs as driving pipe-threading machines positive set cylinder grinders and hones and similar applications.

The spindles of Nos. 734 and 801- are mounted on Timken Taper Roller Bearings, otherwise these drills have precision ball bearings throughout.

MOTORS: Universal for D.C. or A.C.—25 to 60 cycles — 115, 220/230 and 250 volts,

CHUCKS: Jacobs key-operated. No. 801 has No. 3 M.T. Socket.

BEARINGS: Ball bearing armatures; Nos. 734 and 801 Timken Roller Bearing.

GEARS, PINIONS and SPINDLES: Heat-treated alloy steel.

SWITCHES: H.D. double pole, fully enclosed. Underwriter approved.

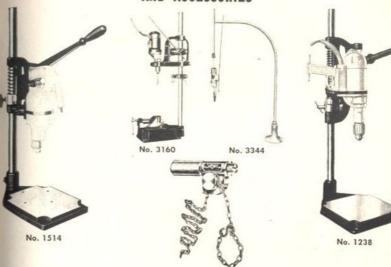
BRUSHES: Pigtail - mounted on rocker ring.

CORD and PLUG: Ten feet best rubber covered, Type S, three conductor with armored plug.

	Copacity in Steel	No Load R.P.M.	Special R.P.M.	Full Load	Length overall	Weight	Code
No. 658	5/4" H.D.	475	700	6.5	191/4"	22 13/16 lbs.	DOTTY
No. 734	34" H.D.	400	275	7.5	213/4"	26 3/8 lbs.	DANDY
No. 801	1 " Std.	275	400	7.5	23 1/4"	24 1/4 lbs.	DROXO

DRILL AND SCREW DRIVER STANDS
AND ACCESSORIES

MILLERS FALLS



he well-built stands listed below make efficient bench units of the Millers Falls Drills and Screw Drivers for which they are designed. The bases are large enough for stability and afford ample support to he heavy columns which carry the adjustable brackets that hold the tool. The feed levers with spring fewer provide ample drilling pressure or feed for driving screws or running nuts.

No. 3344 Goose Neck Stand provides spring suspension hand feed only.

_	For Drills and/or Screw Drivers	Max. Chuck to Table		Max. feed	Base	V	/eight	Code	Price each
10. 1514	014 414, 514, 516, 638, 11 and 22 1238 312, 3012, 658, 734 and 801 1514 414, 514, 516, 638, 11 and 22 1160 All Dyno-Mires and 52 1344 11, 22, 420, 430, 440, 445		7¾" 6 " 5 "	4 1/4" 3 " 2 1/8"	5 x 2 % " 10 x 10 " 9 ¼ x 8 " 11 ¼ x 6 ¼ "	2 ! 77 37 29	lbs.	DUCKE DIWAC DIACK DIAGO	\$ 3.50 35.00 20.00 20.00
No. 5014 No. 5120	and 50	41/4"	71/2"	51/2"	4½ x 2" 8¼ x 8¼"	7 2 46	lbs. lbs. lbs.	DAPIR DUCLO DIWEL	5.00 3.50 26.00

Switch Controls and Limit Switches available for vertical stands

ACCESSORIES

	Accessory	For use with Stands and for Drills Nos.	w	eight	Code	Price each
1511 1517 3163	Wall Brackets Drill Vise (2 3 x 3") Foot Treadle Feed Power Feed	1238, 1242, 1514 and 5120 All vertical stands 1238, 1242, 1514, 3160 and 5120 All drills with pipe side handles	2 ½ 7 20	lbs.	DAMEZ DIFTS DAPAT DRULO	\$ 2.00 4.50 8.00 19.95



"DYNO-MITE" PRODUCTION SCREW DRIVERS



On production assemblies where a myriad of screws or nuts must be driven rapidly, with nicety and uniform torque, thousands of manufacturers know and insist on the velvet smooth, vibrationless action and sensitive adjustability of Millers Falls "Adjustomatic" Clutches.

Driven by the new, more powerful "Dyno-Mite" power unit these tools have no equal in their field. They handle machine screw and wood screw applications within their capacity efficiently, dependably and with accelerated production.

The 1600 R.P.M. unit is recommended for general all around use. The 500 and 800 R.P.M. high torque units are recommended for all sheet metal screws, self-tapping screws and wood screws in hard wood. The 2500 R.P.M. unit is recommended for running nuts on long studs and similar applications.

Regular equipment consists of one each, bit and centering sleeve, for Nos. 6, 8 and 10 screws, and a clutch-adjusting spanner.

MOTOR: Universal D.C. or A.C. 25 to 60 cycles. VOLTAGES: 115, 125, 220/230, 250.

CLUTCH: Patented "Adjustomatic" roller, selective torque.

BEARINGS: Ball bearing throughout. GEARS: Heat-treated alloy steel.

SWITCH: Double pole, with lock — automatic trigger release.

CHUCK: Quick change 1/4" Hex.

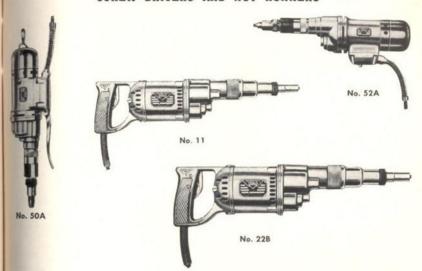
CORD and PLUG: Ten feet of three conductor heavy duty cord with plug.

		ocity	No Load Speed				
	Mach, screws	Wood screws	R.P.M.	Length overall	Net weight	Code	
No. 420	1/4 "	#10 — 1 ¼ °	1600	121/4"	3 3/4 lbs.	DUGAN	
No. 430	#10	#10 - 11/4"	2500	121/4"	3 3/4 lbs.	DUHET	
No. 440	1/4"	#12 - 11/2"	800	125/8"	4 lbs.	DUIRO	
No. 445	1/4"	#12-11/2"	500	12 5/8"	4 lbs.	DUJAR	
No. 1025	Universal 25°	Angle Attachment				DELRY	
No. 1033	Universal 90°	Angle Attachment				DEIGO	

Complete assortment of Bits and Sockets for any application available. See page 117 for Nos. 3160 and 3344
Stands for bench operation of these drivers. Units equipped with reversing switches, \$7.50 extra.



SCREW DRIVERS AND NUT RUNNERS



The screw drivers and nut runners on this and the preceding page with the diversity of speeds provided and power available will handle any application within their rated capacities. Above all they are particularly valuable where sensitivity and uniformity of set are highly important.

The services of a corps of highly trained and experienced sales engineers are available to survey four requirements and make recommendations as to the most efficient units to use and, when necessary, work out special fixtures to secure the desired results at a high rate of production.

The "Adjustomatic" Clutch is the smoothest acting, most easily adjusted and sensitive device of its kind. No other clutch equals its performance. It's exclusive on Millers Falls Tools.

MOTORS: Universal for D.C. or A.C.— 25 to 60 cycles — 115, 220/230 and 250 volts.

QUICHES: Nos. 50A, 52A and 22B "Adjustomatic" selective torque. No. 11 adjustable double action.

GEARS, PINIONS and SPINDLES: Heat-treated alloy steel.

ARINGS: Armature and main spindle ball bearing. Intermediate spindle bearings bronze sleeve.

EQUIPMENT: Nos. 50A and 52A — Bits and sleeves for Nos. 6, 8 and 10 Screws. No. 11 two bits and sleeves for Nos. 8 and 12 Screws. No. 22B two bits and sleeves for Nos. 12 and 16 Screws. Complete range of bits, sleeves and sockets available for all numbers.

SWITCHES: Double pole, fully enclosed.

CORD: Ten feet of best rubber covered, Type S, three conductor with unbreakable plug.

_	Copacity Wood Screws	Capacity Mach. Screws	STANDARD N. L. Speed R.P.M.	SPECIAL N. L. Speed R.P.M.	Amps Full Load	Length overall	Weigh?	Code	Price each
No. 50A	#10 — 1 1/2"	#12	800	\$ 1200 2000	1.2	121/2"	4 % lbs.	DEMUN	\$68.00
No. 52A No. 11 No. 22B	#10 — 1½" #16 — 2" #20 — 2½"	#12 3/8" 3/8"	800 500 500	(3000 700-1000 700-1000		12½" 16½" 18½"	4 3/6 lbs. 7 lbs. 9 3/4 lbs.	DENIG DELLA DELIB	62.00 78.00 92.00

Reversing switches, installed, \$5.00 extra. No extra charge for special speed.

For Stands, see page 117



DOUBLE END BLOCK PLANE

This combination plane has two throats and two cutter seats. As illustrated it is an ordinary block plane but when the cutter iron and lever cap are set up in the seat at the other end it becomes a bull-nosed rabbet plane.



Standard Angle

Bottom and sides nicely polished with inside and lever cap black enameled. Rosewood knob handle, Solid tool steel cutter iron. Nickel plated clamp screw.

	Length	Width Iron	Weight	Code	Price each
No. 68	8"	1 5/4 "	1 1/2 lbs	EDFEN	\$3.30

RABBET AND FILLISTER PLANE



This Millers Falls Plane has every desirable feature in a rabbet plane built into it. It is equipped with two cutter seats — a rear seat for regular work with a lever adjustment of the blade for depth, and a forward seat for bull-nosed work.

The fence is adjustable on the steel arm. The steel arm and the fence can be used on either side of the plane as the work requires. When the arm and fence are entirely removed, the plane can be used for a wide variety of uses. A three-point spur and a depth gauge are also part of the equipment. The depth gauge can be removed entirely when desired.

Body of plane nicely finished in black enamel. Bottom and both sides accurately ground. Trimmings and small steel parts nickel plated.

Price each Length Width Iron Weight No. 85 Rabbet \$5.40 81/2" 11/2" 3 lbs. EDMAN Packed one in a box

MILLERS FALLS

ROUTER PLANES

Poster Planes are designed to level off and smooth the bottoms of grooves or slots parallel to the working surface. Two screw holes are provided in the body so that wood bottoms can be attached for increasing the bottom area allowing large areas to be worked, or fences can be attached for following straight or irregular edges.

NO. 77 CLOSED THROAT ROUTER



Three cutter irons, 1/4" and 1/2" wide and a 1/2" pointed smoother, are provided. Depth of cut is controlled by a screw adjustment. Two seats are provided for the cutters, front for regular work and rear for bull-nosed work. A fence which can be attached to the bottom for following straight or curved edges is regular equipment.

Bottom nicely polished. Mahogany lacquered hardwood handles. Frame nickel plated.

No. 77

1/4", 1/2", 1/2" Point Packed one in a box

2 1/8 lbs.

FERAD

Price each \$5.30

NO. 67 OPEN THROAT ROUTER



Three cutter irons, $\frac{1}{4}$ " and $\frac{1}{2}$ " wide and a $\frac{1}{2}$ " pointed smoother, are provided. Depth of cut is controlled by a screw adjustment. Two seats are provided for the cutters, front for regular work and rear for bull-nosed work. Throat can be closed for narrow work by installing attachment supplied. A fence which can be attached to the bottom for following straight or curved edges is regular equipment. Bottom nicely polished. Mahogany lacquered hardwood handles. Frame nickel plated.

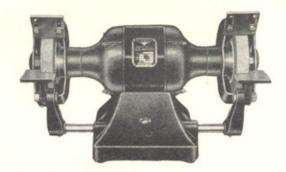
1/4", 1/2", 1/2" Point Packed one in a box

FFRUE

\$6.50



HEAVY DUTY BENCH GRINDERS



This dependable line of grinders is equipped with new super-powered, precision-balanced motors, with extra fast capacitor starting with starting current requirements of less than 15 amperes and continuous induction run for steady, heavy duty service. Oversize, labyrinth sealed ball bearings insure trouble-free performance.

The new knee action tool rests give greater adjustability for straight or angle grinding. Heavier, safer, enclosed wheel guards are supplied. They are also wider to accommodate wire brush wheels

One coarse and one fine, high grade abrasive wheel regular equipment.

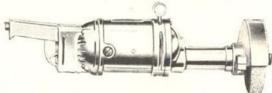
	H.P.	Voltages	Wheels	No Load R.P.M.	Weight	Code	Price mi
No. 76	1/3	110; 125; 150; 220; 250 50/60 cycle 1 phase	6 x 3/4 x 1/2"	3450	55 lbs.	NIBAC	\$ 54.5
No. 76	1/3	220/230 or 400/440 50/60 cycle 3 phase	6 x 3/4 x 1/2"	3450	55 lbs.	NIBEL	54.
No. 76	1/3	115; 230 or 250 D.C.	6 x 3/4 x 1/2"	3450	60 lbs.	NIBUS	65.0
No. 77	1/2	110; 125; 150; 220; 250 50/60 cycle 1 phase	7 x 1 x 3/8"	3450	80 lbs.	NIDAR	78.
No. 77	1/2	220/230 or 400/440 50/60 cycle 3 phase	7 x 1 x 3/8"	3450	80 lbs.	NIDEB	78.
No. 77	1/2	115; 230 or 250 D.C.	7 x 1 x 5/8"	3450	90 lbs.	NIDUG	90.
No. 81	1	110 1 phase 50/60 cycle	10 x 1 x 34"	1725	155 lbs.	NIKAS	120.
No. 81	1	220 or 440 3 phase 50/60 cycle	10 x 1 x 34"	1725	155 lbs.	NIKED	120.
No. 81	1	550 3 phase 50/60 cycle	10 x 1 x 34"	1725	155 lbs.	NIKOP	120.

Single phase grinders are equipped with heavy duty switch and 10 feet of rubber covered cord. Three phase grinders are equipped with a heavy duty switch but no cord.

Nos. 76 and 77 can be supplied with heavy steel guards at slight additional cost.

For Grinding and Wire Brush Wheels, see pages 76 and 126.

PORTABLE ELECTRIC GRINDERS



Designed throughout and powered for heavy duty snagging, grinding welds, wire brushing, removing rust, scale and grinding off rivets, pins, bolts and similar operations. Totally enclosed motors exclude injurious dust and grit.

MOTORS: Universal for D.C. or A.C. - 25 to 60 cycles - 115, 220/230 and 250 volts.

GEARS, PINIONS and Spindles: Heat-treated alloy steel

BEARINGS: Oversize ball bearings throughout WHEELS: No. 406B. High grade 6 x 1 x 1/2" No. 461 Bakelite bonded 6 x 1 x 1/2"

CORD: Ten feet of rubber covered, Type S, three conductor with armored plug.

1000	Diameter wheel	N.L. Speed R.P.M	Amps Full Load	Length	Weight	Code	Price each
No. 4068	6"	3700	6.0	231/2"	23 11/16 lbs.	TRUMP	\$110.00
No. 461	6"	5500	6.0	23 1/2"	23 3/8 lbs.	TRUYT	110.00
Extra W	heels, No. 40	6B. \$3.75; N	o. 461, Bonde	d. \$500 each	Other accessories	see pages 7	6 and 117

HIGH SPEED HAND GRINDER





MILLERS FALLS

A light, compact tool essential in every toolroom or die shop for grinding clearances, shrinkage corrections, contouring, grinding cavities, profiling, etc. Motor and spindle housing made of tough moulded Bakelite making a cool tool easily operated with one hand

MOTORS: Universal D C or A.C.— 25 to 60 cycles — 115, 220 230 and 250 volts CHUCKING CAPACITY: Collets 1/12" to 1/4" diameter

EQUIPMENT: Three wheel extensions, ¼ " arbor, ½" collet chuck; ½" chuck arbor, ½" extension arbor 1¼ x ¼ x ¼ and ½ x ½ x ½ " grinding wheels, 3 mounted wheels and chuck wrench all packed in a wooden box

CORD: Ten feet of best rubber covered, Type SJ, three conductor with plug

	N.L. Speed R.P.M.	Length averall	Weight	Code	Price each
No. 306B	18,000	11"	2 3/4 lbs	TRUTH	\$40.00
No. 6030 Nos. 1524	Lathe Adapter \$5.00 32", 1529 1/8" and 15	No. 6131 Milling Machine 25 ¼ " Collets	Adapter for ¾, 1, 1	/s" Spindles \$1.50	2.00

		Fitting	Weight	Code	Price eac
0. 867	Plain Shatterproof Eye Shields	All	1 3/a lbs.	DORPA	Pair \$ 3.0
0. 8610	De Luxe Illuminated Eye Shields	All	3 1/4 lbs.	DOSSY	7.5
0.7600	Cast Iron Floor Pedestal with water pot	60,76	78 3/4 lbs.	DUDET	23.0
0. 7700	Cost Iron Floor Parketal with water and	77	80 3/4 lbs.	DUFOX	23.0
0. 8100	Cost Iron Floor Padastal with water and	81	106 lbs.	DUKAT	27.5
7080	Tourst Daill Cainding Attachment	60, 76, 77	4 3/4 lbs.	DYDAB	21.7
7004	Daywood Canding Wheel 4 - 1 - 1/ "	60.76	2 1/a lbs.	DYCEL	3.6
7087	December Canadian Wheel 7 - 1 - 54"	77	2 5/8 lbs.	DYFOM	4.2
. 7088	Diamond Point Wheel Dresser		1/8 lbs.	DYJAK	5.5

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POLISHERS, SANDERS AND GRINDERS





Nos. 900, 990

These versatile tools are designed for cleaning, waxing, rubbing, polishing, sanding, wire brushing and grinding on a great variety of production operations as well as maintenance and repair.

No. 27 Polisher is a light, compact tool specially designed for cleaning, rubbing, waxing and polishing to produce high lustre finishes. Its speed is selected to perform these operations efficiently, and without damage in the shortest possible time.

Nos. 775 and 900 are powerful production tools equipped with 7 inch pads which can be replaced with cup grinding wheels or cup wire brush wheels.

No. 990 is a heavy duty unit powered for heavy sanding, polishing, wire brushing, stone surfacing and grinding requirements.

A resilient, shock absorbing coupling, exclusive in these tools, minimizes vibration and greatly increases their life.

MOTORS: Universal for D.C. or A.C.— 25 to 60 cycles -- 115, 220/230 and 250 volts.

PADS: Patented, super-flexible. SIDE HANDLES: Reversible. GEARS, PINIONS and SPINDLES: Heat-treated alloy steel. BEARINGS: Precision, grease sealed ball bearing throughout.

SWITCHES: Double pole, fully enclosed. Underwriter approved.

CORD: No. 27. Ten feet high grade, rubber covered, three conductor, Type S, with unbreakable plug. All others

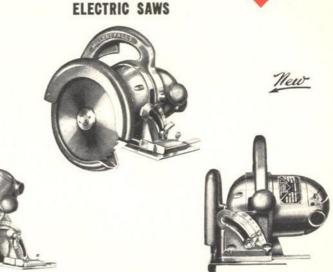
15 feet best rubber covered, three conductor, Type S, with unbreakable plua.

	Diam, Disc	Rating	No load R.P.M.	Amps. Full Load	Weight	Code	Price
No. 27	7"	Special	1600	3.5	8 1/4 lbs.	TAMOX	\$6
No. 775	7"	Standard	4600	6.5	13 3/4 lbs.	TECUL	71
No. 900	7"	Heavy Duty	4600	8.0	15 % lbs.	TEFAX	9
No. 990	9"	Standard	3850	8.0	16 % lbs.	TRYMO	71

For partial list of Accessories, see page 126



MILLERS FALLS



Powerful Fast Compact

These are powerful, heavy duty tools for continuous production work, ripping or cross cutting to their full rated capacity in hard or soft wood. They can also be used for cutting metals, stone, concrete, and many composite materials by employing the saws or abrasive discs specially developed for these applications. They are nicely balanced and easy to control. The telescoping saw guard provides maximum safety.

Quick, easy adjustment of depth of cut from zero to full capacity is made by simply loosening the mob handle and rotating the motor in the frame, elevating or dropping the saw to the desired depth. Angle adjustments are made by loosening the front binder lever at the front and setting at the desired angle on the quadrant from 0 to 45° .

The same cutting guide is used for all angles and the work line is kept clear by a strong air blast. sturdy, adjustable ripping guide is regular equipment.

For use at a distance from nearest power connection the following gauges of extensions are recommended: 50 feet 12 gauge; 100 feet 10 gauge, and 200 feet 8 gauge.

MOTORS: Universal for D.C. or A.C. up to 60 cycles.

OLTAGES: 110/115V Standard. 220/230V and 250V also available.

GEARS: Precision cut and hardened, helical, alloy steel gears.

EARINGS: Precision ball bearings throughout.

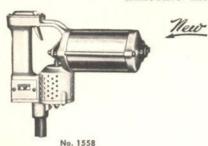
STANDARD EQUIPMENT: One high quality standard combination saw blade, 15 feet of heavy duty three conductor cord with plug, rip guide, flange spanner, hex key for arbor screw and a rugged, lacquered metal carrying case.

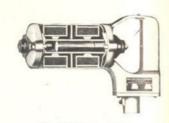
	Diam.	Maximum	Cut		Speed N.L.	We	ight		
	Saw	Rt. Angle	45°	H.P.	R.P.M.	Net	Shipping	Code	Price each
850 1050	9"		2 3/8" 2 5/8"	1 11/4	4000 3800	20 ½ lbs. 22 ¾ lbs.	42 ½ lbs. 44 ½ lbs.	SLITO SMARY	\$152.00 180.00

Each tool packed in a substantial, nicely finished metal carrying case in a corrugated container



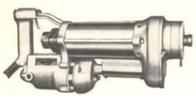
ELECTRIC HAMMERS

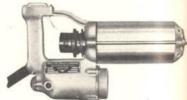




No. 1716 Sectional View







No. 4016

Nos. 2516 and 3216

Millers Falls Hammers have only one moving part — the internal solid steel hammer head which strikes 3600 powerful blows per minute, actuated by powerful electro magnets. There are no motors, gears, shafts or bearings to wear out, under the constant vibration. They are long lived, dependable and trouble free.

No. 1558, superseding the old No. 1058, is completely self-contained with the rectifier unit built into the handle. Plugs directly into the nearest 110 volt A.C. outlet to operate.

No. 4016 is an entirely new tool which automatically rotates the drill bit. A suitable clutch mechanism is included to prevent bit breakage in case of binding. It is the fastest cutting hammer made using carbide tipped, spiral drills.

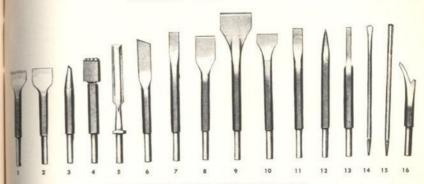
Nos. 2516, 3216 and 4016 have built-in power cooling units.

	Copacity	KW	Length	Weight	Code	Price
No. 1558	5/8"	.155	10"	11 lbs.	ACFGK	\$115
No. 1716	1 1/8"	.355	15"	17 lbs.	AGILO	160
No. 2516	1 1/2"	.620	1534"	22 lbs.	AMNAR	210
No. 3216	2"	1.000	151/2"	25 lbs.	AMOQT	240
No. 4016	2"	1.650	18"	38 1/2 lbs.	ANITA	29

Prices above are for 110 volt, 60 cycle, A.C. units. For 220 volt, add \$10.00. For 50 cycle, 110 or 220 vol add \$10.00. For 25 cycle, 110 or 220 volt add \$20.00.

MILLERS FALLS

ELECTRIC HAMMER TOOLS



HIGH GRADE STANDARD ROUND SHANK TOOLS

Ī	Tool	Fitting No. 1558	Price each	Fitting all others	Price each
1	Buhr Stone Drilling Chisel (Toothed)	No. 1L	\$3.50	No. 1H	\$5.00
2	Buhr Stone Dressing Chisel (Plain)	No. 2L	3.00	No. 2H	4.00
3	Round Nose Chipping Chisel	No. 3L	2.40	No. 3H	3.60
4	Bush Hammer	No. 4L	6.00	No. 4H	8.00
5	1/4 Inch Wood Chisel	No. 5L	6.00	No. 5H	7.00
6	Mortar Cutting Chisel	No. 6L	3.00	No. 6H	4.00
7	Calking Tool	No. 7L	3.25	No. 7H	4.25
8	Scaling Chisel	No. 8L	3.00	No. 8H	3.50
9	Brick Cleaning Chisel	No. 9L	4.00	No. 9H	5.00
10	2 Inch Cutting Chisel			No. 10H	4.00
10 11 12 13	Cold Chisel	No. 11L	2.00	No. 11H	2.50
12:	Stone Point	No. 12L	2.00	No. 12H	2.50
13	Cape Chisel	No. 13L	3.00	No. 13H	4.00
16	Beading Tool	110. 100		No. 16H	5.75

NO. 14 DIAMOND POINT, NO. 15 STAR AND NO. 17 TRI-POINT DRILLS

trigth	77.6	** *	36.*	7/ *	17.5	9/ #	56"	34"
ingth	Diam. 1/4"	5/16"	78	7/16"	1/2"	9/16"	78	74
6"	\$0.55	\$0.55	\$0.55	\$0.55	\$0.60	\$0.60	\$0.70	\$0.85
9.	.60	.60	.60	.60	.70	.70	.85	1.05
2*	.70	.70	.70	.70	.80	.80	.95	1.10
8"	., 0		.85	.85	.85	.85	1.05	1.20
24"			355	1.05	1.05	1.05	1.25	1.40
ength	Diam. 7/8"	1"	11/8"		11/4"	136"	11/2"	2"
2"	\$1.25	\$1.25	\$1.35		2.00	\$2.50	\$3.00	\$5.00
18.	1.45	1.45	1.60		2.50	3.00	4.00	6.00
24"	1.65	1.65	1.80		3.00	4.00	5.00	7.00
	C	Hammer No di	rille are to fit	Tri-point [wills in A inch	and 12 inch le	naths only	

CARBIDE-TIPPED TRI-POINT DRILLS

ting th	Diom. 3/8"	1/2"	56"	34"	7/a*	1.
6"	\$6.00	\$7.00	\$8.50	\$11.00	\$14.00	\$16.00

Carbide-tipped Spiral Drills also available for No. 4016



PARTIAL LIST OF ACCESSORIES

FOR POLISHERS, SANDERS AND GRINDERS

PAGE 122

		Fitting Nos.	Price end
No. 7077	7" Abrasive Discs — fine, medium or coarse	All	***
No. 9099	9" Abrasive Discs — fine, medium or coarse	990	\$0.45
No. 9009	Abrasive Disc Cutter		.55
No. 30231	7 1/2" Carpet Pile Pad	27, 775, 900	8.00
No. 3972	4" Cup Grinding Wheel	775	1,50
No. 3975	6" Cup Grinding Wheel, flored	900, 990	4.00
No. 8093	7" Felt Rubbing Pad	27, 775, 900	5.75
No. 8094	9" Felt Rubbing Pad	990	2.00
No. 705	5" Flexible Pad	27, 775	5.50
No. 507	7" Flexible Pad "D2"	27, 775, 900	6.50
No. 909	9" Flexible Pad "D29"	990	8.00
No. 277	7" Lamb's Wool Bonnet	27, 775, 900	2.30
No. 8098	9" Lamb's Wool Bonnet	990	3.20
No. 22995	7" Sponge Rubber Cushion Pad	27, 775, 900	1.00
No. 9090	Suspension Strap, complete	990	1.00
No. 775	Suspension Spring	990	1.00
No. 4208	3 1/4" Wire Cup Brush, 1/2 or 5/1" Bushing	775, 900, 990	3.25
No. 4207	4 34" Wire Cup Brush, 3/8" Bushing	900, 990	4.30
No. 7678	534" Wire Cup Brush, % Bushing	900, 990	4.85
	%-11" Wire Cup Brush Spindle Nut	775, 900, 990	.50

FOR DRILLS PAGES 110 TO 116

		For Drills Nos.	Price est
No. 88	Auxiliary Side Handle	414, 514, 516, 638	\$ 1.75
No. 1518	Wheel Arbor, 1/2" fitting 1/4" Chucks		,83
No. 1523	Wheel Arbor, 1/2 " fitting 1/2" Chucks		1,70
No. 1524	Feed Screw or "Old Man"	312, 658, 734, 801	6.00
No. 1522	Carbon Cleaning Brush	All	1.2
No. 1034 1/2	1/2" Cap. Jacobs Key Chuck	801	10.00
	3/8" Cap. Jacobs Key Chuck	801	11.00
	34" Cap. Jacobs Key Chuck	801	14.0

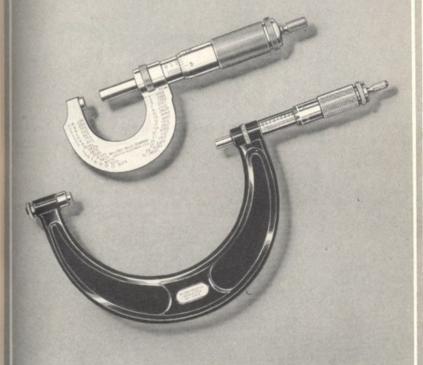
Hole Saws, see pages 95 and 96

FOR BENCH GRINDERS PAGES 109 AND 120

		Grain and Grade	Fitting Nos.	Price ed
No. 1027	1/2" Straight Spindle R.H. Thread only		60,76	\$3.5
No. 536	Taper Thread Spindle R. or L. Thread		60,76	4.1
No. 537	Taper Thread Spindle R. or L. Thread		77	4.4
No. 1039	3/4" Drill Chuck with Spindle		60,76	4.1
No. 1513	1/2" Drill Chuck with Spindle		77	4.5
No. 1519	Grinding Wheel 4 x 1/2 x 1/2"	60-M	60,76	1.
No. 636	Grinding Wheel 6 x 1/2 x 1/2"	36-0	60,76	2.0
No. 660	Grinding Wheel 6 x 1/2 x 1/2"	60-M	60,76	2.0
No. 675	Grinding Wheel 6 x 3/4 x 1/2"	60-M	60,76	2.3
No. 685	Grinding Wheel 6 x 3/4 x 1/2"	36-0	60-76	2
No. 760	Grinding Wheel 7 x 1 x 1/8"	60-M	77	3.0
No. 736	Grinding Wheel 7 x 1 x 3/8"	36-0	77	3.0
No. 1036	Grinding Wheel 10 x 1 x 3/4"	36-0	81	6.
No. 1060	Grinding Wheel 10 x 1 x 3/4"	60-M	81	6.
No. 2036	Grinding Wheel 10 x 1 1/4 x 3/4"	36-0	81	8.0
No. 2060	Grinding Wheel 10 x 1 1/4 x 3/4"	60-M	81	8.0

For Wire Brush Wheels, see page 76

PRECISION TOOLS

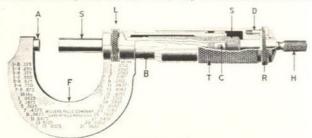






MICROMETER CALIPERS

The micrometer is the precision tool in most general use where measurements in thousandths or even 1/10000 of an inch are necessary. They are made in many styles and capacities for outside, inside, and depth measurements. While their construction is comparatively simple, the utmost care must be used in every step of their manufacture if extreme accuracy and dependability are to be secured. Adjustments for wear must be provided so that the accuracy of the instrument can be maintained.



THE FRAME

The frames (F) are steel forgings of good proportions and designed to secure the strength and rigidity that is essential. In the larger and a few of the smaller sizes the frames are forged in I beam form to secure rigidity without undue weight.

THE BARREL

The barrel (B) carries the threaded steel bushing in which the micrometer or lead screw runs and is part of the forged frame. The threaded bushing has an adjustable collar (C) for taking up any wear at this point. One inch, divided into 40ths, is graduated on the barrel, each graduation representing one revolution of the lead screw.

THE SPINDLE AND LEAD SCREW

The spindle and lead screw (S) in all Millers Falls micrometers is made of one solid piece of very fine tool steel carefully hardened and tempered. It is accurately machined and then allowed to season for months before the lead screw is ground in and the spindle lapped. This precaution is taken to avoid strinkage of the finished screw and spindle. All machine operations are within extreme precision limits on machines specially developed and perfected for the purpose.

THE ANVIL

The anvil (A) is set in the frame in perfect alignment with the spindle. The faces of both the anvil and spindle are lapped with the utmost care so that they are at right angles to their axis and parallel to each other. Proper adjustment for wear of the anvil is provided.

THE THIMBLE

The thimble (T) is rigidly fixed to the lead screw and spindle and fits down over the barrel but does not touch it. The slightest turn of the thimble results in a similar movement of the lead screw. The beveled end of the thimble is graduated into 25 equal divisions.

RATCHET STOP

The ratchet stop (R) mechanism can be easily operated by the thumb and forefinger of the same hand that holds the micrometer. This leaves one hand entirely free for holding the work to be "miked." This new departure from the old practice of combining the ratchet stop with the speeder of



the end of the thimble has proven very popular because it is both convenient and speeds up work. The tension in the ratchet mechanism is nicely adjusted so that when the knurled ratchet ring is turned it ratchets when just the right amount of pressure is exerted on the spindle to give accurate readings. The ratchet stop insures uniformly accurate readings as it entirely eliminates the personal equation.

THE SPEEDER

A knurled handle (H) of small diameter, provided on all outside micrometers, is fixed to the end of the thimble. By turning this speeder between the thumb and forefinger the spindle can be run in or out very rapidly as required.

SPINDLE LOCK

A spindle lock (L) is provided on many sizes. This lock is controlled by turning a knurled nut located in the frame. A slight turn of the nut locks the spindle securely, preserving the setting at any desired point.

ACCURACY, WORKMANSHIP AND FINISH

The extreme care with which Millers Falls Micrometers are made, the special precision machinery used, the highly skilled craftsmen employed, and the pride taken in the product, permit us to recommend and guarantee the accuracy, workmanship and finish of this fine line, no matter how exacting the requirements may be.

HOW TO READ A MICROMETER

To the frame (F) is immovably fixed the barrel (B). On the inside of this barrel is a very accurately threaded bushing with a pitch of 40 threads per inch. The hidden portion of the spindle (S) is also threaded with 40 threads per inch and runs in the nut formed by the barrel (B).

The extreme right end of the spindle (S) is securely fastened to the thimble (T). These are the only moving parts and they move in unison.

An inch of the line on the barrel (B) parallel to its axis is graduated into 40 equal parts corresponding exactly to the threads per inch on the screw of the spindle (S). When the thimble (T) is given one complete rotation the spindle must move just one graduation, or 1, 40 of an inch, which is 25/1000 of an inch. The beveled edge of the thimble (T) is divided into 25 equal graduations; each of these must, therefore, represent 1/25 of 1/40 of an inch, or 1/1000 of an inch. The instrument is so graduated and adjusted that when the face of the spindle (S) just touches the fixed anvil (A) the 0 graduation on the thimble (T) exactly coincides with the 0 graduation on the barrel (B).

To get the measurement between the fixed anvil (A) and the face of the spindle (S), multiply the number of divisions visible on the barrel (B) by 25 and add the number of divisions on the thimble (T) from 0 to the graduation opposite the longitudinal line on the barrel (B).

To facilitate reading, every fourth graduation on the barrel (B) is numbered, 1, 2, 3, 4, etc., the figure representing respectively 0, .100", .200", .300", .400", etc. For the same reason every fifth division on the thimble graduation is numbered.

READING TEN-THOUSANDTHS MICROMETERS

Micrometers that read to one ten-thousandths of an inch have exactly the same graduations as those teading to one-thousandths, with the addition of a vernier reading to 1/10 of the 1/1000 graduations.

There are ten vernier divisions which run the entire length of the barrel (B) and are numbered on the top of the frame, as shown in the cut of the No. 902R. These ten vernier divisions correspond exactly to nine of the divisions on the thimble (T). So that the number opposite the line on the vernier that exactly corresponds with a line on the thimble graduations gives the number of ten-thousandths of an inch the micrometer has been opened beyond the last .001 inch graduation.



NO. 112R MICROMETER



Capacity O to 1 Inch Ratchet Stop Spindle Lock Speeder

The frame of this fine micrometer is made of drop forged steel beautifully polished with decimal equivalents clearly etched on one side. The anvil side is cut away which permits taking many measurements otherwise impossible.

The precision ground lead screw and spindle are made of one piece of fine, carefully hardened tool steel. The lead screw runs in a threaded bushing in the barrel which can be adjusted to compensate for the slightest wear. The smooth action ratchet mechanism is located on the thimble where it can be easily reached by the operating hand. The speeder is located on the end of the thimble. The spindle locking device is set in the frame and is used for preserving a measurement or for setting the spindle when the mike is used as a gauge.

The faces of the anvil and the spindle are precision lapped and tested for exact parallelism to insure uniformity of readings.

Measures from 0 to 1 inch by 1/1000 inch.

Each micrometer packed in a slide cover, lock cornered wood box

NO. 38R MICROMETER HEAD



Capacity O to 1 Inch Ratchet Stop Speeder

These heads can be built into special gauges and fixtures and mounted on machines for making precision measurements, settings or adjustments.

The one-piece precision ground lead screw and spindle, the barrel, thimble, ratchet stop and speeder are exactly the same as used on the No. 112R above.

Range 0 to 1 inch by 1/1000 inch.

No. 38R Copacity Weight 3 ozs.

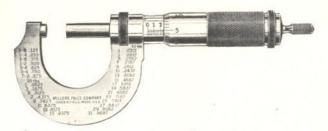
Weight Code Price and \$7.50

Packed one in a box

130



NO. 902R MICROMETER



Capacity 0 to 1 Inch by 1/10000 Inch

The same fine instrument as the No. 112R on the preceding page but provided with a vernier etched on the barrel permitting direct readings in 1/10000 inch when desired. Equipped with ratchet stop, speeder and spindle lock. Decimal equivalents etched on the drop forged frame.

Measures from 0 to 1 inch by 1/10000 inch.

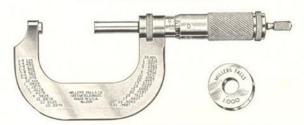
 Capacity
 Weight
 Code
 Price and

 No. 902R
 0 to 1 "
 8 ozs.
 ZIABX
 \$16.00

 Leatherette covered case
 WYDDA
 2.30

Each micrometer packed in a slide cover, lock cornered wood box

NO. 20R MICROMETER



Capacity 1 to 2 Inches Ratchet Stop Spindle Lock Speeder

This is exactly the same fine micrometer as the No. 112R on the preceding page but with larger frame to give a capacity of one to two inches. A precision ground, one inch disc standard, as illustrated, is supplied with each micrometer for checking the setting whenever desired.

Measures from 1 to 2 inches by 1/1000 inch.

Copacity
1 to 2"

No. 20R

Weight 12 ozs. Code WYUHM WYUSY \$15.00 2.95

Leatherette covered case WYUS'

Each micrometer packed in a slide cover, lock cornered wood box



OUTSIDE MICROMETERS



Forged Frames Ratchet Stops Spindle Locks Speeders

This new line of micrometers with ebony enameled, drop forged steel frames combines every feature desirable to make it the finest of its type.

The design of the frame gives great rigidity and strength. The anvil side is cut away to permit measurements in confined spaces.

The precision ground and hardened lead screw and spindle are made of one piece of fine tool steel. The sensitive ratchet stop is on the thimble within easy reach for one hand "miking." The speeder is located on the end of the thimble while the spindle lock is set in the frame.

The faces of the anvil and spindle are precision lapped to exact parallelism. Proper adjustments for the slightest wear are provided.



0 TO 1 INCH MICROMETER

Specificati	ons as a	above.	Measures	from 0 to
1 inch by	1/1000	inch.		
No. 701R		Weight 6 ozs.		\$10.50
Leatherette	covered o	ase	WYDDA	2.30

1 TO 2 INCH MICROMETER

Specifications as above. Measures from 1 to 2 inches by 1/1000 inch.

Capacity Weight Code Price soft No. 712R 1 to 2" 10 ozs. KABUW \$11.50

Leatherette covered case WYUSY 2.95

2 TO 3 INCH MICROMETER

Specifications as above. Measures from 2 to 3 inches by 1/1000 inch.

Copposity Weight Code Price each No. 723R 2 to 3" 12 ozs. KABYZ \$12.50

Leatherette covered case WYNRO 5.50

3 TO 4 INCH MICROMETER Specifications as above. Measures from 3 to

4 inches by 1/1000 inch.

Coposity Weight
No. 734R 3 to 4" 11/s lbs.
Leatherette covered case WYVUV 6.30

4 TO 5 INCH MICROMETER

Specifications as above. Measures from 4 to 5 inches by 1/1000 inch.

Capacity Weight Code Price soft Start Start

5 TO 6 INCH MICROMETER

Specifications as above. Measures from 5 to 6 inches by 1/1000 inch.

No. 756R 5 to 6" 1½ lbs. KACEF \$15.75 Leatherette covered case WYPIR 8.20

Cases are made on a wood frame nicely lined with plush and covered with imitation leather. Substantial lock and hinges. Each of the above micrometers packed one in a slide cover, lock cornered wood box. Weights given are shipping weights.



OUTSIDE MICROMETERS

Drop Forged Frames Decimal Equivalents Speeders

The ebony enameled, drop forged frames of these micrometers are ribbed for maximum strength and rigidity without undue weight. They have the cutaway feature on the anvil side.

The precision ground lead screw and spindle are made from tool steel carefully hardened. The lead screw runs in an adjustable threaded bushing in the barrel. The thimble has decimal equivalents dearly stamped on it and a speeder is provided on its end.

The faces of the anvil and spindle are precision lapped to exact parallelism.

0 TO 1 INCH MICROMETER

Specifications as above. Measures from 0 to 1 inch by 1/1000 inch.

	Capacity	Weight	Code	Price each
No. 701	0 to 1"	6 ozs.	KEBAS	\$8.50
Leatherette	covered case		WYDDA	2.30

1 TO 2 INCH MICROMETER

Specifications as above. Measures from 1 to 2 inches by 1/1000 inch.

No. 712	Copacity 1 to 2"	Weight 10 ozs.	Code KEBEM	\$9.50
Leatherette	covered cas		WYUSY	2.95

2 TO 3 INCH MICROMETER

Specifications as above. Measures from 2 to 3 inches by 1/1000 inch.

No. 723	Copocity 2 to 3"	Weight 12 ozs.	Code	\$10.50
Leatherette	covered cas	e	WYNRO	5.50

3 TO 4 INCH MICROMETER

Specifications as above. Measures from 3 to 4 inches by 1/1000 inch.

No. 734	Capacity	Weight	Code	Price each
A STATE OF THE PARTY OF THE PAR	3 to 4"	1 1/8 lbs.	KEBOL	\$11.50
Leatherette	covered ca	se	WYVUV	6.30

4 TO 5 INCH MICROMETER

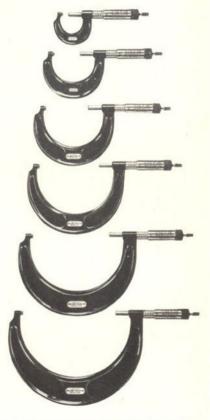
Specifications as above. Measures from 4 to 5 inches by 1/1000 inch.

No. 745	Capacity 4 to 5"	Weight 1 3/8 lbs.	Code KEBUF	\$12.75
Leatherette	covered ca	se	WYPIR	8.20

5 TO 6 INCH MICROMETER

Specifications as above. Measures from 5 to 6 inches by 1/1000 inch.

	Copacity	Weight	Code	Price each
No. 756	5 to 6"	1 1/2 lbs.	KEBYD	\$13.75
Leatherette	covered ca	se	WYPIR	8.20



MILLERS FALLS

Cases are made on a wood frame nicely lined with plush and covered with imitation leather. Substantial lock and hinges. Each of the above micrometers packed one in a slide cover, lock cornered wood box. Weights given are shipping weights.

133

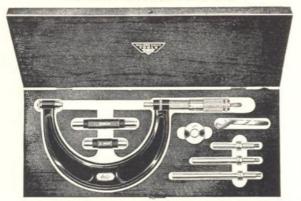


New

No. 704R

No. 563

NO. 704R MICROMETER SET



Capacity O to 4 Inches Ratchet Stop Spindle Lock Standards

The frame of this wide range micrometer is drop forged steel proportioned and ribbed for maximum strength and rigidity.

The spindle and precision ground lead screw are made of one solid piece of fine tool steel carefully hardened and tempered. It runs in a threaded bushing in the barrel which has a fine adjustment to compensate for the slightest wear. The thimble is equipped with a sensitive, smooth-acting ratchet stop mechanism and a speeder. The spindle locking device is operated by a knurled ring set in the frame.

Four interchangeable anvils which are held in the frame by a knurled thumb nut are supplied. The faces of these anvils and the spindle are precision lapped to exact parallelism. Three precision standards, described below, are also provided for checking the mike when anvils are changed.

Frame nicely black enameled, all other exposed metal parts beautifully polished.

Measures from 0 to 4 inches by 1/1000 inch.

Connective

Capacity
0 to 4"

OYLUY

Weight 3 lbs. Code YEMOX \$25.70

Each set packed in a handsome walnut case



3" rod

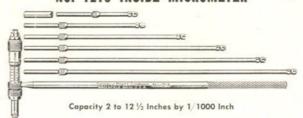
NO. 563 MICROMETER STANDARDS

These standards are made of tool steel, hardened and polished. The one inch standard is a round disc. All other sizes are rods with their faces precision lapped. The rods are equipped with hexagonal hard rubber grips to protect them from body heat and prevent rolling.

Price each		Capacity	Code	Price each
\$2.00	No. 563	4" rod	YUKAV	\$3.20
2.50	No. 563	5" rod	YUKCY	3.50
3.00	No. 563	6" rod	YUKEP	3.75

MILLERS FALLS
TOOLS

NO. 1218 INSIDE MICROMETER



The head of this fine instrument is provided with a precision ground and hardened spindle and lead save with a $\frac{1}{2}$ inch run. Seven easily interchangeable rods with hardened anvils in one end are provided. These anvils are adjustable to compensate for the slightest wear. The shanks of the rods are slipped directly into the end of the spindle until the collar comes to a positive seat. This contact can be easily kept free from dirt or dust and is a valuable feature for that reason. The rods are locked by tightening the knurled chuck nut.

Two hardened steel collars, exactly $\frac{1}{2}$ and 1 inch in length, that slip over the shanks of the rods are provided and are used in various combinations. Two sets of graduations are provided on the barrel so that direct readings can always be made no matter what combination of rods and collars are in use. Complete instructions are packed with each micrometer. A long handle that screws into the head is provided for making measurements otherwise inaccessible.

Entire tool beautifully polished.

No. 1218 leatherette case Capacity
2 to 121/2"

Weight 3/4 lb.

ZISTA ZISTO \$14.50 5.05

Packed one micrometer in a wood box

MICROMETER DEPTH GAUGES

Capacity 0 to 3 Inches by 1/1000 Inch

Designed to make accurate measurements of the depth of holes, slots, shoulders and projections. The spindle has a full one-inch movement and is graduated to read by 1/1000 inch.

Three measuring rods with hardened ends, carrying an adjusting device to compensate for wear, give a capacity of 0 to 3 inches. The rods are inserted through a hole in the lead screw by removing the knurled end nut on the thimble. They are brought to a positive bearing against a finished seat on the end of the lead screw. This gives a positive end contact that does not depend on any device liable to be lost or worn and without rods projecting above the top of the thimble.

The base is 17/32 inch wide, hardened, ground and accurately hand lapped at right angles to the rods.

CONTRACTOR OF THE PROPERTY OF	9		
Capacity	Weight	Code	Price each
0 to 3"	6 ozs.	YAALC	\$12.50
0 to 3"	8 ozs.	YAAWN	16.00
		YAASK	3.05
		YABIT	3.70

Packed one depth gauge in a wood box

Extra set of 3 rods for measurements 3 to 6 inches Extra set of 6 rods for measurements 6 to 12 inches

21/2

3.75 10.50

Leatherette case for No. 31

Leatherette case for No. 32

No. 31

No. 32



PRECISION STEEL RULES

The standards to which all Millers Falls Rules are made are among the finest in existence, and are checked at intervals with the standards of the United States Bureau of Standards at Washington, Every Millers Falls Rule is as perfect a reproduction of these standards as skilled mechanics and precision machinery can produce, and we guarantee them to be as close to absolute accuracy as it is

The steel used is a fine quality of carefully heat-treated crucible steel. They are ground and polished to a beautiful satin finish, and precisely graduated on dividing engines developed and perfected over a period of nearly sixty years by our own engineers. The graduation lines are of different lengths and sharply and uniformly etched, making them very easy to read correctly. The figures are deeply etched, of good size, and shaded for legibility.

Light and semi-flexible tempered rules and square blades are graduated on all four edges in No. 4 graduation — 8ths, 16ths, 32nds and 64ths of an inch. Flexible and narrow rules and depth gauge blades are graduated on two edges in No. 10 graduation — 32nds and 64ths of an inchexcept No. 106.

LIGHT TEMPERED RULES

шконпа кискипа « 4 1 (сооп. Рынго. 9 6 км желем вим желем	Germent Q	Mate: 115 4 A	CONTRACTOR COST M.	Joseph St. P.
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Numbered for Quick Reading

Graduated full length in 8ths and 16ths of an inch on one side and 32nds and 64ths of an inch on the other. For fast, positive reading the 32nds and 64ths graduations are numbered every 8th of an inch. No end graduations.

No. 866 No. 866 No. 866	12" 18"	Width 3/4" 1" 1"	Thickness 1/20" 1/16" 1/16"	Weight Box 6 ½ ozs. 19 ozs. 27 ozs.	ZEPUL ZEPAT ZEPON	\$1.20 2.15 3.30
			Packed six in a b	xox		

SEMI-FLEXIBLE TEMPERED RULE



Graduated full length on four edges in 8ths, 16ths, 32nds and 64ths of an inch. No. 253 is end graduated in 32nds of an inch.

No. 253 No. 255	6" 12"	5/8" 3/4"	Thickness 1/50 " 1/50 "	Weight Box 3 ozs. 6 1/2 ozs.	Code YIAWY YIBCA	\$1.20 2.00
			Parkad siv in - b-			

FLEXIBLE TEMPERED RULE

T Miller Falls Co. 2 General More 3	EMPORE 4- New MACA 5 No. 10 PE
The first content of the content of	Acongress and a feet to a feet in the construction of the construc

Graduated full length on two edges, on one side only in 32nds and 64ths of an inch. Ends graduated a 32nds of an inch.

	Length	Width	Thickness	Weight Box	Code	Price each
No. 264	6"	5/8"	1/100"	1 1/2 ozs.	YICFE	\$1.20
			Packed six in a b	ox		

NARROW TEMPERED RULE

Graduated full length in 32nds of an inch on one side and 64ths of an inch on the other.

	Length	Width	Thickness	Weight Box	Code	Price each
No. 274	6"	1/4"	1/20"	2 1/4 ozs.	YIDGE	\$1.20
			Packed six in a	box		

TEMPERED HOOK RULE



Numbered for Quick Reading

For taking measurements over rounded corners, through the hubs of wheels or pulleys, or for setting dividers, or inside calipers and many other uses. The hardened steel hook is locked on by an eccentric bolt and can be easily removed if desired. Graduated full length in 8ths and 16ths of an indonone side and 32nds and 64ths of an indo on the other, with graduations numbered at every 8th of an indo.

8th of an in	ch.					
	Length	Width	Thickness	Weight Box	Code	Price each
No. 966	6"	3/4"	1/20"	1 1/2 ozs.	ZIJJO	\$1.85

NARROW HOOK RULE



The hardened hook can be easily removed by giving the eccentric stud one half turn. Graduated in 32nds of an inch on one side and 64ths of an inch on the other.

	Length	Width	Thickness	Weight Box	Code	Price each
No. 771	6"	3/8"	1/20"	1 1/4 ozs.	ZEAMD	\$1.80
			011	1		



NO. 106 FLEXIBLE STEEL RULE



A high grade, flexible six inch steel rule made of carefully heat-treated crucible steel with a fine ground satin finish on all faces. It is precision graduated on two edges in 16ths and 32nds of an inch. The figures are deeply etched and shaded for quick, easy legibility. Each rule is mounted on a card printed in red and black and packed in a cellophane envelope to protect it from moisture.

No. 106	Length 6"	Width 5/8"	Thickness 1/100"	Weight Box 4 ozs.	Code WYUVA	Price each
			Packed six in a b	OX		40.00

NO. 20 VEST POCKET RULE

An extremely convenient, six inch precision steel rule for carrying in the vest pocket. It is equipped with a pocket clip which also acts as a base so that the rule can be used as a depth gauge.

Nicely finished and engine graduated. Both graduations and figures deeply etched for easy reading.

Graduated in 32nds of an inch on one side and 64ths of an inch on the

Each rule mounted on a card, as illustrated, and packed in a moistureproof cellophane envelope.

No. 20	Length 6"	Width 1/4 "	Thickness 1/20"	Weight Box 4 ozs.	Code WYUCH	Price each \$0.50
			Packed six	in a hav		



21/2"

No. 222

NO. 222 DOUBLE STEEL SQUARE

A precision toolmaker's square with three interchangeable blades that slide their entire length in the solid steel beam. The two wide blades can also be reversed so that the graduations can be placed on either side of the beam and the angles faced either up or down. Blades are locked at any desired position by turning the knurled thumb nut on the bottom of the beam.

The 21/2 by 1/2 inch blade is graduated in 32nds of an inch on one edge and 64ths of an inch on the other. The beveled blade is ground to 30° at one end and 45° at the other. The narrow blade is 21/2 by 1/8 inch. All parts have a fine satin polished finish, clear etched graduations and figures.

> 3 ozs YISCO

\$5.20

Weight Box 1 1/2 ozs.

Code YOMAS

000

Price each \$0.75

88 3

SLIDE CALIPER RULES





MILLERS FALLS

The most popular and convenient measuring device available. Precision built in every detail it can be used as an ordinary rule or as an outside or inside caliper providing direct readings of the measuresent taken. The rule graduations in 32nds of an inch are etched on one edge and the outside and mide graduations on the slide are in both 32nds and 64ths of an inch.

The slide can be locked at any point by tightening the knurled lock nut which is easily controlled by the thumb of the hand that holds the tool,

Nicely polished to a satin finish with clear, etched graduations and figures.

			Minimum Inside			
1000000	Length	Depth of Jaws	Measurement	Weight	Code	Price each
No. 303	3 "	11/16"	1/8"	2 ozs.	YIHLU	\$5.25
No. 305	5"	1 7/16"	1/4"	4 ozs.	YIHTO	6.50

NO. 80 RULE DEPTH GAUGE

he three inch steel base of this highly useful tool is precisely ground and icely polished. A vertical slot machined at 90° to the base accommolates the narrow tempered rule which is graduated on one side in 32nds and 64ths of an inch on the other. This rule runs through a friction pring-controlled clamp screw controlled by a knurled thumb nut on the everse side.

By loosening the nut the rule is freed and can be either run up or down he slot, or pivoted to any angle and used as an angle gauge. For be purpose the base is accurately etched in angle graduations for 30°.

5	, and	60° angles,	both right	and left.			,	
	80	Length Rule	Width	Bose 3"	Weight 2 ozs.	Code YAPUL	Price each \$2.50	(
			Packer	d one in a	box		100	

TEMPERED CENTER GAUGE



hade of tempered crucible steel, ground and lapped to a light-tight fit with a 60° standard for Prinding and setting screw cutting tools, Graduated on four corners in 14ths, 20ths, 24ths and 32nds of an inch for the number of threads per inch.

No. 438

Angle

Packed six in a box



BENCH PLANES

This Smooth Plane and Jack Plane are good tools, capable of first class performance and are the equal of most standard planes. They do not embody all of the features of the preceding Millers Falls Planes and the overall finish is not so high which permits their being offered at a lower price.

SMOOTH PLANE



Depth and side adjustment of iron. Cutters one solid piece of tool steel. Bottom and sides polished. Inside of bottom, lever cap, and frog black enameled. Knob and handle black enameled hardwood. Furnished with smooth bottom only.

No. 900

Length 9 "

Width Iron

Weight 4 lbs.

Code ETDES Price each \$3.40

Packed one in a box

JACK PLANE



Depth and side adjustment of irons. Cutters one solid piece of tool steel. Bottom and sides polishedlnside of bottom, lever cap, and frog black enameled. Knob and handle black enameled hardwood. Furnished with smooth bottom only.

Packed one in a box

No. 814 Length

1

Width Iron

Weight 4 ¾ lbs.

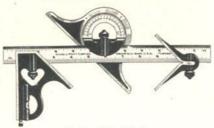
ETGOK

\$4.30

BIT **BRACES** MILLERS FALLS ROSE TOOLS, INC.



COMBINATION SETS



Hardened Steel Blades

These useful precision tools are essential to every machinist and toolmaker. They perform the functions of a wide variety of specialized tools. They can be used as a square, a depth gauge, a mitre, a rule, a protractor and a center finder all in one. They are provided with a beam equipped with a small level and a scriber, a precision protractor fully described on the following page, and a centering head. These can be moved and locked to any desired point on the blade or removed entirely.

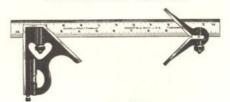
The tempered blade is precision graduated; all graduation lines and figures being clearly etched and given a fine ground satin finish. The beam, protractor and centerhead have precision ground working faces and polished edges and ebony enameled webs.

Blade precision graduated on four edges in 8ths, 16ths, 32nds and 64ths of an inch.

	Length Blade	Weight	Code	Price each
No. 390	9"	1 1/2 lbs.	YOERZ	\$8.30
No. 391	12"	1 5/8 lbs.	YOEVD	9.00

Packed one set in a box

COMBINATION SOUARES



Hardened Steel Blades

This is the same fine square as above but without the protractor which can be added whenever desired. The working faces of the beam and centerhead are precision ground, the edges polished and the webs ebony enameled. The blade is tempered steel with a fine satin finish.

Blade precision graduated on four edges in 8ths, 16ths, 32nds and 64ths of an inch

blude pr	ecision graduated on tour	eages in onis, rollis, c	zinas ana 04ms or an mor.	52.40°
	Length Blade	Weight	Code	\$4.00
No. 361	6"	3/4 lb.	YIZYH	5.00
No. 362	9*	1 lb.	YOAGM	6.00
No. 363	12"	1 1/2 lbs.	YOAHN	0.0
		Packed one in a box		

140



COMBINATION SQUARES



Hardened Steel Blades

These are the same precision squares as shown on the preceding page but without protractor head or centerhead. The beams, equipped with a level and a scriber, have precision ground working faces with polished edges and ebony enameled webs. The blades are tempered, precision graduated and clearly etched.

Blade precision graduated on four edges in 8ths, 16ths, 32nds and 64ths of an inch.

No. 371 No. 372 No. 373	Length Blade	Weight	Code	Price each
No. 371	6*	5/a lb.	YOBJE	\$3.00
No. 372	9"	3/4 lb.	YOBLO	4.00
No. 373	12"	7/a lb	YOBOL	4.60

Packed one in a box

BEVEL PROTRACTORS



Hardened Steel Blades

These protractors have a smooth action turret head precisely graduated from 0° to 90°, right and left, for a total of 180°. It can be set at any desired angle within this range. A small level is mounted on one side which makes it possible to determine angles to the horizontal and adds greatly to the vefulness of the tool. They are provided with satin finish, precision graduated and etched blades to which they can be locked at any point.

No. 180 Protractor Head only fits the blades on the foregoing squares.

ROSE TOOLS, INC.

The hardened blades are graduated on four edges in 8ths, 16ths, 32nds and 64ths of an inch.

	Length Blade	Weight	Code	Price each
No. 180	Protractor Head Only	5/a lb.	YEJEG	\$4.00
No. 181	9 " complete	7/a lb.	YEJJO	5.75
No. 180 No. 181 No. 182	12 " complete	1 lb.	YEJUK	6.40
	ASSESSMENT OF THE PARTY OF THE			

Packed one in a box



SPRING CALIPERS AND DIVIDERS

The pages immediately following show a very fine line of outside and inside calipers and dividers. They are designed to meet the most exacting requirements of skilled machinists and toolmakers.

The stock used is a fine grade of hard crucible steel. All edges are nicely rounded and the entire tool ground and polished to a beautiful finish.

The legs are nicely tapered and the shape of the points developed for maximum accuracy in calipering of every description and for transferring measurements to or from a micrometer or steel rule within very close limits. Inside caliper legs are shaped to permit their use in unusually small spaces. Divider points are nicely tapered and carefully hardened and tempered.

Precisely machined and hardened screws are used on all spring calipers and dividers. The nuts are of two types, "solid" and "quick," both of which are hardened. Solid nuts are of ordinary construction. The threaded portion of quick nuts is made in two parts which are spread apart by a small spring when the pressure of the leg is removed. This disengages the threads and the nut can then be slipped over the entire length of the screw or any portion of it very rapidly and without turning it. The instant the leg is allowed to press against the nut it engages the screw thread again and the final adjustment is made by turning the nut in the usual manner.

Side deflection in calipers or dividers destroys their value for precise work, and the greatest care is used to eliminate it from these spring calipers and dividers. Accurately machined and hardened steel spools or fulcrum studs with a good wide face are used and the bearings in the legs are carefully fitted to them. These are held in close contact by stiff, heat-treated steel springs, making a very rigid tool.

Spring dividers have a finely knurled handle riveted to the spring to facilitate the describing of arcs and circles.

SPRING DIVIDERS



No. 500	3 "	1/4 lb.	TLAUY	\$1.50
No. 500	4"	3/8 lb.	YUASE	1.65
No. 500	5"	1/2 lb.	YUBAM	1.75
No. 500	6"	3/4 lb.	YUBIP	1.85
No. 500	8"	1 lb.	YUBNA	2.25
No. 500	10"	1 1/2 lbs.	YULYE	2.50
No. 500	12"	1 3/4 lbs.	YUMAY	2.70
	9	WITH QUICK NU	Г	
	Size	Weight Box	Code	Price each
No. 600	3"	1/4 lb.	YUVNY	\$1.75
No. 600	4"	3/a lb.	YUVUM	2.00
No. 600	5"	1/2 lb.	YUWAJ	2.10
No. 600	6"	3/4 lb.	YUWIL	2.20
No. 600	8 "	1 lb.	YUWYP	2.50
No. 600	10 "	1 1/2 lbs.	ZAHZY	3.00
No. 600	12"	1 3/4 lbs.	ZAIFS	3.50

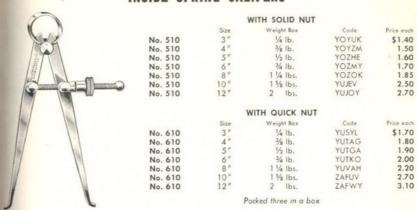
WITH SOLID NUT

Price sock

Packed three in a box



INSIDE SPRING CALIPERS



OUTSIDE SPRING CALIPERS

		WITH SOLID N	UT		6	1
	Size	Weight Box	Code	Price each	((M
lo. 520	3 "	1/4 lb.	YOWEF	\$1.40	V -	2/
lo. 520	4 " 5 "	3/8 lb.	YOWIG	1.50	Med	10
lo. 520	5 "	1/2 lb.	YOWOH	1.60	15711	<i>[6]</i>
lo. 520	6"	3/4 lb.	YOWYK	1.70	53 \	-21
lo. 520	8"	1 3/8 lbs.	YOYFA	1.85	175	100
lo. 520	10 "	1 5/8 lbs.	YUHET	2.50	1	7
lo. 520	12"	2 lbs.	YUHSA	2.70		1
		WITH QUICK N	UT			1
	Size	Weight Box	Code	Price each	100	
lo. 620	3"	1/4 lb.	YURAD	\$1.70	100/	
10. 620	4"	3/8 lb.	YURFE	1.80		
lo. 620	5"	1/2 lb.	YURIG	1.90	1091	
lo. 620	6"	3/4 lb.	YURUJ	2.00	[77]	
lo. 620	8"	1 3/8 lbs.	YUSEG	2.20	lin l	
lo. 620	10"	1 5/8 lbs.	ZADVY	2.70	In I	
lo. 620	12"	2 lbs.	ZADYV	3.10		
	F	acked three in a	box			
						6

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HERMAPHRODITE SPRING CALIPERS

Design and construction same as the outside and inside types. Legs nicely shaped and tapered. Divider leg hardened and nicely pointed. Hardened spools and screws. Powerful tempered springs. Finely polished finish.

		WITH SOLID NUT		
	Size	Weight Box	Code	Price each
No. 530	3"	1/4 lb.	YUFER	\$1.40
No. 530	4"	3/€ lb.	YUFTO	1.50
No. 530	5"	1/2 lb.	YUFWY	1.60
No. 530	6"	3/4 lb.	YUGAR	1.75
		WITH QUICK NUT	P	
	Size	Weight Box	Code	Price each
No. 630	3 "	1/4 lb.	ZACRO	\$1.65
No. 630	4"	3/8 lb.	ZACTY	1.80
No. 630	5"	1/2 lb.	ZACUS	1.95
No. 630	6"	3/4 lb.	ZACYT	2.10
	P	acked three in a box	K	



SURFACE GAUGES

These gauges embody all the most desirable features in a tool of this kind but still are very moderately priced. They are well built in every detail and nicely finished.

The heavy gray iron base, 3'' by $2\frac{1}{2}''$ by $\frac{7}{8}$ ", is carefully ground for use on a surface plate and also grooved for use on cylindrical surfaces. All working faces are ground. Two frictional gauge piral located at the rear can be depressed to bear against the edge of surface plates, slots of planers and similar uses.

The spindle slides through a spring tensioned binder head with a knurled thumb screw control. This is pivoted on the base and provided with a screw for fine height adjustment. The spindle can be set at almost any angle or even turned down through the slot in the front of the base for use as a depth gauge or it can be dropped down through the binder head and the marker on its lower end used as a scratch gauge.

The scriber, six inches long, is carried in a head with spring control which holds it at any desired height on the spindle. It can be locked by merely tightening the knurled thumb screw. For work close to the surface plate the spindle can be removed and the scriber used in the main binder head.

	Weight	Code	Price each
61/8"	2 lbs.	ZAYLE	\$5.00
101/4"	2 1/8 lbs.	ZEYGD	5.50
			2 1021

Packed one in a box



THICKNESS GAUGES

These gauges are used extensively in airplane and automobile maintenance and repair for such operations as setting spark gaps, distributor points and tappet clearances, determining piston and regular dearances, etc. Also very generally by toolmakers and machinists in jig and fixture, gauge and regular work, shimming and experimental uses.

The leaves are made of fine, tempered steel, individually tested to very close limits and well finished.

They are assembled in cases with heavy steel side plates and studs, held together by screws or rivets at the case may be. Thicknesses are clearly etched on each leaf.





NO. 6 THICKNESS GAUGE - SIX 2 %" LEAVES

consists of six leaves $2\frac{1}{2}$ (6" long, $\frac{1}{2}$ " wide and .002, .003, .004, .006, .008 and .010 inch thick.

SECURITY OF	Length Leaves	Width	Weight Box	Code	Price each
10.6	2 3/16"	1/2"	3/8 lb.	WYGDE	\$0.50
10000		Packe	d six in a box		

NO. 9 THICKNESS GAUGE - NINE 3 1/16" LEAVES

Ensists of nine leaves $3 \frac{1}{6}$ long by $\frac{1}{2}$ wide and .0015, .002, .003, .004, .006, .008, .010, .013, and .020 inch thick. The case is assembled with rivets.

-	Length Leaves	Width	Weight Box	Code	Price each
No. 9	3 1/16"	1/2"	1/2 lb.	WYIFO	\$0.75
		Packed	six in a box		
		1/20	170/		
		12970	222		



NO. 25 THICKNESS GAUGE - TWENTY-FIVE 2 1/6" LEAVES

Consists of twenty-five leaves 2 %'' long by $\frac{1}{2}$ " wide and .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024 and .025 inch thick. The case is assembled with rivets.

lo. 25	Length Leaves 2 5/6"	Width 1/2"	Weight Box 1 lb.	Code WYZCY	\$1.60
		Packed	six in a box		



THICKNESS GAUGES

These are the same precise, well-made gauges as described on the preceding page but with sarew studs at the leaf end of the case to permit easy replacement of leaves or adjustment of the tension





NO. 19 THICKNESS GAUGE - NINE 3 1/16" LEAVES

Consists of nine leaves 3 $\frac{1}{6}$ " long, $\frac{1}{2}$ " wide and .0015, .002, .003, .004, .006, .008, .010, .012 and .015 inch thick.

Length Leaves 3 1/16 "

1/2"

Weight Box of Six 1/2 lb.

WYROL

Price each \$1.60

NO. 22 THICKNESS GAUGE - TWENTY-TWO 2 1/6" LEAVES

Consists of twenty-two leaves 2 %" long, ½" wide and .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024 and .025 inditick.

No. 22

Length Leaves 2 1/16"

3 1/16"

Vidth

Weight Box of Six

Code WYVUT

Price each

NO. 926 THICKNESS GAUGE - TWENTY-SIX 3 1/16" LEAVES

Consists of twenty-six leaves 3 ½6" long, ½" wide and .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024 and .025 inch thick

Length Leaves

No. 926

Width 1/2"

Weight Box of Six 1 % lbs.

Code WYWAR Price each \$4.00

NO. 100 THICKNESS GAUGE STRIPS

0.013 GOODELL PRATT COMPANY GERENIEL BASS U.S.A. .013

These convenient strips are available in twenty-six different thicknesses. They are 12'' long and 1/2'' wide. Each strip is individually tested and held within very close tolerances. They are nicely finished and the thickness of each strip is clearly etched into the steel at two points. The ends are rounded and carefully finished for accuracy.

			Code:	WYUTO			
Thickness	Price each	Thickness	Price each	Thickness	Price each	Thickness	Price each
.0015	\$0.40	.007	\$0.25	.013	\$0.25	.019	\$0.25
.002	.40	.008	.25	.014	.25	.020	.25
.0025	.40	.009	.25	.015	.25	.021	.25
.003	.40	.010	.25	.016	.25	.022	.25
.004	.30	.011	.25	.017	.25	.023	.25
.005	.30	.012	.25	.018	.25	.024	.25
.006	.30				.23	.025	.25
		Parkad six in a subst	ti-l t-l t				1

acked six in a substantial telescope box. Average weight per box 31/2 ounces



SCREW PITCH GAUGES

Designed for quickly and positively determining the pitch of screw threads. The teeth milled on the thin blades are the exact profile of a standard screw thread, each leaf being numbered with its own particular pitch. To determine the pitch of a screw try successive leaves of the gauge until the one is found which meshes perfectly with the thread. The pitch can then be read directly from the leaf.

The leaves are shaped so that they can be inserted into tapped holes for gauging internal threads as well as external. The leaves not in use can be folded into the handle.

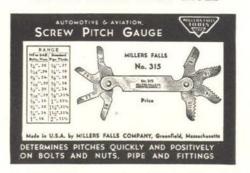


No. 135 has 22 pitches for V-threads, as follows: 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38 and 40. Length of leaves, 1 inch.

No. 436 has 30 pitches for V-threads, as follows: 4, 4 1/2, 5, 5 1/2, 6, 7, 8, 9, 10, 11, 11 1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42. Length of leaves, 1 1/8 inches.

	No. Leaves	Length Leaves	Code	Price each
No. 135	22	1 "	YECUD	\$1.40
No. 436	30	1 1/8"	YOLVO	1.75
		0 1 1 1 1 1		

NO. 315 SCREW PITCH GAUGE



A popular priced gauge with eight leaves, covering all National Fine (NF) or SAE threads from ¼ inch-28 to 1 inch-14 and Standard Pipe threads from ½ inch-27 to 2 inches-11½. In other words, all the standard threads both NF or SAE and Pipe used in the automotive and aviation fields.

Each gauge mounted on a card printed in red and black as illustrated.

No. 315

No. Leaves

Weight Box 6 ozs.

147

Code WIBAL Price each

Packed six in a box



SCRIBERS



NO. 75

The body of this tool is made of finely knurled steel tubing with a chuck which holds the finely drawn, tempered scriber point securely. The point can be removed and reversed for complete protection when not in use.

No. 75

23/8"

Overall 4 7/8"

Weight Box 3 ozs.

YAJRA

\$0.60

\$0.50

.55

.60

Packed six in a box

NO. 58

NOS. 61 and 62

Made of fine grade, round steel with beautifully tapered points carefully tempered, ground and polished. The central body is nicely knurled to give a sure grip. Points in Nos. 61 and 62 are replaceable. Price each

No. 61 No. 62 Double

Length 41/2" 61/2"

Weight Box

4 ozs. 5 ozs. 6 ozs. YAHOC YAIGZ YAIJA

Packed six in a box

NO. 440 SPEED INDICATOR



A very useful, easily operated indicator selling at a low price and having many sterling features.

The fixed dial is graduated both ways so that the speed of clockwise or counterclockwise shafts can be read directly. The rotating dial is quickly set to 0 by merely turning the knurled thumb screw to the left and tightening after the setting has been made.

The mechanism consists of a burnished worm cut on the steel spindle which drives the worm geaf operating the recording dial. The spindle is hardened and the contact pressure is taken up on a ball thrust bearing. Two rubber tips are furnished, one for centered and one for plain or pointed

Complete instructions for setting and reading with each indicator.

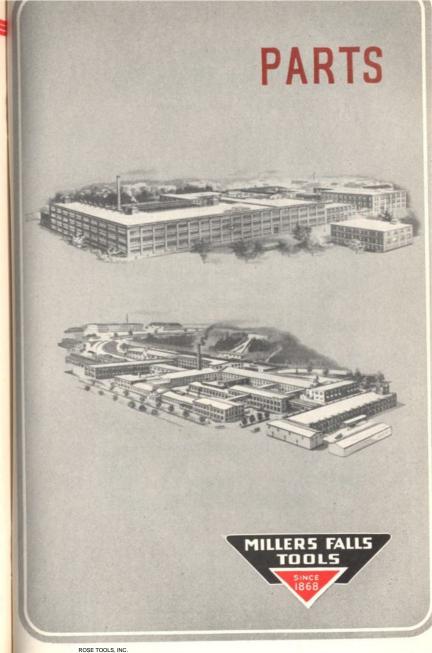
Entire tool polished and nickel plated.

No. 440

41/4"

Weight 6 ozs. Packed one in a box

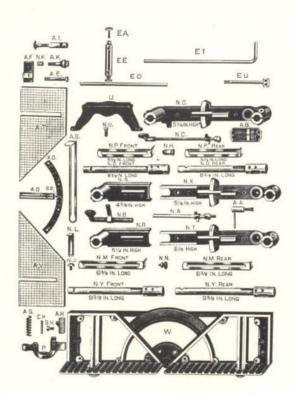
Code YOMOB Price each \$1.75





PARTS FOR LANGDON ACME MITRE BOXES

Nos. 68 to 75 and Nos. 71A to 75A





PARTS FOR LANGDON ACME MITRE BOXES

Nos. 68 to 75 and Nos. 71A to 75A

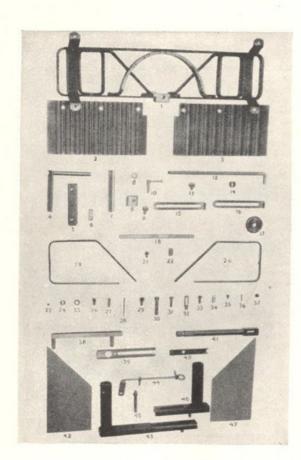
	For Bo	ixes Nos.	Price eac
Binder	71.75	71A-75A	\$0.15
Index Plate	68-75	71A-75A	
Gib	68-75	71A-75A	
Gib Screw	68-75	71A-75A	
Binding Strap	68-75	71A-75A	
Spring	68-75	71A-75A	
Stop Lever Strap		71A-75A	
Stock Rest		71A-75A	
King Bolt		71A-75A	
Length Gauge			
Length Gauge, complete		71A-75A	
Right Hand Bottom Board		71A-75A	
Left Hand Bottom Board		71A-75A	
Stop Lever Strap Screw		71A-75A	
Stop Lever Pin		71A-75A	
Length Gauge Link Screw (2)		71A-75A	
L.G. Link with Screws		71A-75A	
Length Gauge		71A-75A	
L.G. Guide Rod		71A-75A	
L.G. Lock Screw		71A-75A	
Stop Lever Rod		71A-75A	
Thumb Lever		71A-75A	
Thumb Stop Lever			
Saw Guide (Front)		71A-73A	
Saw Guide (Profit)		71A-73A	
Elevator			
Guide Stop Screw		71A-75A	
		71A-75A	
King Bolt Stop Screw		71A-75A	
Guide Stop		71A-75A	
Stop Gauge (Front and Rear)		74A-75A	
Stop Gauge Thumb Screw		71A-75A	
Swinging Lever			4.0
Stop Gauge (Front and Rear)		71A-73A	
Sliding Front Post		74A-75A	
Sliding Front Post		71A-73A	
Swinging Lever		74A-75A	
Leg Screw		71A-75A	
Swinging Lever		71A-73A	
Saw Guide (Front)		74A-75A	
Saw Guide (Rear)		74A-75A	
Indicator		71A-75A	
Stop Lever		71A-75A	
Swinging Lever Bearing		71A-75A	
leg		71A-75A	
Bed and Back		71A-75A	
O, P, NR, NS, NT, U, W and NX have corr		71A-75A	.55

Parts NO, P, NR, NS, NT, U, W and NX have corresponding letters cast in them, so, if in doubt, reference may be made to the castings.



PARTS FOR GOODELL-PRATT ALL STEEL MITRE BOXES

Nos. 1144, 1144A, 1264, 1264A, 1285, 1285A, 1305, 1305A, 1306 and 1306A Nos. 1002, 1003 and 1004





PARTS FOR GOODELL-PRATT ALL STEEL MITRE BOXES

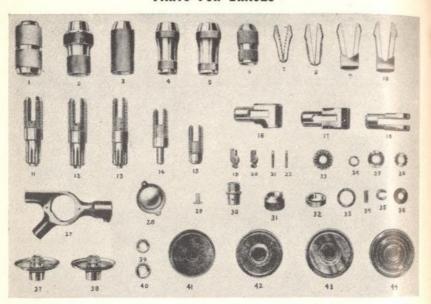
Nos. 1144, 1144A, 1264, 1264A, 1285, 1285A, 1305, 1305A, 1305 and 1306A Nos. 1002, 1003 and 1004

Name of Part	
Bed (with legs)	\$10.50
Back—left hand	1.15
Back—right hand	1.15
Attachment Angle Slide	.55
Attachment End Block	.50
Attachment Block	.10
Attachment Length Gauge Slide	.50
Attachment Washer	.10
Attachment Clamp	.10
Attachment Binding Screw	.10
Attachment Knurled Screw	.10
Attachment Length Gauge	.20
Depth Gauge Knurled Screw	.30
Depth Gauge Bent Washer	.10
Front Depth Gauge	.30
Back Depth Gauge	.30
Ball Bearing, complete	.35
Scale and Escutcheon Pins	.90
Right Hand Riser	.15
Left Hand Riser	.15
Back Screw (also Gib Screw)	.10
Guide Stop (Automatic Detent)	.20
Copper Plug	.10
Nut for R. and L. Binder Screw	.10
Sliding Lever Binder Bolt Washer	.10
Boss Binder Screw (1/2 x 3/4"—18 Sq. Hd.)	.10
Catch Lever Pin	.10
Bottom Plate Pin	.10
Lever Screw (1/2 x 1/16 "—18 Fil. Hd.)	.10
Boss Screw	.10
Attachment Block Screw (4) (1 x 1/4 "-20 R. H.)	.10
Saw Stop (2)	.10
Gib Screw (¾ x ¼ "-20 R. H. Mch.)	.10
Catch Lever Spring	.15
Saw Stop Screw (2) (% "-10-32 R. H. Mch.)	.10
Lever Pin	.10
Ball Cage, complete	.10
Gib (with Plugs and Brass Pin)	.70
Catch Lever—large part	.20
Catch Lever—small part	.15
Saw Guide (give width of saw)	2.30
Bottom Plate—left hand	.50
Swinging Lever, complete	3.50
Pull Rod, complete	.40
R. and L. Binding Screw	.20
Sliding Lever, complete	2.80
Bottom Plate—right hand	.70
Complete Set End Attachments	3.00
	0.00

See Cut on Preceding Page



PARTS FOR BRACES



IMPORTANT: The number of the brace for which parts are wanted should be specified as well as the number of the part. If this information is not available make a sketch of the part showing dimensions.

No.		Price work
1	Chuck Shell for Nos. 5010, 5012	\$2.00
2	Chuck Shell for Nos. 770, 771, 772, 7312	1.80
3	Chuck Shell for Nos. 502, 730, 731, 732, 733	
4	Chuck Shell for Nos. 31, 32, 33, 1321, 1322, 1323, 1324	.70
5	Chuck Shell for Nos. 1708, 1710, 1712	.65
6	Chuck Shell for Nos. 142, 1410, 1610	.60
7	Jaws for Nos. 142, 1410, 1610	
8	Jaws for Nos. 31, 32, 33, 1321, 1322, 1323, 1324, 1708, 1710, 1712	.65
9	Jaws for Nos. 502, 730, 731, 732, 733, 5010	.85
10	Jaws for Nos. 770, 771, 772, 7312	.85
11	Chuck Socket for Nos. 5010, 5012	.90
12	Chuck Socket for Nos. 730, 731, 732, 733, 770, 771, 772	1.00
13	Chuck Socket for Nos. 31, 32, 33, 1321, 1322, 1323, 1324	.60
14	Chuck Socket for Nos. 1410, 1610, 1708, 1710, 1712	.40
15	Chuck Socket for No. 142	.15

MILLERS FALLS TOOLS

PARTS FOR BRACES

-		Price
16	Crooked Socket for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324	
17	Crooked Socket for Nos. 5010, 5012	
18	Crooked Socket for Nos. 1410, 1610, 1708, 1710, 1712	
19	Ratchet Pawls for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 5010, 5012	
20	Ratchet Pawls for Nos. 1410, 1610, 1708, 1710, 1712	
21	Ratchet Pawl Pins for Nos. 1410, 1610, 1708, 1710, 1712	
22	Ratchet Pawl Pins for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 5010, 5012	
		Price
23	Gears for No. 502 (2)	
24	Ratchet Chuck Socket Washer for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324	
25	Ratchet Chuck Socket Washer for Nos. 5010, 5012	
26	Ratchet Gear for Nos. 1410, 1610, 1708, 1710, 1712	
27	Frame for No. 502	
28	Cover for No. 502	
29	Ratchet Chuck Socket Screw for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 5010, 5012	
30	Quill for Nos. 142, 1410, 1610	
31	Boxed Ratchet Ring for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 1410, 1610, 1708, 1710, 1712, 5010, 5012	
32	Socket Ring Washer for Nos. 5010, 5012	
33	Socket Ring Washer for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324	
34	Ratchet Pawl Spring for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 1410, 1610, 1708, 1710, 1712, 5010, 5012	77
35	Quill Washer for Nos. 31, 32, 33, 502, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 1708, 1710, 1712, 5010, 5012	
36	Ball Bearing Washer for Nos. 1708, 1710, 1712	
37	Quill for Nos. 31, 32, 33, 502, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324, 5010, 5012	
38	Quill for Nos. 1708, 1710, 1712	
39	Ball Race for Nos. 1708, 1710, 1712	
40	Ball Race for Nos. 31, 32, 33, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324 5010, 5012	
41	Head for Nos. 142, 1410, 1610	
42	Head for Nos. 1708, 1710, 1712	
43	Head for Nos. 31, 32, 33, 502, 730, 731, 732, 733, 770, 771, 772, 1321, 1322, 1323, 1324	
44	Head for Nos. 5010, 5012	

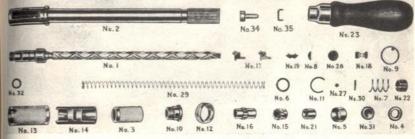
PARTS FOR

16407 1090			:	:							40.40	\$0.00	?				shots show	1			\$0.25	.25			.25	.25	1	.75	57.	
ርሳነዋ						000	200	27.									Disids Abroid		\$0.15											:
																	Clutch	000	07.00											
Geat Clip					•	\$0.10	10	200					:	:			Crank Screw	01.04	30.10	2.5	2 .	200		2 5	2.5	2	0.0		2 .	10
off nig2	\$0.20	25	25	200	200	25	25	20	20	20	25	30	200	200	.20		Geat Strew	40.15	140.15					1 2 2			0.	01.	100	.15
																	laval		to 25	20.00			35	2		7				
Cap for End Handle	\$0.2			2		3					2	2					Boil Bearing	\$0.05	25	36	36	25	25	25	36	200	25.	25	25	
emort nioM	\$0.70	06	06	.65	.65	1.35	1.35	1.20	.40	9	1.50	1.50	40	2			met2 emort			\$0.20	200	2		20	200	200	25	25	80	.25
Small Geat	01.0	10	.10	10	10	.25	.25	.20	.10	10	.25	25	10		2		əlbniqð	\$0.30	2		35	1.20	.45	40	40	40	300	30	30	.35
	\$															115	Aux. Breast Plate					0.50								
Large Gear	\$0.50	.75	.75	9.	.60	.85	.85	.70	.35	.40	.75	.85	35	20	2	ST DR	etol9 trossã	_		_	_									
(InO agnings	01.0	10	.10	10	.10	.10	.10	10	.10	10	10	.10	10	10	2	BREA	Stationary Side Handle	\$0.25	.20	.20	.20	.20	.20	.20	.20	20	.25	20	.25	.20
	•																Cronk and Handle	\$0.50	.50	.35	.35	3.90	.45	.40	.40	40	30	30	.45	.30
ben ewol. ,egning2 (E to teč)	\$0.6			9.	9.	N,	s.	5.	e.	4.	9.	7.	4.	6			Small Geat	\$0.25	.40	30	30	.70	.40	30	30	30	.25	.25	.25	.25
Chuck Complete	\$1.50	2.00	2.00	1.50	1.50	1.50	1.50	1.25	1.00	1.05	2.00	2.50	.80	.50			torge Gear	\$1.00	1.00	06.	06.	1.10	1.10	.85	.85	06	06.	.80	.75	.55
Cronk and Handle	.25	.50	.50	.20	.20	.45	.40	.45	.20	.20	.20	.25	30	20			Frame	\$1.50	1.40	06.	06.	1.30	1.40	.90	06.	06.	.90	.80	2.00	.80
bee seed	\$																Chuck Socket	0.40	.40	.40	.40	.30	.30	.40	30	30	.30	.30	30	.30
Side Handle	\$0.25	.25	.25	.25	.25	.25	.25	.25	.25				::				Chuck Shell	-												
Main Hand	0.65	00.1	.35	.65	.25	00.	.80	.80	51.	.20	.65	.70	.20	.15			bno ewot 198, springs	\$0.60	.80	9.	.70	.70	.70	.80	.70	.70	9.	09.	.70	.50
																	Chuck Complete	\$2.00	1.70	1.60	2.25	2.50	2.50	2.70	1.75	1.75	1.75	1.50	2.50	1.00
Numbet		7	28	0	02	201	20	38	A	000	104	308	655A	500B			Mumber	6A	12	19A	29 A	16	811	19A	120A	1208	177	177	9999	740



PARTS FOR SPIRAL AUTOMATIC SCREW DRIVERS

Nos. 29, 61A, 62A, 67A, 610A, 620A, 670A



Please specify the number of the screw driver the parts wanted are to fit as well as the part number.

2	Part Name	29	61A	62A	67A	610A		
2			UIN	02A	0/A	OLUA	620A	670A
100	Chuck and Spiral	\$0.40	\$0.60	\$0.70	\$0.55	\$0.60	\$0.70	\$0.55
	Frame, complete	.35	1.00	1.50	.80	1.00	1.50	.80
3	Chuck Shell	.25	.15	.15	.15	.15	.15	.15
	Chuck Collar	.10	.10	.10	.10	.10	.10	.10
	Chuck Cam		.10	.10		.10	.10	
6	Chuck Washer		.10	.10		.10	.10	
7	Chuck Spring	.10	.10	.10	.10	.10	.10	.10
8	Blade Key	.10	.10	.10	.10	.10	.10	.10
7	Splined Washer		.10	.10	.10	.10	.10	.10
0	Frame Nut	.10	.25	.25	.25	.25	.25	.25
1	Spring Ring		.10	.10	.10	.10	.10	.10
2	lock Cam		.50	.50	.30	.50	.50	.30
3	Shifter Sleeve	.20	20	.30	.15	.20	.30	.15
4	Cam		.15	.20	.10	.15	.20	.10
5	Ratchet Nut—right hand	.20	.30	.30	.25	.30	.30	.25
	Ratchet Nut—left hand	.20	.35	.35	.30	.35	.35	.30
7	Pawls (2)	.10	.20	.20	.20	.20	.20	.20
3	Pawl Springs	.10	.10	.10	.10	.10	.10	.10
	Ratchet Key		.10	.10	.10	.10	.10	.10
	Lock Balls (2)	.10	.10	.10	.10	.10	.10	.10
	Stop Collar	.10	.10	.10	.10	.10	.10	.10
2	Handle Plug Screw					.10	.10	.10
	Handle and Ferrule	.20	.35	.40	.35	.35	.40	.35
	Blade, Small		_		- See Po	ge 46 -	18/18/1	175.5
	Blade, Medium	.15	_		- See Po			
5	Blade, Large		_		- See Po			
	Headless Set Screw		.10	.10	.10	.10	.10	.10
	Stop Washer					.10	.10	.10
	Q.R. Spiral Spring	.10			****	.10	.10	.10
	Stop Collar Pin		.10	.10	.10	.10	.10	.10
	Handle Cap Screw	.15				.20	.20	.20
	Chuck Rings (2)	.10	7		.10			.10
	Step (Wood plug)	.10						
	Blade Key	.10						



NO. 5010 PARSONS DE LUXE BRACE



Chrome Plated

This beautiful tool, illustrated in color on the preceding page, was designed several years ago by W. J. Parsons, the dean of our designing and engineering staff, in commemoration of his fiftieth anniversary with the Millers Falls Company.

The chuck is full ball bearing with two machined steel jaws that hold 1/8 to 1/2 inch round shank, No. 1 Morse Taper and square bit shank drills and reamers. The full boxed ratchet is controlled by a ring shift. Sweep handle runs on bronze bushings as does the head. Head is also equipped with a ball thrust bearing.

The steel clad head and sweep handle are made of a glossy, transparent red Permaloid, a plastic more durable than wood. All exposed metal parts highly polished and finished in brilliant chrome plate

Sweep No. 5010 Packed one in a box

Weight \$11.00 3 1/2 lbs. ANABO

NOS. 770-772 RATCHET BRACES



A sturdy, quality brace. Ball bearing at every possible point, every constructional detail refined and the entire tool beautifully finished. Equipped with Lion ball bearing chuck to hold regular square shanks, No. 1 Morse Taper and round shanks from 1/8 to 1/2 inch in diameter. Boxed ratchet with ring shift. Full steel clad, ball bearing head. Head and handle finely finished tropical hardwood Handle has metal inserted rings. All exposed metal parts heavily nickeled and highly buffed.

Weight Code Price each No. 770 \$9.20 3 1/a lbs. ABACU No. 771 12" 8.70 3 1/2 lbs. ABAFT 8.40 No. 772 10" 3 % lbs. ABAND Packed two in a box

16



NOS. 730-733 RATCHET BRACES



A fine quality brace, popularly known for years as the "Holdall," having been one of the first to be equipped with the universal type or "Master" chuck holding square, No. 1 Morse Taper and plain round shanks from 1/8 to 1/2 inch in diameter.

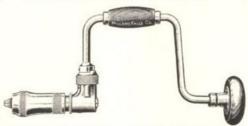
Boxed ratchet mechanism with ring shift, Steel clad, ball bearing head, Handle has inserted metal rings. Head and handle of finely finished tropical hardwood.

All exposed metal parts nicely polished, nickel plated and buffed.

	Sweep	Weight	Code	Price each
No. 730	14"	3 1/2 lbs.	ABBEY	\$8.00
No. 731	12"	3 1/4 lbs.	ABBOT	7.40
No. 732	10"	3 1/8 lbs.	ABDIC	7.20
No. 733	8 "	2 3/4 lbs.	ABDOK	7.20

Packed two in a box

NOS. 31-33 RATCHET BRACES



This brace meeting every boring requirement for square shank bits represents a fine value and has probably enjoyed the greatest sale of any quality brace ever produced.

Equipped with Barber chuck with self-opening, forged steel alligator jaws. Steel clad, ball bearing head. Handle has inserted metal rings. Boxed ratchet with ring shift. Head and handle finely finished tropical hardwood.

All exposed metal parts nicely polished, nickel plated and buffed.

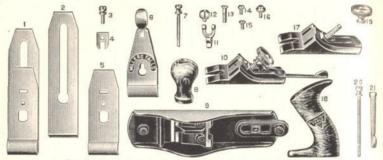
ROSE TOOLS, INC.

	Sweep	Weight	Code	Price each
No. 31	12"	3 1/4 lbs.	ABSEN	\$7.20
No. 32	10"	2 1/a lbs.	ABSOL	7.00
No. 33	8"	2 3/a lbs.	ABSIK	7.00

Packed two in a box 17



PARTS FOR BENCH PLANES



Be sure and specify the number of plane parts wanted are to fit.

Part No.	Description of Part	No. 8 No. 8C	No. 9 No. 9C	No. 10 No. 10C	No. 11	No. 14 No. 14C	No. 15	No. 18	No. 22 No. 22C	No. 24	N- 814	hi- 000
1	Double Iron		740. 7 €	140.100	140. 11		ee Page		NO. 22C	No. 24C	NO. 814	140, 900
2	Single Iron						ee Page					
3	Frog Adj. Screw	\$0.10	\$0.10	\$0.10	\$0.10				\$0.10	\$0.10	\$0.10	\$0.10
4	Frog Clip	.20	.20	.20	.20	.20	.20	.20	.20	.20	.15	.15
5	Plane Iron Cap	.45	.55	.60	.45	.55	.60	.60	.60	.60	.30	.30
6	Lever Cap Comp	.85	.90	1.00	.85	.90	1.00	1.00	1.00	1.00	.60	.60
7	Knob Bolt and Nut	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
8	Plane Knob	.40	.40	.40	.40	.40	.40	.40	.40	.40	.15	.15
9	Plane Bottom	3.20	3.20	3.80	3.80	3.80	3.80	5.30	7.50	9.00	1.75	1.45
10	Frog, complete	1.10	1.10	1.20	1.10	1.10	1.20	1.20	1.20	1.30	1.10	1.10
11	"Y" Adj. Lever	.10	.10	.10	.10	.10	.10	.10	.10	10	.10	.10
12	Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
13	Lever Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
14	Frog Clip Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
15	Handle Screw		W.V.P.	.10	.10	.10	.10	.10	.10	.10	.10	.10
16	Frog Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
17	Frog	.70	.70	.80	.70	.70	.80	.80	.80	.90	.70	.70
18	Plane Handle	.60	.60	.60	.60	.60	.60	.60	.60	.60	.35	.35
19	Adjusting Nut	.30	.30	.30	.30	.30	.30	.30	.30	.30	.20	.20
20	Handle Bolt and Nut.	.20	.20	.20	.20	.20	.20	.20	.20	.20	.15	.15
21	Lateral Adj. Lever	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20

PARTS FOR NOS. 4 AND 85 RABBET PLANES

No.	Name of Part	No. 4	-
4304	Bottom		
- Income	Bottom, Top and Bottom, complete	\$0.80	,
14232	Plane Iron	.40	
21266	Lever		
12391	Lever Thumb Sergu	.20	
12247	Lever Thumb Screw		
14231	Lever Screw	.10	
14235	Adjusting Lever.		
14233	Adjusting Lever Screw		
	Rivet		
14234	Line Cutter (Spur)		
21265	Widin Gauge		
14221	Width Gauge Stop		
14219	Width Gauge Lock Screw		
21264	Depth Gauge		
14220	Depth Gauge Lock Screw.		
		9.2.9	

MILLERS FALLS TOOLS SMEET

PARTS FOR BLOCK PLANES



Be sure to specify the number of plane parts wanted are to fit.

Part No.	Description of Part	No. 16	No. 17	No. 36	No. 37	No. 56	No. 57	No. 206	No. 700
1	Adjusting Nut	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20
2	Lever Cap	.50	.50			.50	.50		
3	Finger Rest Knob	.20	.20	.20	.20	.20	.20	.20	.20
4	Lever Cap		***	1.10	1.10			1.00	
5	Adi. Lever Pin		.05	.05	.05	.05	.05	.05	.05
6	Adjusting Nut	.20	.20	.20	.20	.20	.20	.20	.20
7	Frog. complete					.20	.20		
8	Eccentric Plate	.20	.20	.20	.20	.20	.20		95.
9	Lateral Adi, Lever	.20	.20	.20	.20	.20	.20		
ó	Bottom	2.30	2.30	2.30	2.30	2.30	2.30	2.50	1.75
1	Lever Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10
2	Single Plane Iron	.55	.55	.55	.55	.55	.55	.55	.55
3	Adjusting Lever	.10	.10	.10	.10			.10	(4),614

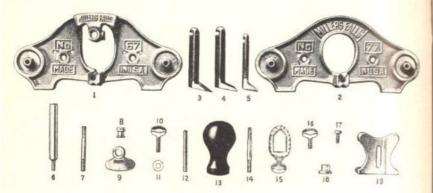


Be sure to specify the number of plane parts wanted are to fit.

	D1	2010 10								
Part No.	Description of Part	No. 5	No. 07	No. 33	No. 45	No. 55	No. 68	No. 75	9 No. 87	No. 97
1	Adjusting Nut		\$0.20		\$0.20			\$0.20		100
2	Plane Knob		.20		.20		\$0.20	.20	\$0.20	\$0.20
3	Detachable Side		.50							
4	Frog, complete		.20		.20	\$0.30		.20		.30
5	Frog Pin		.05		.05	.05		.05		.05
6	Side Screws (2)		.20							
7	Single Plane Iron		.70							
8	Single Plane Iron	\$0.30		\$0.20	.55	.40	.40	.55	.40	.55
9	Frog, complete		.25		.25			.25		
10	Plane Bottom	.80	2.50	.60	1.25	.80	2.25	1.35	1.25	1.50
11	Lever Cap				.50			.50		
12	Lever Cap		.40					2500		
13	Lever Cap	,40		.20		.40	.40	***	.65	.40



PARTS FOR NOS. 67 AND 77 ROUTER PLANES



When ordering parts please be sure and give the number of the screw driver the parts are to fit as well as the part number.

Part No.	Description	No. 67	No. 77
1	Plane Bottom.	\$2.65	140.77
2	Plane Bottom	\$2.05	\$2.65
3	Cutter, ½" Pointed	.60	.60
4	Cutter, ½"	.60	.60
5	Cutter, ¼*	.60	.60
6	Attachment Stud.		100
7	Handle Stud.	.15	.15
8	Handle Nut	.15	
9	Handle Nut Throat Attachment	.15	.15
10		.25	4000
11	Attachment Stud Tightening Screw.	.10	111
12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.10	.10
	Cutter Adjusting Screw	.20	.20
13	Knob Handle	.20	.30
14	Handle Stud	.15	.15
15	Cutter Clamping Collar with Screw	.50	.50
16	Cutter Clamp Screw	.10	.10
17	Fence Screw	.10	.10
18	Depth Adjusting Nut	.15	.15
19	Fence.	.25	.25



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NOS. 709 AND 714 PLANES



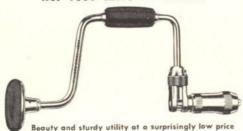
These entirely new planes enjoy an immense and growing popularity that can be attributed to their beauty and superior performance.

The Millers Falls patented three-point bearing of the lever cap locks the cutter iron to the frog so powerfully that vibration and chatter are eliminated. A much larger knurled adjusting nut permits fingertip control of depth adjustments of the cutting iron. Cutting iron is one solid piece of highest quality tool steel precision, heat treated to take and hold a keen honed edge. Cap is precision ground to fit the iron. New bed and frog design provide greater strength and the balance is excellent.

The new "Tenite" glossy red plastic main handle and knob are guaranteed unbreakable in use and provide a surer, more comfortable grip for even the largest hands. The nickel-plated and buffed lever cap and knurled adjusting nut add to the appearance, making it a tool to be proud of as well as a joy to use.

	Length	Cutter	Weight	Code	Frice
Smooth Plane Jack Plane	9" 14"	2"	3 1/8 lbs. 4 1/8 lbs.	EMDOX EMFIT	\$9.00 9.50
 ***************************************		Packed one	in a box		

NO. 1950 RATCHET BRACE



Head and handle are solid glossy red "Tenite"—a velvet smooth plastic guaranteed unbreakable in use. All exposed metal parts are nickel-plated and buffed; and when combined with the red plastic handles comprise a tool of striking appearance and beauty.

Steel dad ball bearing head, smoothly curved 1/4 inch round steel sweep rod, rugged semiboxed, steel ring shift ratchet mechanism and Barber pattern chuck with forged steel jaws are construction features that insure its utility as well as its beauty.

No. 1950 Sweep Weight Code Price Each
10" 2½ lbs. AMMOT \$4.80

Packed two in a box



NO. 333 UTILITY KNIFE





This knife cuts linoleum, fibre board, rubber, veneer, paper, fabrics, rope, composition roofing, gaskets, carpeting, matting, upholstery, wood, etc. It opens cartons. It trims. In business, in the home, and in the shop, its uses are unlimited.

The sturdy, sure-grip, die cast handle is nicely finished in grey enamel. It is equipped with five reversible blades which can be set in three positions. They are stored in the handle when not in use.

 No. 333
 Knife Complete with 5 Blades
 \$1.25

 No. 3318
 Extra Blades (Regular) Pkg. of 5 \$0.50—Box of 100
 7.00

 No. 3325
 Extra Blades (Heavy Duty) Pkg. of 5 \$0.60—Box of 100
 8.00

Six individually boxed No. 333 Knives packed in a Counter Display carton.
Weight of Display Carton with 6 Knives, 11/8 lbs.

NO. 710 HIGH SPEED COUNTERSINK



FAST-CUTTING FIVE FLUTES 82° ANGLE

Made of a fine grade of high-speed steel for use in any material ordinarily machinable with a high-speed cutter. Has five, carefully ground flutes for fast cutting at an 82° angle for wood and machine screws. Shank is ¼" in diameter for use in three-jawed chucks. Length overall, 2½ inches. Mounted four on a counter display easel.

No. 710 High Speed Countersink 1/2" YODER \$1.50
Packed one card of 4 in a box. Weight per box 51/2 ounces.

NO. 810 COUNTERSINKS



ROSE PATTERN WITH FIVE FLUTES 82° ANGLE

Cut fast and clean in soft steel, iron, non-ferrous metals, woods, and other similar materials to admit heads of standard 82° machine or wood screws. Made of a fine grade of tool steel with carefully hardened, tempered and ground flutes. Square bit brace shanks.

Digmeter	Length	Code	Price Dozen
		YOGAL	\$9.60
			9.60
		YOGOB	9.60
	Diameter 1/2" 5/8" 3/4"	1/2" 4 1/4" 5/8" 4 1/4"	1/2" 41/4" YOGAL 5/8" 41/4" YOGIT

Packed six of a size in a box. Average weight per box 3/4 pound.

New



No. 652

No. 652 No. 652

No. 652

PLASTIC HANDLED SCREW DRIVERS

PACKED SIX IN A BOX

A fine new line of popularly priced, plastic handled screw drivers with real merit. The blades are forged from a high-quality alloy steel, carefully hardened and tempered for toughness, cross ground and plated. The handles are made of an unbreakable opaque red thermo plastic - slow burning and shockproof.

NO. 651 SCREW DRIVERS - Standard Round Blade



	Blade Length	Bit	Diam. Shank	Wt. Box	Code	Price Doz.
No. 651	3"	7/32"	7/32"	3/4 lb.	ZUPAL	\$4.80
No. 651	4"	9/32"	9/32"	11/4 lbs.	ZUPET	5.40
No. 651	6"	5/16"	3/16"	11/2 lbs.	ZUPIN	7.20
No. 651	8"	3/8"	3/8"	25/8 lbs.	ZUPOR	10.20
No. 651	4" 6" 8"	5/16"	5/16"	11/2 lbs.	ZUPIN	

NO. 652 SCREW DRIVERS — Heavy Duty Square Blade

The same of the sa				6.52			
	Blade Length	Bit	Shank	Wt. Box	Code	Price Doz.	
	4"	9/32"	1/4" x 1/4"	11/8 lbs.	ZURAG	\$6.00	
	6"	3/8"	5/16" x 5/16"	13/4 lbs.	ZUREL	8.40	
	8"	1/2"	3/8" x 3/8"	3 lbs.	ZURIK	10.80	
	10"	1/2"	3/8" x 3/8"	31/2 lbs.	ZUROX	13.40	

NO. 653 SCREW DRIVERS - Round Cabinet Blade

	613								
	Blade Length	Bit	Diam. Shank	Wt. Box	Code	Price Doz.			
No. 653	3"	3/16"	3/16"	10 oz.	ZUSAM	\$4.40			
No. 653	4"	3/16"	3/16"	11 oz.	ZUSEB	4.60			
No. 653	6"	3/16"	3/16"	13 oz.	ZUSID	4.80			
No. 653	8"	3/16"	3/16"	14 oz.	ZUSOR	5.40			

NO. 656 SCREW DRIVERS - Slim Square Blade

	MILERS FALLS CO.					
	Blade Length	Bit	Shank	Wt. Box	Code	Price Doz.
No. 656	4"	7/32"	3/16" x 3/16"	11/8 lbs.	ZUTAX	\$6.00
No. 656	6"	7/32"	3/16" x 3/16"	13/8 lbs.	ZUTEF	8.40
No. 656	8"	7/32"	3/16" x 3/16"	11/2 lbs.	ZUTIP	10.00
No. 656	10"	7/32"	3/16" x 3/16"	13/4 lbs.	ZUTOS	11.60

NO. 654 SCREW DRIVER - Stubby Type



Blade Length Shank Wt. Box Code Price Doz. 11/21 No. 654 1/4" x 1/4 5/8 lbs. ZUSUT \$5.60 170

MILLERS FALLS

NO. 8504 SET OF SCREW DRIVERS



A carefully selected set of fine quality screw drivers for everyday use around the home and shop. They cover the entire range of screws found in appliances, radios, television sets, up to and including locks, door hinges, etc.

The set consists of 1 — No. 851-6"; 1 — No. 851-4"; 1 — No. 853-3"; and 1 — No. 855. These drivers are fully listed on pages 40 and 41.

The handles are made of shockproof red "Tenite" and are unbreakable.

Weight Code

ZEOSY 3/4 lb. No. 8504 Set

Packed one set in a box

NO. 29X AUTOMATIC SCREW DRIVER SET



This is the fine automatic driver No. 29 illustrated and described on page 38 with the standard bit. To this have been added a No. 297 Cabinet Bit and a set of three drill points No. 329 - one each 1/16", 5/16" and 3/22" in diameter, which are packed in a plastic vial.

No. 29X Set

Length extended with bit 101/4"

Weight 7/8 lb.

Price each \$3.80

Price Set

\$2.80

Packed one set in a box

171

ROSE TOOLS, INC.



NO. 525 ROTATABLE BLADE KEYHOLE SAW





EYTRA BIADES

Cuts most anything — most anywhere, taking all materials from soft wood to hard steel in its stride. Any of three types of 12 inch blades (10-tooth, all purpose; 24-tooth, thin metal cutting; or 7-tooth wood cutting) can be quickly interchanged in the handle. The saw may be purchased with any of these blades, or blades can be purchased separately.

The blade can be quickly rotated and positively locked in eight different positions allowing the operator to always have the handle in the clear for fast work. The solid cast handle and barrel, plus the machined steel blade holder and thumbscrew, provide a tool that can take the abuse characteristically given this type of saw. Overall length 151/4 inches.

34113				EATE	M DEMPE					
	Type Cutting	Teeth Per Inch	Wt.	Code	Price Each		Type	Teeth Per Inch	Code	Price Each
No. 425	Metal	24T	1 lb.	YEYGU	\$2.00	No. 10	Metal	101	YEYJA	\$0.50
No. 525	Metal	10T	1 lb.	YEYHO	2.00	No. 24	Metal	24T	YEYKU	.50
No. 625	Wood	71	1 lb.	YEYHU	2.00	No. 27	Wood	71	YEYLO	.50

Packed one complete saw or ¼ doz. blades in box

NO. 725 NEST OF SAWS





Here is a combination of the fast-selling No. 525 Rotatable Blade Keyhole Saw with two extra interchangeable blades—one each of No. 24 and No. 27, giving a greatly increased range of usefulness and a tremendously greater sales potential.

Everyone — farmers, craftsmen and the home "handyman"—needs this saw. The compact and comfortable pistol grip handle, the clever feature which permits locking the blade in any of eight positions, together with the outstanding quality of the blades themselves, make it the outstanding buy-

Sales appeal has been added by mounting the combination on an attractive two-color card, which will do a fine selling job in windows, on counters or in bins. It's a year-round volume seller that will yield a big bonus as a Christmas, Father's Day or birthday gift.

No. 725 Nest of Saws (Carded)

 Weight
 Code
 Price Each

 15% lbs.
 YEYMA
 \$2.95

Packed four cards in a box For details of saw and blades see above

NO. 5256 KEYHOLE SAW DISPLAY UNIT

New



A substantial three color wood display. Saws easy to remove for handling and operating the rotatable blade feature. Furnished free with the following initial stock:

6 No. 525 Keyhole Saws (a. \$2.00	\$12.00
3 Extra No. 10 Blades (0) .50	1.50
Display Fixture	Free
No. 5256 Display Unit Complete	\$13.50

NO. 500 HACKSAW FRAME DISPLAY UNIT



A two color wood display of substantial construction. Saw frames easy to remove for checking their comfortable handles and pleasing balance. Furnished free with this initial stock of popular Millers Falls Frames:

2 No. 84	Hack Saw Frames	(a	\$4.30	\$ 8.60
2 No. 300	Hack Saw Frames	(0	3.80	7.60
2 No. 1027	Hack Saw Frames	(0	2.20	4.40
No. 500 Dis	play Unit Complete			\$20.60

MILLERS FALLS
TOOLS

WORKSHOP ACCESSORY DISPLAY UNIT



This display easily doubles or trebles the sale of these accessories. See pages 77 to 80 inclusive for complete line. Polished steel against a red background makes this an attention-getting display. Display unit furnished free with the following initial stock:

	g initial stock:	will life
lo. 962	1/2" Chuck with #1 MT	\$2.20
lo. 940	Screw Face Plate #1 MT	1.60
lo 922	Spur Center #1 MT	1.10
lo 934	BB Point Center #1 MT	3.20
lo. 930	Point Center #1 MT	.80
lo. 912	Cup Center #1 MT	1,10
lo. 952	Work Arbor ≠1 MT	1.20
lo. 938	Crotch Center	1.60
lo. 917	Spur Center	1.00
lo. 915	Cup Center	1.00
lo. 984	Collet Chuck #33 J. Arbor	1.60
lo. 978	Shaper Adapter #33 J. Arbor	1.60
lo. 980	Shaper Adapter #33 J. Arbor	1.60
lo. 960	Drill Pad #2 MT	1.60
lo. 946	Work Arbor with Chuck	2.20
lo. 982	Taper Adapter	2.60
lo. 966	1/2" Drill Chuck	1.20
lo. 926	Face Plate	2.00
lo. 990	Collet Chuck	1.30
lo. 956	Work Arbor	1.20
lo. 970	Chuck with Socket	1.90
lo. 986	Wheel Arbor 1/4" Shank	.75
lo. 992	Disc Holder 1/4" Shank	.70
lo. 976	Shaper Collars	2.00
lo. 994	Disc Holder — threaded socket	1.00
lo. 944	MT Adapter Sleeve	1.50
lo. 900	Display Unit Complete	\$39.55
Base	6 x 20 inches Height 21½ Shipping Weight 16 pounds.	inches



NO. 2120 TWO SPEED BUFFING AND SANDING ATTACHMENT

New

Convert your electric drill to a portable buffer or sander, and eliminate the fatigue of hand polishing automobiles, furniture, metalware, etc., or slow hand sanding operations.

Millers Falls exclusive 100 degree angle drive insures drill and cord clearance when working on flat surfaces. The new two speed feature for low rpm drills and sanding operations is foolproof. No special adjustments - just drive from either spindle depending upon the speed desired. The two speeds are: (1) One-half drill rpm. (2) Double drill rpm.

readily to get the best results on irregular surfaces. A high-grade standard 5-inch lamb's wool bonnet



		Weight Box	Code	Price Each
No. 2120	Attachment Complete	21/4 lbs.	PABAP	\$8.45
	Extra Wool Bonnets	3/4 lbs.	PABEK	1.25
	Extra 0 or 00 Sanding Discs	1/2 lb.	PABIL	.10

Packed one complete unit, four bonnets, or two dozen sanding discs in a box

NO. 3914 ELECTRIC DRILL KIT

Three points of superiority make this your best drill kit buy. First: a finer, more powerful drill used as a power unit - no load speed 2500 rpm and available for 110 or 220 volt A.C. (specify voltage). See page 110 for complete drill specifications. Second: a wheel arbor that replaces the chuck, instead of fitting into it, keeping the load close to the bearings, insuring less wear and tear and truer running wheels with less vibration. Third: a horizontal stand that affords greater freedom of movement around the wheels.

The following high quality accessories comprise this kit:

Any item may be ordered separately if desired

No. 1914 No. 2014 No. 23096	— ¼" Drill for — Bench Stand 5— Set of High	No. 3914 \$ No. 4914 Speed Drills	19.85 22.35 3.00 5.95 1.00	No. 23094 — 4" No. 23095 — 4"	Grinding Wheel Wire Brush Wheel. Cotton Buff Wheel. ameled Steel Case.	1.10
No. 3914 No. 4914	Drill Kit Drill Kit	Millers Falls Jacobs Gea		Weight 12½ lbs. 12½ lbs.	PANUR PANVA	\$39.75 42.25

Packed one kit in a carton

1/4" AND 1/2" UTILITY DRILLS





MILLERS FALLS

No. 912

Electrically and mechanically these powerful streamlined drills are the last word in modern design engineered to give you the finest low-priced drills available. Smooth running and sturdy, they are light in weight and beautifully balanced. Drill up to 1/4" and 1/2" respectively in steel. Can also be used to power a wide variety of accessories for grinding, polishing, wire brushing, sawing, sanding, etc. Write for circular giving further details.

MOTORS: Universal for D.C. or A.C. — 25 to 60 Cycles — 115 and 220 230 volts.

HOUSING: Die cast aluminum alloy. Hammered grey enamel finish.

GEARS: Alloy steel - grease lubricated. BEARINGS: Ball thrust spindle - all others oil impregnated bronze.

SWITCHES: Nos. 914-1914 single pole. No. 912 - double pole.

CORD: Seven feet rubber covered Type SJ with plug.

	Copacity	R.P.M.	Amp. Rating	Length	Weight	Price
No. 914	1/4"	2500	2.0	111/2"	31/2 lbs.	\$19.85
No. 1914	1/4"	2500	2.0	111/2"	31/2 lbs.	22.35
No. 912	1/2"	450	3.0	15"	8 lbs.	40.95

*Equipped with Jacobs geored Key Chuck

NO. 2914 BENCH STAND

A solidly constructed stand that makes the No. 914 or No. 1914 Drill an efficient drill press. Drill is easily mounted and securely held for accurate work. Increases the usefulness of your drill many fold.



Maximum distance, chuck to table	127
Maximum distance, chuck to column	43/4"
Maximum feed	11/2"
Weight	71/8 lbs.
No. 2914 Stand	\$13.00

NO. 2912 BENCH STAND

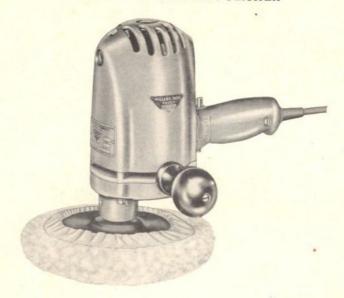
Ruggedly built to convert the No. 912 into a high-accuracy drill press. Heavy construction throughout. Large base gives stand great stability and is carefully machined for accurate work. Smooth acting with powerful leverage capable of exerting ample pressure for 1/2" drilling in steel. Takes only a few moments to mount or remove drill

Maximum	distance, chuck	to	
table			14"
Maximum	distance, chuck	to	column
Maximum	feed		
Weight			
No. 2912	Stand		

31/2 26 lbs. \$18.50



NO. 966 — 6" SANDER-POLISHER



A versatile finishing and multi-purpose power tool for which a wide variety of accessories are available. It's an ideal tool for the home or shop for buffing, disc sanding, orbital sanding, drilling, grinding, polishing, waxing, sharpening, mixing paints, cleaning, wire brushing.

High powered, light and easy to operate and ruggedly built, it is guaranteed to give you hundreds of hours of trouble-free performance.

The accessories available include an orbital sanding attachment for fine finishing, a Jacobs Chuck for drilling, a bench stand and arbor for operating, buffing, grinding and wire brush

MOTOR: Universal for D.C. or A.C. — 25/60 cycles — 115 and 230 volts.

GEARS: PINION, and SPINDLE: Finest heat-treated alloy steel. Spindle has 3/8"-24 SAE thread. Spindle nut designed to take sanding discs with either 3/8" or 7/8" holes.

BEARINGS: Self-oiling, bronze sleeve bearings throughout.

BRUSHES: Long-life pigtail. Accessible from without.

SWITCH: Fully enclosed, bat-lever type. Underwriter approved.

CORD: Seven feet, best quality rubber covered. Type SJ. #18 Conductors with moulded-on strain relief reinforcement.

REGULAR EQUIPMENT: 6" Rubber Pad, 6" Lamb's Wool Bonnet, and three 6" Assorted Sanding Discs.

Disc R.P.M. Diameter No load Amps. Height Weight Code Price Each No. 966 6" 3.8 73/4" 4 1/8 lbs. PARID \$37.50

> SEND FOR SPECIAL CIRCULAR FOR FULL DETAILS AND LIST OF ATTACHMENTS AND ACCESSORIES.



NOS. 1321-1324 RATCHET BRACES



Similar to Nos. 31 to 33, but with mahogany finished hardwood heads and handles.

Boxed ratchet mechanism, with ring shift. Barber chuck with self-opening, forged steel alligator jaws. Ball bearing, steel clad head. Handle has inserted metal rings.

All exposed metal parts polished, nickel plated and buffed.

	Sweep	Weight	Code	Price each
No. 1321	12"	3 lbs.	ACRIM	\$6.30
No. 1322	10"	2 3/4 lbs.	ACROB	6.00
No. 1323	8"	2 1/2 lbs.	ACTIV	6.00
No. 1324	6"	2 1/4 lbs.	ACTOR	6.00

Packed two in a box

NOS. 1708-1712 RATCHET BRACES

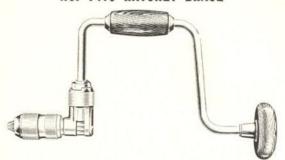


Well built, serviceable braces that can be offered at a moderate price. They are equipped with Barber chuck with alligator jaws and semi-boxed steel ratchet. Knurled shifter ring controls ratchet mechanism. Steel clad, ball bearing head and sweep handles made of hardwood, nicely mahogany lacquered. All exposed metal parts nickel plated.

	Sweep	Weight	Code	Price each
No. 1708	8 "	2 1/4 lbs.	AJACK	\$4.00
No. 1710	10"	2 3/8 lbs.	AKLEM	4.00
No. 1712	12"	2 ½ lbs.	ALROX	4.35
		Packed six in a box		

MILLERS FALLS TOOLS

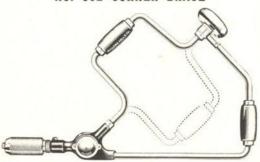
NO. 1410 RATCHET BRACE



A serviceable brace that is offered at a popular price. It is equipped with a Barber chuck with alligator jaws and a semi-boxed ratchet mechanism operated by a knurled ring shift. Handles mahagany stained hardwood. All exposed metal parts polished.

	Sweep	Weight	Code	Price each
No. 1410	10"	2 lbs.	AGLOR	\$2.40
	Par	ked one half dozen in a bo	X	

NO. 502 CORNER BRACE



A great time and labor saver on jobs where there are a lot of holes to be bored in corners, against walls and beams and similar locations. Far more pressure can be put on the bit and more power delivered to the chuck than with a ratchet brace on the same work.

Master chuck holds square, No. 1 Morse Taper and round shanks from ½ to ½ inch in diameter. Machine-cut, case-hardened steel gears, fully enclosed. Ball thrust bearing at base of chuck. Ball bearing head. Handles have inserted metal rings. Frame black enameled. Head and handles mahagany finished hardwood. Length, 17 inches.

All exposed metal parts, except frame, polished, nickel plated and buffed.

No. 502 Sweep Weight Code Price each 10" 4 1/8 lbs. AGAPE \$12.00

Packed two in a box



IMPORTANT INFORMATION

CATALOG NO. 49

Effective with this new catalog all of the fine tools in our extensive lines which have heretofore borne the famous Goodell-Pratt name will be branded and labeled Millers Falls. This catalog lists all the active items in our lines. All old catalogs should be destroyed.

NEW TOOLS

See Pages 168 -176 for the interesting new tools announced since the first printing of this catalog.

Many interesting and popular new tools have been added since the publication of our last catalog. These new items are clearly indicated by an appropriate notation in the margin of the pages on which they appear.

SPECIFICATIONS

Control of certain materials by the government under the National Emergency Decree will make it mandatory that some of the specifications appearing in this catalog be changed.

Our standard specifications for each tool we manufacture are used in this catalog. Owing to difficulties that still exist in securing certain classes and finishes of materials it may be several months, in some few instances, before these specifications are fully met.

PRICES

Current prices on Millers Falls tools can be procured from your Hardware Dealer.

The list prices shown in this catalog are those in effect at time of publication and are subject to change without notice. All orders are accepted with the understanding that they will be billed at prices prevailing at the time shipment is made.

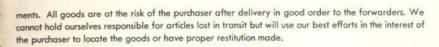
WARRANTY

Every tool stamped with the Millers Falls name is warranted free from imperfections and defects in material or workmanship. Should such defects appear, we will, at our option, cheerfully repair or replace the tool without charge. Under no circumstances, however, can we assume the responsibility for breakage where flaws do not appear, nor will we replace tools which have suffered from abusive treatment or have been stamped with the owner's name, changed, or otherwise experimented upon. No dealer is authorized to make replacements for us. Articles claimed defective must be returned, charges paid, for inspection, direct to the factory at Greenfield and not to any of our branch offices.

SHIPPING INSTRUCTIONS

In ordering, please be sure to give full and explicit directions for shipment and they will be carefully followed. If shipping instructions are not given, we will use our own best judgment in forwarding ship-

IMPORTANT INFORMATION



SERVICE FROM WAREHOUSE

A warehouse stock is maintained in Chicago for the convenience of our customers. Shipments from this stock are subject to a very reasonable service charge. This charge will be quoted on request.

PARTS AND REPAIRS

Repair parts can be furnished for any tool shown in this catalog. Customers should state clearly just what new parts are wanted, giving the number of the tool and any other data that will help avoid error in filling the order. Owing to the considerable expense of round trip transportation, in addition to repair costs, it is recommended that the owner make his own repairs whenever it is possible. Estimates on repairs and prices of repair parts will be gladly furnished on request.

RETURNED GOODS

The return of goods for credit cannot be accepted without permission from the main office. Shipping instructions should be obtained for any goods to be returned for any reason other than for repair.

TERMS

Invoices are payable at the main office in Greenfield, in New York or Boston funds, net 30 days from date rendered or 2 per cent discount payment in ten days.

Shipments are F.O.B. cars Greenfield or Millers Falls, Massachusetts. Freight allowed on one hundred pound shipments of Hack Saw Blades, Electric Tools or Metal Cutting Band Saws. These terms subject to any changes that may become necessary through government regulation.

ELECTROTYPES

The free use of our electrotypes for advertising purposes is extended to all of our customers. Electrotypes of our tools made from fine wood engravings will be supplied in two sizes: the size used in our large catalog and a small size for use in a 21/4-inch column. We cannot attempt to make up any other special sizes.

INVITATION

A most cordial invitation is extended to Jobbers, Distributors and Dealers to visit our factories and get acquainted with the personnel back of Millers Falls Tools.

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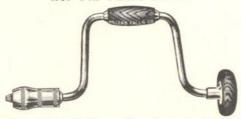
October 1949

MILLERS FALLS COMPANY

MILLERS FALLS



NO. 142 PLAIN BRACE



On many classes of work a ratchet mechanism on a brace is unnecessary and a plain or sleeve brace fills the requirements. This is a low-priced brace with inexpensive finish. Barber chuck with alligator iaws. Head is screwed securely to the quill, Head and handle mahagany stained hardwood. Exposed metal parts polished.

No. 142

Sweep 10

Weight 1 3/4 lbs. Packed six in a box AFILI

Price each \$2.00

RATCHET AUGER HANDLE



A heavy duty tool that can be operated by two men when desirable. It has a powerful ratchet mechanism, controlled by a small lever. It can be quickly changed from right- to left-hand ratchet or can be positively locked.

The handle shown at the right, the outer portion of which swivels freely, can be unscrewed from its normal position and screwed into the nex nut at the top of the frame to form a steady handle for use in corners or against walls or other obstructions.

Chuck holds practically all sizes of bit and auger shanks. Metal frame and handle ferrule black enameled. All other exposed metal parts nicely nickel plated.

No. 4

15"

3 lbs.

Code

CAGES

Price each \$6.20

Packed one in a box

NO. 2 AUGER HANDLE



A stout wood handle holding all sizes of bits and all but the largest sizes of ship auger shanks. Augers are held by two 3-inch steel clamps tightened by means of two wing nuts. Handle straight grained, selected ash.

Capacity—Regular Bit Shanks up to 2 inches; Ship Auger Shanks up to 2 inches.

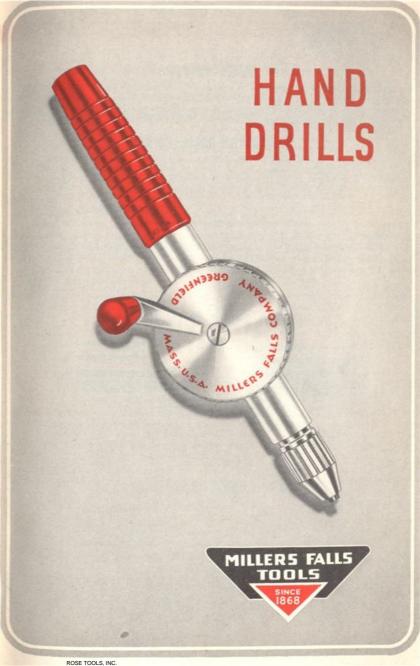
No. 2

17"

Weight 11/4 lbs.

Code CAGNE Price each \$1.50

Packed six in a box





DRILL POINTS

The straight fluted drill points shown below are for use in automatic or hand drills according to the type of shank with which they are fitted. They are made of a fine grade of tool steel, carefully hardened and tempered and well sharpened. They drill nice, clean holes in hard and soft woods soft metals, plaster, bone, wallboard and many other similar materials.

NEW STYLE DRILL POINTS



For Millers Falls and some other Automatic Drills

The shanks of these drill points have a slabbed base that seats very positively in the bottom of the chuck and a recess for a locking mechanism that prevents them from pulling out. They are made of fine tool steel properly hardened and carefully sharpened. Bright finish. Made in eight sizes as indicated above.

	Length	Code		Price
No. 401	2"	DETOR	Per Dozen	\$1.50
No. 401	2"	DETOT	Set of 8	1.10

FLUTED SHANK DRILL POINTS



For use in Millers Falls and Goodell-Pratt Automatic Drills

These drill points have fluted shanks for use in the two-jawed chucks of automatic drills. They are made of a fine grade of tool steel properly hardened and carefully sharpened. Made in eight size as indicated above.

	Length	Code		Price
No. 402	2 "	ZOTOZ	Per Dozen	\$1.50
No. 402	2"	ZOTPA	Set of 8	1.10

ROUND SHANK DRILL POINTS

No.	 App. Size	No.	App Size
1	 1/16	5 =	- ½
2	 564	6 =	%4
3	 3/12	7 =	3/12
4	 74.	9 🚐	114.

For use in Hand Drill Chucks

These points are identical to those above but with plain round shanks for use in any ¼-inch threejawed chuck. Made in eight sizes as indicated above.

	Length	Code		Price
No. 403	2 "	ZOTUB	Per Dozen	\$0.75
No. 403	2 "	ZOTVA	Set of 8	.55 N
	Packed one doze	en or one set in a metal screv	w capped plastic vial	



NO. 185A AUTOMATIC DRILL



A world-famous drill that has been made even finer by the addition of a new style chuck

The front portion of the tool is made of hollow brass tubes, on one of which a carefully machined spiral is cut. This runs through a spiral cut in the center nut, which is made of a very hard grade of bronze.

The finely knurled handle is of the magazine type, having individual compartments for the eight different size drill points. Each one of these compartments is numbered and below the number is a hole or gauge showing the size of hole drilled by the point in that compartment. Drill points are removed or returned by turning the hole in the rotating cap opposite the proper compartment and tipping out the point. Only one compartment opens at a time.

The chuck seats the drill points very positively and locks them securely so that they cannot be pulled out until the chuck shell is unscrewed.

One set of eight, No. 401 New Style Drill Points, 1/6 to 11/64 inch in diameter, regular equipment.

 Length
 Weight
 Code
 Price each

 No. 185A
 10"
 ½ lb.
 YEKIJ
 \$4.20

NO. 188A AUTOMATIC DRILL



This tool is built for the home and provides a highly efficient drill at a very reasonable price. Any man, woman, or child can use it to bore the many holes needed from time to time; for installing the many modern fixtures that go into every room in the house, and for innumerable other uses.

It drills eight different size holes quickly and with surprising ease in hard and soft wood, soft metals, wallboard, plaster, etc. The eight drill points are contained in the numbered compartments in the magazine handle. They are safely locked in until wanted.

To remove the desired size drill release the cap lock by slipping down the lock button, turn the hole in the cap opposite the proper drill compartment and tip out the drill.

Insert the drill selected in the four-jawed chuck, tighten the chuck nut and the tool is ready to use. Place the drill point where the hole is wanted and simply push down a few times, allowing the handle to spring back after each stroke, and there is a good clean hole.

The handle is jet black, molded bakelite with a polished aluminum band just below the rotating cap. The exposed metal parts are beautifully polished and nickel plated. The spiral driving mechanism is very well made and is practically indestructible with proper lubrication.

One set of eight, No. 402 Fluted Shank Drill Points, 1/6 to 11/4 inch in diameter, regular equipment.

 No. 188A
 Length
 Weight
 Code
 Price each

 6 ozs.
 YEKNA
 \$3.00

Packed one in a box





NO. 100 AUTOMATIC DRILL

The time-tested features and construction that have been built into Millers Falls and Goodell-Pratt automatic drills and have earned their well deserved popularity are found in this beautiful

Its uses are unlimited. It is an essential tool for carpenters cabinet makers, model and pattern makers, electricians, home workshop enthusiasts and home owners. It's the ideal tool for drilling lead holes for screws, nails, hooks, etc.

The barrel of the magazine handle is made of unbreakable red plastic and holds eight No. 402 fluted shank drill points 1/6, 1/4, 1/32, 1/4, 1/8, 1/4, 1/22 and 1/64 of an inch in diameter. The number and diameter of the point in any compartment is indexed on the ring above the barrel. The point wanted for use is obtained by pulling down the lock and turning the barrel until the proper number is directly below the hole in the cap. Tip up the drill and the point slips out.

The chuck holds the drill points securely when the chuck shell is screwed tight.

All exposed metal parts are either nickel plated and buffed or highly polished aluminum.

	Length	Weight	Code	Price noth
No. 100	91/8"	8 ozs.	YENOR	\$3.50

Packed one in a box



NO. 1006 DISPLAY UNIT

Complete with six No. 100 Drills

A compact, colorful wood display requiring less than one-half square foot of counter space, that really sells the No. 100 Automatic Drill because to see it is to want it. Nicely lacquered and silk screened in red, black, gray and white.

Width, 11 inches, depth, 41/2 inches, height, 91/2 inches.

No. 1006

\$21.00 YEDAX

Packed one unit in a carton

NO. 104 HAND DRILL

Single Speed, Enclosed Gears. Capacity O to 1/4 inch.

This newest and finest Millers Falls hand drill, of entirely new design, has already demonstrated its fine performance and dependability. Its beauty and smooth operation insure acceptance by craftsmen generally.

The frame and gear cover are die-cast aluminum. The steel spindle runs in an "Oilite" bushing against a thrust bearing. The steel pinion and machine-cut cast drive gear are entirely enclosed.

The handles are made of practically unbreakable, glossy red plastic, far more durable than wood. The screw cap end handle is hollow and is long enough to hold standard twist drills up to 1/4 inch.

The chuck, of new design, has three hardened jaws holding 0 to 1/4 inch drills.

One set of eight, No. 403 Drill Points, 1/6 to 11/64 inch diameter are regular equipment and are packed in the hollow end handle.

Frame and gear cover gray enamel, chuck nickel plated, handles glossy red plastic.

1 5/8 lbs. Packed one in a box WYDAM

Price each \$5.00



NO. 1044 DISPLAY UNIT

Complete with four No. 104 Hand Drills

This substantial wood display, lacquered and silk screened in three colors, is supplied entirely free with initial orders for only four No. 104 Hand Drills. Designed for counter use it requires only one-half square foot of space. This display brings this fine new drill to the attention of customers; makes it easy for them to handle and sells on sight.

Width, 11 inches, depth, 5 inches, height, 13 inches.

10 lbs.

Packed one unit in a carton

\$20.00



HAND DRILL

MILLERS FALLS

New



NOS. 2 AND 2B HAND DRILLS



Single Speed Capacity 0 to 1/2 inch

A strong, serviceable tool built on a sturdy cast frame. Three-jawed chuck with protected springs holds 0 to $\frac{3}{6}$ inch round shanks. Gear ratio $4\frac{1}{2}$ to 1. Spindle equipped with ball thrust bearing. Two steel pinions, one drive and one idling equalizer.

Frame nicely black enameled. Large gear red enameled with nickeled rim.

Exposed metal parts nickel plated and buffed. Tropical hardwood end handle with screw cap. Eight drill points, 1/6 to 11/6 inch in diameter, regular equipment.

No. 2B is exactly the same as No. 2 but with solid mahogany finished hardwood end handle and without drill points.

and the same of th	Capacity	Length	Weight	Code	Price ead
No. 2	3/8"	141/2"	21/2 lbs.	DAGER	\$6.50
No. 2B	3/8"	15"	25/8 lbs.	DAGOT	5.50
		Packed one	in a box		

NO. 308 HAND DRILL

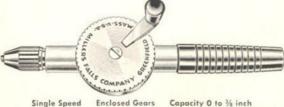


Detail showing cast iron

drive gear with machine

cut teeth solidly an-

chored to gear cover.



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The fine lines and finish of this new 1/8 inch drill are the same as No. 10¹ illustrated in color on page 25.

The frame and gear cover are die-cast aluminum with a gray enamel finish baked on. The steel spindle runs in an "Oilite" bushing against a thrust bearing. The steel pinion and the machine-cut cast drive gear are entirely enclosed. Handles are made of practically unbreakable, glossy red plastic, far more durable than wood. End handle is hollow with screw cap for holding standard twist drills.

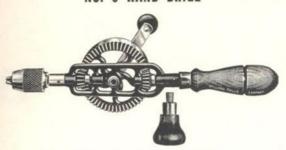
The nicely nickeled chuck has three hardened jaws that hold 0 to % inch round shank drills.

No. 308 26" Length Weight Code Price code
No. 308 26" 13 76" 2 1/s lbs. WYFOT \$6.20

Packed one in a box



NO. 5 HAND DRILL



Single Speed Capacity 0 to 1/4 inch

This drill is equipped with a wide rim on the large drive gear and can be easily grasped by the thumb and fingers to start small drills on delicate work. This gear is red enameled and the rim nicely polished and nickeled. The frame is black enameled. The drive and equalizing pinions are steel, nickel plated. All gears are machine cut.

The three-jawed chuck which holds 0 to ¼ inch round shank drills is nicely nickel plated. One set of eight, No. 403 Drill Points, ¼6 to ¼4 inch in diameter regular equipment; they are packed in the hollow screw cap handle which is made of fine tropical hardwood. Handle ferrules bright nickeled.

No. 5 1/4" 12 1/4" 1 1/4 lbs. DANGL \$6.00

Pocked one in a box

NO. 77A HAND DRILL



Single Speed Capacity 0 to 1/4 inch

A smooth operating drill that sells for a very moderate price. The frame is a smooth, black enameled die casting. The drive and equalizing pinions are steel, nickel plated. The solid large gear is red enameled. All agars are machine cut.

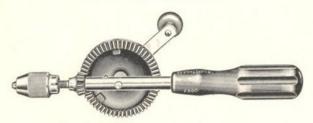
The nickel plated chuck holds 0 to 1/4 inch round shank drills. Handles mahogany finished hardwood.

No. 77 A Capacity Length Weight Code Price each
1/4" 12 1/2" 1 1/4 lbs. DETIG \$3.00

Packed one in a box



2500B HAND DRILL



Single Speed Capacity 0 to 1/4 inch

A popularly priced solid steel frame drill with a lot of dependable service built into it. Large gea is cast and finished in red enamel; the pinion is steel. Both gears have machine cut teeth. The three jawed chuck holds 0 to 1/4 inch round shank drills. Crank and end handles mahogany finished hardwood

No. 2500B

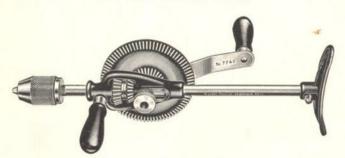
Length 105/4"

Weight 1 1/4 lbs.

Code DASUR

Packed one in a box

NO. 7740 BREAST DRILL



Capacity 0 to 1/2 inch Two-Speed

A sturdy, dependable drill offered at a very moderate price. The black enameled frame and breast plate are fastened together by a solid polished steel shank. The red enameled large gear can be easily shifted to two positions in the frame—one for high and one for low speed operation. Two separate steel pinions. All gears machine cut. All-steel chuck has three hardened jaws that hold same sterling construction as No. 118 above, but equipped with a Master chuck holding round shank 0 to 1/2 inch round shank drills. Handles mahogany finished hardwood.

No. 7740

Capacity 1/2"

161/2"

Length

4 3/8 lbs.

Code DAGIL

\$5.00 No. 12

Capacity Universal

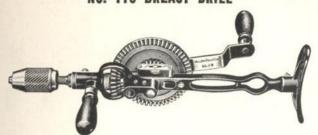
ROSE TOOLS, INC.

Length 171/2"

Weight 6 1/2 lbs. Packed one in a box

Code DEBUT Price each \$8.50

NO. 118 BREAST DRILL



Two-Speed

Level

Capacity 0 to 1/2 inch

A sturdy, two-speed drill built on a black enameled frame equipped with a well-protected spirit level. Black enameled breastplate. Large gear red enameled with polished, nickeled and buffed edge and rim. Nickeled steel pinion. Gear ratios 3 to 1 and 1 to 1. Nickeled extensible crank, Adjustable ball bearing spindle. Nickeled three-jawed chuck with protected springs holds 0 to 1/2 inch \$2.00 round shanks. Idler roll to equalize large gear bearing. Side and crank handles mahagany finished

All exposed metal parts nickel plated.

No. 118

Capacity 1/2"

171/2"

Weight 61/2 lbs. DECAD

MILLERS FALLS

Price each \$9.50

Packed one in a box

NO. 12 BREAST DRILL

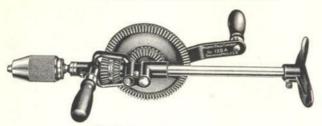


Two-Speed Level Capacity 1/8 to 1/2 inch round, Bit and No. 1 M. T. Shanks

drills, 1/8 to 1/2 inch in diameter, bit shanks and No. 1 Morse Taper Shanks.



NOS. 119A AND 120B BREAST DRILLS



Two-Speed Two Steel Pinions

These fine values in the medium priced field are built on strong black enameled frames. The breastplate is connected to the frame by a solid polished steel shank. Two speeds with ratios of 3 to 1 and 1 to 1 Large gear finished in red enamel. Ball thrust bearing on spindle. Side and crank handles mahagany finished hardwood. All exposed metal parts nicely polished.

No. 119A is equipped with a two-jawed chuck that holds $\frac{1}{8}$ to $\frac{1}{2}$ inch round and No. 1 Morse Taper shanks and regular square bit brace shanks. No. 120B is equipped with a Millers Falls three-jawed chuck with protected springs holding 0 to 1/2 inch round shank drills.

Capacity No. 119A Universal 1814 5 lbs. YEAWS No. 120B 1/3" 161/2" 4 5/8 lbs. DARED Packed one in a box

CHAIN DRILLS

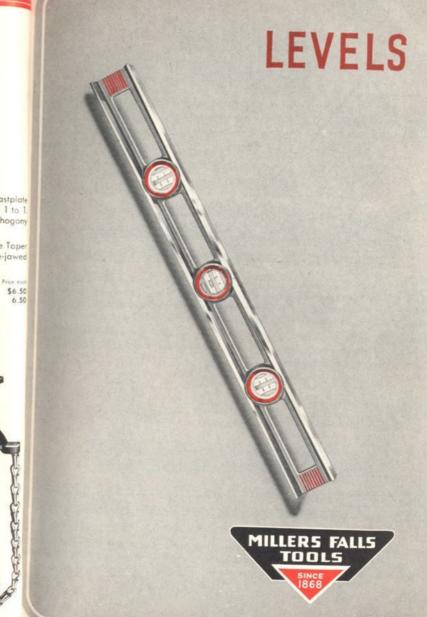
An auxiliary tool for use with a breast drill or bit brace when extra power is needed, or where pressure cannot be easily applied.

The drill is automatically fed into the work by an adjustable friction feed which is automatically regulated by the resistance the drill encounters. Drill breakage is, therefore, reduced to a minimum. Requires but a moment to adjust the chain. Reverse movement of brace withdraws drill. No intricate parts to get out of order. Hand feed can be used if desired. Four feet of stout chain with each drill, No. 719 illustrated.

No. 718	Copocity	Weight	Code	Price each
	1/8 to 1/2", No. 1 M. T. and Bit Shanks	4 1/2 lbs.	DECUR	\$8.00
140.719	0 to ½" Round Shanks	41/2 lbs.	DECLP	8.50

Packed one in a box





ROSE TOOLS, INC.



NO. 629 LINE LEVEL



A featherweight model with a cat's-eye vial set in a hexagonal aluminum tube. The hooks and guard are so designed that it snaps on to a level line very easily but cannot be jumped off.

Each level packed in a permanent container of transparent celluloid with a screw cap.

No. 629

Length

Weight 1/2 oz.

Code ZABLO Price equ \$0.60

Packed six in a box

New

DIE-CAST ALUMINUM LEVELS



Two level and four plumb vials

The frames of these fine new levels are made of smooth aluminum die castings. They are designed for maximum strength and rigidity. The two working faces are precisely ground to exact parallelism and nicely finished on four sides and ends. The body is attractively finished in gray and red ename

Excellent visibility and luminosity are provided by the large white vial wells in which the high quality vials are accurately and permanently set. They are well protected by glasses on both side sealed to prevent fogging or breakage.

	Dillie				
No. 618	18 x 2				
No. 624	24 x 2				
No. 628	28 x 2				
No. 630	30 x 2				

1/4 x 1" 1/4 x 1" 1/4 x 1"

Dimensions

1/4 x 1"

2 1/4 lbs. 21/2 lbs. 2 5/a lbs.

1 % lbs.

PENIT PENOL

Code

PENAN

PENEC

Packed one in a box

ALUMINUM MASONS' LEVEL



Two level and four plumb vials

This new level is made from an aluminum casting designed for maximum strength and rigidity without undue weight. Working faces precisely ground to parallelism. Sides polished and the body finished in gray enamel. Large white vial wells protected with sealed glasses. Six high quality vials.

No. 1042

42 x 21/4 x 11/4"

Weight 3 1/4 lbs.

Code PEBYK Price eoc \$12.0

Packed one in a box 32



WOOD LEVELS

The levels shown on this and the following page are made from the finest straight grain white pine procurable. The billets are thoroughly air seasoned and kiln dried and are filled and finished with care to make them as permanently moisture proof as possible and to maintain their accuracy.

None but high quality, accurately curved vials are used. They are precisely and permanently set and will remain that way unless abused. They are set in white wells for luminosity and protected by alasses on both sides and sealed in with putty.

NOS. 124 AND 130 WOOD LEVELS



Two level and two plumb vials

Made from a plain piece of straight grained white pine, thoroughly seasoned and kiln dried. Filled and finished with weather-proofing red lacquer. White, glass protected and sealed vial wells. Two hand grips on either side.

No. 124

Price ec

\$5.5

6.30

6.80 7.2

Dimensions 24 x 21/2 x 11/4' 30 x 21/2 x 11/4

Weight 1 1/2 lbs. 1 1/2 lbs.

Code PEFAM PEFUX Price much \$3.50 3.80

Packed one in a box

NOS. 312 AND 330 WOOD LEVELS



One level and one plumb vial

Same fine quality level as above but with only one level and one plumb vial but with a glass protected and sealed top view opening above the level vial. One hand grip on either side.

	Dimensions	Weight	Code	Price each
No. 312	12 x 21/2 x 11/4"	1 lb.	PEGAM	\$2.50
No. 318	18 x 21/2 x 11/4"	1 lb.	PEGIS	2.80
No. 324	24 x 21/2 x 11/4"	1 1/2 lbs.	PEGMY	3.20
No. 328	28 x 2½ x 1¼"	1 1/2 lbs.	PEGUN	3.40
No. 330	30 x 21/2 x 11/4"	1 1/2 lbs.	PEGYT	3.50

Packed one in a box

ROSE TOOLS, INC.



NO. 948 MASONS' LEVEL



Two level and four plumb vials Full Brass Binding

Made of straight grained, selected white pine thoroughly seasoned and kiln dried. Full brass binding on four edges and brass plates on the ends. Two level and four plumb vials accurately and permanently set in the three oval wells protected and sealed in by glass. Fine red finish makes it as permanently moisture proof and non-fogging as possible. Two hand grips on either side.

No. 948

Dimension 48 x 21/2 x 11/4

Weight 3 1/2 lbs.

Code PELIO Price each \$10.50

Packed one in a box

NO. 848 MASONS' LEVEL



Brass Ends Two level and four plumb vials

The same fine levels as above with brass end plates but without the brass binding. Two level and four plumb vials.

No. 848

48 x 21/2 x 11/4"

Weight 21/2 lbs. PEKAC

Price east \$7.75

Packed one in a box

NO. 448 MASONS' LEVEL



One level and two plumb vials

Similar to the levels above but with only one level and two plumb vials which are set in round glass protected and sealed wells. Red weatherproof finish.

No. 448

48 x 21/2 x 11/4"

Weight 2 1/2 lbs.

Code PEMAK

No. 296 \$5.00 No. 376 Extra Blades Length 97/8"

Weight 3/4 lb. Price each

NO. 590 TORPEDO LEVEL



One level, one 45 and one plumb vial

A beautiful level, unique in the materials used and its wider range of usefulness.

The body is moulded, glossy black bakelite, an ideal material for the purpose due to its great strength; impervious to moisture and the fact that it is affected less by temperature changes than either wood or metal.

The top plate is a heavy piece of polished "nickeloid" which sets flush with the body and gives ample protection to the level glass.

Two plumb, one 45° and one 90°, and one level vial are provided, all of the cat's-eye type, which affords better visibility in poorly illuminated places.

No. 590

Dimensions 9 x 11/4 x 3/4"

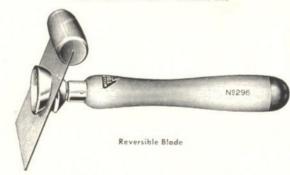
5 ozs.

YUOMO

MILLERS FALLS

\$1.50

NO. 296 FLOOR SCRAPER



This new scraper has a very quick, positive adjustment of the blade. It is equipped with a practical ball joint that permits setting the blade at a wide range of angles and pitches by simply loosening and tightening the handle.

The blade, which is reversible so all four edges can be used, is made of finest quality tool steel, 3 x 41/2 inches, hardened and tempered to hold the ideal scraping edge.

A large, well shaped blade handle is provided to which ample pressure can be applied without discomfort. Both handles are turned from selected hardwood and have a fine natural lacquer finish with green tips.

YICOM YOCAL

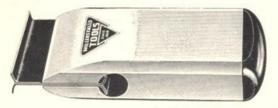
\$1.50 .30

Packed one in a box

Packed one in a box 34



NOS. 34 AND 35 WOOD SCRAPERS





Four Scraping Edges

The four fine tool steel scraping edges with which these scrapers are equipped make them an outstanding scraper value. Two edges are always in position ready for use and two more are available by simply reversing the scraper iron. No other scraper offers such value.

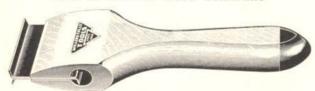
Blades fine tool steel carefully hardened and tempered and then ground and honed to a fine scraping edge.

Handles are of selected hardwood nicely finished in natural lacquer with a green tip.

	Width Blade	Length	Weight	Code	Price each
No. 34	21/2"	5"	6 ozs.	YOOLU	\$0.70
No. 35	1 1/2 "	5"	4 ozs.	YOOMA	.50
No. 346	Extra Blades for No. 34			YOONY	.40
No. 356	Extra Blades for No. 35			YOOPI	.25

Packed six in a box

NOS. 39 AND 51 WOOD SCRAPERS



Four Scrapina Edges

The paint brush type handle with which these scrapers are equipped greatly facilitates any scraping operation as it provides ample room to apply pressure and a sure comfortable grip in exerting the necessary pull.

They are equipped with new improved blades that give a finer surface with less effort. Each blade has four scraping edges. Two are always ready for use and the other two quickly available by simply reversing the blade in the handle.

The selected hardwood handles are nicely finished in clear lacquer with a green tip.

	Width of Blade	Length	Weight	Code	Price each
No. 39	21/2"	8 3/4"	6 ozs.	YADAT	30.70
No. 51	1 1/2 "	71/2"	4 ozs.	YAFVA	.50
No. 346	Extra Blades for No. 39			YOONY	.40
No. 356	Extra Blades for No. 51			YOOPI	.25

Packed six in a box

SCREW DRIVERS





New

NO. 29 AUTOMATIC SPIRAL RATCHET SCREW DRIVER

With Automatic, Quick Return

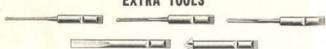
A new, automatic spiral screw driver particularly suited to the requirements of the hobbyist and householder. It is a high grade tool in every detail, sturdily built and nicely finished.

It drives or draws medium size screws smoothly, easily and with surprising rapidity. The spiral is just as carefully machined as on our larger sizes. The ratchet mechanism is entirely new and dependable. Action is controlled by simply turning the knurled shifter sleeve right or left as indicated on the stamped band. When set at 0, ratchet mechanism is locked.

One bright finish forged steel bit ¼ inch wide is regular equipment. The chuck and chuck sleeve, shifter sleeve and screw in handle end are nicely nickeled and buffed. The handle is made of hardwood with a nice mahagany lacquer finish.

	Length Extended with 8it	Weight	Code	Price Ent
No. 29	10 1/4 "	5/a lb.	GAKON	\$ 2.50
		bushed one in a basi	-	

EXTRA TOOLS



The drills, countersink and slim cabinet type screw driver bit listed below greatly increase the usefulness of the No. 29 screw driver. They are all made with shanks that fit the chuck. No. 329 Set of Points consist of one each 1/16, 1/14 and 1/12 inch diameter.

		Size	Code	Frice
No. 297	Cabinet Bit	*122 "	GEBAC	Doz. \$1.70
No. 298	Countersink	3/8 "	GEBAN	Doz. 4.00
No. 329	Set of Points	1/16" 3/4"-3/32"	GEBED	Set .60
No. 3291	Drill Point	1/16	GEBIF .	Doz. 2.00
No. 3292	Drill Point	364"	GEBIR	Doz. 2.00
No. 3293	Drill Point	3/22 "	GEBOM	Doz. 2.0

Cabinet Bit and Countersinks packed ¼ doz. in an envelope Drill Points packed ½ doz. or one set in a screw top vial



MILLERS FALLS

Total SPIRAL RATE

NO. 294 DISPLAY UNIT

The attractive display for the No. 29 screw driver and its attachment made of wood, lacquered and silk screened in three colors, is free will only four screw drivers.

		Weight	Code	Price
No. 294	Display Unit	3 3/4 lbs.	GIBBO	\$11.0

Complete with 4 No. 29 Screw Drivers and 1 each Nos. 329 Set of Points, 297 Screw Driver Bit, 298 Countersink and Display

Packed one unit in a carton

SPIRAL RATCHET SCREW DRIVERS

MILLERS FALLS



Automatically drives or draws screws, acts as a left- or right-hand ratchet or as a rigid screw driver.

These actions are all controlled by a simple shifting of the knurled control sleeve and the spiral lock nut.

The spiral is a solid rod of fine quality steel, precisely machined, running in two manganese bronze spiral nuts controlled by hardened tool steel ratchet pawls. Greatly increased life has been secured by nearly doubling the length of the spiral nuts.

Three sizes of special analysis steel blades, individually tested, are furnished as regular equipment.

They are quickly installed by drawing down the shell of the quick acting chuck, inserting the shank and turning it until seated and then releasing the chuck shell.

All exposed metal parts finely polished, nickeled and buffed. Mahagany finished hardwood handle.

	Length Extended with Bit Inserted	Length Closed with Bit Inserted	Weight	Code	Price each
No. 67A	12.5%"	9 3/8"	% lb.	GAILY	\$4.30
No. 61A	19.½"	1 4"	1 % lbs.	GALAX	4.90
No. 62A	25.½"	1 6 7/8"	1 % lbs.	GABEL	6.40



With Automatic, Quick Return

Same design and action as above, with the addition of a spring in the handle which automatically returns the handle for the next stroke. Makes one hand operation easy.

	Length Extended with Bit Inserted	Length Closed with Bit Inserted	Weight	Code	Price each
No. 670A	13 1/4"	8 1/8"	3/4 lb.	GALEA	\$4.90
No. 610A	20 1/2"	15"	1 1/2 lbs.	GALIO	5.60
No. 620A	27 "	18 1/8"	2 3/8 lbs.	GALOP	7.30

Packed one in a box

For extra Phillips and Standard Bits and Drill Attachments see page 46.



MILLERS FALLS BENCH PLANES

This fine line of planes has an instant appeal to craftsmen who know the true value of fine quality tools and it typifies the excellent design, workmanship and finish that are built into all Millers Falls Tools. These planes are sturdily built for fine performance. They earn through long, satisfactory service a pride of ownership that is the highest tribute that could be paid to their excellence.

Three noteworthy features that contribute to the fine performance of Millers Falls Planes are the exclusive three-point bearing lever cap, preventing chatter; the precisely fitted cutter cap, and the cutter iron which is made of one solid piece of carefully hardened and tempered tool steel nicely polished.

The bottoms are made of seasoned castings, reinforced for added strength, milled and nicely polished on the bottom and two sides. The sensitive, easily operated side and depth adjustments, rigidly seated frogs, self-aligning lever caps and comfortable rosewood knobs and handles all do their part in making this line the last word in planes.

The finish throughout is in perfect keeping with the high standards to which these tools are made.

BENCH PLANE IRONS





Double Iron

Single Iron

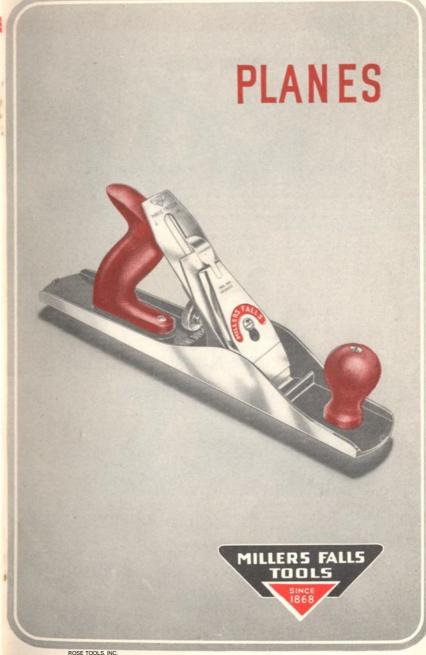
The heart of any plane is the cutter iron. Without a fine iron a plane cannot produce the smooth, easy cuts that are expected of an efficient, high quality tool.

Millers Falls Irons are made of one solid piece of selected tool steel heat-treated with the utmost care to the point where they will give excellent results in hardwood and still are not too hard to be honed back into condition readily when dulled. Being of one solid piece the iron is longer lived; therefore it can be sharpened over and over again.

The irons listed below used in Millers Falls Bench Planes can also be used in planes of several other makes.

Fitting Planes		Double	irons.	Single	Irons
Number	Width	Number	Price each	Number	Price each
8-8C-11	1 34"	1168	\$1.30	168	\$0.90
\$9-9C-14-14C 814-900	2"	2200	1.40	200	1.00
15-15C	2 1/4"	2228	1.60	228	1.20
10-10C-18-18C 22-22C	2 3/6"	2238	1.80	238	1.30
24-24C	2 %"	2258	1.80	258	1.30

Single Irons packed six in a box. Double Irons packed three in a box.



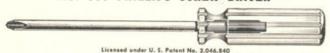


PERMALOID HANDLE SCREW DRIVERS

These handsome screw drivers are even more durable and efficient than they are beautiful, The handles are made of transparent bright red Permaloid, an unbreakable, cellulose acetate butyrous a very slow burning material of high dielectric strength ideal for a screw driver in every way. They are ribbed to give a positive grip and the lengths and diameters are ample for efficient, comfortable us

The blades are made of a fine grade of steel, heat-treated their entire length for extreme toughner the bits are cross ground, nicely finished. Each individual blade is torque tested.

NO. 850 PHILLIPS SCREW DRIVER



These drivers are designed to handle the Phillips recessed head screw which is gaining rapidly popularity. The blades are machined within very close limits to fit the screws perfectly. Blades nicely polished. Unbreakable, transparent red Permaloid handles of high dielectric strength and very slow burning.

	Phillips	Screw Size	Length Blade	Diameter Shank	Weight 8ox	Code	Frice est
No. 850	No. 1	0 to 4	3"	%4"	1/2 lb.	ZENAX	\$0.90
No. 850	No. 2	5 to 9	4"	1/4"	1 1/4 lbs.	ZENFO	1.05
No. 850	No. 3	10 to 16	6"	5/16"	2 lbs.	ZENKA	1.30
No. 850	No. 4	18 to 24	8 "	3/8"	3 1/2 lbs.	ZENRO	1.70

NO. 851 STANDARD SCREW DRIVER



Cross ground, standard type, round shank blades with nickeled and burnished finish. Unbreakable transparent red Permaloid handles of high dielectric strength and very slow burning.

	Length Blade	Diameter Shank	Weight Box	Code	Price dol
No. 851	4"	9/12 "	1 ½ lbs.	ZEODY	\$ 9.00
No. 851	6"	5/16"	2 lbs.	ZEOFA	12.6
No. 851	8"	3/8"	3 1/4 lbs.	ZEOHE	15.80
No. 851	10"	3/4"	4 1/2 lbs.	ZEOIT	17.20
No. 851	12"	3/8"	5 lbs.	ZEOJA	19.6

NO. 852 HEAVY DUTY SCREW DRIVER



Bits forged on the diagonal from fine quality square stock. Cross ground. Nickeled and burnished Unbreakable, transparent red Permaloid handles of high dielectric strength and very slow burning-

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No. 852	4"	1/4 x 1/4"	1 1/4 lbs.	ZEOJT	\$10.6
No. 852	6"	5/16 × 5/16"	2 1/4 lbs.	ZEOKA	13.2
No. 852	8"	3/8 × 3/8"	3 3/4 lbs.	ZEOKM	16.40
No. 852	10"	3/a × 3/a"	4 1/4 lbs.	ZEOKO	19.60
No. 852	12"	3/8 × 3/8"	5 lbs.	ZEOKR	22.40
		Packed si	ix in a box		



NO. 853 CABINET SCREW DRIVER



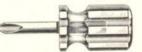
Rlades hammer-forged from high grade 1/16 inch round stock and tempered entire length. Cross ground. burnished nickel finish. Unbreakable, transparent red Permaloid handles of high dielectric strenath and very slow burning.

	Length Blade	Diameter Blade	Weight Box	Code	Price doz.
	3"	3/16"	3/4 lb.	ZEOKS	\$ 8.00
No. 853	6"	3/16 "	7/s 1b.	ZEOLA	8.50
No. 853 No. 853	8"	3/16"	1 lb.	ZEOLD	9.00
No. 853	10"	3/14"	11/8 lbs.	ZEOLE	10.00

STUBBY SCREW DRIVERS







Sturdy, well made tools for use in close quarters or to carry in the pocket. Blades are 11/2 inches long, forged from high grade 1/6 inch square stock. The unbreakable, transparent red Permaloid handles are of high dielectric strength and very slow burning.

	Size Blade	Length Blade	Weight Box	Code	Price
No. 854	5/4" Standard	11/2"	1/s 1b.	ZEOMU	\$6.40 doz.
No. 860	No. 1 Phillips	1 1/2 "	1/2 lb.	ZERAB	.80 each
No. 860	No. 2 Phillips	11/2"	7/s 1b.	ZEREM	.90 each
No. 860	No. 3 Phillips	1 1/2"	1 lb.	ZERLO	1.00 each

NO. 855 VEST POCKET SCREW DRIVER



The pencil clip with which this little screw driver is equipped makes it ideal for the vest pocket. The nickeled blade is made of 1/8 inch round stock, just right size to handle innumerable screws too small for the ordinary driver. The handle is unbreakable, transparent red Permaloid of high dielectric strength and very slow burning.

Weight Box Code Price doz. Diameter Blade Length Blode \$3.00 No. 855 2" 1/8" 1/4 lb. ZEORA

Packed six in a box



RATCHET SCREW DRIVERS



The smooth, sturdy ratchet mechanism built into this well-known tool has been thoroughly time tested. It is controlled by turning the knurled shifter sleeve to any one of three positions giving right- or left-hand ratchet or positive action, as desired.

The blade is forged from high quality screw driver steel. Ratchet housing is steel with hardened tool steel ratchet pawls and spring steel springs.

Exposed metal parts polished and nickel plated. Handle mahogany lacquered hardwood.

	Length Blade	Weight Box	Code	Price each
No. 63	3"	1 3/4 lbs.	GANIL	\$1.20
No. 63	4"	1 % lbs.	GAPER	1.30
No. 63	6"	3 1/4 lbs.	GARTH	1.60
No. 63	8 "	3 5/8 lbs.	GARUM	1.80
		Packed six in a box		



Particularly adapted for radio, electrical and cabinet work where small screws are used. The cabinet type blade can be spun by merely turning the knurled collar at the base of the blade between thumb and fore finger. The same dependable ratchet mechanism is used as in the No. 63 above, gives right-and left-hand ratchet and rigid actions.

Blade nicely polished, other metal parts polished and nickel plated. Handle mahogany lacquered hardwood.

	Length Blade	Weight Box	Code	Price each
No. 55	2"	1 lb.	GATCH	\$1.15
No. 55	3 "	1 lb.	GATER	1.20
No. 55	4"	1 1/8 lbs.	GATHA	1.20
No. 55	6"	1 1/4 lbs.	GAUDY	1.30
		Destant state to a beau		



Exactly the same mechanism as the heavy sizes of No. 63, with a short, stocky blade and handle for use by gunsmiths, locksmiths, electricians, mechanics and others who need a heavy duty ratched driver. Three actions: right- and left-hand ratched and rigid.

Exposed metal parts polished and nickel plated. Handle mahogany lacquered hardwood.

	Length Blade	Length Overall	Weight Box	Code	Price each
No. 59	11/4"	61/4"	2 1/2 lbs.	GAWBY	\$1.70
		Packed	six in a box		

NO. 676 STEEL HEAD SCREW DRIVER



Torque Tested Blades

An extra fine quality screw driver with a steel head set into the end of the handle and everlastingly locked directly to the shank of the blade. The more hammering on the head, the tighter this lock becomes.

The blades are hammer-forged from a fine quality of tool steel selected for its remarkable toughness when properly heat-treated. The shanks have long, wide wings forged on them that preclude any chance of turning in the handle. The handles, of excellent shape and fluted to give a good grip, are made of selected hardwood with a fine mahagany lacquer finish. The handle is protected by a heavy steel ferrule pinned through the blade.

The blades are highly polished and the steel head and ferrule nickel plated.

	Length Blade	Diameter Blade	Weight Box	Code	Price daz.
No. 676	3 "	3/22 "	1 1/4 lbs.	ZAJUZ	\$ 6.80
No. 676	4	9/32 "	1 3/4 lbs.	ZAJVE	7.40
No. 676	5-	5/16"	2 1/2 lbs.	ZAJYO	7.80
No. 676	6	5/16"	2 % lbs.	ZAKAV	8.00
No. 676	8 *	3/8"	4 lbs.	ZAKIX	10.80
No. 676	10"	3/6"	4 1/2 lbs.	ZAKOZ	12.20
No. 676	12"	3/8"	5 lbs.	ZAKUB	14.40

Packed six in a box

NO. 909 SCREW DRIVER



Torque Tested Blades

The same fine screw driver described above but without the steel head. No finer general purpose screw driver can be made.

Finely polished tool steel blade. Pinned nickel plated ferrule and mahogany lacquered hardwood handle.

	Length Blade	Diameter Blade	Weight Bax	Code	Price doz.
No. 909	2"	7/32 "	3/4 lb.	ZIASP	\$ 5.50
No. 909	3 "	7,22	1/a lb.	ZIAWS	5.50
No. 909	4"	9/32 "	1 3/4 lbs.	ZIAXT	6.00
No. 909	5 "	1 16 "	1 % lbs.	ZIBBO	6.20
No. 909	6"	3/16	2 lbs.	ZIBIZ	6.50
No. 909	8 "	3/8"	3 1/4 lbs.	ZIBUC	9.20
No. 909	10"	3/8	3 3/4 lbs.	ZIBWA	9.60
No. 909	12"	3/a"	4 1/a lbs.	ZIBYE	11.50
No. 909	18"	3/8"	5 1/2 lbs.	ZICEZ	18.0Q

Packed six in a box



NO. 7777 SCREW DRIVER



Torque Tested Blades

A sturdy, serviceable screw driver made in the five most saleable lengths. Blades are hammer-forged from specially tough steel, hardened and tempered their entire length. Forged lugs on shank prevent turning in handle. Blades and ferrules nickel plated and burnished. Hardwood handle finished in black lacquer with red end. Fluted for sure grip.

	Length Blade	Diameter Shank	Weight Box	Code	Price doz.
No. 7777	3"	7/32 "	1 3/4 lbs.	GICAB	\$2.60
No. 7777	4 "	9/32 "	2 1/2 lbs.	GIDED	2.90
No. 7777	5"	5/16"	3 3/4 lbs.	GIFFO	3.45
No. 7777	6"	3/14"	3 1/a lbs.	GIGLA	3.45
No. 7777	8"	3/8"	6 1/4 lbs.	GIHUN	4.85
		Packed one o	lozen in a box		1600000

NO. 355 CABINET SCREW DRIVER



Torque Tested Blades

Manufactured from the best materials obtainable for the purpose and finished in keeping. The blades are hammer-forged from a high grade tool steel, carefully hardened and oil tempered and nicely polished. The handles are made of hardwood, fluted to give a good grip and nicely finished in mahogany lacquer. Handles are protected by heavy steel ferrules, securely pinned on.

	Length Blade	Diameter Blade	Weight Box	Code	Price dos.
No. 355	2 1/2"	7/32 "	7/a lb.	YIWAY	\$4.80
No. 355	3 1/2"	7/32 "	7/a lb.	YIWEZ	5.00
No. 355	4 1/2"	7/32 "	1 lb.	YIWIB	5.20
No. 355	51/2"	7/22 "	1 lb.	YIWOC	5.60
No. 355	61/2"	7/32 **	1 1/a lbs.	YIWUD	6.00
No. 355	8 1/2 "	7/32 "	1 1/4 lbs	YIZAB	7.60
		Parked	riv in a box		

NO. 331 JEWELERS' SCREW DRIVER



A slim, light screw driver of the best quality suitable for the most delicate work. The blades are hammerforged from the best quality tool steel, carefully hardened and tempered.

The handles are hardwood with a fine mahogany lacquer finish. They are protected with a nickelplated steel ferrule.

	Diameter Blade	Weight Box	Code	Price do:
2 "	%4"	3/s lb.	YINPA	\$3.85
3"	9/4"			4.10
4"	964"			4.40
5"				
				4.85
				5.30
	2	2" %4" 3" %4" 4" %4" 5" %4"	2" %4" % lb. 3" %4" % lb. 4" %4" ½ lb. 5" %4" ½ lb. 6" %4" % lb.	2" %4" % Ib. YINPA 3" %4" % Ib. YINSO 4" %4" ½ Ib. YINSO 5" %4" ½ Ib. YINUT 5" %4" ½ Ib. YINYV 6" %4" % Ib. YIOCH

NO. 69 STUBBY SCREW DRIVER

MILLERS FALLS



A tool small enough to be unnoticed in the side pocket and still fits the palm of the hand so snugly and with such a positive grip that screws out of all proportion to its size are driven or drawn with ease.

An invaluable tool for general repair work, machine adjustments, appliance repairs, and all work in close quarters.

The finely polished tool steel blade, $1\frac{1}{2}$ inches long, is set in a fluted hardwood handle finished in natural lacquer and protected with a heavy steel ferrule.

	Length Blade	Overall	Weight Box	Code	Price each
No. 69	1 1/2"	4 1/2"	14 ozs.	YALKA	\$0.30
		Packed	six in a box		

NO. 199 OFFSET SCREW DRIVER



This unique driver is equipped with four blades, two at either end set at right angles to each other and the pair at one end set at 45° from the pair at the other. This provides a blade position for eight positions of the screw slot, making it possible to handle screws otherwise inaccessible. Provides power for starting or setting large screws.

Blades are machined from fine quality manganese tool steel, hardened and tempered for maximum toughness. Nicely finished.

	Length	Weight Sox	Code	Price each
No. 199	5 1/4"	1 1/8 lbs.	YELOW	\$0.50
		Packed six in a box		

NO. 797 OFFSET SCREW DRIVER



A wonderful tool for reaching out-of-the-way screws, starting frozen ones, or wherever a lot of power is necessary. Forged from a fine grade of octagon steel, carefully hardened and tempered, with the bits nicely polished. Blades are set at right angles to one another, and on opposite sides of the handle. Made in two sizes, 4¼ and 6¼ inches.

	Length	Stock	Weight Box	Code	Price doz.
No. 797	41/4"	1/4"	1 1/4 lbs.	ZEGMO	\$3.15
No. 797	61/4"	3/8"	3 lbs.	ZEGNA	6.00
		Packed one	dozen in a box		



SCREW DRIVER BITS



An unexcelled line, hammer-forged from the best quality of steel procurable for the purpose. Carefully hardened, tempered and nicely polished.

Points carefully formed and accurately finished to fit the slots of the size screws for which they are intended. Shanks well finished to fit securely in two-jawed or bit brace chucks. Length, 5 inches overall.

	Size	Size Screws	Weight Box	Code	Free doz
No. 351	1/16"	6 to 8	1/2 lb.	YIVOB	\$4.00
No. 351	5 16 "	8 to 12	1/2 lb.	YIVUC	4.00
No. 351	9%6"	12 to 16	3/4 lb.	YIVWA	5.20
No. 351	7/16"	16 to 20	7/a lb.	YUHTE	5.20
No. 351	8/16"	20 to 24	7/8 lb.	YUHUX	5.20
No. 351	Asst. 1/4-3/8"	6 to 16	5/8 lb.	YUNIC	4.40

Packed six in a box

BITS FOR SPIRAL RATCHET SCREW DRIVERS

For Standard Slotted Screws

								P	rice
Fitting	Width	No.	Width	No.	Width	No.	Weight Doz.	Set	Der
Nos. 67-670	5/22"	1516	3/16"	1515	732 "	1514	3/4 lb.	\$0.90	\$3.60
Nos. 61-610	3/16"	1201	7/32"	1202	1/4"	1203	7/s 1b.	.90	3.60
Nos. 62-620	1/4"	1166	9/32"	1168	5%"	1167	1 lb.	.90	3.60

For Phillips Recessed Head Screws



Licensed under U. S. Patent No. 2,046,840

No.	Fitting	Philips Size	Weight Doz.	Price doz.
P17	Nos. 67-670	No. 1	3/4 lb.	\$5.75
P27	Nos. 67-670	No. 2	3/4 lb.	5.75
Pll	Nos. 61-610	No. 1	3/4 lb.	5.75
P12	Nos. 61-610	No. 2	3/4 lb.	5.75
P13	Nos. 61-610	No. 3	3/4 lb.	5.75
P22	Nos. 62-620	No. 2	3/4 lb.	5.75
F23	Nos. 62-620	No. 3	3/4 lb.	5.75

CHUCK AND DRILL ATTACHMENTS

For Spiral Ratchet Screw Drivers





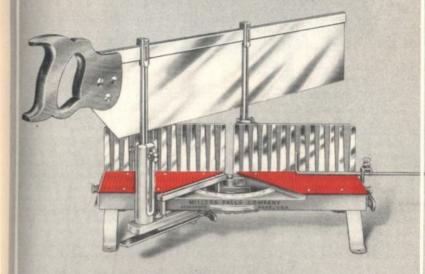


These attachments for the spiral ratchet screw drivers on page 39 convert them into an efficient automatic drill for boring small holes, greatly increasing the utility of the driver. The chuck has a ball lock that holds New Style, No. 401 Drill Points securely. It has a knurled tightening nut which is nicely polished, as is the shank. Eight sizes of drills, ½ to ½ inch in diameter.

	For Use with Screw Driver	Drill Points	Sizes	Weight	Code	Price epih
No. 6700	Nos. 67A and 670A	3	1 to 3	1/s 1b.	GAMOT	\$0.70
No. 6100	Nos. 61A and 610A	8	1 to 8	1/4 lb.	GAMIC	1.30
No. 6200	Nos. 62A and 620A	8	1 to 8	1/4 lb.	GAMOX	1.30
	The state of the s					

Packed one in a round wooden box

MITRE



ROSE TOOLS, INC.





MILLERS FALLS

ALL STEEL MITRE BOXES



UNBREAKABLE ALL-STEEL CONSTRUCTION THROUGHOUT

Every part in the assembly of this fine box is made of steel. It is unbreakable and free from replacements or repairs. The design and construction guarantee continuing accuracy of angular and vertical cuts and lasting durability.

The swinging lever, carrying the posts and saw guides which operate in them and the locking devices, swings freely from 45° to 90° left or right. It can be positively set at the most used angles by means of the lever lock which engages the precisely located notches on the lower side of the argulated guadrant. Or it may be set at any intermediate angle by means of the compression lock.

The extra long saw guides are equipped with three point "Oilite" bronze bearings giving almost effortless saw travel. They also have adjustable gauges for maintaining the proper maximum depth of cut with relation to the bed plates after saw filing. The guides hold the saw in the elevated position illustrated, when not in use, by means of automatic spring catches located in the posts. Depth gauges located on the side of the posts limit the cut to any desired depth.

A length gauge is provided on one end and a stop on the other end of the bed for cutting angles more acute than 45° and holding work against the back. The bottom plates are roughened to keep the work from slipping.

Each box is thoroughly tested for accuracy using the high grade back saw that is shipped with it. Boxes without saws are available but their accuracy cannot be guaranteed.

The bed, back, swinging lever, posts and legs are finished in black enamel; the bed plates in red enamel. All exposed metal parts nicely nickel plated.

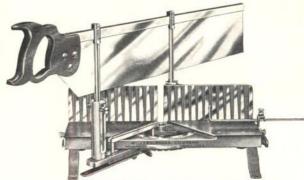
Capacity of all sizes, with swinging lever extended, is 10½ inches at right angle, 7¼ inches at mitre. Length of bed 19% inches; width 4½ inches; height of back 3¾ inches.

		Prices Complete	with Saw
	Size Saw	Net Weight	Shipping '
No. 1244C	24 x 4"	211/2 lbs.	271/2
No. 1264C	26 x 4"	22 lbs.	28
No. 1285C	28 x 5"	23 lbs.	31
No. 1305C	30 x 5"	231/2 lbs.	31
No. 1306C	30 x 6"	25 lbs.	33
		Prices witho	ut Saw
No. 1002C for 4"	Saw	18 lbs.	22
No. 1003C for 5"	Saw	19 lbs.	23

No. 1004C for 6" Saw

Net Weight	Shipping Weight	Code	Price each
211/2 lbs.	271/2 lbs.	ZITRE	\$45.40
22 lbs.	28 lbs.	ZITUV	46.00
23 lbs.	31 lbs.	ZITWY	50.00
231/2 lbs.	31 lbs.	ZIUGH	54.00
25 lbs.	33 lbs.	ZIUHJ	57.00
Prices withou	it Saw		
18 lbs.	22 lbs.	ZIRNA	32.80
19 lbs.	23 lbs.	ZIROR	35.80
20 lbs.	24 lbs.	ZIRPE	39.00
Packed one in a	carton		

LANGDON ACME MITRE BOXES



Three Point "Oilite" Bronze Bearing Saw Guides

Langdon Acme has always been the outstanding metal mitre box. Now, more than ever, it is the most desirable box made.

The one piece cast bed and back have been redesigned for much greater strength and are precisely milled at right angle to one another. The legs are made of steel and are extended for greater stability.

The extendable, swinging lever is now made of solid steel as are the posts and saw guides. The saw guides are equipped with three "Oilite" bronze bearings providing easier and smoother saw travel.

Mounted on the steel posts in which the saw guides operate are adjustable depth gauges to regulate the depth of cut and also stops to hold the guides and saw elevated for quick changing of work on the bed. Still another adjustment is provided on the guides to maintain the proper maximum depth of cut with relation to the bed plates and to compensate for filing of the saw.

The swinging lever travels freely from 45 to 90° right or left and locks automatically at the most used angles. It can be locked at any intermediate angle by means of the additional compression lock.

A length gauge is provided on one end of the bed and a stop for cutting acute angles or holding work against the back on the other. The bed plates are steel scored to prevent slipping.

The highest quality back saws are supplied, each tested for accuracy in the box with which it is shipped. The accuracy of boxes shipped without saws cannot be guaranteed.

The bed, back, swinging lever, posts and legs are finished in gray enamel. The bed plates are red enameled. All exposed metal parts, except the saw, nickel plated.

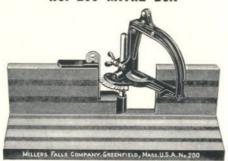
Maximum capacity of all sizes $10\frac{1}{2}$ inches at right angle; $7\frac{1}{4}$ inches at mitre. Length of bed $19\frac{1}{4}$ inches; width $4\frac{1}{2}$ inches; height of back $3\frac{1}{4}$ inches.

		Prices Comple	te With Saw		
No. 72C No. 73C No. 74C No. 75C	Size Saw 24 x 4" 26 x 4" 28 x 5" 30 x 5"	Net Weight 27 ½ lbs. 28 lbs. 29 lbs. 29 ½ lbs.	Shipping Weight 33 ½ lbs. 34 lbs. 37 lbs. 37 ½ lbs.	Code LADDE LADIM LADLE LAGER	\$45.40 46.00 50.00 54.00
No. 1071C No. 1074C	For 4 inch saw	Prices With 24 lbs. 25 lbs.	28 lbs. 29 lbs.	LAIRD #	32.80 35.80
		0.1.1.1			

Packed one in a carton



NO. 200 MITRE BOX



The frame of this box is made of laminated wood. The saw guide is designed so that either a back or panel saw may be used.

The saw guide is mounted on a steel post and can be adjusted freely for various angles and heights It is provided with three screws for adjustment to the thickness of the saw blade used.

A steel index plate, indexed and clearly marked for the six commonly used angles, 0, 9, 221/2, 30, 36 and 45°, right or left, is fixed to the saw guide. To set the guide at any one of these angles the steel slide key in the frame of the box is lifted and the guide swung until the proper notch in the index plate is opposite the key. The key is then pushed down until it seats firmly in the notch.

Any intermediate angles can be obtained by using the thumb screw at the back of the saw guide. This thumb screw is also used for setting the guide at any desired height.

When a back saw is used exact depths can be sawed by raising the saw guide on its post to the proper height so that the shoulders provided prevent the saw going below the desired point.

Bed filled and lacquered. All castings black enameled.

No. 200 16 x 4 3/4 x 4"

Weight 7 lbs

Code LITER

Price and \$10.00

Packed one in a carton

NO. 214 SAW SET



A sturdy set of pistol grip design with a powerful leverage that makes it easy to obtain a positive and uniform set on any saw with a pitch of from 2 to 14 teeth per inch. Good visibility so that the hardened, triangular-shaped plunger can be centered quickly and surely on the tooth to be set.

The anvil is carefully hardened and is quickly adjustable to the pitch of tooth to be set. This adjustment is locked by means of the upper knurled thumb nut. An adjustable steel guide is also provided.

Frame and handles are finished in gray and red enamel. All steel parts nickel plated except the hardened anvil.

Capacity Pitches No. 214

2 to 14

Weight 1 1/2 lbs.

Price each YEPRA \$2.80

Packed one in a box



CARPENTERS' COMBINATION SOUARES



Etched Graduations

Level and Scriber

These are accurate, well-finished squares, made especially for the carpenter. They can be used as a try square, mitre square, depth gauge, marking gauge or as a level or plumb.

The steel blades are 9 or 12 inches long and 1 inch wide, accurately graduated in 8ths and 16ths on one side and 16ths and 32nds on the other. The graduations and figures are clearly etched not stamped.

The beam has accurately milled working faces with polished edges and black enameled web. It has a cat's-eye level vial accurately set in the body which can be used either as a level or a plumb. A sturdy, well-pointed scriber is also supplied.

The beam can be slipped along the scale and locked at any point by tightening the knurled thumb nut.

No. 9500 No. 1200 Length Blade Weight 9" 14 ozs. 12" 15 ozs.

Code ZOPER ZISPA

Price each \$1.60 1.70

Packed one in a box



Hew

Etched Graduations

An accurate, well-finished square made especially for the carpenter. It serves a number of important functions such as try square, mitre square, depth gauge or marking gauge.

The steel blade is 12 inches long and 1 inch wide. It is well finished and clearly and accurately graduated in 8ths and 16ths on one side and 16ths and 32nds on the other. Both figures and graduations are extremely legible as they are deeply etched — not stamped.

The working faces of the beam are accurately milled with polished edges. The web is finished in glossy black enamel. When the knurled binder nut is loosened the blade can be moved to left or right as desired and locked at any point.

No. 1000

Length Blade 12"

Weight 14 ozs.

Code ZIRAD Price each \$1.40

Packed one in a box



NO. 365 DIAMOND POINT AWI



Forged Blade with Steel Bolster

This good tool has thoroughly demonstrated its quality in the hands of thousands of users. Its usefulness is almost unlimited and no tool box or shop is complete without one. It is indispensable for laying out work on wood, soft metals and other similar materials; making holes for starting nails or screws and innumerable other uses.

The blade is hammer-forged tool steel, carefully hardened, tempered and polished. It runs clear through the handle and is locked into a steel head set flush with the end of the handle. The handle, protected by a heavy, nickel plated steel ferrule, is selected hardwood with a natural lacquer finish and is fluted to give a good grip. These flutes also prevent the tool from rolling.

No. 365 3 1/2"

63/4"

Packed six in a box

3 ozs.

YOANE

Price dos \$8.00

Weight 8 ozs.

YETRE

Price each \$2.40

MILLERS FALLS

Packed one in a box

NO. 10 AWL



A smaller, lower priced awl that is equally useful. The blade, 25% inches long, is nicely pointed, tapered and polished. The blade is securely set in a solid, hardwood handle protected by a nickel plated ferrule. Handle finished in natural lacquer.

No. 10

Blade 31/2"

1 oz.

YOALO

Price doz. \$2.10

Packed one dozen in a box NO. 211 TACK CLAW



The blade of this very efficient tool is carefully shaped and finished for pulling tacks and small, headed nails rapidly and with little or no effort. It is forged from a high grade of 1/32 inch steel, hardened, tempered and polished. The comfortable, hardwood handle is protected by a nickel plated ferrule and nicely finished in mahogany locauer.

No. 211

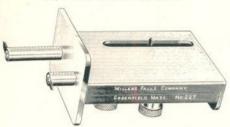
Length Overall 7"

Weight 3 1/2 OZS. Packed six in a box

YEPIX

Price each \$0.40





The installation of butts and hinges has been simplified and speeded up by the redesign and improvement of this tool.

The body is made of two smooth die castings. The rods are steel, accurately graduated, with sharp, hardened, double edged spurs that make legible marks easily.

Working faces of the body are polished with the rest of the body finished in gray enamel. Rods and knurled set screws nickel plated.

No. 227

31/2"

CARPENTERS' PLUMB BOBS

These plumb bobs are accurately machine turned from cold rolled steel with the points carefully sharpened. They hang true and insure positive accuracy in plumbing and leveling.

They are nicely polished and nickel plated.

Length 234" No. 2 31/2" No. 3 No. 4

OTS. OZS. 7 1/2 ozs.

12 ozs. Packed six in a box

Code Price each LLOYD \$0.40 LOACH .50 LIVER .70 LOANY .90





A strong, rugged tool with a head having four different faces, any one of which can be used in the working position and set at any desired height up to 11/4 inches. Spring automatically raises hook when lock is released. These adjustments are controlled by the lock screw in the center arm. Quickly and easily installed by simply boring two holes: one 2 inches in diameter 7/16 inches deep, and one 1 inch in diameter clear through the bench and setting two screws.

The steel hook is nickel plated. The edge of the socket is polished and the inner surface red enameled.

No. 56

ROSE TOOLS, INC.

Max. Lift 11/4"

Weight 11 ozs.

Code UVID Price eoch

\$1.65

Packed six in a box

52











Rose Pattern for use in mild steel, iron and soft metals

These countersinks with square bit brace shanks, available in three diameters, are hammer forged from a high quality of tool steel carefully hardened and tempered. The flutes are milled and the cutting edges ground. Angle 82°.

	Diameter	Length	Weight	Code	Price dos.
No. 396	1/2"	4 1/4"	2 ozs.	YOFIM	\$8.00
No. 396	5/8"	4 1/4"	2 ozs.	YOFOX	8.00
No. 396	3/4"	4 1/4"	2 ozs.	YOFME	8.00
		Packed	six in a box		

NO. 394 COUNTERSINK



Two lipped for wood and other soft materials

Hammer forged from high quality tool steel with two cutting lips and square bit brace shank carefull hardened and tempered. Head and body polished. Angle 82°.

	Diameter	Length	Weight	Code	Price dos
No. 394	3/4 "	4 1/4"	2 ozs.	YOFEM	\$8.00
		Packed	six in a box		



No. 410

1/2"

NO. 410 COUNTERSINK





Weight

1 oz.

For use in Power Tools

For countersinking holes to admit the heads of standard screws in mild steel, iron, soft metals, wood and similar materials. Turned from a high quality tool steel with milled flutes and ground edges Fitted with 1/4 inch round shank for use in three-jawed chucks of hand or power driven drills. Nicely polished. Angle 82°.

hank Length
/4" 1 5%"

Packed one dozen in a box

NO. 4100 DISPLAY UNIT

COUNTERSINKS AND SCREW DRIVER BITS

A bright, very substantial unit that displays these small tools to excellent advantage and originates many sales.

The base is made of solid pine and the upright panel of masonite. It is lacquered and silk screened in three colors, red, gray, and black.

Base 5" by 6 3/4"; Height 9".

Supplied entirely free with the following assort-

6 No. 410 Countersinks
4 No. 394 Countersinks
2 No. 396 ¾" Countersinks
3 No. 396 ½" Countersinks
6 No. 351 Ass*t Screw Driver Bits

No. 4100 Display Unit Complete

\$12.60

Packed one unit in a carton



Hew



MILLERS FALLS

NO. 11 BIT EXTENSIONS

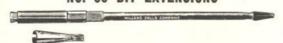


Designed to follow an 11/16 inch bit or larger but not recommended for bits larger than 12/16 inch. A neat, strong extension of the solid socket type with socket forced on to the shank and pinned. Chuck shell made of heavy seamless tubing is controlled by a coarse thread operated by turning the knurled collar. Entire tool nicely polished.

4	Length	Weight	Code	Price each
No. 11	18"	1 lb.	CAMEL	\$3.40
No. 11	21"	1 1/8 lbs.	CAMFO	3.55
No. 11	24"	1 1/4 lbs.	CAMIS	3.65

Packed one in a box

NO. 35 BIT EXTENSIONS



Designed to follow an 11/16 inch bit or larger but not recommended for continuous use on bits larger than 13/16 inch. The one-piece socket and shank construction of this extension makes it very strong. Chuck shell of extra heavy steel tubing. Drop-forged steel jaws positively seated in socket hold bits securely and in good alignment. Chuck operated by turning knurled collar. Upper hexagon portion for tightening with a wrench when desirable.

N	Length	Weight	Code	Price each
No. 35 No. 35 No. 35	18"	13 ozs.	CABIO	\$3.40
	21"	14 ozs.	CACKO	3.55
	24"	16 ozs.	CADDY	3.65

Packed one in a box

Price do

54.8

Code

YOFTO



NO. 240 Chisel and Plane Iron Sharpener





A very simple but efficient device for putting a fine edge on chisels, plane irons and other edged tools

It overcomes the imperfections of free-hand sharpening and honing, insures a perfectly flat beve at any desired angle, saves time and prolongs the life of the blade.

The blade is held rigidly in the holder by means of the lower knurled thumb screw and the angle adjustment is controlled by the upper thumb nut. Still further angle adjustment can be secured by changing the position of the blade in the clamp.

After firmly clamping the blade, place the tool on an oilstone or hone and adjust to the desired angle or bevel. The roller bearing rolls freely on the stone and a keen edge is secured in a minimum of time

No. 240

Copocity 2 5/2 " Weight

Code

\$ 1.80

Packed one in a box

NO. 36 BIT GAUGE



Fits any type of auger bit, clamping securely to the twist of the bit. Clamp controlled by two steel wing nuts. Two smooth shoes prevent marring of the work. Entire tool nickel plated.

No. 36

Length 2"

Weight 4 ozs. Code

Price and \$0.75

Packed six in a box



Price each

EXPANSIVE BITS



No. 48

A finely made and finished bit of the Clark Pattern with spurs, cutting edges, throats, screws and cutters designed to function in unison to give a fast, clean cutting bit. Made of the highest quality special bit steel throughout. Each bit equipped with two cutters.

All parts of the bit highly polished except the square shank.

No. 47 No. 48	1/2 to 1 1/2" 1/2 to 3 "	% lb. 1/2 lb. Packed one in a box	BARDO BOLLO	\$1.90 3.10
		Extra Cutters		
	Fitting		pocity	Price doz
No. 1	No. 47	1/2	to 7/a"	\$4.10
No. 2	No. 47	7/8	to 1 1/2"	5.05
No. 3	No. 48	7/8	to 1 3/4"	7.15
No. 4	No. 48	1 3/4	to 3 "	8.50
No. 5	No. 48	3	to 4 "	12.75
No. 6	No. 48	4	to 5 "	17.00

SCREW ADJUSTING EXPANSIVE BITS



No. 151



No. 151

A finely made and finished bit with a positive screw adjustment of the cutter which absolutely prevents shifting even in the toughest woods. The cross feed screw meshes with the cutter and also the plate. One complete turn of screw increases or decreases diameter of hole 1/8 inch.

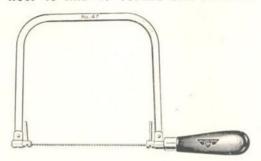
The deep, clean cut screw, sharp spurs and cutting edges make it an extremely easy boring bit. Two cutters. All parts of the bit highly polished except the square shank.

10. 152	% to 3 "	½ lb. BOMIT	3.40
	Po	ocked one in a box	
		Extra Cutters	
	Fitting	Copocity	Price doz
0. 1	No. 151	5/a to 1 1/a"	\$3.90
0. 2	No. 151	1 1/s to 1 3/4"	4.85
10.3	No. 152	3/s to 1 3/4"	6.80
0.4	No. 152	13/4 to 3 "	7.75
0. 5	No. 152	3 to 4 *	11.60
10.6	No. 152	1 105 1	15.45

Be sure to specify number of bit cutters are to fit



NOS. 43 AND 47 COPING SAW FRAMES



These fine frames are identical except for their depth of throat. The frame is made of 3/16 x 3/16 ind round edge spring steel. The studs are designed for holding 6 or 61/2 inch coping saw blades of the loop, pin and other types. The pins set firmly in the studs permit the blade to be turned in any desired direction. Tension on the blade is controlled by turning the mahogany lacquered hardwood handle One No. 65 blade furnished with each frame.

All exposed metal parts heavily nickel plated and buffed.

	Depth Throat	Weight	Code	Price es
No. 43	4 3/4"	6 ozs.	IRIAN	\$1.2
No. 47	61/2"	9 ozs.	IRITO	1.4
	No. 12 norbed as so a bas	No 47 -	mehad faus in a hav	

NO. 50 COPING SAW BLADES

These blades of the loop or turned end pattern are made of fine steel uniformly heat-treated to produce excellent results. The teeth are keen and properly set for fast, clean cutting.

	Size	Weight Gross	Code		Price gra
No. 50	6 x 1/16"	6 ozs.	IROUS	Wired	\$3.00
No. 50	6 x 1/16"	6 ozs.	IROUX	In Envelopes	3.10
Packed one do:	zen in an envelope or	in bulk in wired bundl	es of one gross cons	sisting of 12 bundles of or	ne dozen ead

NOS. 60 AND 65 COPING SAW BLADES

Pin pattern blades are heavier, cut faster and straighter and will outwear the finer tooth blades. Both

fit the Nos. 43	and 47 Coping Saw Fra	mes.		
	Size	Weight Gross	Code	Price graf
No. 60	6 x 3/52"	9 ozs.	ISCHI	\$3.30
No. 65	61/2 × 3/32"	11 ozs.	ISIAC	3.30

Packed one dozen in an envelope



NO. 106 CARVING TOOL SET

A set of six carefully selected tools to give as wide a range of operation and effects as possible in wood, linoleum, soap and similar materials.

The blades are forged from high quality steel, carefully heat-treated to hold a keen edge and nicely polished. The handles, protected with nickeled ferrules, are hardwood with a mahogany lacquer finish.

Set consists of one each of the following tools:

A	516"	Straight Chisel			\$0.75
B	3/8"	Bent Chisel		.65	
C	1/4"	Skew Bevel Chi		.65	
D	3/8"	Bent Gouge			.75
E	1/12"	U Tool			.75
F	3/32"	Veining Tool			.85
			Length		Weight
No.	106		61/4"	1	1/2 lb.

Price set YAYNA \$4.40

Packed one set in a box

NO. 107 CARVING TOOL SET



This inexpensive set has started thousands in the fascinating hobby of wood and linoleum block carving. It is particularly suited for the Boy Scouts and many other handicraft groups.

The blades are forged from high quality steel, carefully heat-treated and nicely finished. The hardwood handles, which fit snugly into the palm of the hand, are finished in clear lacquer. They are flatted on one side so they are in proper position when picked up from the bench.

The set consists of one each of the following:

10	ille sei	consists of one edul of it	ie ronowing.
3	3/8"	Bent Chisel	\$0.65
0	3/4"	Skew Bevel Chisel	.65
0	3/2"	Bent Gouge	.75
E	3/32 "	U Tool	.75
=	3/32 "	Veining Tool	.85
		Sharpening Stone	.35
			Orien carl

YOYOL

\$4.00

Weight 3/4 lb. Packed in a lacquered lock corner wood box with slide cover

58

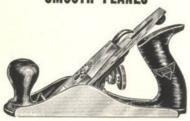
ROSE TOOLS, INC.

No. 107





SMOOTH PLANES



Quick, easy, depth and side adjustments of irons. Irons one solid piece of high quality tool steel nicely ground and polished. Bottoms and sides milled and well polished. Inside of bottoms finished in glossy black enamel. Adjustable frogs finished in red enamel. Selected rosewood knobs and handles. Lever caps polished, nickeled and buffed.

		SWOOTH B	SOTTOM		
	Length	Width Iron	Weight	Code	Price each
No. 8	8"	1 3/4"	3 1/8 lbs.	EATER	\$6.60
No. 9	9"	2"	3 1/2 lbs.	EAMES	6.90
No. 10	10"	2 3/8"	4 % lbs.	EAMAT	8.40
		CORRUGATED	ВОТТОМ		
No. 8C	8"	1 3/4 "	3 lbs.	EAWEL	6.80
No. 9C	9"	2"	3 % lbs.	EAMOG	7.10
No. 10C	10"	2 3/6"	4 1/2 lbs.	EAWOR	8.70

JACK PLANES



Quick, easy, depth and side adjustments of irons. Irons one solid piece of high quality tool steel nicely ground and polished. Bottoms and sides milled and well polished. Inside of bottoms finished in glossy black enamel. Adjustable frogs finished in red enamel. Selected rosewood knobs and handles. Lever caps polished, nickeled and buffed.

		SMOOTH E	SOTTOM		
No. 11 No. 14 No. 15	Length 11 ½" 14" 15"	Width Iron 1 3/4" 2 " 2 1/4"	Weight 3 ½ lbs. 4 ½ lbs. 5 ¾ lbs.	Code EAWIT EAWUG EARLS	\$7.20 7.50 10.50
		CORRUGATED	ВОТТОМ		
No. 14C No. 15C	14" 15"	2"	4 3/4 lbs. 5 5/8 lbs.	EAVAD EAVOQ	7.70 10.80
		All the above stones -	andread in the		

All the above planes packed one in a box

FORE PLANES



Quick, easy, depth and side adjustments of irons. Irons one solid piece of high quality tool steel nicely ground and polished. Bottoms and sides milled and well polished. Inside of bottoms finished in glossy black enamel. Adjustable frogs finished in red enamel. Selected rosewood knobs and handles. Lever caps polished, nickeled and buffed.

		SMOOTH	BOTTOM		
	Length	Width Iron	Weight	Code	Price each
No. 18	18"	2 3/8"	6 5/8 lbs.	EABON	\$11.00
		CORRUGATE	D BOTTOM		
No. 18C	18"	2 3/4"	6 1/4 lbs.	EACOR	11.30

JOINTER PLANES



Quick, easy, depth and side adjustment of irons. Irons one solid piece of high quality tool steel nicely ground and polished. Bottoms and sides milled and well polished. Inside of bottoms finished in glossy black enamel. Adjustable frogs finished in red enamel. Selected rosewood knobs and handles. Lever caps polished, nickeled and buffed.

SMOOTH	ROTTOM	

Price each
\$13.40
15.00
13.70
15.40

All the above planes packed one in a box



GLASS CUTTERS AND WHEELS

There are several fine details that enter into the manufacture of Millers Falls Glass Cutters that are not generally appreciated. A very fine grade of alloy steel is used in making the wheels which of course, are the vital part of the tool. The wheels must be machined with precision to provide in the exact bevel on the edge for maximum cutting efficiency, exactly the right diameter hole for the pin on which it is to rotate, and the exact width for the frame in which it is to run.



The heat treatment given the wheels is unique and extremely precise — being held within very close limits. The process is the result of fifty years of research and experience in the perfection of these small cutters.

After hardening and tempering, the wheels are twice honed in oil on exceedingly fine India wheels to the critical angle or bevel that gives the easiest cut, cleanest break and the longest life on the grade of glass they are intended to cut.

Every Millers Falls Glass Cutter is actually tested on glass by a skilled operator before final acceptance. They are strung on wire and sealed for positive identification as to type.

ype	
	Red Seal
1	Blue Seal
	Black Seal

Fitting Cutters Nos.	Frice do
1 and 478	\$1.0
337 and 444	1.5
218	1.0

Packed one dozen or ten dozen in an envelope

NO. 444 GLASS CUTTER



The perfect finger-fitting form of the frame of this cutter has made it a tremendously popular too It drops into natural position between the first two fingers and can be used for hours without fatigue or discomfort.

It is equipped with a tested Type D wheel set in a well-polished frame with three standard width of breaker notches. The handle is finished in bright blue enamel with a red tip.

No. 444

Price do Weight doz Length 51/4" YOMVE \$3.50 1 3/2 lbs. Packed one in a carton; one dozen cartons in a box



NO. 4412 FREE DISPLAY

The attractive counter display unit illustrated, holding twelve cutters, will be supplied entirely free with an initial order for two dozen No. 444 Cutters Weight of display only 5/8 lb.

NO. 1 TURRET HEAD GLASS CUTTER

This is the original turret head glass cutter patented by Goodell-Pratt which has earned and maintained such a remarkable reputation for fine performance and low cost operation. Henceforth, this popular cutter will be branded Millers Falls.

The turret is turned from a solid bar of selected steel with the six wheel axles, integral parts of the turret. Infinite care is taken in the heat treatment so that the axles will outwear many wheels. The turret and turret screw are rust-proofed by the Udelyte process.

Six honed and tested Type C "Red Seal" wheels are mounted on the turret axles. Turret and wheels are locked to the highly polished and nickel-plated steel frame by means of a rust-proofed screw. Wheel No. 1 is used until worn out, then the screw is loosened and wheel No. 2 rotated into position and so on until all six have been used. Always insist on genuine Type C Wheels for replacements.

The handle is hardwood, comfortably shaped, nicely finished in mahagany lacquer and protected by a buffed nickel ferrule.

Every genuine No. 1 Turret Head Cutter has the Millers Falls name stamped on the frame and handle and is packed in a distinctive three-color carton.

> Length 53%"



MILLERS FALLS

WYBCE

\$7.00

7/a lb. Packed one in a box; twelve boxes in a display carton illustrated above

Weight day.

NO. 337 GLASS CUTTER



A nicely balanced cutter with a comfortable handle on the end of which is a breaker ball that has sufficient weight to get excellent results.

It is equipped with a high grade tested Type D wheel set in a well-polished frame. The three standard widths of breaker notches are provided. The handle is finished in black and the breaker ball in red.

No. 337

Length

Weight doz. 1 1/2 lbs. YIRUX

Price doz. \$3.50

Packed one in a carton; one dozen cartons in a box



NO. 478 CIRCULAR GLASS CUTTER



Circles or arcs of circles from 2 to 12 inches in diameter are quickly and accurately cut with this tool

It is equipped with a tested Type C wheel set in a head at the end of a graduated beam. Wheel can be replaced very easily. The beam pivots freely in the metal standard so that the complete circle can be cut in one continuous sweep. To free the circle without breakage, six or more tangents should be cut with a straight cutter.

No. 478

Copacity 2 to 12" Weight 1/2 lb.

YOSAZ

Price ead \$2.00

Packed one in a box

NO. 218 GAUGE GLASS CUTTER



The most practical tool ever designed for cutting the gauge glass ordinarily used in steam and hot water boilers and liquid gauges.

Owing to the very hard glass used in these gauges this cutter is supplied with a tested special Type F "Black Seal" wheel which is set at the end of a graduated steel beam and cuts from the inside giving a good clean break. The wheels are easily replaced. The length of glass cut off is determined be setting the sliding gauge on the graduated arm. The second steel beam merely counterbalance the cutting pressure on the outside wall of the tube. The steel beams are nicely polished and nickeled Maximum cut six inches. Handles finished in red and black lacquer.

No. 218

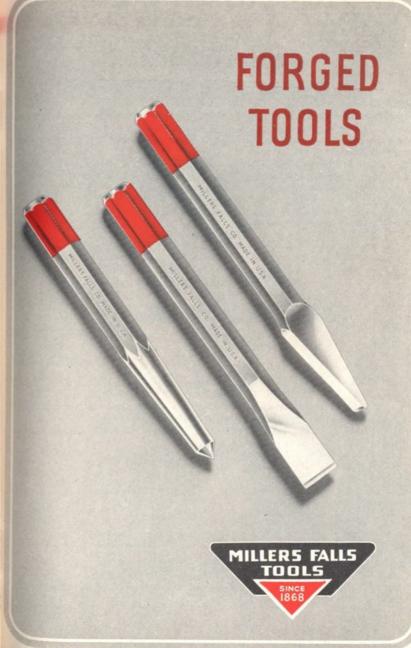
12 1/2"

Weight 3/4 lb.

YERRO

\$2.2

Packed one in a box





NO. 1216 STAR DRILLS



These drills have remarkable free, fast cutting ability in concrete, brick and stone.

They are forged from a high grade of octagon alloy steel selected for its toughness and ability to hold an edge. The bit and head are carefully hardened and tempered for the severe service expected of them.

The bits and flutes are designed and proportioned to give ample strength and provide adequate chip clearance. The flutes taper back slightly and their outer face is ground concentric with the bit to insure free turning. The bit is pointed just enough to start holes easily at the desired point and keep it centered. The blades are long to permit resharpening without reforging.

The blades are polished and the head of the tool is finished in vermilion lacquer with polished face The body is finished in aluminum lacquer

	Diameter of cut	Diameter of stock	Length	Packed per box	Weight	Code	Price dec
No. 1216	1/4"	3/16"	12"	12	2 1/a lbs.	ZOKLA	\$6.00
No. 1216	3/16"	1/4"	12"	12	2 1/4 lbs.	ZOKLY	6.60
No. 1216	3/8"	716"	12"	12	3 1/a lbs.	ZOKME	6.80
No. 1216	7/16"	3/8"	12"	12	4 5/a lbs.	ZOKMO	7.50
No. 1216	1/2"	3/8"	12"	6	4 3/a lbs.	ZOKOP	7.80
No. 1216	9/16"	7/16"	12"	6	6 1/4 lbs.	ZOKOS	8.40
No. 1216	5/8"	1/2"	12"	6	8 1/8 lbs.	ZOKPO	9.00
No. 1216	3/4 "	5/6"	12"	6	121/2 lbs.	ZOKYR	9.60
No. 1216	7/8"	5/8"	12"	6	12 1/2 lbs.	ZOKYT	11.20
No. 1216	1"	3/4 "	12"	3	17 3/8 lbs.	ZOLAM	12.00
No. 1216	1 1/4"	7/8"	12"	3	25 lbs.	ZOLAS	15.60
No. 1216	1 1/4"	7/8"	12"	3	31 1/2 lbs.	ZOLEN	21.00
No. 1216	1 3/8"	1"	12"	1	32 1/4 lbs.	ZOLET	26.40
No. 1216	1 1/2"	1 1/8"	12"	1	36 3/4 lbs.	ZOLIP	30.00

NO. 470 CHISEL AND PUNCH SET

A most useful set of twelve forged chisels and punches put up in a convenient turned hardwood box with a mahogany lacquer finish.

The set consists of the twelve tools listed below which are fully described on the following pages.



No. 470

IN	0. 573	1/22"	Taper Pin Punch
IN	0. 573	1/8"	Taper Pin Punch
1 N	o. 1140	1/8"	Cape Chisel
1 N	o. 1140	1/4"	Cape Chisel
1 N	0. 1150	1/4"	Cold Chisel
IN	0, 1150	3/8"	Cold Chisel
1 N	o. 1150	1/2"	Cold Chisel
1 N	0. 1178	5/32 "	Diamond Point Chisel
1 N	0. 1190	1/4"	Round Nose Cape Chisel
1 N	0. 1195	5/2"	Solid Punch
1 No	0. 1199	3/8"	Prick Punch
			Center Punch

Each tool forged from octagon alloy steel, carefully hardened and tempered with well ground and polished points and heads. Code

> 2 1/2 lbs. YORAY Packed one set in a box

No. 1178 No. 1178

No. 1178

Price set

\$4.90

No. 1150 No. 1150 No. 1150 No. 1150 No. 1150

No. 1140 No. 1140 No. 1140 No. 1140

No. 1140 No. 1140

No. 1190 No. 1190 No. 1190

FORGED TOOLS

MILLERS FALLS

The chisels and punches shown on this and the following pages are hammer-forged from a high arade of octagon alloy steel selected for its extreme toughness. The care exercised in heat-treating results in a uniformly high grade chisel. The blades and heads are ground and nicely polished. The heads have a distinctive vermilion lacquer finish.

NO. 1150 COLD CHISELS

	- 100						
	Width of blade	Diameter of stock	Length overall	Packed per box	Weight	Code	Price doz.
0	1/4"	1/4"	5"	12	7/a lb.	ZUKER	\$3.20
0	3/8"	3/16"	5"	12	1 3/4 lbs.	YOOKE	3.70
0	1/2"	3/8"	5"	12	2 3/8 lbs.	YOOLV	4.00
0	5/8"	1/2"	6 1/2"	6	4 1/4 lbs.	YUZYR	6.60
0	3/4"	5/8"	7"	6	7 lbs.	ZABAM	8.90
0	1"	7/8"	8 "	3	151/2 lbs.	ZEAHY	15.40

NO. 1140 CAPE CHISELS

		Mille	MILLERS FALLS CO. No. 1160			
Width of blade	Diameter of stock	Length	Packed per box	Weight dozen	Code	Price doz.
1/8"	3/8"	5"	12	1 5/8 lbs.	YOORC	\$4.50
3/16"	3/8"	5"	12	1 3/4 lbs.	ZEENG	5.00
1/4"	3/8"	5"	12	1 % lbs.	YOOPZ	5.50
516"	1/2"	6"	6	3 3/4 lbs.	ZEEPH	7.50
3/8"	5/8"	7"	6	6 1/2 lbs.	ZEERK	10.00
1/2"	3/4"	7 1/2"	6	10 1/4 lbs.	ZEEWP	13.80

NO. 1190 ROUND NOSE CAPE CHISELS

		Mau	RS FALLS CO. No.	1190		
Width of point	Diameter of stock	Length	Pocked per box	Weight dozen	Code	Price doz.
1/8"	3/8"	5*	12	1 5/a lbs.	ZUMTE	\$4.50
1/4"	1/2"	6"	6	3 3/8 lbs.	YOPAV	7.50
3/8"	5/8"	7"	6	6 3/8 lbs.	ZUMUX	10.00

NO. 1178 DIAMOND POINT CHISELS

1	the fill				B)	
Width of point	Diameter of stock	Length	Packed per box	Weight	Code	Price doz.
5/32"	3/8"	5"	12	1 3/4 lbs.	YOOVG	\$3.40
1/4"	1/2"	6"	6	3 3/4 lbs.	ZULVO	6.40
3/8"	5/8"	7"	6	7 lbs.	ZUMAS	9.00



No. 1199

NO. 1202 CENTER PUNCHES



	Diameter of stock	Length	Packed per box	Weight	Code	Price dos
No. 1202 No. 1202	3/8" 1/2"	5" 51/2"	12	1 3/4 lbs. 3 1/4 lbs.	YOPUB	\$4.00 6.60

NO. 1199 PRICK PUNCH



NO. 1195 SOLID OR TINNERS' PUNCH



NO. 1208 ALIGNING OR DRIFT PUNCHES



Indispensable tools for construction work, in automotive shops, farms, or any job where holes must be brought into close alignment for riveting or bolting.

The long, evenly tapered points on these fine tools are very highly polished to a mirror finish so that they drive easily and loosen up readily. They will not bend or break.

	Diameter of point	Diameter of stock	Length	Pocked per box	Weight	Code	Price do
No. 1208	3/16"	1/2"	10"	3	5 1/8 lbs.	ZUNUZ	\$10.0
No. 1208	1/4"	5/8"	12"	3	9 1/8 lbs.	ZUNVE	

66

MILLERS FALLS TOOLS

NO. 573 TAPER PIN PUNCHES



Forged from a high grade of octagon alloy steel, $\frac{3}{6}$ inch in diameter, except the two smallest sizes which are $\frac{1}{6}$ inch. They are carefully heat-treated and the points and heads well ground and polished. They have the same distinctive vermilion lacquered head that is used on the rest of the punch and disel line.

		Diameter		Weight		
	Size	of stock	Length	dozen	Code	Price doz.
No. 573	3/12"	1/4"	5"	3/4 lb.	YUMEZ	\$4.40
No. 573	1/8 "	1/4"	5"	3/4 lb.	YOHYT	4.40
No. 573	5/22 "	3/8"	6"	1 3/4 lbs.	YUMIB	4.40
No. 573	3/16"	3/8"	6"	1 3/4 lbs.	YOILT	4.40
No. 573	7/22"	3/8"	6"	1 3/4 lbs.	YUMOC	4.40
No. 573	3/4"	3/8"	6"	1 % lbs.	YOIPY	4.40
No. 573	716"	3/8"	6"	2 1/8 lbs.	YOIRB	4.40
No. 573	3/8"	3/8"	6"	2 3/8 lbs.	YOJAP	4.40
		Pa	cked one dozen	in a box		
				Weight	Code	Price set
No. 472 Set	of 5: (1/8, 1/16,	1/4, 1/16 and 3/8")		7/a lb.	YOREZ	\$1.80

NO. 572 PIN PUNCH SET

Packed one set in a box

A useful and convenient set made up of the eight sizes of punches shown above, as follows: one each 3/2, 1/8, 3/32, 3/6, 3/32, 1/4, 3/6 and 3/8".

The container is a round hardwood block and cover nicely turned and finished, providing a convenient holder.

The state of the s	· · · · · · · · · · · · · · · · · · ·		
	Weight	Code	Price set
No. 572	2 lbs.	YUMCO	\$4.00

Packed one set in a box



NO. 433 CHISEL AND PUNCH SET

A set of four quality tools selected by and made up for several nationally known aviation training schools.

The four tools consist of:

1 No. 573 ½2" Pin Punch 1 No. 573 ½2" Pin Punch 1 No. 1150 ¾2" Cold Chisel

These are all hammer-forged from high grade octagon alloy steel with polished points and heads. The case is made of a serviceable fabric with artificial leather covering.

No. 433 8 oz. YORAB \$1.70

Price des.

\$4.00

Price det

\$4.00

ROSE TOOLS, INC.



NO. 681 MACHINISTS' PIN PUNCHES



These punches are made from a very high grade of round tool steel about four inches long. The centers are knurled and the points, shanks and heads nicely polished. Every punch is very carefully hardened and tempered its entire length. Blued finish.

	Points	Stock	Weight doz.	Code	Price doz
No. 681	1/16"	3/16"	3/4 lb.	ZALIZ	\$2.60
No. 681	3/32 "	916"	3/4 lb.	ZALOB	2.60
No. 681	1/8"	9/16"	% lb.	ZALUC	2.60
No. 681	3/32"	3/14"	7/s lb.	ZALWA	2.60
No. 681	3/16"	3/16"	1/2 lb.	ZALYE	2.60
No. 681	7/22"	\$16 °	1/a lb.	ZAMAY	2.60
No. 681	1/4"	3/8"	1 1/4 lbs.	ZAMCO	2.60
No. 681	3/16"	3/6"	1 1/4 lbs.	ZAMEZ	2.60

Packed one dozen in a box

NO. 997 HOLLOW PUNCHES



These punches are made from a very high grade of round tool steel about four inches long. The centers are knurled to insure a firm grip. They are very carefully hardened and tempered their entire length. The cutting edges are sharpened.

Made in fifteen sizes as follows:

	Size	Hole	Size body	Weight doz.	Code	Frice dat
No. 997	1	964"	3/8"	1 1/a lbs.	ZINKA	\$4.60
No. 997	2	3/52"	3/8"	1 Va lbs.	ZINLE	4.60
No. 997	3	764	3/8"	1 1/a lbs.	ZINNO	4.60
No. 997	4	1/8"	3/8"	1 1/a lbs.	ZINON	4.60
No. 997	5	964"	2/6"	1 1/a lbs.	ZINUP	4.60
No. 997	6	5/22"	3/8"	1 1/a lbs.	ZIOXY	4.60
No. 997	7	346"	3/8"	1 1/a lbs.	ZIPAL	4.60
No. 997	8	7/32"	7/16"	1 1/2 lbs.	ZIPEM	4.60
No. 997	9	1/4"	7/16"	1 1/2 lbs.	ZIPLA	4.60
No. 997	10	9/32 "	716"	1 1/2 lbs.	ZIPME	5.20
No. 997	11	3/16"	1/2"	1 3/4 lbs.	ZIPOP	5.20
No. 997	12	11/32 "	1/2"	1 3/4 lbs.	ZIPPO	5.20
No. 997	13	3/8"	9/16 "	1 3/4 lbs.	ZIPPR	6.80
No. 997	14	13/52"	916"	2 lbs.	ZIPRA	6.80
No. 997	15	7/16"	9/16 -	2 1/8 lbs.	ZIPRI	6.80

Packed one dozen in a box



NO. 460 CENTER PUNCH



Large square head provides large striking surface and prevents rolling. Hardened, tempered and carefully ground points and heads. Bodies nicely knurled, balance of tool nicely polished.

No. 460

Body Length Weight doz. Code Price doz.

17 ozs. MALTA \$2.00

Packed one dozen in a box

NOS. 141 AND 146 CENTER PUNCHES



Carefully ground, hardened and tempered points. Nicely knurled bodies. Shanks and heads polished.

	Body	Length	Weight dor.	Code	Price doz.
No. 141	3/6"	4"	7/a lb.	MALMA	\$1.85
No. 141	3/8"	4"	1 1/4 lbs.	MANCH	2.35
No. 141	1/2"	4"	2 1/4 lbs.	MANKS	3.20
No. 146	1/2"	5 "	2 3/4 lbs.	MANSE	3.80

Packed one dozen in a box

NO. 465 PRICK PUNCH



Large square head provides large striking surface and prevents rolling. Carefully formed point and head are hardened and tempered. Nicely knurled body.

No. 465 Body Length Weight doz. Code Price doz.

No. 465 \$\%\delta'' 4" 17 ozs. MARES \$2.00

NO. 167 PRICK PUNCHES



Carefully formed points and heads are hardened and tempered. Bodies nicely knurled, balance of tool polished.

No. 167 1/4" 4" 3/4 lb. MARRY \$2.10
No. 167 3/4" 4" 1 1/4 lbs. MARSH 2.60

Packed one dozen in a box



NO. 800 SERIES OF NAIL SETS





This is the toughest, most serviceable nail set ever offered. It is made of fine quality molybdenum alloy steel, hardened and tempered to stand up under a lot of hard usage. The carefully cupped points are formed to give a good bite and equalize the stresses and strains so as to eliminate breakage. The deep knurling on the body gives a sure and comfortable grip. The square heads provide a large striking surface and at the same time prevent rolling. Points and heads are nicely polished.

	Diameter Point	Body	Length	Weight doz.	Code	Price daz.
No. 801	1/22"	3/16"	4"	1 lb.	MOBAN	\$2.40
No. 802	3/52"	516"	4"	1 16.	MOBBO	2.40
No. 803	3/32 "	516"	4"	1 lb.	MOBEX	2.40
No. 804	4/32 "	516"	4"	1 lb.	MOBGA	2.40
No. 805	5/22"	5/16"	4"	1 lb.	MOBHI	2.40
No. 815	Assorted Dozen			1 lb.	MOBIL	2.40

Assortment consists of two each 1/12 inch and 1/12 inch and four each 1/12 inch and 1/



NO. 825 NAIL SET DISPLAY

This attractive display stand holding the No. 800 Series Nail Sets has demonstrated its ability to multiply the volume of Nail Set sales many times. It is made of wood, nicely finished and silk screened in red, yellow and black.

Free with initial order for three dozen No. 815 Assorted Nail Sets.

		Weight	Code	Price
No. 825	Display with three dozen Nail Sets	4 lbs.	MOBIX	\$7.20



NO. 310 NAIL SETS



A good sturdy set of conventional design. Regularly supplied with blued finish unless bright finish is specified. Points and heads hardened and tempered.

	Diameter point	Body	Length	Weight doz.	Code	Price doz.
No. 310	1/32 "	5/16"	4"	7/s lb.	MAGIC	\$1.80
No. 310	3/32 "	3/16"	4"	7/s lb.	MAGNA	1.80
No. 310	3/32 "	3/16"	4"	7/a lb.	MAGOT	1.80
No. 310	4/32 *	3/16"	4"	7/8 lb.	MAGUS	1.80
No. 310	3/32"	3/16"	4"	7/8 lb.	MAHOL	1.80
No. 310	Assorted			7/a lb.	MAHUT	1.80

Assortment consists of two each ½ inch and ½ inch and four each ½ inch and ½ inch
Packed one dozen of a size or assorted in a box

70





NO. 312 SET OF NAIL SETS

This set consists of one dozen assorted sizes of No. 310 Nail Sets put up in a turned hardwood box, as illustrated, finished in dear lacquer.

	Weight	Code	Price set
No. 312 Set	1 1/4 lbs.	MAINE	\$2.10
	Packed one set	in a box	



NO. 381 BEARING SCRAPERS



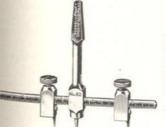
These bearing scrapers are the best made. The slightly curved, tapering and recessed blade is designed to do nice scraping without chattering.

The blades are forged from a very high grade of tool steel correctly hardened and so carefully tempered that they will scratch glass and hold their keen razor-like edge over a long period. After being dulled by long usage they can be easily sharpened by a few strokes on an oilstone.

Cutting edges well ground. Blades and shanks have a pleasing jetalize finish. Ferrules nickel plated. Hardwood handle finished in mahogany lacquer.

	Cutting edge	Length overall	Weight box	Code	Price each
No. 381	1 1/2"	8 "	3/4 lb.	YUNDO	\$0.80
No. 381	2 1/2"	10"	1 1/8 lbs.	YOCYP	1.05
No. 381	3 1/2"	11"	2 1/4 lbs.	YODAK	1.20
No. 381	4 1/2"	12"	3 lbs.	YODEL	1.30
		Packed six in	a box		
	One ed	och	Weight	Code	Price set
No. 740 Set	11/2, 21/2 and 31/2"	cutting edges	7/s lb.	ZAVIT	\$3.05
No. 471 Set	21/2, 31/2 and 41/2	" cutting edges	1 1/4 lbs.	YORCO	3.50

Packed one set in a box



NO. 82 GASKET CUTTER

An improved cutter with hardened and tempered tool steel cutters and point, both of which are easily replaceable. Cutters reversible to obtain maximum and minimum capacities. Heavy graduated steel beam flattened on top to give a good bearing for the knurled set screws. Hardened square bit brace shank. Made of steel throughout, well polished.

	Capacity	Weight	Code	Price each
No. 82	3/a to 6"	9 oz.	YADVT	\$3.00
	Pos	had one in a h	OX	

NOS. 92 AND 93 BRASS HAMMERS



These brass hammers will be found convenient and practical for use on finished work, or on any work where a soft hammer is desired. The brass heads and steel shanks are both nicely polished, and have hardwood handles with a mahagany lacquer finish.

	Head	Length	Weight	Code	Price each
No. 92	% × 1 3/4"	7 1/4"	5 oz.	YAUXT	\$1.25
No. 93	3/4 x 2 1/4"	8"	7 oz.	YAVEN	1.50
		Packed one in	n a box		

ROSE TOOLS, INC. 71



STEEL LETTERS AND FIGURES



These Steel Letters and Figures are made in two grades as specified below.

HAND CUT. The finest quality of stamp procurable. Every character guaranteed hand cut from the finest grade of tool steel. Recommended for use on all hard surfaces,

The faces are accurately formed, sharply cut and deeply relieved, insuring clear, legible impressions. Faces and well-formed heads are hardened and tempered with the utmost care to make these stamps the best and most economical for general industrial use on both hard and soft surfaces.

MACHINE MADE. The characters in these sets are formed on blanks of a good quality of tool steel by a specially developed machine process using superior master dies producing sharper, cleaner faces than usual. Ample relief is provided to produce clear, long-lived impressions.

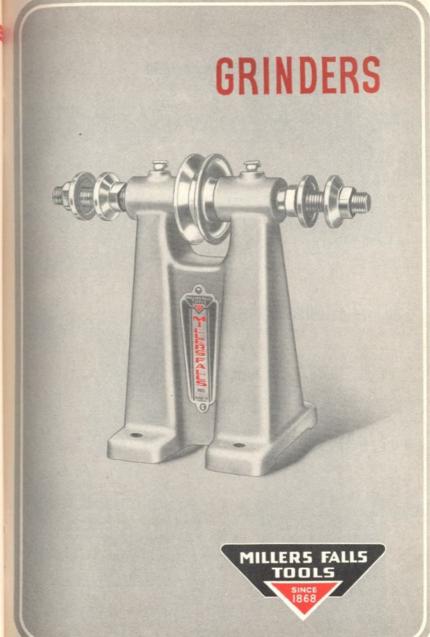
Carefully hardened and tempered faces. A fine, durable stamp for general all around use on unhardened surfaces.

HAND CUT GOTHIC FACE

MACHINE MADE ROMAN FACE

Height character	No. 1300 Letters per set	No. 1350 Figures per set	Single characters	Size stock	Height character	No. 1500 Letters per set	No. 1550 Figures per set	Single characters	5 ze stock
1/32"	\$15.75	\$5.25	\$0.65	1/4 x 2 5/8"	1/32 "	\$7.50	\$2.50	\$0.40	3/2 × 2 3/4
1/24"	14.15	4.70	.50	1/4 x 2 5/8"	1/24"	7.50	2.50	.35	3/32 x 2 3/4"
					1/20"	6.75	2.25	.35	7/22 x 2 3/8
1/20"	14.15	4.70	.50	1/4 x 2 5/8"	1/16"	5.25	1.75	.30	3/2 x 2 3/8"
1/16"	11.25	3.75	.40	1/4 x 2 5/8"	1/12"	5.25	1.75	.30	1/32 x 2 1/4"
3/32"	11.25	3.75	.40	5/16 x 2 3/4"	3/32 "	5.25	1.75	.30	3/2 x 2 3/4"
1/8"	11.25	3.75	.40	1/6 x 2 3/4"	1/10"	5.25	1.75	.30	1/4 x 2 1/2"
1/2"	12.60	4.20	.50	3/8 x 2 7/8"	1/8"	5.25	1.75	.30	1/4 x 2 1/2
3/16"	14.15	4.70	.60	3/8 x 2 7/8"	7/32 "	6.00	2.00	.35	3/6 x 2 1/2
7/32"	15.75	5.25	.70	7/6 x 3"	3/16"	6.75	2.25	.35	5/16 x 21/2
1/4"	17.30	5.80	.75	7/16 x 3 "	7/32 "	7.50	2.50	.40	3/8 x 2 5/8
3/16"	20.45	6.80	.85	1/2 x 3"	1/4"	8.25	2.75	.40	3/8 x 2 5/8
3/6"	25.20	8.40	.95	% x 3 1/4"	3/16"	9.75	3.25	.45	7/16 x 2 3/4
				Contract Con	3/8"	12.00	4.00	.55	1/2 x 2 3/4"
3/16"	28.35	9.45	1.15	3/8 x 3 1/4"	7/16"	13.50	4.50	.65	% x 2 1/6"
1/2"	34.65	11.55	1.35	3/8 x 3 1/4"	1/2"	16.50	5.50	.70	3/4 x 3"

Sets of letters, sizes ½2 through ¼4 inch consist of 28 characters, including & and a period. Sets of letters, sizes ¾6 through ½2 inch consist of 27 characters, the period being omitted. Sets of figures consist of nine characters from 0 to 8, the 6 being used for the 9 Each set packed in a well made, nicely finished wooden box.





NO. 120 GRINDING HEAD

Fitted with "Oilite" Bronze Bearings



6"

No. 120

A stocky machine with a solid frame and ample base to withstand years of service. The spindle is ½ inch in diameter and runs in two "Oilite" bronze bearings 1½ inches long. Bearings are lubricated through good sized spring top oilers.

The spindle is threaded at both ends, ½ inch by 20 thread and carries two sets of steel flanges 1½ inches in diameter to carry wheels up to 4 inches in diameter with a ¾ inch face and ½ inch hole. The V-belt steel pulley is 2¼ inches in diameter. Designed to drive from above, behind or below.

Frame nicely finished in glossy battleship gray. Flanges and pulley nickel plated.

41/8

Base 4 1/8 x 4 1/8"

5 1/4 lbs.

Price each \$4.00

Packed one in a box

NO. 125 GRINDING HEAD

Fitted with "Oilite" Bronze Bearings

Exactly the same as No. 120 above, but fitted with a clean, deep taper thread spindle in place of the wheel arbor on the left. This permits the use of buffing wheels and a great variety of wheels built on wood centers. On the right is a set of flanges and an all-steel three-jawed chuck that holds rods or drills from 0 to ½ inch in diameter. Height given is to center of spindle.

No. 125 6" 4 1/8 x 4 1/8" 5 3/4 lbs. YEBVO \$4.50



YEBAT

THE STATE OF THE S

NO. 130 GRINDING HEAD

Fitted with "Oilite" Bronze Bearings

Exactly the same as No. 120 above, but with a longer spindle on the right side. This is threaded ½ inch by 20 thread and on it is mounted an all-steel chuck with three hardened jaws that hold 0 to 3½ inch round shank drills or rods. Flanges, chuck and pulley nickel plated.

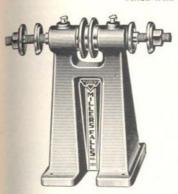
No. 130 6" 4 % x 4 1/8" 5 1/2 lbs. YECDY \$4.70

Packed one in a box



NO. 150 GRINDING HEAD

Fitted with "Oilite" Bronze Bearings



A heavier head with bigger base, greater height and ¼ inch spindle running in two "Oilite" bronze bearings 1½ inches long. The outboard portions of the spindle are turned down to ½ inch with 20 threads per inch. The bearings are oiled from two large spring top oil cups on the frame casting directly above the bearings. Arbor on either end of spindle with 1¾ inch flanges for holding wheels up to 6 inches or larger in diameter with 1 inch face and ½ inch hole. Flange nuts are hardened. The V-belt steel pulley is 2¼ inches in diameter and can be driven from above, behind or below.

Frame finished in glossy battleship gray enamel. Flanges and pulley nickel plated.

No. 150

Height 7 1/2"

8ose 5 x 5"

Weight 11 lbs Code YEEVO Price each \$8.00

Packed one in a box

NO. 155 GRINDING HEAD

Fitted with "Oilite" Bronze Bearings

Built on the same frame as No. 150. The spindle is ¾ inch in diameter and carries a deep, clean taper thread and a pair of wheel flanges on one end and a pair of flanges and chuck on the other.

The wheel flanges are 1¾ inches in diameter and hold wheels up to 6 inches or larger in diameter with 1 inch face and ½ inch hole. Hardened steel flange nuts. The chuck has three hardened steel jaws and holds 0 to ¾ inch drills or rods. V-belt steel pulley is 2¼ inches in diameter and drives from above, behind or below.

Frame finished in glossy battleship gray enamel. Flanges, pulley and chuck nickel plated.

No. 155

Height 7 1/2"

Bose 5 x 5" Weight

Code YEFEE Price each \$9.50

Packed one in a box

74



WIRE WHEEL BRUSHES

These wire wheel brushes are rigid and compactly made and have more wire per square inch of brush surface than the average wheel. Wires are tightly compressed and give greater wearing strength to brush. They have interchangeable bushings which slip into the 2 inch standard size opening

Arbor bushings can be furnished with ½ inch, ½ inch, ¾ inch or 1 indigration hole.

It is important that the wanted diameter of the arbor hole be specified



	pire	Weight	Code	Price son
No. 24	4 x 1"	1 lb.	DOBME	\$ 3.22
No. 26	6 x 1 1/8"	1 3/4 lbs.	DOBNA	5.05
No. 28	8 x 1 1/2"	2 3/4 lbs.	DOBPO	6.14
No. 210	10 x 2"	5 1/4 lbs.	DOBRI	11.26
No. 212	12 x 21/2"	6 1/a lbs.	DOBSU	13.46
	Extra arb	or bushings, per pa	ir \$0.25	0.00000000

Packed one wheel in a box

GRINDING WHEELS

These are the best quality wheels made in the most commonly used grains and grades. Especially adapted for use on electric drills and grinders, grinding heads, etc.



	Size	Arbor Hole	Grain and Grade	Weight	Code	Price est
No. 1519	4 x 1/2"	1/2"	60 - M	3/4 lb.	DODAK	\$1.40
No. 636	6 x 1/2"	1/2"	36 - 0	1 1/2.1bs.	DODFA	2.40
No. 660	6 x 1/2"	1/2"	60 - M	1 3/4 lbs.	DODGU	2.40
No. 1036	10 x 1"	3/4"	36 - 0	7 3/8 lbs.	DODIL	8.30
No. 1060	10 x 1"	3/4"	60 - M	7 3/a lbs.	DODOM	8.30
No. 2036	10 x 1 1/4"	3/4"	36 - O	8 1/4 lbs.	DODUX	9.60
No. 2060	10 x 1 1/4"	3/4"	60 - M	8 1/2 lbs.	DODET	9.60

BUFFING WHEELS



No. 1522

These buffing wheels will meet the need for light, portable buffers for polishing a number of different objects that have formerly necessitated hand work. The size of the wheel is 6 inches with a $\frac{1}{2}$ inch hole to fl an arbor. Two sections of 20-ply are required to make the wheel $\frac{1}{2}$ inch thick.

	Weight	Code		prof.
No. 1521	1/4 lb.	DOGAT	2-20 ply sections	\$1.20
No. 1721 Stitched	1/4 lb.	DOGON	2-20 ply sections	1.40
	Packed 2-20	ply sections in	an envelope	

NO. 1522 CARBON REMOVING BRUSH

Very useful in removing carbon from cylinder heads, tops of pistons, valve ports, etc. Leaves fine burnished surface upon which it is hard for carbon to collect.

Diameter of brush, 1¼ inches. Length of wire, 1½ inches. Spindle, ¼ inch diameter. Can be used in any ¼ inch electric drill.





MILLERS FALLS TOOLS

WORKSHOP ACCESSORIES

The broad assortment of accessories illustrated and described on the next three pages multiplies many times the utility and pleasure to be derived from a variety of power workshop tools.

Some are for use in the live or tailstock spindles of lathes, some on the taper arbors of drill presses and others on the shafts of motors or any driven shaft ½ or ¾ inch in diameter, either plain round or threaded ½ inch 20 thread. No. 986 can be used in the chuck of ¼ inch drills for driving grinding wheels, wire or fibre brushes and buffing wheels. In the same way No. 992 can be used in an electric drill for polishing and sanding.

Taper shanks and sockets precision ground as are point centers. Parts hardened and tempered wherever it is essential.

SPUR CENTERS



Sharp spurs and hardened points insure positive drive for hard or soft wood and other non-metallic materials. Points are replaceable. Hardened, precision ground Morse Taper Shanks.

	Shank	Diam, Head	Weight	Price each
No. 920	No. 0 M.T	1/2"	1 1/2 ozs.	\$0.80
No. 922	No. 1 M.T	- 3/8"	2 1/2 ozs.	.90
No. 924	No. 2 M.T	. 1"	5 1/2 ozs.	.95

SPUR CENTERS



Sharp, hardened points are replaceable. Four spurs insure positive drive in hard and soft wood and non-metallic materials. Shanks accurately bored to fit ½ inch or ¾ inch round arbors. Two set screws.

No. 917 No. 918	Fits Arbor	Diam. Head	Weight 5 ozs.	\$1.00
110	78	3/4"	5 ozs.	1.00

CROTCH CENTER



For centering round and square stock for drilling. Accurately milled 90° crotch. Precision ground Morse Taper Shank.

N.	Shank I	Diam. Head	Weight	Price each
No. 938	No. 2 M.T.	2"	17 ozs.	\$1.60

CUP CENTERS



Deep machined cups with sharp rims. The keen, hardened points are replaceable. Precision ground Morse Taper Shanks.

	Shank	Diam, Head	Weight	Price each
No. 910	No. 0 M.T.	1/2"	1 1/2 ozs.	\$0.75
No. 912	No. 1 M.T.	5/8"	2 1/2 ozs.	.80
No. 914	No. 2 M.T.	3/4"	5 1/2 ozs.	.95

CUP CENTERS



Sharp, hardened points are replaceable.

Diameter of cups % inch. Shanks accurately bored to fit 1/2 inch and % inch round arbors.

	Fits Arbor	Diam. Head	Weight	Price each
No. 915	1/2"	3/8 "	5 ozs.	\$1.00
No. 916	5/4"	3/8"	5 ozs.	1.00

SCREW FACE PLATES



For holding small blocks of non-metallic materials. Hardened screws. Plate 1¾ inches and 2 inches in diameter. Precision ground Morse Taper Shanks.

	Shank	Diam. Plate	Weight	Price each
No. 940	No. 1 M.T.	1 3/4"	5 ozs.	\$1.60
No. 942	No. 2 M.T.	2 "	11 ozs.	1.60



WORKSHOP ACCESSORIES

\$2.00

FACE PLATE



Heavy ½ inch plate, 3 inches in diameter bored so spurs can be set at two diameters, 1½ inches or 2½ inches. Center threaded for either the hardened point or screw center regularly supplied. Two hardened spurs also regular equipment. Back threaded to fit ¾ inch-16T Arbor.

No. 926 34"-16T 3" 21 ozs.

TAPER ADAPTER



For adapting tools with No. 2 Morse Taper Shanks to drill presses with No. 33 Jacobs Arbors. An accurately bored No. 2 M.T. socket in one end and a No. 33 Jacobs Arbor in the other. Fine ground finish.

No. 982 No. 2 M. T. to No. 33J 8 ozs. \$2.60

SHAPER CUTTER ADAPTER



For using shaper cutters with holes %6 inch in diameter with 18 threads. Hardened left-hand lock screw. Shank accurately bored to fit a No. 33 Jacobs Arbor. Drift pin included,

For Cutters Fits Arbor Weight Price each No. 980 %6"-181 No. 33 Jacobs 51/2 azs. \$1.50

SHAPER CUTTER ADAPTER



For shaper cutters with $\frac{1}{2}$ inch holes. Maximum thickness of cutter $\frac{1}{4}$ inches. Shank accurately bored to fit a No. 33 Jacobs Taper Arbor. Drift pin included.

For Cutters Fits Arbor Weight Price each No. 978 1/2" Hole No. 33 Jacobs 51/2 ozs. \$1.40

DRILL PAD



Face of pad accurately ground at right angles to the shank. Pad diameter 3% inches. Precision ground Morse Taper Shank.

No. 960 No. 2 M.T. 3 %s" 21 ozs. \$1.60

MORSE TAPER ADAPTER SLEEVE



A precision ground No. 2 Morse Taper Shank with a No. 1 Morse Taper Socket accurately bored in it. Makes it possible to use No. 1 Shanks in No. 2 Socket.

No. 944 No. 1 to No. 2 M.T. 3 1/2 ozs. \$1.40

WHEEL ARBOR



For operating grinding and buffing wheels, wire and fibre brushes, etc., with $\frac{1}{2}$ inch holes. Shank $\frac{1}{4}$ inch in diameter can be used in any three-jawed chuck of $\frac{1}{4}$ inch or larger capacity. Maximum distance between the $\frac{1}{4}$ indiffanges is 1 inch. Arbor threaded $\frac{1}{2}$ inch-201.

No. 986 1/4

Weight 5 ozs.

\$0.65

SHAPER COLLARS



Set consists of six collars for use on ½ inch shape? spindles. Outside diameters ½, ¾, 1, 1¼, 1½ and 1¾ inches.

No. 976 1/2" Weight Price 18 \$2.00

WORKSHOP ACCESSORIES

60° POINT CENTERS



Hardened, precision ground 60° centers with precision ground Morse Taper Shanks for use in tailstocks.

***	Shank	Weight	Price each
No. 928	No. 0 M.T.	1 1/2 ozs.	\$0.65
No. 930	No. 1 M.T.	2 ozs.	.75
No. 932	No. 2 M.T.	5 ozs.	.80

COLLET CHUCK



Chuck has ½ inch capacity and is regularly supplied with one ¼ inch collet. Shank is accurately bored to fit a No. 33 Jacobs Taper Arbor. Drift pin for removal from arbor included

No. 984	Capacity	Fits Arbor	Weight	Price each
	1/2"	No. 33 Jacobs	5 ozs.	\$1.50

WORK ARBORS



For operating grinding, polishing, wire brush, buffing wheels, sanding drums, etc., with ½ inch holes. Maximum capacity between the 2 inch diameter flanges is 2¼ inches. Spindle is ½ inch in diameter with 20 threads per inch. Shanks accurately bored to fit round arbors. Two set

N.	Fits Arbor	Weight	Price each
No. 956	1/2"	11 ozs.	\$0.80
No. 958	5/8"	12 ozs.	.80

CHUCKS WITH ROUND SOCKETS



Smooth operating ½ inch capacity chuck with three hardened, spring activated jaws for holding round shanks, drills and rods. Chuck backs threaded ½ inch-20T. Sockets accurately bored for round shanks.

No. 970	Chuck Copacity	Fits Arbor	Weight	Price each
No. 972	0 to 1/2"	1/2"	16 ozs.	\$1.50
472	0 to 1/2"	5/8"	17 ozs.	1.50

ROSE TOOLS, INC

60° BALL BEARING POINT CENTERS

MILLERS FALLS



Ball bearing 60° centers, hardened and precision ground concentric with the precision ground Morse Taper Shanks.

	Shank	Weight	Price each
No. 934	No. 1 M.T.	7 ozs.	\$3.20
No. 936	No. 2 M.T.	10 ozs.	3.20

COLLET CHUCKS



Made in two sizes, $\frac{1}{4}$ inch and $\frac{1}{2}$ inch respectively. Back threaded to fit an arbor $\frac{1}{2}$ inch in diameter with 20 threads.

	Capacity	Fits Arbor	Weight	Price each
No. 974	1/4"	1/2"-20T	3 1/2 ozs.	\$1.05
No. 990	1/2"	1/2"-20T	12 ozs.	1.30

DRILL CHUCKS



Finely knurled shells with three hardened, spring actuated jaws for holding all drills or rods within their capacity. Back threaded to fit on ½ inch-20 thread spindles. No. 968 is chrome plated and has a spanner wrench.

	Capacity	Fits Arbor	Weight	Price each
No. 988	0 to 1/4"	1/2"-20T	5 ozs.	\$0.55
No. 966	0 to 1/2"	1/2"-20T	11 ozs.	.90
No. 968	0 to 1/2"	1/2"-20T	12 ozs.	1.30

CHUCKS WITH MORSE TAPER SHANKS



A smooth-acting chuck with three hardened, spring activated jaws for holding round shanks, drills and rods from 0 to ½ inch in diameter. Precision ground Morse Taper Shanks.

	Chuck Capacity	Shanks	Weight	Price each
No. 962	0 to 1/2"	No. 1 M.T.	15 ozs.	\$2.20
No. 964	0 to 1/2"	No. 2 M.T.	18 ozs.	2.20



ADJUSTABLE THROAT BLOCK PLANES

Designed and used primarily for working cross grain surfaces. Block Planes are invaluable for many light operations cutting with the grain. They are short, light in weight and are easily controlled with one hand. The models below are equipped with adjustable throats for roughing or finish cuts in any kind of wood.

Two cutter iron angles are available — Standard 20° for soft woods and Low 12° for hard woods



Standard Angle. Adjustable Throat

Side and depth adjustments of irons. Irons one solid piece of high quality tool steel. Bottoms and sides nicely polished. Inside of bottoms and lever caps black enameled. Throat adjusting levers and knurled lock nuts nickel plated.

	Length	Width Iron	Weight	Code	Price each
No. 16	6"	1 5%"	1 1/2 lbs.	EBENS	\$3.80
No. 17	7"	1 5/8"	1 5/8 lbs.	EBORG	4.00
		. /.	1 /8 105.	EBOKG	4.0



Standard Angle. Adjustable Throat

Same as Nos. 16 and 17 above but with a polished, nickeled and buffed cap with a knuckle joint lever damp. Irons one solid piece of fine tool steel.

Sectional and	Length	Width Iron	Weight	Code	Price each
No. 36	6"	1 5/8"	1 1/2 lbs.	EBRAG	\$4.50
No. 37	7"	1 5/8"	1 5/8 lbs.	EBREL	4.70



Low Angle. Adjustable Throat

Screw depth adjustment of irons. Irons fine tool steel set at 12° angle. Bottoms and sides nicely polished. Inside of bottoms and lever caps black enameled. Throat adjusting levers and lock nuts nickel plated.

				and today more me	ter proree.
No. 56 No. 57	Length 6" 7"	Width Iron 1 3/8 " 1 5/8 "	Weight 1 1/4 lbs. 1 3/8 lbs.	Code ECROW ECTOL	\$3.80 4.00
			CONTRACTOR OF THE PROPERTY OF		4.00

All the above planes packed one in a box



NOS. 45 and 75 BLOCK PLANES



Standard Angle. Rosewood Knobs

Screw depth adjustment of tool steel irons. Cam lock lever caps. Rosewood knobs. Bottoms and sides nicely polished. Inside bottoms and lever caps black enameled.

	Length	Width Iron	Weight	Code	Price each
No. 45	51/2"	1 3/8"	1 1/8 lbs.	EDROX	\$2.70
No. 75	7"	1 5/8"	1 1/2 lbs.	EDRAL	2.70

BULL NOSED RABBET PLANE

Especially well adapted for working in close quarters and up into corners. It has an adjustable throat.



Nicely polished bottom and sides. Body and lever cap black enameled. Solid tool steel cutter iron.

No. 4	Length A"	Width Iron	Weight 5/8 lb.	Code EFACE	\$1.70

ADJUSTABLE BLOCK AND RABBET PLANE

This unique plane has its solid tool steel cutter iron ground at an angle which gives an easy skew or shave cut. As illustrated it is used as a block plane. The right-hand side, however, is removable converting it into a rabbet plane.



Standard Angle. Screw Depth Adjustment

Screw depth adjustment of solid tool steel cutter iron. Rosewood knob handle. Bottom and sides nicely polished with inside and lever cap black enameled. Cap lever screws and side lock screws nickel plated.

No. 07 7" 134" 11/2 lbs. ESCOW \$4.60

All of the above planes packed one in a box



WORKSHOP ACCESSORIES

WORK ARBORS WITH CHUCKS



A useful combination of a 1/2 inch capacity threejawed chuck and an arbor for arinding wheels. buffs and brushes with 1/2 inch hole. Maximum distance between the 2 inch flanges is 21/4 inches with chuck removed. 5/8 inch with chuck closed. Chuck back threaded 1/2 inch-20T. Shanks accurately bored to fit round arbors.

	Fits Arbors	Weight	Price each
No. 946	1/2"	22 ozs.	\$1.65
No. 948	5/8"	21 ozs.	1.65

ABRASIVE DISC HOLDER



For driving paper and cloth abrasive discs for grinding, polishing and sanding. Anchor screw holds discs securely without protruding beyond the face of the disc. Has 1/4 inch round shank for use in three-jawed chucks.

	Cop. Disc	Shank	Weight	Price each
No. 992	4 to 6"	1/4" Rd.	2 ozs.	\$0.70

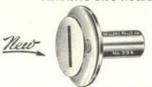
WORK ARBORS FOR MORSE TAPER SOCKETS



Work arbors accommodate grinding and buffing wheels, wire brushes, etc., with 1/2 inch holes Maximum capacity between the 2 inch diam eter flanges is 11/4 inches. Arbor threaded 1/2 inch-20T. Precision ground Morse Taper Shanks.

	Shank	Weight	Price ead
No. 950	No. 0 M.T.	8 ozs.	\$1.05
No. 952	No. 1 M.T.	9 1/2 ozs.	1.10
No. 954	No. 2 M.T.	12 ozs.	1.15

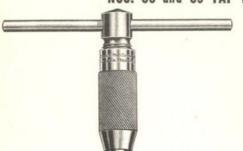
ABRASIVE DISC HOLDER



Anchor screw holds 6 to 8 inch abrasive disc securely for grinding, polishing and sanding operations. Shank accurately bored to fit a 1/2 inch-20T threaded arbor.

	Cap. Disc	Fits Arbor	Weight	Price est
No. 994	6 to 8"	1/2"-20T	5 ozs.	\$1.00

NOS. 88 and 89 TAP WRENCHES



Designed for securely holding taps reamers, and other tools with square shanks that must be operated by hand The handles are permanently fixed the solid steel body. The chuck shell s long and nicely knurled to provide powerful clamping action on the care fully heat-treated steel jaws. Jaws are self-opening.

Entire tool nicely polished.

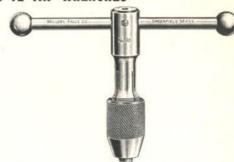
Hand Top Machine Top Handle Weight Code 1/16-1/4" 0-14 31/2 3 1/2 ozs. YATPO No. 89 7-20 41/2" 4 1/2 ozs. YATYR Packed one in a box

80



NOS. 10 to 12 TAP WRENCHES

These tools are designed for accurately centering and holding taps, reamers. small drills or other small tools. They are provided with adjustable handles with hall ends which may be slipped to the extreme left or right when greater leverage is desired or when the work is in close quarters. The set screw. illustrated, locks the handle at any desired position. The chuck shells are nicely knurled. The four jaws are carefully hardened and tempered and the sleeve case hardened.



	Capi	ocities				
	Hand Tap	Machine Tap	Handle	Weight	Code	Price each
No. 10	1/16-1/4"	0-14	3 1/4"	2 ozs.	NAVAL	\$1.00
No. 11	1/16-9/12"	0-16	4 3/4"	4 ozs.	NAVEW	1.25
No. 12	1/4-1/2"	14-20	51/4"	8 ozs.	NAVIC	1.80
No. 112	Set of one each Nos.	10, 11 and 12		18 ozs.	NAVVY	4.30

Nos. 10 and 11 packed six and No. 12 two in a box No. 112 one set in a box

NO. 3 HAND VISE



An extremely handy vise for holding

a great variety of work on a bench

drill or drill press bed or on the

work bench. The fixed and movable

laws have parallel faces. A re-

movable swivel jaw is also pro-

vided. Each base rail has two holes

tapped 3/8 inch-20 for fastening

to bed or bench. A hand screw for

damping to a bed is provided. Jaws, sides, base and bearing surfaces accurately machined. All

ROSE TOOLS, INC.

A powerful, efficient vise with a comfortable handle. Jaws and handles made of semi-steel. Jaw faces are nicely checked and provide a sure grip when tightened by means of the large steel thumb nut and screw bolt. The entire tool is nickel plated.

	Length	Width Jaws	Weight	Code	Price each
No. 3	5"	11/2"	1 lb.	REAKS	\$2.90
		Packed or	ne in a ho	×	

\$6.20

NO. 217 VISE



other faces black enameled. Clamp screw polished. Maximum Capacity Width Jaws Weight Code 3 1/8" 23/8" 4 1/2 lbs. DEIGN

81



NOS. 663-664 BENCH VISES

Rigid Twin Guide Rod Construction

The twin guide rod construction of these vises was originated by Goodell-Pratt and marked a big advance in vise construction,

They are operated by an accurately cut-steel feed screw. Two steel guide rods are provided to insure rigidity. All parts are carefully fitted so that the jaws are easily operated, but without lost motion. After the vise is completely assembled, the jaws are machined so that they will meet accurately. Clamp to bench up to and including 2 inches thick.

All steel parts are polished and all iron parts are finished in black enamel.

	Width Jaws	Jaws Open	Weight	Code	Price each
No. 663	11/2"	11/2"	2 1/4 lbs.	ZAGIT	\$2.80
No. 664	21/2"	21/2"	8 lbs.	ZAGOV	5.20
		Packed o	ne in a box		





NOS. 161-1700 BENCH VISES

Rigid Twin Guide Rod Construction

These vises are similar to those above but not so fine a finish. The twin guide rod construction insures smooth action and rigidity of the movable jaw. Jaws milled parallel after the vise has been assembled. Small anvil on body casting. Body and movable jaws black enameled. All exposed steel parts polished. Clamp to bench up to and including 2 inches thick

	Width	Jaws .	Jaws C	pen		Weight	Code	Price rod
No. 1	61 2		2	*	3	3/4 lbs.	YEGCA	\$2.50
No. 17	00 25	/2"	21/	. "	4	lbs.	YEGLO	2.60

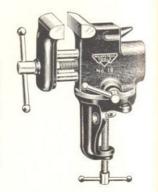
NO. 18 SWIVEL VISE

Swivel Base. Twin Guide Rods

This vise is similar to No. 1700 above with the addition of a swivel base which permits the jaws to be swung to any desired angle. The swivel clamping mechanism is controlled by a small steel level at the right. Twin guide rod construction gives smooth action and rigidity. Jaws 2½ inches wide are milled after vise is assembled for close fitting. Clamps to bench up to and including 2 inches thick.

Body finished in red enamel. Movable jaw in black enamel.

No. 18	Width Jaws 21/2"	Jows Open 2 1/4 "	Weight 5 % lbs.	Code YEGMA	Price each \$3.80
		Packed one	in a hox		





DRILL CHUCKS



Straight Round Shanks

This chuck was originated by Goodell-Pratt over 40 years ago and has been supplied as regular equipment on millions of our hand and breast drills. It has been supplied in tremendous quantities to manufacturers as regular equipment on a wide variety of products. In every instance performance has been highly satisfactory.

Made entirely of steel with carefully hardened and tempered jaws actuated by three small coil springs. The shanks are carefully fitted to, and tested with, the chuck with which they are shipped. This and the care used throughout manufacture accounts for the high standard of trueness maintained at the very moderate prices at which they are offered.

These chucks can be easily tightened or loosened by hand. No spanner or wrench is required. The chuck shell is nicely knurled affording a positive and comfortable grip. The shanks are lathe ground to ½ inch diameter. Shell, back and shank nicely polished.

	Copacity	Shell Diameter	Weight	Code	Price each
No. 15	0 to 1/4"	1 "	3/8 lb.	WYNUS	\$2.10
No. 151/2	0 to 3/8"	1 %6"	5/8 lb.	WYPOS	2.60
No. 16	0 to 1/2"	1 1/2 "	7/a lb.	WYROV	3.40

Without Shanks

These are the same chucks listed above but without shanks.

	Capacity	Bock Threaded	Weight	Code	Price each
No. 15	0 to 1/4"	7/6" (.443) 26NS	1/4 lb.	WEBAL	\$1.50
No. 151/2	0 to 3/4"	13/32" (.467) 24NS	1/2 lb	WEBEN	2.00
No. 16	0 to 1/2"	%6" (.560) 24NS	5/8 lb.	WEBIT	2.60
		Packed one in a	hox		

CHUCKS WITH MORSE TAPER SHANK



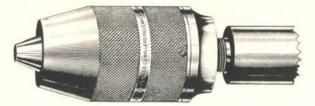
These drill chucks are identical to those listed above but are fitted with precision ground, No. 1 or No. 2, Morse Taper Shanks.

In ordering, please be sure and specify size shank desired.

		W	eight		
	Coposity	No. I M.T.	No. 2 M.T.	Code	Price each
No. 15 M.T. No. 15 1/2 M.T.	0 to 1/4"	3/8 lb.	1/2 lb.	WYORV	\$3.10
No. 151/2M.T.	0 to 3/8"	5/8 lb.	3/4 lb.	WYRIT	3.70
No. 16 M.T.	0 to 1/2"	1/a lb.	1 lb.	WYSET	4.80



MILLERS FALLS DRILL CHUCKS



These chucks have been used for years on Millers Falls Hand and Breast Drills, with complete satisfaction to the user. They are fitted with or without plain round shanks and hold round shank drills within their capacity securely and with surprising accuracy for the low price at which they are sold. Manufacturers interested in chucks in large quantities for equipment purposes are requested to ask for special, large quantity prices.

They are made entirely of steel with three hardened jaws actuated by concealed springs that cannot be damaged from without. The shells are nicely knurled to give a good grip for tightening and loosening.

The chucks listed below are regularly equipped with 1/2 inch round shanks 21/2 inches long.

	Capacity	Shell Diameter	Weight	Code	Price each
No. 5	0 to 1/4"	1 "	1/2 lb.	EARLY	\$2.60
No. 6	0 to 3/5"	1 1/4"	3/4 lb.	EADEL	3.10
No. 7	0 to 1/2"	1 1/2"	1 1/2 lbs:	FAGIF	4 20

Furnished with flattened shank for set screw without extra charge.

Without Shanks

These are the same chucks listed above but without shanks.

	Capacity	Shell Diameter	Backs Threaded	Weight	Code	Price each
No. 5	0 to 1/4"	1 "	7/6" (.432) 22NS	1/4 lb.	EARSH	\$2.00
No. 6	0 to 3/8"	1 1/4 "	7/6" (.432) 22NS	1/2 lb.	EASTR	2.40
No. 7	0 to 1/2"	1 1/2"	%" (.560) 24NS	% lb.	EAVES	3.40
			Packed one in a box	17,000	152500000	

NO. 153 BREAST DRILL CHUCK



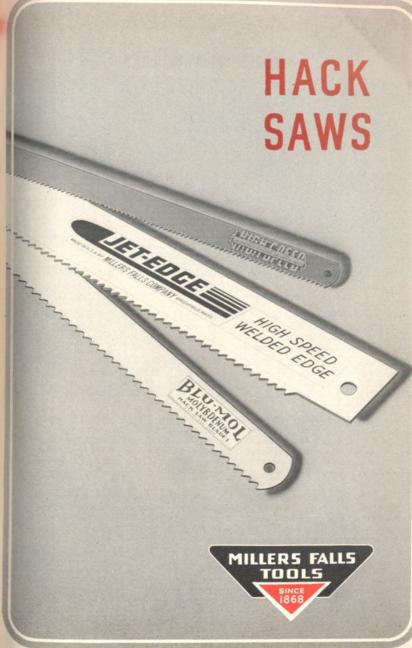
This chuck is interchangeable with the three-jawed chucks found on any Millers Falls or Goodell-Pratt Breast Drill. It is of the Universal type holding 1/8 to 1/2 inch round shank drills, square bit brace shanks or No. 1 Morse Taper Shanks.

Weight

Nicely polished and knurled.

\$2.70 No. 153 Universal %" (.560) 24NS 1/2 lb. DILAT 84

Back Threaded

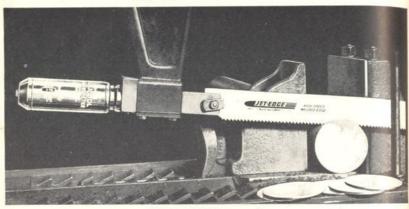


Price end



"BLU-MOL TENSIOMETER""





U. S. Potent 2,337,629, others pending
Applies Floating Tension to Blades in Operation

Tension always has been recognized as essential to the best performance of hack saw blades. Just how much tension was necessary for the best performance of a given size blade has been, in the past, a matter of pure guess. Naturally, therefore, a precise method or device for applying tension of so many pounds per square inch was unknown.

In developing "BLU-MOL" and "JET-EDGE" Blades, which involved hundreds of exhaustive performance tests in which the importance of the right tension on any blade was found to be one of the key factors to efficient performance, the Millers Falls Company determined to get the facts and produce a device that would apply the critical tension to a blade and maintain that tension continuously while the blade is in use.

The "BLU-MOL TENSIOMETER," a steel cylinder containing a heavy, precisely calibrated steel spring, is the result. It is installed quickly and easily on any of the better known hack saw machines because it screws directly onto the blade holder in place of the original tightening nut. A graduated index shows at a glance the exact number of pounds tension on the blade as the Tensiometer is turned on. It is equipped with a heavy, roller thrust bearing in its base so that tightening is extremely easy. A preloading device is incorporated so that only a turn or two is required for any tension up to 4,000 pounds.

In action the blade floats on the Tensiometer spring. By absorbing blade elongation caused by frictional heat or distortion of the eyes, the initial tension is continuously maintained within very close limits without attention from the operator. Blade life is greatly extended as any unusual shock of strain on the blade is immediately absorbed by the spring thereby minimizing breakage which is costly and at the same time adding a very worth-while safety factor.

With critical tensions worked out to a nicety and the "BLU-MOL TENSIOMETER" to apply the with, the overall efficiency of any hack saw blade can be greatly increased, the performance improved and large savings made.

"Millers Falls" and "Universal" Distributors will gladly furnish additional information about "floating tension" and what it means to you and also arrange for a demonstration on your own machines without any obligation whatsoever. Write us for the name of the distributor nearest you.

For the proper tension on various sizes of blades see page 90.



HACK SAW BLADES

Millers Falls Company manufactures the broadest and finest line of hack saw blades in the world. Every step in their production from the selection of the alloy steels from which they are made, the machining and setting of the teeth and particularly the heat treatment employs the most modern methods, equipment and controls. They are conceived and made as high grade cutting tools that must deliver superior performance under widely varying and, in many instances, adverse conditions.





They are made in two brands of identical quality under the trade names "Millers Falls" and "Universal." The two registered trademarks appear above.

No matter which brand a distributor may offer it can be accepted with confidence and the utmost assurance that its performance cannot be excelled.

SELECTION OF HAND BLADES

Hand blade performance depends very largely on the selection of the proper blade for the particular cutting to be done. The proper type of blade and the number of teeth per inch or pitch deserve careful consideration.

Type of Blade — Cutting in drill rod, mild steels, non-ferrous metals and softer materials can be safely entrusted to Tuf-Flex or Standard Steel Blades. When the cutting is in the hard alloy steels such as manganese, chrome-nickel, stainless, etc., a high speed type such as "Blu-Mol," "Blu-Flex" or "Tungsten High Speed" should be chosen.

Number of Teeth per inch — In general, coarse teeth should be used on large sections particularly when cutting mild steels, cast iron, non-ferrous metals and all softer materials where ample chip clear-ance is needed. When the sections are smaller a finer tooth should be used. The finest teeth should be used in cutting very thin sections. The following table makes it quite simple to select the number of teeth that will give the best performance on a variety of materials.

Fitch	Kind or Shape of Material							
14 Teeth	Large Sections Over 1" Diameters	Aluminum Angle Iron Asbestos Babbitt	Brass Bronze Cast Iron Channels	Copper Hard Rubber I Beams Mild Steel	Plastics Rail, etc.			
18 Teeth	Medium Sections Less than 1" Diameters	Alloy Steels Angle Iron	Armored Cable Cast Iron	Channels Drill Rod	Mild Steel Tool Steel			
24 Teeth	Thin Sections Less than ¼" Diameters	Alloy Steels Angle Iron BX	Cable Conduit Channels	Heavy Sheets Pipe Tubing	Wire Rope			
32 Teeth	Very Thin Sections	Angle Iron BX	Cable Channels	Gutter Pipe Mouldings	Pipe Tubing			

Operation — A well built frame with an ample tensioning device and sufficiently rigid to keep the blade in good alignment is essential to prevent unnecessary blade breakage. If possible the work should be held rigidly in a vise—if not it is advisable to use a flexible blade. Use care in starting the cut. Do not cut into a corner. Angle the starting cut so as to avoid any undue shock to a single tooth. A light, steady stroke should be used until cut is well started, then use long, steady strokes with sufficient pressure to keep the teeth cutting. Blades will wear out quickly if they are allowed to slip over the cut or are dragged over it on the recovery stroke. Blades will last much longer if properly lubricated when cutting all types of steel.



HAND HACK SAW DISPLAY UNITS

The three display units listed below, consisting of a display fixture and a very moderate quantity of carefully balanced pitches of 10 and 12 inch blades, will increase the sales of hand hack saws again and again. The display fixtures are entirely free. They are substantially made of wood as



pressed wood panels nicely finished and silk screened in thres colors: one combination of colors for the new Blu-Flex Blade, one for Tuf-Flex and one for Blu-Mol. The list price of the complete unit is the standard list price of the blades only. These display require less than one half square foot of counter space and will make it highly profitable.

NO. 550 TUF-FLEX UNIT

Super-Flexible Super-Tough Special Alloy

Display unit finished in red, black and gold. The assortment of Tuf-Flex Blades (see following page) is as follows:

20 No. 53FH 10" - 18T	20 No. 55FH 12" - 18T
20 No. 63FH 10" - 24T	20 No. 65FH 12" - 24T
10 No. 73FH 10" - 32T	10 No. 75FH 12" - 32T

No. 550 Tuf-Flex Display Unit Complete
Packed one unit in a carton Weight 41/2 lbs.

\$8.80

\$17.6

NO. 1112 BLU-MOL UNIT

High Speed All Hard

Display unit finished in blue, red and gold. The assortment of Blu-Mol High Speed Blades (see page 91) is as follows:

10 No. 1018M 10" - 18T	10 No. 1218M 12" - 18T
10 No. 1024M 10" - 24T	10 No. 1224M 12" - 24T

5 No. 1032M 10" — 32T 5 No. 1232M 12" — 32T

\$17.60

No. 1112 Blu-Mol Display Unit Complete
Packed one unit in a carton Weight 21/2 lbs.







NO. 2222 BLU-FLEX UNIT

High Speed Flexible

Display unit finished blue, black and gold. The assortment of Blu-Flex Blades (see next page) is as follows:

10 No. 1018BF 10" - 18T	10 No. 1218BF 12" - 18T
10 No. 1024BF 10" - 24T	10 No. 1224BF 12" - 24T
5 No. 10328F 10" - 32T	5 No. 12328F 12" - 32T

No. 2222 Blu-Flex Display Unit Complete

Packed one unit in a carton Weight 21/2 lbs.

For ordering replacement stock for these displays see pages 89 and 91



STANDARD STEEL

STANDARD STEEL ALL HARD

High grade blades made of standard analysis of tungsten alloy steel with an exact and uniform the treatment which makes them economical to use in mild steels, non-ferrous metals, etc.

They are made in two types: All Hard for work rigidly held, and Flexible for work away from the

unda	in Hand	Sizes only		ALL HA	ARD		Packed 10	O in a box
Made				Order by N	umbers Below		Weight	List Price
Langth	Width	Thickness	14	Teeth 18	per inch 24	32	per box 100	per 100
10	1/2 1/2	.025	5A	13 15A	23 25A	33 35A	3 5/8 4 1/4	\$8.00 9.60
				FLEXIE	BLE			
10	1/2 1/2	.025 .025	45A	53 55A	63 65A	73 75A	3 5/8 4 1/4	\$8.00 9.60

14T and 18T Blades Standard Set. 24T and 32T Wavy Set.

"TUF-FLEX"" SPECIAL ALLOY

U. S. Patent No. 2,252,869 The finest of all general purpose saws

An entirely new type of flexible saw made of a patented special alloy steel. It is super-flexible, super-tough—practically unbreakable in use. The teeth will not strip when cutting even the lightest taking, pipe or thinnest sheets.

It cuts drill rod and alloy steels that ordinary flexible blades cannot master. It takes mild steels

Made	in Hand	Sizes only					Packed 10	0 in a box
		-		Order by Nu	mbers Below		Weight	List Price
Length	Width	Thickness		Teeth per inch			perbox	per
-			14	18	24	32	100	100
10	1/2	.025		53FH	63FH	73FH	3 1/8	\$8.00
12	1/4	025	ASEH	SSEH	65FH	75FH	4 1/4	9.60

14T and 18T Blades Standard Set. 24T and 32T Wavy Set.

"RIULFLEX®" HIGH SPEED



New Flexible, High Speed Blade

This remarkable new blade, made of fine quality, high speed molybdenum steel, cuts the cost of hand sawing hard alloy steels to the core and is so flexible that it is unbreakable in use. The high cost of breakage is entirely eliminated and 100% of the cutting value of the blade is assured.

The unique heat treatment provides a hard cutting edge and a soft, tough back. Cutting performance is equal in every way to an all hard blade.

12000			Order by Numbers Below					Weight	List Price
Length	Width	Thickness	Teeth per inch				per box	per	
-			14	18	24	32	100	100	
10	1/2	.025		1018BF	1024BF	1032BF	3 5/6	\$32.00	
12	1/2	.025	1214BF	1218BF 32T Wavy Set.	1224BF	1232BF	4 1/2	38.40	



SUGGESTIONS FOR SELECTION AND OPERATION **POWER HACK SAWS**

The selection and proper use of a power hack saw blade to cut the greatest amount of material smoothly and accurately at the lowest cost involves a number of important factors all of which must have careful consideration.

The length of the blade is, of course, determined by the size of the machine. Width and thickness depend on the size of the machine, the size and shape of the sections being cut and the feed to be used. The most efficient pitch—teeth per inch—depends on the kind of material being cut, its size and shape. Use four and six teeth for production cutting of large to medium solid sections—the former on softer, free-cutting materials where plenty of chip clearance is needed between teeth and the latter on harder materials. Use 10 teeth on very hard materials, small sections and structural shapes and pipe. In sizes where available, 14 teeth are best for small solid sections or bars, light angle iron. pipe and tubing.

In operation the blade must be tensioned properly if it is to cut true and perform its best. The cutting speed—strokes per minute—must take into consideration the kind of material being cut, the type of blade chosen and production requirements. For proper feed-pressure on the blade-which varies HAND SIZES for different sizes and kinds of material and the size and type of blade used, the recommendation of the manufacturer of the machine should be followed.

For general recommendations of critical tensions, cutting speeds and pitches, follow the tables below or submit full details to us.

PITCHES AND SPEEDS FOR POWER HACK SAW BLADES

Material	Teeth per inch	Strokes per minute	Material	Teeth per inch	Stroke per minit
Alloy Steel	4-6	60-90	High Speed Steels	4-6	60-90
Aluminum Alloys	4-6	100-125	Machinery Steel	4-6	125
Aluminum, Pure	4-6	100-125	Malleable Iron	6-10	90-12
Brass Castings, Soft	6-10	125-150	Manganese Bronze	6-10	60
Brass Castings, Hard	6-10	100-125	Nickel Chromium Alloys	6-10	60
Bronze Castings	6-10	100-125	Pipe, Iron	10-14	125
Cast Iron	4-6-10	100-125	Rails	6-10	60-90
Copper	4-6	100-125	Stainless Steel	4-6	60
Carbon Tool Steel	6-10	90	Structural Steel	6-10	90-12
Cold Rolled Steel	4-6	125	Tubing, Thick Wall	6-10	120
Die Blocks	4-6	60-90	Tubing, Thin Wall	14	120
Drill Rod	10-14	90		1.4	

Use cutting compound on all of the above materials except Cast Iron

TENSION IN POUNDS PER SQUARE INCH FOR POWER BLADES

The following table of correct tension for given sizes of blades was determined for Millers Fall by the Massachusetts Institute of Technology in conjunction with the development of Blu-Mol and Jet-Edge Blades and the Blu-Mol Tensiometer. See page 86 on "Floating Tension" and how it of be applied.

Blade	Thickness	Blu-Mol Jet-Edge	Blu-Mol
Width		Tungsten High Speed	Double Life
5/8" 1 " 1 1/4" 1 1/2" 2 " 2 1/2"	.032 .049065 .065 .072 .085100	350 lbs. 1500 lbs. 2100 lbs. 2600 lbs. 3000 lbs. 3500 lbs.	2100 fb 2600 fb 2800 fb 3200 fb



"BLU-MOL"" HIGH SPEED

Blades, made from one of the finest high speed, molybdenum alloy steels, have earned an migble reputation for low cost performance. The exact, closely controlled heat treatment gives a abrasion resistant cutting edge that guarantees more cutting per blade than any blade of its type.

Rlu-Mol Blades cut fast and cut true. Their uniformly fine performance in both hard alloy and mild tuels and many other materials makes it the most economical blade for general, all purpose use, his a blade that it pays well to become intimately acquainted with.

BLU-MOL

No.7506 M

17"X 114" X. 065 - 6T

Superior High Speed Performance

Parked 100 in a box

0000000							I deked It	, o o
leigh				Order by N	umbers Below		Weight	List Price
	Width	Thickness	14	Teeth 18	per Inch 24	32	per box 100	per 100
10 12	V2 V2	.025 .025	1214M	1018M 1218M	1024M 1224M	1032M 1232M	3 5/8 4 1/4	\$32.00 38.40

14T and 18T Blades Standard Set. 24T and 32T Wavy Set.

POWER SIZES

Packed 10 in a box

222			_	Weight	List Price				
ength.	Width	Thickness		150	Teeth per inch 10	14		per box	per
_			*	6	10	14	18	10	blode
12	5/8	.032				1254M	1258M	7/2	\$0.64
2	1	.049				2414M		1 1/2	1.02
12	1	.065			2410M			2 3/8	1.02
4	1	.049			1410M	4414M		21/4	1.16
4	1	.065			4410M	441411		2 3/4	1.19
14	11/4	.065	4504M	4506M	4510M			3 1/2	1.49
4	11/2	.072	4604M	4606M	4510111			4 3/8	1.97
7	1	040							
7	1	.049			741011	7414M		2 3/4	1.45
7	11/4		7504M	750(11	7410M			3 3/8	1.45
8	1 /4	.065	7304M	7506M	7510M			4	1.81
8	1	.065			8410M			31/2	1.53
8	11/4	.065	8504M	8506M	8510M			4 1/4	1.92
8	11/2	.072	8604M	8606M				51/2	2.53
-	2	.085	8884M	8886M				9 5/8	3.98
1	2	.085	1884M	1886M				101/4	4.65
4	2 2	.085	4884M	4886M				12 %	5.31
	2	.100	4814M	2564" Hole				141/2	6.12
0	21/2	.100	3114M	25/4" Hole				22 1/8	9.57

hick have 2544 inch holes. .032 inch have 3/6 inch holes, all blades .049 to .085 inch inclusive have 1/22 inch holes and all blades .100 inch



"BLU-MOL®" DOUBLE-LIFE

This remarkable blade is highly recommended for use in any plant where hacksawing operations and personnel are under careful supervision. Under such conditions it is capable of giving the lowest comper cut of any blade made. It is showing large savings for the many metal working plants which have adopted it.

"Double-Life" is made of one solid piece of fine, high speed, molybdenum steel with teeth at in both edges. The entire blade is painstakingly heat-treated to produce hard cutting edges. The center is then electrically annealed by a special process to produce a softer, very tough zone the entire length of the blade including the eyes, thus reducing breakage to a minimum.

The two cutting edges have a differential set. The first cut edge is set a few thousandths of a inch wider than the second cut edge allowing the second cut edge to follow the kerf of the former without any wear.

"Double-Life" with its two cutting edges gives twice the cutting value of a single edge blade to less than one third more.

High Speed Double Edge

March

Made	in Power	r Sizes only		new			Packed 1	O in a bo
				Order by Nu	mbers Below		Weight	List Prior
Length	Width	Thickness	4	Teeth p	er inch 10	14	box 10	per blod
12	1	.049			DL2410	DL2414	2 1/2	\$1.
12	-	.003			DL2410		7.55	1.
14	1	.049				DL4414	23/4	1.
14	1	.065			DL4410		3 3/8	1.
14	1 1/4	.065	DL4504	DL4506	DL4510		4 1/2	1.
14	1 1/2	.072	DL4604	DL4606			5	
17	11/4	.065	DL7504	DL7506	DL7510		4 1/2	2
18	11/4	.065	DL8504	DL8506	DL8510		5	2. 3. 5.
18	1 1/2	.072	DL8604	DL8606			63/8	3.
18	2	.085	DL8884	DL8886			101/4	
21	2	.085	DL1884	DL1886			121/4	6
24	2 2	.085	DL4884	DL4886			141/4	6.7
24	2	.100	DL4814	25/4" Hole			16	,

All blades .049 to .085 inch inclusive have 12 inch holes and all blades .100 inch thick have 144 inch holes.



"JET-EDGE®" POWER BLADES

Never in the thousands of tests to which "JET-EDGE" Blades have and are being subjected has a "JET-EDGE" Blade broken when operating at anything approaching normal speeds and feeds. This unbreakability, proved in industry as well as in our laboratory, is highly important. First it makes your hacksawing safer and secondly it insures getting the last cents worth of cutting value from every blade.

"JET-EDGE" is the newest development and most sensational performer in the field. The cutting edge is a strip of super, high speed steel electrically welded to an extremely tough alloy steel back. This back absorbs the stresses and strains encountered in even the severest of operations and makes "FT-EDGE" unbreakable in use.

"JET-EDGE" has already been standardized by some of the largest users of hack saw blades in the country after exhaustive tests by their own production engineers. For safety, fast, clean cutting and accuracy they cannot be equalled.



No. 8884JE 18"x 2"-.085 - 4T

Super, High Speed Unbreakable Blades

Made in Power Sizes only

New

Parked 10 in a box

mude	in Powe	r Sizes only			_		Packed	U in a box
				Order by Nu	mbers Below		Weight	List Price
Length	Width	Vidth Thickness		Teeth per inch			box	per
			4	6	10	14	10	blade
12	1	.049				2414JE	2	\$1.20
12	i	.065			2410JE		2 5/8	1.20
14	1	.049			1410JE	4414JE	21/4	1.40
14	1	.065			4410JE		3	1.40
14	11/4	.065	4504JE	4506JE	4510JE		3 3/8	1.75
14	11/2	.072	4604JE	4606JE			5	2.31
17	1	.049				7414JE	2 1/8	1.70
17	1	.065			7410JE		3 1/2	1.70
17	11/4	.065	7504JE	7506JE	7510JE		4 1/2	2.13
18	1	.065			8410JE		3 5/8	1.80
18	11/4	.065	8504JE	8506JE	8510JE		4 3/4	2.25
18	11/2	.072	8604JE	8606JE	001002		6	2.97
18	2	.085	8884JE	8886JE			9 3/4	4.68
21	2	.085	1884JE	1886JE			113/6	5.46
24	2	.085	4884JE	4886JE			14	6.24
24	2 2	.100	4814JE	2%4" Hole			151/4	7.20
30	21/2	.100	3114JE	2%4" Hole			27 3/4	11.25

All blades ,049 to ,085 inch inclusive have \$22 inch holes and all blades ,100 inch thick have 21/4 inch holes.



TUNGSTEN HIGH SPEED

The high speed steel from which these blades are made, a Tungsten 18-4-1 alloy, is particularly efficient in cutting highly abrasive materials such as stainless steel, monel metal, carbon tool steel chrome and chrome-nickel steels, etc.

With their well-known heat and wear resistant qualities they can be operated at normal feeds and speeds in these materials cutting many square inches without undue dulling.

The keen teeth are precisely set. The hardness closely controlled and tested to assure uniformly high accuracy of cut and long-cutting life.

· WIGH COSED

No.4604 14"x 1½"x.072"-4T

HAND SIZES Packed 100 in a bar

Length				Order by N	umbers Below		Weight	List Price
	Width	Width Thickness	Teeth p	Teeth per inch			per	
	***************************************	110000011	14	18	24	32	100	100
10	1/2	.025	LBC-BO-ATTOPE TO	1018	1024	1032	4	\$33.50
12	1/2	.025	1214	1218	1224	1232	4 3/8	40.20

14T and 18T Blades Standard Set. 24T and 32T Wavy Set.

POWE	R SIZES						Packed 10 in a bo		
				Order by Nu	mbers Below		Weight	List Pris	
	Width	Thickness		Teeth p	er inch		per box	pe	
Length	Width	Inickriess	4	6	10	14	10	blai	
12	1	.049				2414	2	\$1.	
12	1	.065			2410		2 5/8	1.3	
14	1	.049			1410	4414	21/8	17	
14	1	.065			4410		2 1/8	1.	
14	11/4	.065	4504	4506	4510		3 5/8		
14	11/2	.072	4604	4606			4 3/4	2.	
17	1	.049				7414	21/2	1.	
17	1	.065			7410		3 3/2	1.	
17	1 1/4	.065	7504	7506	7510		4 1/4	2.	
18	1	.065			8410		3 1/2	1.	
18	1 1/4	.065	8504	8506	8510		4 1/2	2.	
18	11/2	.072	8604	8606			5 1/8	4	
18	2	.085	8884	8886			10		
21	2	.085	1884	1886			11 1/4	5	
24	2	.085	4884	4886			131/8	6 7	
24	2	.100	4814	2 1/64" Hole			153/8	1	

All blades .049 to .085 inch inclusive have 1/21 inch holes and all blades .100 inch thick have 1/24 inch holes.



"BLU-MOL" HOLE SAWS

High Speed Heavy Duty "Follow through" Type

These new and outstanding heavy duty, high speed hole saws are rugged gang cutting tools. They cut holes, fast and clean, ½ to 4 ½ inches in diameter and up to 1 ½ inch thick in any machinable material such as hard and mild steels, aluminum, brass and bronze, plastics, iron or steel pipe, wood, etc. As the outside diameter of cut is slightly larger than the diameter of the body the saw follows completely through its own hole. This permits cutting through two or more walls or partitions.

The cutting edge is a specially selected high speed steel welded to a very tough alloy steel back which in turn is welded to the steel body which receives the mandrel that drives it.

These saws, using mandrels No. 5518 and No. 5540, can be used in any portable power tool equipped with a $\frac{1}{2}$ inch or larger chuck or can be used in radial drills, lathes, drill presses, etc.







HOLE SAWS

CUTTING DEPTH 11/8"

ALL SIZES - 6 TEETH PER INCH

Code: NOBAC

98	Diameter	Price	Pig	oe Sizes		Diameter	Price	Pipe Sizes		
Number	Saw	each	Pipe Tap	Pipe Entrance	Number	Saw	each	Pipe Tap	Pipe Entranc	
510	3/8"	\$3.00			542	2 5/8 5	\$5.30	21/2		
512	3/4 "	3.00		3/8	544	2 3/4"	5.30			
514	7/8"	3.00	3/4	1/2	546	2 1/8"	5.30			
516	1"	3.00			548	3 "	5.30		21/2	
518	1 1/8"	3.00	1	3/4	550	31/8"	5.30		- / -	
520	11/4"	3.00			552	31/4"	5.30	3		
522	1 3/8"	3.00		1	554	3 3/4"	5.30			
524	11/2"	3.00	1 1/4	- 70	556	3 1/2"	5.30			
526	1 5/8"	3.00			558	3 5/4"	7.00		3	
528	1 3/4"	4.00	11/2	1 1/4	560	3 3/4"	8.00	3 1/2		
530	1 1/8"	4.00		100073	562	3 7/8"	8.50			
532	2"	4.00		1 1/2	564	4"	9.00			
533	21/16"	5.30			566	41/8"	10.00		31/2	
534 536	21/8"	5.30			568	4 1/4"	13.00			
538	21/4"	5.30	2		570	4 3/8"	15.50			
40	2 3/8"	5.30			572	4 1/2"	18.00		4	
40	21/2"	5.30		2						

MANDRELS WITH HIGH SPEED PILOT DRILLS

The four mandrels listed below for driving the No. 500 Series of Hole Saws are all equipped with ¼ inch high speed pilot drills. A 12-inch extension is available.

No	Fitting Saws	Shank	Weight	Code	Price mach
No. 5514	Nos. 510-518	1/4" Rd.	1/4 lb.	NOCAL	\$2.50
No. 5518 No. 5540	Nos. 510-518	7/14" Hex	1/4 16.	NOCET	4.00
No. 5572	Nos. 520-572	7/16" Hex	5/a 1b.	NODIM	6.00
No. 5500	Nos. 520-572	5/8" Hex	3/4 lb.	NOFOX	6.00
5300	12" Extension	7/16" Hex	1/8 lb.	NOGUN	4.00
High Spee	ed Pilot Drills			NOGYS	1.50

Packed one Saw, Mandrel or Extension in a box



HIGH SPEED HOLE SAWS





Saw

Cup and Saw

Mandrel

Replaceable Saws and Drills

With a cutting edge or blade made of the finest molybdenum high speed steel hardened and tempered for fast cutting in the hardest alloy steels or any other machinable material. Originally developed for the use of automotive mechanics, steamfitters, plumbers, millwrights and electricians they are finding many cost saving applications on construction jobs and in industry.

They can be taken to the job since they are readily driven by any portable power tool with a 1/2 inch or larger chuck, or they can be used in a drill press, lathe and some other machine tools.

The saw or blade is rigidly locked in the body or cup by means of an expansion bolt. The assembled cup and saw is driven by a mandrel which screws into the top of the cup. The mandrel also holds and drives a pilot drill which enters the work ahead of the saw at the desired center of the hole to be cut. Knockout springs are supplied on mandrels of sizes 3/4 to 31/2 inches inclusive, to facilitate removal of the plug cutout. Larger sizes have knockout holes in the top of the cup.

Saws and pilot drills can be replaced quickly and easily at very small cost when worn out. The cups and mandrels can be used indefinitely making this the most economical saw of its type available

CUTTING DEPTH 1/4 INCH

Code: LUBEL

			Only	For Pipe	For Pipe Entrance	Size					For Pipe Top Size	For Pio Entroni Size
No.	Price	No	Price	Tap Size	The second second	principle of the						2
12	\$1.80	012	\$0.90								21/2	
		014	.90	3/4	1/2						2.75	
		015	.90									
			.90									21
			.90									
			.90	1	3/4						2	
			.90								2	
					1							
				1 1/4		31/2						3
						3 5/8	58					
				11/2	1 1/4	4	64	3.40				3
						41/8	66	3.40				-
					1 1/2	4 1/4	68	3.40				
						4 3/4	76	4.30				
						51/8	82	4.60				
							90	4.95	090	3.10		
												_
	Cup	Cup and Saw No. Price 12 \$1.80 14 1.80 15 1.80 16 1.80 17 1.80 20 1.80 22 1.80 24 1.80 24 2.20 28 2.20 30 2.20 31 2.20 32 2.20 33 2.20 34 2.70 36 2.70	Price No.	Cup and Saw No. Price No.	Sow Only For Pipe No. Price No. Price No. Price No. Price Top Size	Sow Only For Pipe For Pipe For Pipe Entronce	Size Size	Cup and Saw No. Price No. Price Price No. Price No. Price Price Size Size No. Price Price Price No. Price Price Size No. Price Price Price Size No. Price Price Price Size Size No. Price Pr	Size Cup and Saw No. Price No. Pri	Size Cup and Saw No. Price Sow Only No. Price For Pipe Entrace Tap Size Size Size No. Price No. Price Size Size No. No	Cup and Saw No. Price No. Price For Pipe Entrarce Tap Size Size Cup and Saw No. Price No. Price Tap Size Size Inchest No. Price No.	Cup and Saw No. Price No. Price Price No. Price No. Price Price No. Price No. Price Price No. Price Price No. Price No. Price No. Price No. Price

MANDREIS	*******	DULOT	DDILLE
MANDREIS	WIIH	PILOI	DKILLS

	Weight	Code	
No. 1218 for sizes Nos. 12 to 18 No. 2054 for sizes Nos. 20 to 56	1/4 lb. 1/2 lb.	LUDAM	1
No. 5890 for sizes Nos. 58 to 90	1/2 lb.	LUDIZ	
Extra Pilot Drills			

Packed one Saw, one Cup and Saw or one Mandrel in a box 96



FLEXIBLE BACK METAL CUTTING BAND SAWS







For Straight, Contour or Profile Sawing

Made of tough alloy steel with a carefully hardened cutting edge and a softer, tough flexible back. They cut fast and are long-lived. Careful selection of the type, pitch and cutting speed is essential for the best performance and economy.

Two types of teeth are available. "Regular" for ferrous metals—"Skip Tooth" for non-ferrous metals, wood, plastics, fibres, etc.

PEGILLAR TOOTH

In Coils (100', 250' or 500') or Cut to Length

KEGOTAL	100111								
Width	Thickness	Teeth per inch	List Price per foot	Welds each					
16.	.025	24-32	\$0.12	\$0.60					
36	.025	18- 32	.12	.60					
72		14 -18-24	.12	.60					
20	.025	10 - 14 -18-24-32	.12	.60					
716	.025	10 -12 -14 -18-24-32	.12	.60					
34	.025		.128	.60					
78	.025	8-10 - 14 -18-24	.136	.60					
1/2	.025	6- 10*- 14*-18-24	.168	.60					
1/2	.032	8-10*- 14*-18-24		.60					
3/4	.032	6-8-10*-12*-14*-18	.192						
1	.035	6-8-10*- 14	.24	.60					

All 6 to 24 pitch saws have Raker Set-32 pitch have Wavy Set only. *Pitches marked with asterisk are available in Wavy Set also.

SKIP TOOTH

In Coils (100', 250' or 500') or Cut to Length

	In	111 00113	(100)	
Width inches	Thickness	Teeth per inch	List Price per foot	Welds
1/4	.025	4-6	\$0.12	\$0.60
3/4	.025	3-4	.128	.60
1/2	.025	3-4	.136	.60
3/4	.032	3	.192	.60
1	035	2-3	.24	.60

REGULAR OR SKIP TOOTH

Cut to Length and Welded

.03	.032	.032	.025	% .025	Under ¾ " .025	Lengths Inclusive
\$2.04	\$1.75	\$1.61	\$1.42	\$1.37	\$1.32	5'6" to 6'5"
2.28	1.94	1.78	1.55	1.50	1.44	6'6" to 7'5"
2.53	2.14	1.94	1.69	1.62	1.56	6" to 0' E"
2.76	2.33	2.11	1.82	1.75	1.68	6.4
3.00	2.52	2.28	1.96	1.88	1.80	6" to 10' 5"
3.24	2.71	2.45	2.10	2.01	1.92	0'6" to 11'5"
3.4	2.90	2.62	2.23	2.14	2.04	6" to 12' 5"
3.7	3.10	2.78	2.37	2.26	2.16	6" to 13' 5"
3.90	3.29	2.95	2.50	2.39	2.28	A TANK A CANA
4.20	3.48	3.12	2.64	2.52	2.40	6" to 15' 5"
4.4	3.67	3.29	2.78	2.65	2.52	6" to 16' 5"
4.6	3.86	3.46	2.91	2.78	2.64	6" to 17' 5"
4.9	4.06	3.62	3.05	2.90	2.76	6" to 18' 5"
5.10	4.25	3.79	3.18	3.03	2.88	6" to 10' 5"
5.40	4.44	3.96	3.32	3.16	3.00	
5.6	4.63	4.13	3.46	3.29	3 12	0' 6" to 20' 5"

97



SPRING TEMPER METAL CUTTING BAND SAWS

MILLERS FALLS

This type of saw is made of the finest quality spring tempered steel which can readily be resharpened and reset.

Their applications for economical use should not be confused with those of the hard edge, flexible back type on the preceding page. They are recommended for cutting aluminum, magnesium, brass, thin metal sheets, plastics, fibre and similar materials.

In Coils (100' or up to 1000') or Cut to Length

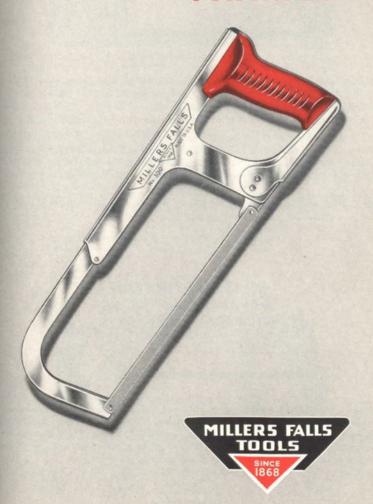
Width	***		List Price	Welds	
Name and Address of the Owner, when the Owner, which the Owner,	Thickness	Teeth per inch	per foot	each	
1/4	.025	8-10	\$0.14	\$0.50	
3/8	.025	8-10	.15	.50	
3/8	.032	8-10	.16	.50	
1/2	.025	6-8-10	.17	.50	
1/2	.032	6-8-10	.18	.50	
5/8	.025	4-6-8-10	.18	.60	
3/8	.032	4-6-8-10	.20	.60	
5/8	.035	4-6-8-10	.21	.60	
3/4	.035	4-6-8	.23	.60	
1	.035	4-6-8	.28	.60	
1 1/4	.042	3-4	.35	.70	
11/4	.049	3-4	.38	.70	

Deduct \$0.04 per foot if neither filed nor set; deduct \$0.0125 per foot if filed and not set; deduct \$0.0275 per foot if set and not filed.

Cut to Length and Welder

				Cut to L	ength o	and Wel	ded					
Lengths Inclusive	.025	% .025	.032	.025	.032	.025	.032	.035	.035	.035	.042	1%
5' 6" to 6' 5"	\$1.34	\$1.40	\$1.46	\$1.52	\$1.58	\$1.68	\$1.80	\$1.86	\$1.98	\$2.28	\$2.80	\$2.98
6' 6" to 7' 5"	1.48	1.55	1.62	1.69	1.76	1.86	2.00	2.07	2.21	2.56	3.15	3.36
7' 6" to 8' 5"	1.62	1.70	1.78	1.86	1.94	2.04	2.20	2.28	2.44	2.84	3.50	3.74
8' 6" to 9' 5"	1.76	1.85	1.94	2.03	2.12	2.22	2.40	2.49	2.67	3.12	3.85	4.12
9' 6" to 10' 5"	1.90	2.00	2.10	2.20	2.30	2.40	2.60	2.70	2.90	3.40	4.20	4.50
10' 6" to 11' 5"	2.04	2.15	2.26	2.37	2.48	2.58	2.80	2.91	3.13	3.68	4.55	4.88
11'6" to 12'5"	2.18	2.30	2.42	2.54	2.66	2.76	3.00	3.12	3.36	3.96	4.90	5.26
12' 6" to 13' 5"	2.32	2.45	2.58	2.71	2.84	2.94	3.20	3.33	3.59	4.24	5.25	5.64
13' 6" to 14' 5"	2.46	2.60	2.74	2.88	3.02	3.12	3.40	3.54	3.82	4.52	5.60	6.02
14' 6" to 15' 5"	2.60	2.75	2.90	3.05	3.20	3.30	3.60	3.75	4.05	4.80	5.95	6.40
15' 6" to 16' 5"	2.74	2.90	3.06	3.22	3.38	3.48	3.80	3.96	4.28	5.08	6.30	6.78
16' 6" to 17' 5"	2.88	3.05	3.22	3.39	3.56	3.66	4.00	4.17	4.51	5.36	6.65	7.16
17' 6" to 18' 5"	3.02	3.20	3.38	3.56	3.74	3.84	4.20	4.38	4.74	5.64	7.00	7.54
18' 6" to 19' 5"	3.16	3.35	3.54	3.73	3.92	4.02	4.40	4.59	4.97	5.92	7.35	7.92
19' 6" to 20' 5"	3.30	3.50	3.70	3.90	4.10	4.20	4.60	4.80	5.20	6.20	7.70	8.30
20' 6" to 21' 5"	3.44	3.65	3.86	4.07	4.28	4.38	4.80	5.01	5.43	6.48	8.05	8.68

HACKSAW FRAMES



ROSE TOOLS, INC.