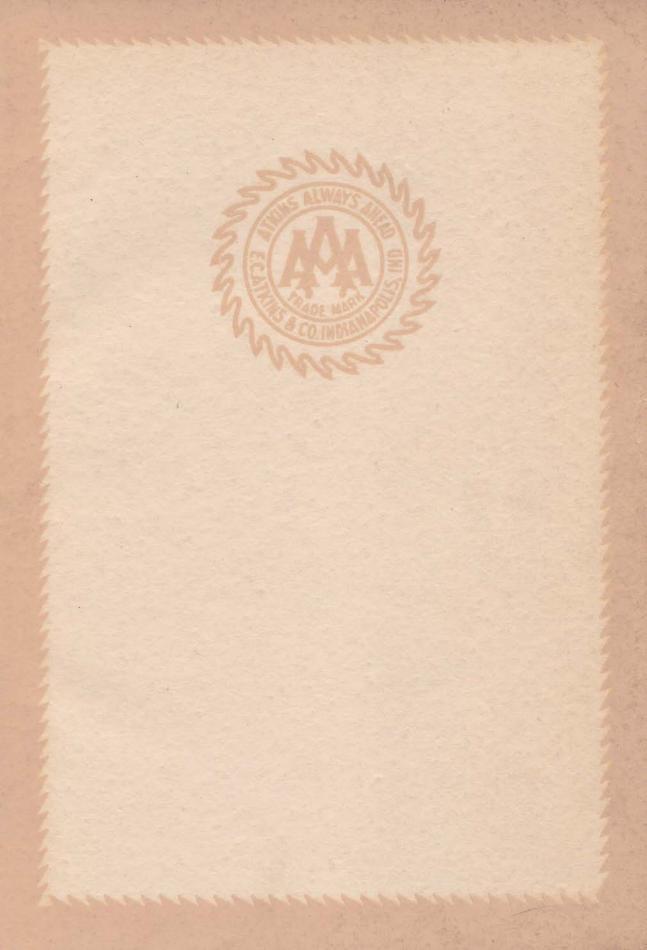
E.C.ATKINS & COMPANY SAW TOOLS and MACHINE KNIVES



INDIANAPOLIS IL S. A.



E. C. ATKINS & COMPANY SAWS

SAW TOOLS and MACHINE





No. 19

INDIANAPOLIS, INDIANA, U.S.A.

Branch Houses

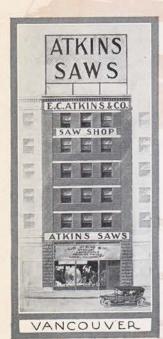
NEW YORK CITY CHICAGO, ILL. SAN FRANCISCO, CALIF.
MEMPHIS, TENN. MINNEAPOLIS, MINN. PORTLAND, ORE.
ATLANTA, GA. NEW ORLEANS, LA. SEATTLE, WASH.
SYDNEY, N. S. W. VANCOUVER, B. C.
No. 4 RUE DE MARSEILLE, PARIS, FRANCE

Machine Knife Factory: LANCASTER, NEW YORK Canadian Factory: Hamilton, Ontario Entered according to Act of Congress, in the year 1923

by

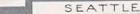
E. C. ATKINS & CO., INC., SHEFFIELD SAW WORKS INDIANAPOLIS, INDIANA

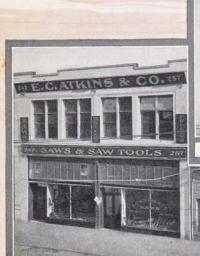
At the office of the Librarian of Congress Washington, D. C.



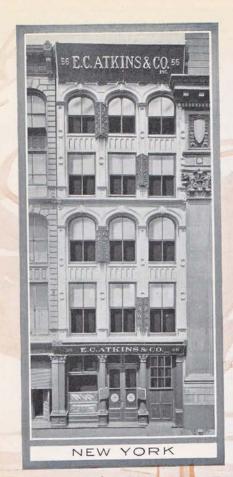






















Introductory

HE ATKINS FAMILY have been identified with metal working for generations. From one generation to another, they have actually followed the growth of the Saw from its most primitive type to its present state of development. They have been students; they are a family of inventors; to them the world is largely indebted for the innovations that have taken place in the Saw World; the common-

place has never satisfied their ambitions—the slogan has ever been, "Atkins Always Ahead." This means more than a mere catch phrase. It means that the

policy of the Atkins Family has been to maintain the highest standard in all things pertaining to the making of the very finest Saws, Saw Tools and Machine Knives.

It means that cost of manufacture is not to be considered where it will add one whit to the result-giving qualities of the product.

So that it is with feelings of extreme pride that we present to the world what we believe to be the finest and most comprehensive book that has ever been published on this subject, as we also believe the various items shown herein represent the highest development in their different lines.

It is strictly upon the ground of superior quality that we respectfully solicit the patronage of all lovers of fine Saws, Saw Tools and Machine Knives.

OUR DEPARTMENTS

Owing to the varied uses for Saws and other products of our manufacture and the fact that so many different classes of business are affected, our complete product has been divided into departments.

Each of these is under the direct personal supervision of experts who have made their particular line a life study. The facilities offered, therefore, are the same as though each department were a separate institution.

These different departments and the lines included therein are as follows:

Mill Saws—Circular Saws, Edger Saws, Concave Saws, Shingle and Heading Saws, Segment Veneer Saws, Circular Mitre Saws, Patent Tooth Saws, Wabble Saws, Circular Knives, Inserted Tooth Saws, Bits and Holders, Rift Saws, Band Saws, Gang Saws, Drag Saws, Mulay Saws, Barrel Saws, Dado Heads, Felloe Webs, Scroll Saws, etc., etc.

ATKINS SILVER



STEEL SAWS

Metal Saws—Circular Metal Cutting Saws of all kinds and for all types of machines, High Speed Metal Saws, Metal Cutting Band Saws and Machines, Hand and Power Hack Saw Blades, Rail Hack Saws, Hand Hack Saw Frames, Metal Cutting Hand Saws, and Kwik-Kut Metal Cutting Machines.

The Hardware Line—Hand Saws, Cross Cut Saws—Two-Men, Wide and Narrow, One-Man Cross Cut Saws, and Handles, Wood Saws, Ice Saws, Mitre Box Saws, Back Saws, Compass and Keyhole Saws, Pruning Saws, Butcher Saws, Nests of Saws, Coping Saws, Stairbuilders' Saws, Dehorning Saws, Pattern Makers' Saws, Whip Saws, Pit Saws, Braces, Grass Hooks, Floor Scrapers, Bench, Wall and Belt Scrapers, Cabinet Scrapers, Corn Knives, Cane Knives, Hand Saw Handles, etc.

Saw Tools and Specialties—Eccentric Swages, Upset Swages, Saw Vises. Clamps and Sets, Saw Fitting Tools, Hammers, Straight Edges, Gummers, Grinders, Grinding Wheels, Brazing Outfits, Mandrels, Car Movers, Belt Punches, Belt Wax, etc.

Trowels—Plastering Trowels, Finishing Trowels, Cement Trowels for Edging, Guttering, etc.

Machine Knives—A complete line of Machine Knives for all classes of work where power machinery is used, including Lathe and Spoke Knives, Cork Cutting and Paper Cutting Discs and Knives of special shapes and sizes.

Manual Training—We make a complete line of Saws and Tools, specially adapted for Manual Training Schools.

Repair Work—We have completely equipped Repair Shops at Atlanta, Memphis, Minneapolis, New Orleans, Portland, Ore., Seattle, Vancouver, B.C., Hamilton, Ont., and Indianapolis for the prompt and accurate execution of all classes of repair work. See page 3 for complete list of Branches and Factories.

Special Work—Our equipment and facilities enable us to economically execute the manufacture of a great many special items where high quality of steel and delicate manipulation is essential, such as automobile and harrow discs, pattern plates, brick plates and liners or sheet metal work of any kind.



GENERAL INFORMATION

CREDITS

We shall be pleased to issue reasonable credit to the extent which the financial standing of our customers warrants.

New customers will, therefore, facilitate matters by sending a financial statement with their initial order.

Being unable to secure satisfactory commercial reference, cash bills will be sent for remittance in advance of shipment.

Orders for all special work, Saws or Supplies, not cataloged, should be accompanied by a remittance.

REMITTANCES

All bills are payable in New York Exchange or other funds current at par in Indianapolis.

Errors in bills or shortages must be reported immediately upon receipt of goods.

ORDERS

Be particular to give explicit shipping directions with each order. This should include the shipping point, how to be shipped and postoffice, if different.

All orders submitted through our agents or by mail are subject to our approval. If declined, customer will be notified promptly.

Prices of our goods and quotations are subject to change without notice and goods will be invoiced at current prices when shipped.

We reserve the right to correct stenographic errors on quotations and will not be held responsible for errors or delays which are beyond our control.

All prices are F. O. B. Factory unless otherwise quoted.

SHIPMENTS

All packages in excess of 100 pounds will be shipped by freight unless otherwise specified, we using our discretion as to the most advantageous route.

PARCEL POST

All shipments that come within the provisions of the parcel post regulations will be so shipped unless the corresponding express rates are cheaper. All shipments by parcel post will be insured and customer charged with said insurance unless we are instructed to the contrary.

In all cases of shipment, whether by freight, express or parcel post, our responsibility ceases upon delivery of the goods to the transporter and his receipt taken therefor.

E. C. ATKINS & CO., Inc. Indianapolis, U. S. A.

THE ATKINS GUARANTEE

No saw is a genuine Atkins Silver Steel Saw unless the name, "E. C. Atkins & Co." and the trade mark showing three A's are plainly etched thereon.

It is the policy and the intention of E. C. Atkins & Co. to see that any article bearing their name shall be of the very highest quality, and we shall deem it a favor to be advised in regard to any such item which does not give perfect satisfaction.

ATKINS CIRCULAR AND BAND SAWS

These saws are warranted to be made of Silver Steel—Atkins exclusive formula—and as true and perfect as it is possible to make them. Where changes in tension to fit the requirements are needed, these will be made free of charge, or a new saw given in exchange, provided it is returned within a period of thirty days after delivery.

Warning: Saws cracked or broken, as a result of filing square corners in the gullets or from using a cold chisel, or punch, in re-toothing, will not be replaced under this warranty.

We will not be responsible for saws in which the holes have been reamed, filed or otherwise changed from original specifications.

METAL SAWS

All Atkins Metal Saws, including round and band saws and hack saw blades, are guaranteed to be made of the very finest material, properly tempered, and to give the best possible service.

Any metal saw that fails to stand up to its work in a satisfactory manner should be immediately reported to the house from which it is purchased, together with a statement of the facts. Careful investigation will be made and if the saw is defective, it will be replaced by a new saw.

ATKINS CROSS CUT SAWS

Any Atkins Silver Steel Cross Cut Saw which does not run easier, cut faster and hold its edge longer, or which fails to cut more timber with one filing than any other brand of saws, may be exchanged for a new saw if reported to us within a period of thirty days after delivery.

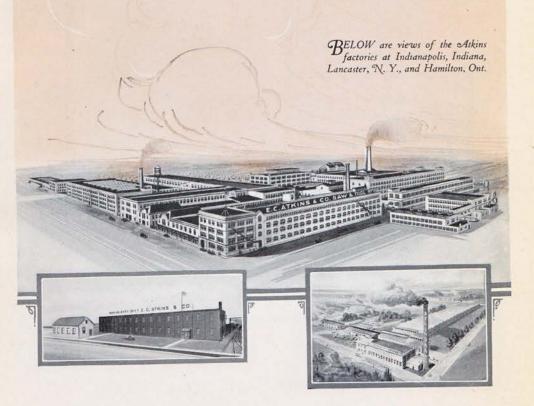
ATKINS SILVER STEEL HAND, WOOD AND OTHER SMALL SAWS

Any Atkins Silver Steel Hand, Rip, Panel, Keyhole, Back, or other saw bearing our name is fully warranted against all defects and guaranteed to give complete satisfaction in every way and is subject to replacement if defective in any particular.

E. C. ATKINS & CO., Inc. Indianapolis, U. S. A.

Our Branches

UR Branch Houses at Atlanta, Chicago, Memphis, Minneapolis, New Orleans, New York City, Portland, Oregon; San Francisco, Seattle, Vancouver, B. C.; Sydney, N. S. W.; Paris, France, and our Canadian factory at Hamilton, Ont., as well as our Machine Knife Factory at Lancaster, N. Y., and numerous distributing agents throughout the world, place the Atkins line within easy reach of the users of saws, saw tools and machine knives everywhere.



MEDALS AWARDED E. C. ATKINS & CO.



CENTENNIAL EXPOSITION PHILADELPHIA, 1876



WORLD'S COLUMBIAN EXPOSITION CHICAGO, ILLINOIS, 1893



EXPOSITION UNIVERSELLE INTERNATIONAL PARIS, 1900



PAN-AMERICAN EXPOSITION BUFFALO, N. Y., 1901



ALASKA-YUKON-PACIFIC EXPOSITION SEATTLE, 1909



EXPOSITION INTERNATIONALE DE LEST DE LA FRANCE NANCY, 1909



INDIANA STATE, 1864



WORLD'S INDUSTRIAL AND COTTON CENTENNIAL EXPOSITION PHILADELPHIA, 1884

THE ATKINS TELEGRAPHIC CODE

We call particular attention to our new Five-Letter Code, as given below, and respectfully ask our patrons to make use of same, as far as possible, when telegraphing.

TIME AND MANNER OF SHIPPING

Aback Express at once.	AbeamOrder confirmed by mail.
AbaftFreight at once.	Abhor When will you ship order?
Abash Express as soon as possible.	Abide If you cannot ship at once, advise us by wire.
Abate Freight as soon as possible.	Abode Customer in great hurry.
Abbey Answer, saying when you can ship.	AbyssCustomer will cancel if not shipped at once.

SHIPMENT QUESTIONS

Abuse Shall we ship via rail? Acorn Shall we ship via rail and lakes? Acrid Shall we ship via steamer? Actor Shall we ship via express? Acute Shall we ship via express? Adage Shall we ship via sailing vessel? Adage Shall we ship via cheapest route? Adapt Shall we ship via quickest route (freight)? Adder When will you ship? Admix When can you ship? Adult Can you ship spromptly? Agape Can you ship today? Agate Can you make shipment by the Agast Can you ship on receipt of order? Agile Can you furnish within Agone When can you ship us partial shipment?	Aneal When can you make complete shipment of our order? Abear. When will you complete our order? Angel. When and how did you make shipment? Anger. Where did you make shipments? Angle. Shall we get through rate of freight? Anile. Shall we prepay freight? Anile. Shall we prepay freight? Ankle. Shall we prepay express? Ankle. Shall we send wire tracer after shipment? Annal. Shall we cancel unfilled portion of order? Annex. Shall we hold for shipping instructions? Annoy. Shall we make partial shipment, balance later? Antic. Shall we enter order to be shipped at earliest date possible?
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SHIPMENT ANSWERS

OIIII MENT	THE TOTAL O
Apace. Ship via rail. Apeak Ship via rail and lakes. Apery. Ship via steamer. Apian. Ship via steamer. Apian. Ship via steamer. Apian. Ship via suling vessel. Aport. Ship via cheapest route. Appal. Ship via quickest route (freight). Apron. We can ship Aptly. We can ship at once. Araby. We expect to ship today. Ardor. We expect to ship order complete. Arear. We expect to ship order complete. Arear. We expect to ship balance of order Argon. We made you shipment Argot. We completed your order Argue. Shipment was made to Argus. Shipment was made to Argus. Shipment was made on Ariel. We will ship as soon as possible. Arise. We cannot promise definitely. Armor. Impossible for us to fill your order in time specified. Arose. If ordered immediately, can ship Array. If ordered immediately, can ship	Arrow. Will do our best to ship earlier. Aside Will try to ship in 1 day. Aspen. Will try to ship in 2 days. Aspic. Will try to ship in 3 days. Aspic. Will try to ship in 4 days. Assay. Will try to ship in 4 days. Astel. Will try to ship in 5 days. Astel. Will try to ship in 6 days. Astun. Will try to ship in 7 days. Atill Will try to ship in 7 days. Atill Will try to ship in 9 days. Atimy Will try to ship in 10 days. Atiar Will try to ship in 10 days. Atluk Will try to ship in 10 days. Atluk Will try to ship in 3 weeks. Atman Will try to ship in 3 weeks. Atone. Will try to ship in 6 weeks. Attic. Will try to ship in 6 weeks. Attic. Will try to ship in 60 days. Brand. Will try to ship in 60 days. Brand. Will try to ship in week to 10 days. Brand. Will try to ship in 10 days to 2 weeks. Broad. Will try to ship in 3 to 4 weeks. Broad. Will try to ship in 3 to 4 weeks. Broad. Will try to ship in 5 to 6 weeks. Broad. Will try to ship in 5 to 6 weeks.

SHIPMENT INSTRUCTIONS

Audit. Please send shipping instructions. Auget. We have sent wire tracer after shipment. Aunty. Ship today sure. Aural. Ship today or cancel. Auris. Ship as soon as possible. Avail. Ship on the date specified without fail. Avens. Ship at once any portion of our order. Avert. Ship today what you have ready and balance at earliest convenience. Avian. Very urgent, rush order.	Aview. Cancel our order. Avoke. Cancel balance of order. Awake. Cancel balance of order unless shipped by Awful. We are entirely out of Awned. We are urgently in need of Axiom. Send wire tracer after shipment. Axmon. Get through rate of freight. Aziam. Prepay freight. Azale. Prepay express.
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PRICES

Bacon At what prices can you turnish?	Baken Free on board at
Badge At what price and how soon can you furnish?	Baler Less freight allowance per 100 pounds of
BaftaPrices are subject to change without notice.	BalkyPlease send specifications in detail.
Baggy We quote you	BalmyWe cannot accept offer
BairnWe can not furnish	BalsaYou can quote
Baize Not less than	BasopWe have not quoted.
Baked Delivery in your city.	Bater If necessary to meet competition, you can quote.

ORDERS

Banal We have entered your order for	Barky Enter our order for
Bandy Enter our order at prices named.	Baron Send detail specifications.
Banjo Will you accept order?	Basal We cannot accept your order.
Banns	BasicOrder confirmed by mail.

THE ATKINS TELEGRAPHIC CODE—Continued

CANCELLATIONS

GENERAL

Badar	. We will cancel your order.
Babam	We cancelled your order.
Rabdo	We cannot cancel your order.

Basso.... See letter of this date.
Baste.... Please reply immediately by telegraph.
Basyl.... Your telegram is unintelligible, please repeat
Batam... See at once, are in market for

DISCOUNTS

Per Cent	Per Cent	Per Cent	Per Cent	
Batch 2	Belay	Bites45	Bloat 65	
Bathe 21/2	Belie30	Blame 50	Boast70	
Baton 3	Belle30-5	Bland	Bogle70-5	
Bazar 5	Berob30-10	Blare 50-10	Bogus70-10	
Beaky 7½	Berry30-10-5	Blast 50-10-5	Boost	
Beamy	Berth	Blaze	Boots	
Beard	Beryl35	Bleak55	Booty	
Beast	Beset 40	Blear 60	Borne80	
Bedew20-5	Bight 40-5	Bless	Bossy80-5	
Beeve	Bigot 40-10	Blind 60-10	Bower80-10	
Befit20-10-5	Biped40-10-5	Blink	Boxer80-10-5	
Befog20-10-10	Bison 40-10-10	Bliss	Braid 80-10-10	

TERMS

Brain 10 days net Brash 30 days net Bravo 60 days net Brawl 90 days net Braxy 4 months net	Breed. Special terms per contract Bribe. 2 per cent cash in 10 days or 60 days net Brier. 2 per cent cash in 30 days Clime. Sight Draft	Clout 3 days Sight Draft Close 30 days Sight Draft Cloth 60 days Sight Draft Cluck 90 days Sight Draft Clung 129 days Sight Draft
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CIRCULAR AND MILL SAWS

Dado hands

Cabal Circular saws, solid tooth rip	CarpoDado heads
Cabby Circular saws, solid tooth cross cut	CarveCircular saws, meta
CabinCircular saws, solid tooth, grooving	Caste Circular saws, milling saws for Bryant Machine
CacheCircular saws, solid tooth shingle or heading saws	CatchCircular saws, milling saws for Higley Machine
Caddy, Circular saws, inserted chisel tooth (style tooth	CaterCircular saws, lathe
No. 5)	CattyCircular saws, hot
	CattyCircular saws, not
	CavilBand saws (mill)
No. 4)	
Cadge Circular saws, inserted chisel tooth (style tooth	
No. 3)	ChalkMulay saws
CalixCircular saws, inserted chisel tooth (style tooth No. 2½)	Chant Mulay saws, special pattern for Chandler & Taylor Mill
Calla Circular saws, inserted chisel tooth (style tooth	CharmGang saws
No. 2)	Chasm, Rift saws
CamelCircular saws, inserted chisel tooth (style tooth	ChatyDrag saws, tapered 6 x 4 inches
No. 30)	Cheer Drag saws, tapered 8 x 6 inches
CanalCircular saws, inserted chisel tooth (short holder	Chide Drag saws, tapered 7 x 5 inches
pattern)	ChumpDrag saws, tapered 7½ x 4½ inches
Canad Circular saws, inserted chisel tooth,	Churn Drag saws, equal width, 10 inches
("S" pattern)	Cider Drag saws, equal width, 8 inches
Canbo Atkins inserted tooth cut-off saw	Cinch Drag saws, lance tooth
CandyCircular saws, solid tooth, edgers	ClashDrag saws, tuttle tooth
Caned Circular saws, solid tooth, edgers	Cleft Drag saws, mill tooth
	Cleve Drag saws, single hook tooth
	Click Drag saws, diamond tooth
Canoe Circular saws, veneering saws in segments	
CantoCircular saws, slate	
Caper Circular saws, McKam Tooth	
Carib Circular saws, wabble	ClinkCylinder saws
CarolCircular saws, lock corner box cutters	CloakBilge saws
CaromCircular knives	

SPEED, REVOLUTIONS PER MINUTE

Clerk 200	Cocoa 675	Comus	Cowan 3000
Clest	Godex	Couch 1400	Cowle
	Codle	Coney	Coxal
Cliga300	Cohog	Conid	Cozen 3750
Clina	Coign 775	Conne	Crake 4000
Cling350	Coind 800	Cooky1600	Cramp 4500
Clipt	Covne	Coomb	Crash 5000
Clont	Cokes 850	Cooth1700	Crawl 5500
Closh	Colic 875	Coppy	Craze 6000
Cloud	Colly 900	Copsy1800	Cream 6500
Clove	Colon	Coque1850	Credo 7000
Clown	Colza	Coral	Creel 7500
Clubs	Comal	Corme	Crisp 8000
Clump	Combs1100	Cosey	Croak 8500
Coach	Comet	Cough	Crone 9000
Coact	Comic	Count2200	Crust 9500
Coaly	Comma	Coury2500	Cyrer10000
Coats	Compo1300	Cover	Crexo

THE ATKINS TELEGRAPHIC CODE—Continued

DIAMETER

Daffy 1 inch Dairy 2 inch Daisy 3 inch Dally 4 inch Dance 5 inch Dandy 6 inch Darby 7 inch Daunt 8 inch Davit 9 inch Dawdy 10 inch Dazed 11 inch Debar 13 inch Debar 14 inch Debar 14 inch	Defer. 18 inch Deify. 19 inch Deign. 20 inch Deity. 21 inch Delve. 22 inch Demit. 23 inch Demon. 24 inch Denur. 25 inch Denim. 26 inch Dense. 27 inch Derby. 28 inch Deter. 29 inch Deuce. 30 inch Devil. 32 inch	Dicky 40 inch Digit 42 inch Dingy 44 inch Dirge 46 inch Dirty 48 inch Doggy 50 inch Dolce 52 inch Dolly 54 inch Dolor 56 inch Donor 58 inch Doric 60 inch Dotty 62 inch Doubt 64 inch Doubt 64 inch	Downy 72 im	ch ch ch ch ch ch ch
		Dotty62 inch		ch ch ch

GAUGE

Eager30	Elemi 4	Enarm 7 x 15	Erect
Easel	Elfin	Endew 7 x 16	Ergal
Eaves28	Elide 2	Endie 7 x 17	Ergon
Ebrew	Elmes	Eneid 8 x 8	Erica
Ebrew	Elode	Enema 8 x 9	Ermin 10 x 16
Eburn	Floge	Enemy	Erose
Eccle		Enerd 8 x 11	Erump 10 x 18
Echin	Eloin		Ervum
Eclat23	Elong		
Ecole22	Elope	Engle 8 x 13	Escar
Ectal	Elsen 6 x 8	Ensky 8 x 14	Esmal
Edder	Elute	Ensue 8 x 15	Essay
Edict	Elver 6 x 10	Entad 8 x 16	Estat
Edify	Email	Entry 8 x 17	Ester11 x 16
Edile17	Emang	Envoy 8 x 18	Estoc
Educt	Embar	Enzym 9 x 9	Estre
Efagg	Embla	Eosin 9 x 10	Etaac11 x 19
Egret	Embog	Epact 9 x 11	Ethal11 x 20
Eisel	Embry	Ephah 9 x 12	Ether
Eiido12	Emeer	Ephor 9 x 13	Ethie
Eking11	Emend	Epoch 9 x 14	Ethos
Elaic	Emmet	Epode 9 x 15	Etite
	Emony	Epure 9 x 16	Etude
Elamp 9	Empty7 x 11	Erack 9 x 17	Eurus
Elate 8	Emrod	Erato 9 x 18	Evade
Elder	Emrod	Erber	Event
Elect	Enact		Evict
Elegy 5	Enage	Erbia10 x 11	Evict12 x 20

HAND OF SAWS

FacerLeft Hand Fable.	Right Hand
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NUMBER OF TEETH

Fadge 6 teeth Feces. Faggy 8 teeth Feign. Fagot 10 teeth Feign. Fagos 12 teeth Fenks. Faham 14 teeth Feoff. Faint 16 teeth Ferny. Fairy 18 teeth Fetal. Fairy 20 teeth Fetch. False 22 teeth Fetor. Fancy 24 teeth Fever. Fanon 26 teeth Fired. Farad 28 teeth Fiend. Faree 30 teeth Fiery. Faren 32 teeth Filch Fasel 34 teeth Filch Fatal 36 teeth Filly. Fauld 38 teeth Filly.	42 teeth Finch 80 teeth 44 teeth Finis 82 teeth 46 teeth Finit 84 teeth 48 teeth Finit 84 teeth 50 teeth Firth 88 teeth 52 teeth Fitab 90 teeth 54 teeth Flail 92 teeth 56 teeth Flaik 96 teeth 56 teeth Flak 96 teeth 60 teeth Flak 96 teeth 61 teeth Flak 10 teeth 62 teeth Flask 110 teeth 64 teeth Flex 120 teeth 66 teeth Flex 130 teeth 70 teeth Flier 130 teeth 74 teeth Flirt 150 teeth 74 teeth Flirt 150 teeth 76 teeth Float 160 teeth 76 teeth Float 160 teeth 76 teeth Float 170 teeth	Flown 180 teeth Fluff. 30 to 36 Fluid. 32 to 38 Fluid. 32 to 38 Fluid. 32 to 38 Fluid. 34 to 40 Fluite. 36 to 42 Flyer. 38 to 44 Focal. 40 to 46 Focus. 42 to 48 Foggy 44 to 50 Foist. 46 to 52 Fonde. 48 to 54 Foray. 50 to 56 Forte. 52 to 58 Forum. 54 to 60 Fount. 56 to 62 Foyne. 58 to 64 Frack. 60 to 66
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POINT TO POINT

$\begin{array}{lll} \text{Fugie}. & & 11/4 \text{ inches} \\ \text{Furry}. & & 13/8 \text{ inches} \\ \text{Funic}. & & & 11/2 \text{ inches} \end{array}$	

THE ATKINS TELEGRAPHIC CODE—Continued

DIAMETER OF HOLES

GabbyStandard ma	ndrel and pin holes.
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MANDREL HOLES

AND THE PARTY OF T
Gadhi 14 inch Gemot 1 ½ inches Glint 2 in, full Gride 2 ½ inch Gaily 3½ inch Genet 1 ½ inches Glob 2 in, scant Grief 2 ½ inch Galea 3½ inch Genie 1 ½ inches Glare 2 ½ inches Grill 2 ½ inches Garum 3½ inch Geode 1 ½ inches Glove 2 ½ inches Groin 2 ½ inches Gaudy ½ inch Gerne 1 ½ inches Glump 2 ¼ inches Grope 3 inches Gawel 1½ inche Gnome 2 ½ inches Grown 3½ inches Gawel 1 inch Glet 1 ¼ inches Gnome 2 ½ inches Grown 3½ inches Gawel 1 inches Glace 1 ¼ inches Grome 2 ½ inches Guara 4½ inches Geitd 1 ½ inches Glady 1 ½ inches Grape 2 ½ inches Guile 5 inc Geidd 1 ½ inches Glad 1 ½ inches Grape

PIN HOLES

Haler & inch	$\begin{array}{ccc} \text{Hanse} & & \frac{1}{16} \text{ inch} \\ \text{Hatch} & & \frac{3}{8} \text{ inch} \\ \text{Haulm} & & \frac{7}{16} \text{ inch} \end{array}$	Haven3% inch Hawse34 inch	Heave 12 inch
	Haten Distance from c	enter to center inches.	

INSERTED TEETH AND HOLDERS

Pattern	Pattern	Pattern	Pattern
Hedge	Hinch	Hoker No. 4	Hubbs
HeighNo. B	Hoard	Holly No. 3	Humes No. S.D.
HemicNo. C	Hobby Roscer		Hurds
Hewer	Hodge	HoochShort Holder	Husks Saw Teeth

WIDTH OF POINT OF INSERTED TEETH

Ichor. \$\frac{13}{64}\$ inch Ictus \$\frac{1}{2}\$ inch Ideal. \$\frac{15}{64}\$ inch Idiot \$\frac{1}{4}\$ inch	Ileum	Indin.	Inkle ½ inch Inlet ¾ inch Inmid ¼ inch Inovo ¼ inch
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SHINGLE MACHINES

Jacal. Challoner's Hand Feed Machine Jacky. Challoner's Double Block Machine Jager. Challoner's Ten Block Machine Jalee. Perkins Grand Mogul Jamba. Perkins Golumbia Jaunt. Perkins Michigan Favorite Javel. Perkins Michigan Favorite Javel. Perkins Perfection Jawed Trevor Machine Jazel. Chase Machine Jelly. Greenwood Machine Jerky. Flynn Machine Jewel. Lane's Machine	Jiffy Novelty No 3 Machine Jippo Novelty No. 4 Machine Joker Buckeye Hall's Patent Joule Dunbar Jubha Mitchell Clipper Judge Letson & Burpee Jugal Saw Only, No Flange Jugum Saw and New Flange Complete Juice Saw to be Fitted to Old Flange Julep Templet by Mail Junta Summer Jauty Hanson
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DIAMETER OF FLANGES

Kalan 16 inches Kalpa 18 inches Kambu 20 inches	Kapok 21½ inches Karat 22 inches Kedge 24 inches	Keech 25 inches Kelis 26 inches Ketch 27 inches	Ketol28 inches Killa30 inches
	FEI	ED	
Keyel 1 inch Keyed 1½ inch Kiack 2 inches Kieve 2½ inches	Kilts. 3 inches Kinch. 3½ inches Kirle. 4 inches Kitar. 4½ inches	Kithe. 5 inches Kitty 6 inches Kiver 7 inches Klang 8 inches	Kloof. 9 inches Knack 10 inches Knave 11 inches Knell 12 inches

KIND OF DRESS

Knick	Spring Set	Knoll	Spread or Swage Set

THE ATKINS TELEGRAPHIC CODE—Continued

KIND OF TIMBER

Knowl Softwood Kokil Hickory Krore Knowl Norway Pine Kotow Hemlock Kukri Kukri		od Kokil Hickory	Kreel Fir Krore
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LENGTHS, FEET

Talls I feet	Lemma 19 feet	Linch45 feet	Logan71 feet	Lulla 97 feet
Lakin I foot	Lends20 feet	Linen 46 feet	Logic	Lummy 98 feet
Lamba 2 feet		Lingo47 feet	Lokao73 feet	Lumps 99 feet
Lanky 3 feet		Lippy48 feet	Lolly74 feet	Lunar 100 feet
Lapis 3½ feet		Lisps 49 feet	Looby75 feet	Lunch 105 feet
Larch 4 feet	Lepra23 feet		Looer76 feet	Lunda 110 feet
Lardy 4½ feet	Lerry 24 feet		Loony77 feet	Lunet 115 feet
Larix 5 feet	Leste25 feet			Lunge 120 feet
Laser 5½ feet	Letch 26 feet	Lithe 52 feet		Lupin 125 feet
Lasso 6 feet	Leton27 feet	Litui53 feet		
Lates 6½ feet	Leuch28 feet	Lived 54 feet	Loral80 feet	
Lause 7 feet	Leute29 feet	Livar55 feet	Lorer81 feet	
Lavic 71/2 feet	Leafy30 feet	Livid 56 feet	Loris82 feet	Lures 140 feet
Lawny 8 feet	Levee31 feet	Loach57 feet	Lorry 83 feet	Lurks 145 feet
Lazar 8½ feet	Levin32 feet	Loans58 feet	Lorum 84 feet	Lusty 150 feet
Leach 9 feet	Lewan 33 feet	Loath59 feet	Loser85 feet	Lutes 200 feet
Leaky 9½ feet	Lewth34 feet	Lobar60 feet	Lotah86 feet	Lyart 300 feet
Learn10 feet	Libel35 feet	Lobby 61 feet	Loter87 feet	Lycee 400 feet
Lease 10½ feet	Lichi36 feet	Lobed 62 feet	Lothe88 feet	Lycin 500 feet
Leddy11 feet	Licit37 feet	Lobus63 feet	Loupe89 feet	Lyden 600 feet
	Lifen38 feet	Local64 feet	Loves90 feet	Lymph 700 feet
	Ligan 39 feet	Locks65 feet	Lowan 91 feet	Lynch 800 feet
	Likes40 feet	Locus 66 feet	Lowly92 feet	Lynde 900 feet
Leful14 feet		Lodge67 feet	Lozel 93 feet	Lyric1000 feet
Legal15 feet		Section 1 and 1 an	Lucid 94 feet	
Leger16 feet	Limbo42 feet		Lucky95 feet	
Leggy17 feet	Limes43 feet		Lucre96 feet	
Leman18 feet	Limps44 feet	Lofty70 feet	Lucre90 reet	

LENGTHS, INCHES

Lallo 1 inch Lalba 2 inches Laply 3 inches Lapbo 4 inches Lapne 5 inches Lappy 6 inches	Lamus 10 inches Laped 11 inches	Lapel. 13 inches Larby. 14 inches Lebny. 15 inches Lebla. 16 inches Lebes. 17 inches Libna. 18 inches	Liper 19 inches Lipal 20 inches Listy 21 inches Limba 22 inches Limky 23 inches Limpo 24 inches
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FRACTIONS

Maaba	Made 36 inch	Madam% inch	Madpa
-------	--------------	-------------	-------

WIDTH

Mahoe1	Marum 5	Medal14	Mirth30	Moton
Maize	Marry 53			Motto47
	Mairy			Mound
Major	Masha 51			Mourn 49
Makwa	Mason 53			Mouse50
Malty2	Massy 6	Merge		
Malwa	Matai 61		Monad35	
	Mates 7		Monte	Mucin
Mammy			Moody37	Mucus 53
Manas	Matsu 73			Muggy54
Maneh3	Matte 8	Metif22	Moose	
Mango	Maund 83	6 Metra23	Mopus39	Mulse55
Mania	Mauve 9		Moral40	Mumps56
				Mural57
Manse	Mawky 93	(140 H)	Morse42	Murex58
Manor4				
Manta	Mazer 11	Mince27		
Marge4½	Meach	Minor	Mossy	Music60
March 43/	Mealy13	Minus 29	Mothy	

THE ATKINS TELEGRAPHIC CODE—Continued

QUANTITY

Paard 1	Party 30	Peggy	175	Physy 1,800	TH. 1 10 1
Pacer 2	Pasan		200	Piaga 1,900	Plebs 10 dozen
Pacha 3	Pasch 32		225	Piano 2,000	Pleon 11 dozen
Padat 4	Pasha		250		Pluck 12 dozen
Paddy 5	Paspy 34	Pelma	275	Picot 2,500	Plume 14 dozen
Pagan6	Passe		300	Picra 3,000	Plyer 16 dozen
Pages 7	Pasty	Dance		Piend 3,500	Poach 18 dozen
Pagle 8		Pence	325	Pilar 4,000	Poddy 20 dozen
Paint 9			350	Piles 4,500	Poise 25 dozen
		Peony	375	Pilot 5,000	Poker 30 dozen
Palas10	Patio 39		400	Pilum 5,500	Polar 35 dozen
Palet	Patly 40		450	Pimel 6,000	Polly 40 dozen
Palla	Patno 41		500	Pinax 6,500	Pombe 45 dozen
Palms	Pause 42		550	Pinch 7,000	Pongo 50 dozen
Palpi	Pavas 43		600	Piney 7,500	Popit 60 dozen
Palsy15	Pavon 44		650	Pinky 8,000	Poppy, 70 dozen
Panee	Pawed 45		700	Pinna 8,500	Porro 75 dozen
Pandy 17	Payer 46		750	Pinto 9,000	Posca 80 dozen
Paned	Peach 47	Petit 8	300	Pipal 9,500	Possee 90 dozen
Pangs19	Pearl 48	Petty 8	350	Pipet10,000	Pouch100 dozen
Panic20	Pease 49		000	Pique 1 dozen	Prank 150 dozen
Pants	Peaty 50		950	Pirol2 dozen	Prays200 dozen
Paper	Pecan	Pheer 1,0	000	Pirry3 dozen	Press250 dozen
Pappy 23	Pecul 70	Pheno1,1	001	Pisky 4 dozen	Pride 300 dozen
Parch24	Pedal	Phial 1.2	200	Plaga 5 dozen	Prime 350 dozen
Parel25	Pedes 80	Phoca1,3		Plaid6 dozen	
Parka26	Pedro	Phone1.4		Plash7 dozen	
Parle27	Pedum100	Photo1,5	00	Plaza8 dozen	
Parry28	Peeps	Phren 1,6	00	Plead 9 dozen	Probe500 dozen
Parst	Peerv	Phyla1,7		ricad 9 dozen	Proem750 dozen
		A Marie	00		

CROSS CUT SAWS

ProsyPacific Coast pattern cut to ends	PsalmSpecial Steel
	Puffy Segment Ground

STYLES OF TEETH

RabgoNo. 1 Rex	Rarry No. 277 Moss Back	Redif No. 331 Tuttle
RabnyNo. 2 Rex	RaterNo. 78 Moss Back	RedlyNo. 332 Tuttle
Radad No. 3 Peerless	Ratob No. 278 Moss Back	
Rapod No. 4 Perfection	RazorNo. 72 Moss Back	Reina No. 333 American
RacheNo. 5 Perfection		Relax No. 334 American
	RazsyNo. 272 Moss Back	Relet No. 337 Common
RabatNo. 21 Diamond	RavelNo. 73 Moss Back	Relic No. 338 Common
RabolNo. 22 Diamond	Ravob No. 273 Moss Back	Renne No. 336 Feather Edge
Rabbi No. 18 Dexter	Razno No. 76 Moss Back	RepelNo. 335 Hickory
Rabif No. 19 Dexter	Razpa No. 276 Moss Back	RipenNo. 11 Rex Falling
Rably No. 20 Dexter	React No. 225 Victor	RiselNo. 12 Perfection Falling
Radix No. 6 Hemlock King	Reaks No. 227 Lance	RintyNo. 518
RainyNo. 218 Dexter	Realm No. 221 Diamond	Rinst No. 540
Rally No. 219 Dexter	Rebel No. 222 Diamond	RickyNo. 550
Rampe No. 220 Dexter	RebusNo. 223 Lone Star	Rench No. 553
Basne No. 77 Moss Back	Redan No. 330 Tuttle	10001 110. 933

HOLLOW BACK SAWS

Regal. No. 383 Hollow Back Improved Universal Regop No. 379 Hollow Back Tuttle Regby No. 380 Hollow Back Tuttle Relly No. 381 Hollow Back Tuttle	Risky
Belpo No 384 Hollow Back Diamond	1022d140. 300 Honow Dack Victor

ONE-MAN SAWS

RitheNo. 389 One-Man Cedar King	Rocta No. 391 One-Man Diamond
RoachNo. 390 One-Man Tuttle	Rocky No. 392 One-Man Victor
RoamsNo. 393 One-Man American	Rocob No. 394 One-Man Victor
RobinNo. 395 One-Man American	Roddy One-Man Saws, Silver Steel
RobegNo. 741 One-Man Tamarack	Romac No. 654 One-Man

PACIFIC COAST PATTERNS

RoodyNo. 51 RowdyNo. 52 RumlyNo. 251	Rusty No. 556 Perfection	RabbyNo. 68 Eureka RacnoNo. 69 Eureka Falling RuachNo. 361 Lance
Rupgo No. 252	Buled No. 362 Tuttle	Transcription of Little

THE ATKINS TELEGRAPHIC CODE—Continued

AUSTRALASIAN PATTERNS

Rudey No. 7 Auckland	Rutga No. 48 Auckland	Rumal No. 241 Tasmanian
RuffyNo. 46 Auckland	Ruing No. 10 Auckland	Rumpy No. 41 Tasmanian
RudgyNo. 8 Auckland	Runas No. 49 Auckland	Rupco No. 242 Jarrah
Rugso No. 47 Auckland	Ruche No. 15 Auckland	Rusly No. 42 Jarrah
RustyNo. 9 Auckland	RuccaNo. 50 Auckland	RummyRussian

CROSS CUT SAW HANDLES

Saber	Salse	Satin
Sable No. 2 pattern	SaltyNo. 13 pattern	Sauce
Sabot	Sambo	Savey
Sacar	Sanat	Savor
Sadly	Sandy	Saxon
SaffoNo. 6 pattern	Sangu	Sebol
Saiga	Sapor	Sogon
Sairy	Sargo No. 18 pattern	SokolNo. 29 pattern
Salad	Sarre	Sogud
Salin	Sasin	Sofin
Colon No 11 mettons		

HAND SAWS

	THE STATE	
Secco, No. 50 Sedge. No. 50 Seely. No. 51 Sedan. No. 51 Segue. No. 52 Siety. No. 53 Seize. No. 53 Seize. No. 53 Sendo. No. 54 Serve. No. 54 Ship point	Sepia No. 56 Serge No. 57 Serin No. 58 Serry No. 59 Sessa No. 60 Sewer No. 62 Shail No. 64 Shale No. 64 Shaky No. 65	Shaft No. 65 Ship point Shiel No. 72 Ship point Shout No. 32 Shute No. 93 Shoot No. 400 Skew back Shore No. 400 Skew back, ship point Shred No. 400 Straight back Shrug No. 400 Straight back Shrug No. 590 Docking
Shurf 28-inch Rip Saw Silor 26-inch Rip Saw Siege 26-inch Hand Saw Silky 28-inch Hand Saw	Singe 24-inch Panel Saw Sipid 22-inch Panel Saw Sipol Silver Steel Siren 20-inch Panel Saw	Sirup

POINTS TO THE INCH

Skirt	Slime
Slave 4 points to inch (3 teeth to the inch)	Slued 9 points to inch (8 teeth to the inch)
Sleds	Slump

CROSS CUT AND HAND SAW TOOLS

SayonExcelsior No. 1	Scaup Double Raker Gauges	Sebum Atkins Saw Filer
Scala, Excelsior No. 2	Scene Improved Criterion Saw Set	SebtyNo. 4 Saw Set
Skido Excelsior No. 5	Scion, Criterion Band Saw Set	Sebgo No. 5 Saw Set
Scalp Perfection	Scoff Hammer for Setting Saws	SentyNo. 1 AAA Clamp
ScampRex	SculpRaker Swage	Senso, No. 2 AAA Clamp
ScantDexter	ScurfPerfect Saw Set	Seine No. 9 Cross Cut Tools
Scars, Single Raker Gauges	Seary Perfect Saw Set and Vise	Shale No. 13 Cross Cut Tools

CENTS

Watley\$0.01	Warot\$0.26	Wesit\$0.51	Wondo\$0.76
Wadlo	Waspy	Wesdo	Wonso
Waber	Wasgo	Wesky	Wonty
Wably	Waxor	Whade	Wopab
Wadam	Waxol	Whady	Wopel
Wadoo	Waxin	Whole	Wopfy
Wadby	Webel	Widmy	Wopia
Wadky	Webon	Widar	Wrant
Wafbu	Webly	Widuk	Wrink
Wafby	Webia	Widan	Wroby
Wagba	Weber	Wilus	Wunat
Wagno	Wecma	Wilde	Wunor
Wagbu,	Wedin	Wilze	Wungo
Wagso	Wedal	Wilit	Wurra
Walfu	Wedme	Winty	Wurte
Walbo	Wedly	Winal	Wutly
Walit	Welky	Winke	Wutbo
Walus	Welet	Witty	Wutse
Wamky	Welan	Witon	Wutky
Wamut	Welba	Witgy	Wutne
Wamma	Wenso	Wobey	Wuyer
Wamfy	Wenic	Wobal	Wuymo
Waney	Wenny	Wobby	Wuyly
Wapga	Werry	Wobjo	Wuyin
Waper 95	Wordy 50	Wobie 75	

THE ATKINS TELEGRAPHIC CODE—Continued

	DOLLARS	3	Gontingen	
Tabes 2.00 Tawny Taboo 3.00 Taxis Tabut 4.00 Tazel Tache 5.00 Teach Tacit 6.00 Teals Tacky 7.00 Tease Taffy 8.00 Tecum Tagma 9.00 Teens Taint 10.00 Telar Talen 11.00 Telar Talky 12.00 Tense Talou 13.00 Tendo Talus 14.00 Tendo Tambo 15.00 Tenet Tamus 17.00 Tenor Tamus 17.00 Tenor Tangy 18.00 Teria Tapis 20.00 Terma Tardy 21.00 Terza Taree 22.00 Testa Tarse 23.00 Teyne	\$26.00 Thole 27.00 Thyn 27.00 Thyn 28.00 Tibia 29.00 Tidal 30.00 Tiddy 31.00 Tiler 32.00 Tincs 33.00 Tincs 34.00 Tincs 35.00 Tincs 35.00 Tinty 36.00 Title 37.00 Toast 38.00 Toke 39.00 Tonal 40.00 Tong 41.00 Tong 42.00 Topia 42.00 Topia 43.00 Tores 44.00 Toruc 45.00 Toter 46.00 Toter 46.00 Toter 47.00 Toucl 48.00 Toucl	1	52,00 Track 53,00 Traik 54,00 Traik 54,00 Trash 55,00 Trash 56,00 Trash 57,00 Tread 58,00 Tribe 60,00 Tribe 60,00 Trick 61,00 Trits 62,00 Trist 63,00 Troll 64,00 Trout 65,00 Truss 66,00 Truss 67,00 Tury 70,00 Tury 70,00 Tury 70,00 Tury 70,00 Turba	77.00 78.00 78.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00 89.00 99.00 91.00 92.00 94.00 95.00 96.00 97.00
Taste. 24.00 Theak. Tauga. 25.00 Thein.	50.00 Toyor	1,	74.00 Twill	. 99.00 . 100.00
	ATKINS SPECIA	ALTIES		
Vabar No. 7 Kwik-Kut Vabes No. 18 Kwik-Kut Motor Dri Vabet No. 18 Kwik-Kut Vaby No. 14 Kwik-Kut Vabut No. 12 Kwik-Kut Vebal No. 00 Ideal Swage Vebor No. 0 Ideal Swage Vecac No. 1 Ideal Swage	VecesNo. 2 Ideal Sw	age age	Vidab Pribnow Shapers Villa Pribnow Swages Vobby Hamlet Dimensic Vocar AAA Saw Guard Vodan AAA Car Mover Vodor Rogers Belt Pun Vogab Atkins Load Bin	n Gauge
	TKINS HACKSAV			
Yemek No. 2000 Yemil. No. 205 Yemja. No. 210 Yemke No. 215 Yempy No. 305 Yempy No. 305 Yemse No. 315 Yenel No. 320 Yenka No. 320	Yenle Yenno Yenon Yenup Yeoxy Yepal Yepem Yepla Yepla Yepme Yepop Yepop	No. 400 Y No. 402 Y No. 405 Y No. 409 Y No. 410 Y No. 415 Y No. 420 Y No. 422 Y No. 423 Y No. 425 Y	epry. epry. epry. eran eran erep eran eror eror eror erpe erro erty erus	No. 436 No. 437 No. 438 No. 439 No. 440 No. 441 No. 445 No. 447
	HACKSAW FR	AMES		
Yeryt. No. 1 Yesap. No. 2 Yesir. No. 3 Yesos. No. 4 Yespa. No. 5	Yesso	No. 7 Y No. 8 Y No. 9 Y No. 10 Y No. 1 Rail Y	ctuv No 'etwy N evar N 'evit N evoy N	o. 3 Rail o. 4 Rail o. 5 Rail
	CIRCULAR META	L SAWS		
YevraHigley YevseCochrane Bly YevvoNewton YevyxBurr YewasBurke YewetLea Simplex	Yewiy Espen Lucas Yewsa Knowlton Yewte . Q. & C. Yewux . Bryant Yeyat Pipe Saws Yeybd Copper Slitters Yeyof Nutter & Barnes	Yey Yey Yey Yye Yey	ev Highspeed Slitting hk Semi-Highspeed Slitting jl Commutator Slotting ln Screw Slotting mp Friction Discs oy	g
	TAL CUTTING B			
	o. 3 BAND SAW	MACHINE		
CURRENT SPECI				
Yezix		110 Y	ezvaezwe	550
CURREN			CYCLE	
YezzoYiagh	Alternating	Yiahi		
YialmSingle		Two Y	ianp	Three

NUMERICAL CODE

EXPLANATION—There are 1,000 words listed herewith. Each word is numbered consecutively from 1 to 1,000 and each word begins with the letter "M." So that if you have occasion to use any number less than 1,000, you have merely to use the code word opposite that number. If you wish to use a number above 1,000, use the same word except change the initial letter as follows. This may be used for all numbers not designating quantities or values:

```
For numbers from 1001 to 2000 inclusive use the initial N instead of M.
For numbers from 2001 to 3000 inclusive use the initial P instead of M.
For numbers from 3001 to 4000 inclusive use the initial R instead of M.
For numbers from 4001 to 5000 inclusive use the initial S instead of M.
For numbers from 5001 to 6000 inclusive use the initial T instead of M.
For numbers from 6001 to 7000 inclusive use the initial V instead of M. For numbers from 7001 to 8000 inclusive use the initial W instead of M.
For numbers from 8001 to 9000 inclusive use the initial Y instead of M.
For numbers from 9001 to 10000 inclusive use the initial Z instead of M.
```

This, you see, enables you to use any number between 1 and 10,000, which is as high a figure as you will likely have occasion to use.

FOR EXAMPLE

For No. 1001 the word would be Nabab.	For No. 5561 the word would be Tajip.
For No. 2100 the word would be Pabuy.	For No. 6650 the word would be Vakgy.
For No. 3168 the word would be Radkf.	For No. 7795 the word would be Wamug.
For No. 4441 the word would be Sahft.	For No. 8905 the word would be Yaqag.
For No. 9999 the wo	

		101 1101 222		are and ministerior		
1 Mabab	58 Mabik	115 Madas	172 Madma	229 Mafdi	286 Mafox	343 Magfr
2 Mabac	59 Mabim	116 Madat	173 Madmn	230 Mafdo	287 Mafpa	344 Magft
3 Mabad	60 Mabin	117 Madau	174 Madmu	231 Mafds	288 Mafra	345 Magfu
4 Mabaf	61 Mabip	118 Maday	175 Madng	232 Mafed	289 Mafrm	346 Magfy
5 Mabag	62 Mabig	119 Madaw	176 Madns	233 Mafej	290 Mafrn	347 Maggm
6 Mabah	63 Mabis	120 Madax	177 Madnu	234 Mafek	291 Mafru	348 Maggn
7 Mabaj	64 Mabit	121 Maday	178 Madnx	235 Mafen	292 Mafsa	349 Maggu
8 Mabak	65 Mabiu	122 Madaz	179 Madog	236 Mafeq	293 Mafue	350 Maggy
9 Mabal	66 Mabiw	123 Madca	180 Madom	237 Mafer	294 Mafud	351 Magia
10 Mabam	67 Mabix	124 Madee	181 Madon	238 Mafes	295 Mafug	352 Magib
11 Maban	68 Mabkf	125 Madck	182 Madop	239 Mafew	296 Mafun	353 Magid
12 Mabap	69 Mabko	126 Madem	183 Mador	240 Mafex	297 Mafur	354 Magif
13 Mabaq	70 Mabku	127 Mades	184 Mados	241 Maffa	298 Mafus	355 Magig
14 Mabar	71 Mabky	128 Madeu	185 Madou	242 Maffn	299 Mafux	356 Magih
15 Mabas	72 Mabma	129 Maddi	186 Madox	243 Maffr	300 Mafuy	357 Magij
16 Mabat	73 Mabma	130 Maddo	187 Madpa	244 Mafft	301 Magab	358 Magik
17 Mabau	74 Mabmu	131 Madds	188 Madra	245 Maffu	302 Magac	359 Magim
	75 Mabng	132 Maded	189 Madrm	246 Maffy	303 Magad	360 Magin
18 Mabay 19 Mabaw	76 Mabns	133 Madei	190 Madrn	247 Mafgm	304 Magaf	361 Magip
		134 Madek	191 Madru	248 Mafgn	305 Magag	362 Magiq
20 Mabax 21 Mabay		135 Maden	192 Madsa	249 Mafgu	306 Magah	363 Magis
		136 Madeq	193 Maduc	250 Mafgy	307 Magaj	364 Magit
22 Mabaz	79 Mabog			251 Mafia	308 Magak	365 Magiu
23 Mabca	80 Mabom	137 Mader		252 Mafib	309 Magal	366 Magiw
24 Mabce	81 Mabon	138 Mades	195 Madug		310 Magam	367 Magix
25 Mabek	82 Mabop	139 Madew	196 Madun			368 Magkf
26 Mabem	83 Mabor	140 Madex	197 Madur	254 Mafif	311 Magan	369 Magko
27 Mabes	84 Mabos	141 Madfa	198 Madus	255 Mafig	312 Magap	370 Magku
28 Mabcu	85 Mahou	142 Madfn	199 Madux	256 Mafih	313 Magaq	371 Magky
29 Mabdi	86 Mabox	143 Madfr	200 Maduy	257 Mafij	314 Magar	
30 Mabdo	87 Mabpa	144 Madft	201 Mafab	258 Mafik	315 Magas	
31 Mabds	88 Mabra	145 Madfu	202 Mafac	259 Mafim	316 Magat	
32 Mabed	89 Mabrm	146 Madfy	203 Mafad	260 Mafin	317 Magau	374 Magmu
33 Mabej	90 Mabrn	147 Madgm	204 Mafaf	261 Mafip	318 Magav	375 Magng
34 Mabek	91 Mabru	148 Madgn	205 Mafag	262 Mafiq	319 Magaw	376 Magns
35 Maben	92 Mabsa	149 Madgu	206 Mafah	263 Mafis	320 Magax	377 Magnu
36 Mabeq	93 Mabuc	150 Madgy	207 Mafaj	264 Mafit	321 Magay	378 Magnx
37 Maber	94 Mabud	151 Madia	208 Mafak	265 Mafiu	322 Magaz	379 Magog
38 Mabes	95 Mabug	152 Madib	209 Mafal	266 Mafiw	323 Magca	380 Magom
39 Mabew	96 Mabun	153 Madid	210 Mafam	267 Mafix	324 Magce	381 Magon
40 Mabex	97 Mabur	154 Madif	211 Mafan	268 Mafkf	325 Magek	382 Magop
41 Mabfa	98 Mabus	155 Madig	212 Mafap	269 Mafko	326 Magem	383 Magor
42 Mabfn	99 Mabux	156 Madih	213 Mafaq	270 Mafku	327 Mages	384 Magos
43 Mabfr	100 Mahuy	157 Madij	214 Mafar	271 Mafky	328 Magcu	385 Magou
44 Mabft	101 Madad	158 Madik	215 Mafas	272 Mafma	329 Magdi	386 Magox
45 Mabfu	102 Madac	159 Madim	216 Mafat	273 Mafmn	330 Magdo	387 Magpa
46 Mabfy	103 Madad	160 Madin	217 Mafau	274 Mafmu	331 Magds	388 Magra
47 Mabgm	104 Madaf	161 Madip	218 Mafav	275 Mafng	332 Maged	389 Magrm
48 Mabgn	105 Madag	162 Madiq	219 Mafaw	276 Mafns	333 Magej	390 Magrn
49 Mabgu	106 Madah	163 Madis	220 Mafax	277 Mafnu	334 Magek	391 Magru
50 Mabgy	107 Madaj	164 Madit	221 Mafay	278 Mafnx	335 Magen	392 Magsa
51 Mabia	108 Madak	165 Madiu	222 Mafaz	279 Mafog	336 Mageq	393 Mague
52 Mabib	109 Madal	166 Madiw	223 Mafca	280 Mafom	337 Mager	394 Magud
53 Mabid	110 Madam	167 Madix	224 Mafce	281 Mafon	338 Mages	395 Magug
54 Mabif	111 Madan	168 Madkf	225 Mafek	282 Mafop	339 Magew	396 Magun
55 Mabig	112 Madap	169 Madko	226 Mafem	283 Mafor	340 Magex	397 Magur
56 Mabih	113 Madag	170 Madku	227 Mafes	284 Mafos	341 Magfa	398 Magus
57 Mabii	114 Madar	171 Madky	228 Mafcu	285 Mafou	342 Magfn	399 Magux
	Jan a grandada					ALL COMMUNICATION SPECIAL

NUMERICAL CODE—Continued

400 Maguy	486 Mahox	572 Majma	658 Makik	744 Mamft	830 Mando	916 Magat
400 Maguy		573 Majma				910 Maqat
401 Mahab	487 Mahpa			745 Mamfu	831 Mandu	917 Maqau
402 Mahac	488 Mahra	574 Majmu	660 Makin	746 Mamfy	832 Maned	918 Maqay
403 Mahad	489 Mahrm	575 Majng	661 Makip	747 Mamgm	833 Manei	919 Maqaw
404 Mahaf	490 Mahrn	576 Majns	662 Makiq	748 Mamgn	834 Manek	920 Magax
		577 Majnu	663 Makis		THE CONTROLL	
		577 Majnu				
406 Mahah	492 Mahsa	578 Majnx	664 Makit	750 Mamgy	836 Maneq	922 Magaz
407 Mahai	493 Mahue	579 Majog	665 Makiu	751 Mamia	837 Maner	923 Maqca
408 Mahak	494 Mahud	580 Majom	666 Makiw	752 Mamib	838 Manew	
409 Mahal	495 Mahug	581 Majon	667 Makix	753 Mamid	839 Manex	925 Maqek
410 Maham	496 Mahun	582 Majop	668 Makkf	754 Mamif	840 Manez	926 Maqcm
411 Mahan	497 Mahur	583 Majoq	669 Makko	755 Mamig	841 Manfa	927 Mages
	498 Mahus	584 Majos	670 Makku	756 Mamih		
				750 Mamin		
413 Mahaq	499 Mahux	585 Majou	671 Makky	757 Mamij	843 Manfr	929 Maqdi
414 Mahar	500 Mahuy	586 Majox	672 Makma	758 Mamik	844 Manft	930 Maqdo
415 Mahas	501 Majab	587 Majpa	673 Makmn	759 Mamim	845 Manfu	931 Maqdu
			674 Makmu		946 Monfy	
416 Mahat		588 Majra			846 Manfy	932 Maged
417 Mahau	503 Majad	589 Majrm	675 Makng	761 Mamio	847 Mangm	933 Maqej
418 Mahay	504 Majaf	590 Majrn	676 Makns	762 Mamip	848 Mangn	934 Magek
419 Mahaw	505 Majag	591 Majru	677 Maknu	763 Mamiq	849 Mangu	935 Magen
420 Mahax	506 Majah	592 Majsa	678 Maknx	764 Mamit	850 Mangy	936 Maqeq
421 Mahay	507 Majaj	593 Majue	679 Makog	765 Mamju	851 Mania	937 Mager
422 Mahaz	508 Majak	594 Majud	680 Makom	766 Mamiw	852 Manib	938 Mages
423 Mahca	509 Majal	595 Majug	681 Makon	767 Mamix	853 Manid	939 Magew
124 Makes				768 Mamkf		
424 Mahce	510 Majam	596 Majun				940 Magex
425 Mahck	511 Majan	597 Majur	683 Makor	769 Mamko	855 Manig	941 Maqfa
426 Mahem	512 Majap	598 Majus	684 Makos	770 Mamku	856 Manih	942 Maqfn
427 Mahes		599 Majux	685 Makou	771 Mamky	857 Manij	
				771 Mamky		
428 Mahcu	514 Majar	600 Majuy	686 Makox	772 Mammf	858 Manik	944 Maqft
429 Mahdi	515 Majas	601 Makab	687 Makpa	773 Mammn	859 Manim	945 Maqfu
430 Mahdo	516 Majat	602 Makac	688 Makra	774 Mammu	860 Manin	946 Magfy
131 Malala			689 Makrm	775 Manna		
431 Mahdu	517 Majau			775 Mamng 776 Mamns	861 Manip	
432 Mahed	518 Majav	604 Makag	690 Makrn	776 Mamns	862 Maniq	948 Maqgn
433 Mahej	519 Majaw	605 Makah	691 Makru	777 Mamnu	863 Manis	949 Maggu
434 Mahek	520 Majax	606 Makaj	692 Maksa	778 Mamnx	864 Manit	
	FOI Majax					
435 Mahen	521 Majay				865 Maniu	951 Maqia
436 Maheq	522 Majaz	608 Makal	694 Makud	780 Mamom	866 Maniw	952 Maqib
437 Maher	523 Majca	609 Makam	695 Makug	781 Mamon	867 Manix	953 Maqid
438 Mahes	524 Majce	610 Makan	696 Makun	782 Mamop	868 Mankf	954 Magif
				702 Mamop		954 Maqif
439 Mahew	525 Majek	611 Makap	697 Makur	783 Mamor	869 Manko	955 Maqig
440 Mahex	526 Majcm	612 Makaq	698 Makus	784 Mamos	870 Manku	956 Maqih
441 Mahfa	527 Majes	613 Makar	699 Makux	785 Mamou	871 Manky	957 Maqij
442 Mahfn		614 Makas	700 Makuy	786 Mamox	872 Manma	
443 Mahfr	529 Majdi	615 Makat	701 Mamab	787 Mampa	873 Manmn	959 Maqim
444 Mahft	530 Majdo	616 Makau	702 Mamac	788 Mamra	874 Manmu	960 Magin
445 Mahfu	531 Majds	617 Makay	703 Mamad	789 Mamrm	875 Manng	961 Maqip
446 Mahfy		618 Makaw	704 Mamaf			
					876 Manns	962 Maqiq
447 Mahgm	533 Majej	619 Makax	705 Mamag	791 Mamru	877 Mannu	963 Maqis
448 Mahgn	534 Majek	620 Makay	706 Mamah	792 Mamsa	878 Mannx	964 Magit
449 Mahgu	535 Majen	621 Makaz	707 Mamaj	793 Mamuc	879 Manog	965 Magiu
450 Mahgy	536 Majeq	622 Makca	708 Mamak	794 Mamud	880 Manom	
		622 Makea				
451 Mahia	537 Majer	623 Makee	709 Mamal	795 Mamug	881 Manon	967 Maqix
452 Mahih	538 Majes	624 Makef	710 Mamam	796 Mamun	882 Manop	968 Maqkf
453 Mahid	539 Majew	625 Makek	711 Maman	797 Mamur	883 Manor	969 Magko
454 Mahif	540 Majex	626 Makem	712 Mamap	798 Mamus	884 Manos	970 Maqku
				700 Mainus		910 Maqku
455 Mahig	541 Majfa	627 Makes	713 Mamaq	799 Mamux	885 Manou	971 Maqky
456 Mahih	542 Majfn	628 Makeu	714 Mamar	800 Mamuy	886 Manox	972 Maqma
457 Mahij	543 Majfr	629 Makdi	715 Mamas	801 Manab	887 Manpa	973 Maqmn
458 Mahik		630 Makdo	716 Mamau	802 Manac	888 Manra	
459 Mahim	545 Majfu	631 Makds				975 Maqng
460 Mahin	546 Majfy	632 Makeb	718 Mamaw	804 Manaf	890 Manra	976 Maqnu
461 Mahip	547 Majgm	633 Makej	719 Mamax	805 Manag	891 Manru	977 Magnx
462 Mahiq	548 Majgn	634 Makek	720 Mamay	806 Manah	892 Mansa	978 Maqog
						070 Maqog
463 Mahis	549 Majgu				893 Manue	979 Maqom
464 Mahit	550 Majgy	636 Makeq	722 Mamca	808 Manak	894 Manud	980 Maqon
465 Mahiu	551 Majia	637 Maker	723 Mamce	809 Manal	895 Manug	981 Magop
466 Mahiw	552 Majib	638 Makeu	724 Mamef	810 Manam	896 Manun	
	552 Majid					982 Magor
	553 Majid		725 Mamck	811 Manan		983 Magos
468 Mahkf	554 Majif	640 Makex	726 Mamem	812 Manap	898 Manus	984 Maqou
469 Mahko	555 Majig	641 Makfa	727 Mames	813 Manaq	899 Manux	985 Magox
470 Mahku	556 Majih	642 Makfh	728 Mamcu	814 Manar	900 Manuy	
	557 Maiii					
471 Mahky	557 Majij	643 Makfr	729 Mamdi	815 Manas	901 Maqab	987 Magra
472 Mahma	558 Majik	644 Makft	730 Mamdo	816 Manat	902 Magac	988 Magrm
473 Mahmn	559 Majim	645 Makfu	731 Mamds	817 Manau	903 Maqad	989 Maqrn
474 Mahmu	560 Majin	646 Makfy	732 Mameb	818 Manay	904 Magaf	
475 Mahng	561 Majip	647 Makgm	733 Mamej	819 Manaw	905 Maqag	991 Magry
476 Mahns	562 Majiq	648 Makgn	734 Mamek	820 Manax	906 Maqah	992 Magsa
477 Mahnu	563 Majis	649 Makgu	735 Mamen	821 Manay	907 Maqaj	993 Magsy
478 Mahnx	564 Majit	650 Makgy	736 Mameq	822 Manaz	908 Maqak	
					000 Mayak	
479 Mahog	565 Majiu	651 Makia	737 Mamer	823 Manca	909 Magal	995 Maqud
480 Mahom	566 Majiw	652 Makib	738 Mameu	824 Mance	910 Maqam	996 Maqug
481 Mahon	567 Majix	653 Makid	739 Mamew	825 Manck	911 Magan	997 Maqun
482 Mahop	568 Majkf	654 Makif	740 Mamex	826 Manem	912 Magap	998 Magur
483 Mahor						
		655 Makig				
484 Mahos	570 Makju	656 Makih	742 Mamfn	828 Mancu	914 Magar	1000 Maquy
485 Mahou	571 Makjy	657 Makij	743 Mamfr	829 Mandi	915 Magas	

MILLIMETERS TO INCHES

NOTE-Fractions are not exact, but are given to the nearest 34 inch.

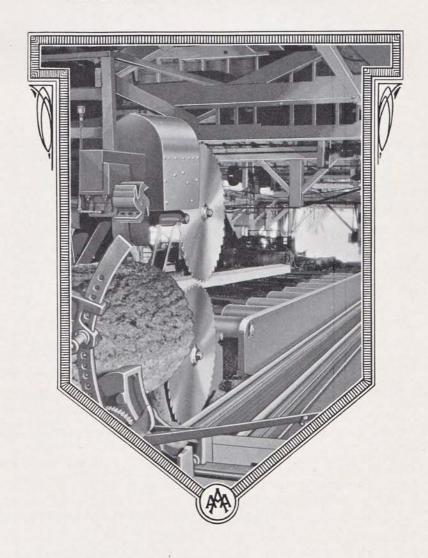
MW	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction
$\begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 3\\ 14\\ 15\\ 6\\ 7\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 2\\ 2\\ 2\\ 2\\ 3\\ 3\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$.0394 .0787 .1181 .1575 .1969 .2366 .3150 .3543 .3937 .4331 .4724 .5118 .5512 .5906 .6299 .6693 .7087 .7480 .10236 .10630 .11024 .1111 .1205 .1205 .13386 .1417 .1311 .1216 .13780 .1417	아 () 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 110 110 111 112 113 114 115 116 117 118 119 120 121 121 122 123 124 125 126 127 138 131 131 131 131 132 131 133 134 135 136 137 138 139 140 150 150 150 150 150 150 150 15	3.3071 3.3465 3.3859 3.4252 3.4646 3.5040 3.5040 3.5040 3.5040 3.5040 3.6221 3.6614 3.7008 3.8189 3.8583 3.7402 3.7708 4.0158 4.0158 4.1339 4.43308 4.0158 4.0552 4.1339 4.42520 4.6063 4.2520 4.6063 4.4520 4.6063 4.4520 4.6063 4.5070 6.6063 4.7245 6.788 6.787	社会災害は、者会災害は経済者を経過できませんが、経過できませんである。社会工作を表するのであることをあることをあることをあることをあることをあることをあることをある。	167 168 169 170 171 172 173 174 175 176 176 181 181 181 181 181 181 181 181 181 18	6.5749 6.6142 6.6536 6.6930 6.7323 6.7717 6.8111 6.8505 6.8398 6.9292 6.8398 6.9292 6.8398 6.9292 7.1054 7.1260 7.	1985年 19	314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 329 330 331	9.8426 9.8820 9.9213 9.9607 10.0001 10.0395 10.0788 10.1182 10.1576 10.1969 10.2363 10.2757 10.3514 10.3351 10.35513 10.4332 10.4725 10.4725 10.6300 10.6694 10.5119 10.5513 11.5513	9、9344 - 表面环壳器建筑设置器建筑线路线路线路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路路	333 334 335 337 341 342 343 344 343 344 343 344 343 344 343 344 343 344 343 344 345 352 353 364 365 367 368 367 377 373 374 375 377 377 380 377 377 380 381 381 381 381 381 381 381 381	13.1103 13.1497 13.1891 13.1285 13.2678 13.2678 13.3466 13.3459 13.4253 13.4647 13.53434 13.59436 13.5434 13.59436 13.513,5902 13.7403 13.7403 13.7403 13.7796 13.8190 13.7796 13.8190 14.1733 14.2127 14.0552 14.0946 14.1339 14.1733 14.2127 14.5561 14.059 14.1733 14.2520 14.2914 14.9946 14.4883 14.47245 14.7639 14.4883 14.4921 14.4908 14.4883 14.4968 15.51969 15.1742 15.5573 15.3515 15.0739 15.1742 15.5573 15.3515 15.3593 15.1742 15.5573 15.3515 15.3593 15.4742 15.5573 15.5593 15.5782 15.5782 15.5782 15.5793 15.5782 15.3782 15.378	下世界的影响。 33333355,2000000000000000000000000000000	416 417 418 419 420 421 422 423 424 425 426 427 430 431 432 434 435 436 437 444 445 446 447 448 445 446 447 448 446 447 448 449 440 441 441 442 443 444 445 446 447 448 447 448 448 449 449 440 441 441 442 443 444 444 445 446 447 448 447 448 448 449 440 440 441 441 442 443 444 445 446 447 447 448 449 440 440 440 440 440 440 440	16.3781 16.4175 16.4569 16.4569 16.4569 16.4569 16.65750 16.6143 16.5750 16.6143 16.6538 16.6538 16.6538 16.6538 16.6538 16.8999 16.928 17.0890 17.0474 17.0868 17.0474 17.0868 17.1261 17.1655 17.2442 17.2336 17.3624 17.3230 17.3624 17.1751 17.411 17.4805 17.5792 17.951 17.5756 17.57592 17.951 17.7576 18.3198 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1891 18.1991 18.3166 18.3403 18.1891 18.3403 18.1891 18.3403 18.1891 18.3403 18.3503 18.4404 18.5403 18.3503 18.4404 18.5403 18.3503 18.4404 18.5403	16 16 16 16 16 16 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17

MILLIMETERS TO INCHES

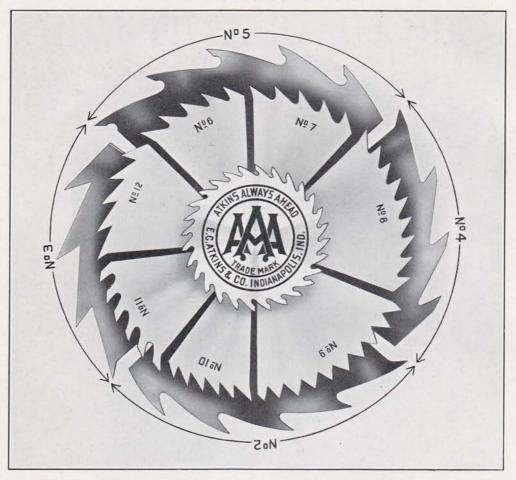
NOTE—Fractions are not exact, but are given to the nearest & inch.

MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction
546 547 548 549 550 551 552 553 555 555 556 557 558 566 567 568 566 567 577 578 577 578 577 578	19.6458 19.6458 19.6852 19.7246 19.8033 19.8127 19.8127 19.8127 19.821 19.9214 19.9214 19.9218 20.0395 20.1183 20.1577 20.1970 20.2564 20.2564 20.2564 20.2564 20.2564 20.3351 20.3353 20.3393 20.4322 20.5120 20.5508 20.6301 20.6605 20.5908 20.5908 20.5908 20.5908 20.6301 20.606 20.206 20.2	1999年	20 21 22 22 22 22 22 22 22 22 22 22 22 33 33	22.9530 22.9923 23.0317 23.1104 23.14199 23.1892 23.2855 23.2285 23.2285 23.3267 23.3860 23.3467 23.3860 23.5415 23.5435 23.5829 23.6222 23.6616 23.7404 23.7797 23.3872 23.3873 24.404 23.7797 24.1341 24.1234 24.2123 24.6563 224.0947 24.1341 24.1238 24.2522 24.0947 24.1341 24.2128 24.2915 24.3703 24.4407 22.4.4885 22.4.2915 24.46159 24.4685 22.4.2915 24.46159 22.4.8427 22.4.8427 22.2.8821 22.2.	。 1922年2月1日 - 1935年 -	692 693 693 695 697 697 698 699 700 707 703 704 707 707 707 707 707 707 707 707 707	26.2601 26.2994 26.3388 26.3782 26.4175 26.4569 26.4963 26.5357 26.5570 26.6144 26.3525 26.7719 26.8113 26.8900 26.8900 26.8900 26.8900 27.0475 27.0868 27.1262 27.1656 27.1265 27.1265 27.1265 27.1265 27.1265 27.1265 27.1265 27.1265 27.1261 28.1488 28.	22626666666666666666666666666666666666	754 755 756 757 768 769 770 771 778 80 771 772 773 774 775 776 777 778 780 771 772 773 780 771 772 773 780 771 772 773 780 771 772 773 780 771 772 773 780 771 772 773 780 771 772 773 774 775 775 776 777 778 778 779 779 779 779 779 779 779	29,9215 29,9609 30,0003 30,0396 30,1790 30,1184 30,1577 30,1275 30,2758 30,3546 30,3546 30,3546 30,4727 30,5121 30,5514 30,5014 30,6302 30,6302 30,6302 30,6302 30,7483 30,7483	2229995666	886 887 888 890 891 892 893 894 895 896 897 899 900 900 900 907 908 909 909 909 909 909 909 909 909 909	32.8743 32.9137 32.9530 32.9924 33.0318 33.0712 33.1499 33.31499 33.3467 33.3467 33.3467 33.3467 33.3546 33.3586 33.36617 33.7011 33.7011 33.7013 33.4699 33.5436 33.8979 33.46066 33.46066 34.6459 34.1735 34.2129 34.2523 34.2121 34.310 34.3704 34.48035 34.5279 34.5672 34.48035 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.51578 35.52655 35.52759 35.35466 35.3909 35.51578 35.52655 35.52759 35.5560 35.57991 35.57484 35.77484	###	979 980 981 982 983 984 985 986 987 988 989 990	37.6775 37.7169 37.71592 37.7956 37.8750 37.8750 37.8743 37.9137 37.9521 38.0318 38.0712 38.1106 38.1499 38.1893 38.2287 38.2680 38.3074 38.3682 38.3682 38.3682 38.3682 38.3683 38.4255 38.4255 38.4619	33666666666666666666666666666666666666

CIRCULAR AND MILL SAW DIVISION



ATKINS CIRCULAR SAWS



While we make an almost endless variety of shapes of teeth for circular saws, we show above only a few patterns which are in more general use.

No. 2 tooth is used on large and small solid saws and to a large extent on bolters. No. 3 tooth is an old pattern for ripping, but is not used to as large an extent as heretofore.

No. 4 tooth is used largely for export on both large and small saws. It is also a popular style for grooving saws where tooth space is one inch or over.

No. 5 tooth is extensively used on large circular rip saws.

No. 6 tooth is used principally for equalizer saws.

No. 7 is another pattern well adapted for equalizer saws, but is not in as general favor as No. 6.

No. 8 is also one used on cross cut and equalizers, 3-inch diameter and larger, also on half and half saws. It can be used for both ripping and cross cutting on saws $\frac{1}{2}$ space to $\frac{1}{4}$ space any diameter up to 20 inches.

No. 9 tooth is for slashers and may be placed on the arbor to run either way.

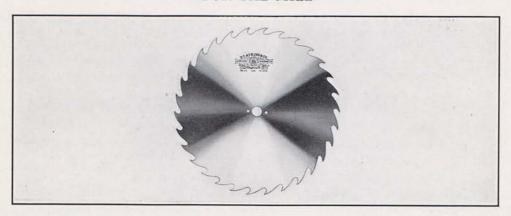
No. 10 tooth is a very fine rip saw style.

No. 11 tooth is used principally for export, although many large operations in this country find this style most desirable.

No. 12 is a fine tooth rip saw and adapted for smooth cutting.

In ordering mitre saws see styles of teeth on page 32.

ATKINS SOLID TOOTH SAWS FOR THE MILL



All Genuine Atkins Mill Saws are made of Silver Steel, a special high-grade, crucible steel to which is given the advertising trade-marked name, "Silver Steel."

This Steel is manufactured in enormous quantities for us exclusively.

We thus secure the facilities of the largest steel plants in the world which insures a greater uniformity than could possibly be otherwise obtained.

Furthermore to avoid variation, all Silver Steel is both chemically and physically analyzed in our laboratory and if not up to the standard is immediately rejected.

There is no temptation to use any blade, no matter how small, unless it measures up to the standard of Silver Steel.

The heat treatment is prescribed in the laboratory, based upon the analysis and the conditions under which the finished saw must operate.

In the tempering rooms, the operatives carry out the directions of the laboratory. This work is done scientifically, through the use of exclusive devices which reduce the hardening and tempering processes to an absolute certainty.

We have also invented and covered by patent, the most improved machinery for grinding purposes. By its use, we are enabled to finish Atkins Silver Steel Saws with great accuracy, giving any saw the required gauge, even when there is a variation of thickness wanted at different points in the blade.

The hammering or smithing process is in the hands of our most skilled workmen. In this department are found some of our oldest employees, many of whom have been in our constant employ from twenty to fifty years.

Silver Steel files easily, but at the same time is exceedingly hard and tough. It is almost impossible to crack a Silver Steel Saw, unless it is run at a disadvantage. Silver Steel takes a perfect swage and the saws made from it do not easily lose their points.

Any saw bearing the name of E. C. Atkins & Co. is guaranteed to give perfect satisfaction under even the most trying conditions if properly operated.

ATKINS CIRCULAR SAWS FOR THE MILL

Remember that these saws are made of genuine Silver Steel—Atkins exclusive formula—which is the finest and most expensive material that has ever been used in saw blades; that they are manufactured by skilled workmen, with scientific appliances and under the most favorable conditions throughout, therefore, they will prove the cheapest in the long run.

INSTRUCTIONS FOR ORDERING ATKINS CIRCULAR SAWS

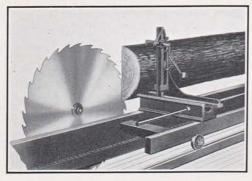
In ordering circular saws be careful to give following specifications in detail:

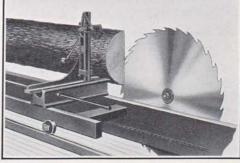
- (a) Diameter of saw in inches.
- (b) Right or left hand (see cut below).
- (c) Gauge (thickness) of saw at center and also at rim.
- (d) Number of teeth in saw. (If solid tooth, see page 29 for standard.)
- (e) Style of pattern of tooth (see cut on page 24, if Solid Tooth Saw is wanted).
- (f) Diameter of mandrel hole; diameter of pin holes, and distance center to center of pin holes.
- (g) Number of revolutions of saw per minute while in cut. See page 27.
- (h) Greatest feed in inches per revolution—kind of feed.
- (i) Kind of timber sawed.
- (j) Spring or swage set. (If Inserted Tooth Saws are wanted, see pages 42 to 49.)
- (k) For rip or cross cut work.
- (l) Horsepower available.

All our stock saws forty inches and larger in diameter have standard mandrel and pin holes, namely—two-inch mandrel hole, and two five-eighths-inch lug pin holes, three inches from center to center. If wanted different, please send full pattern of holes. Order blanks furnished free on application.

If saws are to be driven by gas engines, please state full particulars as to horsepower, speed and feed

ILLUSTRATING THE HAND OF CIRCULAR SAWS





Left Hand

Right Hand

See illustration on page 35, showing hand of shingle saws. Copy of our pamphlet showing care of saws in the mill can be had for the asking.

ATKINS CIRCULAR SAWS

SPEED OF CIRCULAR SAWS

In presenting to you a table of speeds on circular saws we have figured out a table on a standard periphery or rim speed of approximately 9000 feet per minute. The table below is figured out on that basis. This does not mean that circular saws cannot be successfully operated at a higher or lower speed. In fact, special requirements demand higher and lower motion than 9000 feet per minute periphery speed.

This table is given for your guidance and if your requirements demand a higher or lower speed we are prepared to adjust the tension in our saws to suit your requirements.

We would always advise our customers to give us accurate information regarding the speed of circular saws when in the timber. We keep in stock speed indicators which can be used for that purpose.

We have published a book entitled "Saws in the Filing Room" containing general information regarding the care and operation of saws. We will be glad to mail this book free to any address on application.

TABLE OF SPEED OF CIRCULAR SAWS

Size of Saw Inches	Rev. per Minute Speed						
8	4,500	26	1,384	42	870	58	625
10	3,600	28	1,285	44	840	60	600
12	3,000	30	1,200	46	800	62	575
14	2,585	32	1,120	48	750	64	550
16	2,222	34	1,050	50	725	66	545
18	2,000	36	1,000	52	700	68	529
20	1,800	38	950	54	675	70	514
22	1,636	40	900	56	650	72	500
24	1,500	2.4		27.15			

RULES FOR CALCULATING THE SPEED OF CIRCULAR SAWS, PULLEYS OR DRUMS

Problem 1. The diameter of the driven being given, to find its number of revolutions.

Rule — Multiply the diameter of the driver by its number of revolutions, and divide the product by the diameter of the driven; the quotient will be the number of revolutions of the driven.

Problem 2. The diameter and revolutions of the driver being given, to find the diameter of the driven, that shall make any given number of revolutions in the same time.

Rule — Multiply the diameter of the driver by its number of revolutions, and divide the product by the number of revolutions of the driven; the quotient will be its diameter.

Problem 3. To ascertain the size of the driver.

Rule — Multiply the diameter of the driven by the number of revolutions you wish it to make, and divide the product by the revolutions of the driver; the quotient will be the size of the driver.

THICKNESSES OR GAUGES OF SAWS

COMPARATIVE TABLE OF GAUGES IN DECIMALS OF AN INCH SHOWING EQUIVALENTS TO GAUGES AS GIVEN IN FIRST COLUMN ON LEFT

No. of Wire Gauge	Birmingham or Stubbs Wire	American or Brown & Sharpe	Imperial Wire Gauge	U. S. Std. for Plate	No. of Wire Gauge	Birmingham or Stubbs Wire	American or Brown & Sharpe	Imperial Wire Gauge	U. S. Std. for Plate
000000			.464	.46875	18	.049	.040303	.048	.050
00000			.432	.4375	19	.042	.03589	.040	.04375
0000	.454	.460	.400	.40625	20	.035	.031961	.036	.0375
000	.425	.40964	.372	.375	21	.032	.028462	.032	.034375
00	.380	.3648	.348	.34375	- 22	.028	.025347	.028	.03125
0	.340	.32486	.324	.3125	23	.025	.022571	.024	.028125
1	.300	.2893	.300	.28125	24	.022	.0201	.022	.025
1 2 3	.284	.25763	.276	.265625	25	.020	.0179	.020	.021875
3	.259	.22942	.252	.250	26	.018	.01594	.018	.01875
4	.238	.20431	.232	.234375	27	.016	.014195	.0164	.0171875
4 5	.220	.18194	.212	.21875	28	.014	.012641	.0149	.015625
6	.203	.16202	.192	.203125	29	.013	.011257	.0136	.0140625
7	.180	.14428	.176	.1875	30	.012	.010025	.0124	.0125
7 8	.165	.12849	.160	.171875	31	.010	.008928	.0116	.0109375
9	.148	.11443	.144	.15625	32	.009	.00795	.0108	.0101562
10	.134	.10089	.128	.140625	33	.008	.00708	.0100	.009375
11	.120	.090742	.116	.125	34	.007	.006304	.0092	.0085937
12	.109	.080808	.104	.109375	35	.005	.005614	.0084	.0078125
13	.095	.071961	.092	.09375	36	.004	.005	.0076	.0070312
14	.083	.064084	.080	.078125	37	****	.004453	.0068	.0066406
15	.072	.057068	.072	.0703125	38		.003965	.0060	.00625
16	.065	.05082	.064	.0625	39	****	.003531	.0052	
17	.058	.045257	.056	.05625	40		.003144	.0048	

DECIMAL EQUIVALENTS OF PARTS OF AN INCH

Fractions	Decimals	Fractions	Decimals	Fractions	Decimals	Fractions	Decimals
of	of	of	of	of	of	of	of
an Inch	an Inch	an Inch	an Inch	an Inch	an Inch	an Inch	an Inch
146-133-4-116-64-337-146-3-6-337-146-3-6-3-3-1-4-3-6-3-3-1-4-3-6-3-3-1-4-3-6-3-3-3-3-1-4-3-6-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	.015625 .03125 .046875 .0625 .078125 .09375 .109375 .125 .140625 .171875 .1875 .203125 .21875 .234375	1746929454521452845284521452145214521452145214521452145214521	.265625 .28125 .296875 .3125 .328125 .34375 .359375 .375 .390625 .40625 .421895 .4375 .453125 .46875 .484375	3 4 1 (2.5) 4 1 (2.7) 4 4 5 (2.3) 4 1 (2.7) 4 5 (2.7) 4 5 (2.7) 4 1 (2.7) 4 1 (2.7) 4 5 (2.7) 4 5 (2.7) 4 1 (2.7) 4	.515625 .53125 .546875 .5625 .578125 .59375 .609375 .625 .640625 .65625 .671875 .6875 .703125 .71875	40 40 (2) 1.14 10 (600) 4 1.15 (10) 4 1.00 (11) 4 1.00	.765625 .78125 .796875 .8125 .828125 .84375 .859375 .875 .90625 .921875 .9375 .953125 .96875 .984375

Saw manufacturers generally use the Birmingham or Stubbs Gauge in cataloging thicknesses of saws, and in this catalog where gauges are given in connection with lists, it is the Birmingham or Stubbs Gauge as shown in the first and sixth columns at top of page.

STANDARD NUMBER OF TEETH IN SOLID TOOTH CIRCULAR SAWS

SMALL SAWS

Diameter Inches	Rip	Cut-off	Diameter Inches	Rip	Cut-off
6	40	132	28	36	68
8	44	100	30	38	70
10	30-36	90 or 124	32	40	72
12	30-36	90, 110 or 150	34	42	74
14	30, 34, 36	84, 134 or 172	36	44	76
16	30, 32, 34, 36, 40	60, 66, 80, 100 or 124	38	46	80
18	30, 36 or 40	60, 76, 90, 110, 150, 172	40	36 or 40	80
20	30, 32, 36, 40	60, 84, 100, 124	42	36 or 42	84
22	30, 32, 36, 40	60	44	38 or 44	88
24	32-40	64	46	40 or 46	90
26	34	66			

SAW MILL OR LOG SAWS

It is impossible to include all the various conditions under which large circular saws are operated, but we give below a general idea as to the number of teeth best suited for speeds as specified. The exact number of teeth, however, should be determined by the feed of the mill on which the saws are operated. Change in conditions as to feed and speed will of course necessitate changing the number of teeth as shown.

We will at all times be glad to give our friends the benefit of our experience in determining the correct number and style of teeth adapted to their particular conditions. If you are not sure of the number of teeth you should have, leave the matter to us, giving complete information as to feed, speed, timber, etc.

Diameter, Inches	Revolutions per Minute	Rip Saws Number of Teeth	Cut-off Saws Number of Teeth
48	650 to 700	44 to 48	100
50	600 to 650	44 to 50	80, 90 or 100
52	600 to 650	46 to 52	80, 90 or 100
54	550 to 600	48 to 54	90 or 100
56	550 to 600	48 to 56	90 or 100
58	500 to 600	50 to 58	90, 100 or 120
60	500 to 600	48 to 60	100, 120 or 150
62	500 to 600	52 to 62	100, 120 or 150
64	500 to 600	54 to 64	100, 120 or 150
66	500 to 600	62 to 66	100, 120 or 150
68	550 to 600	64 to 68	120, 144 or 150
70	550 to 600	66 to 70	120, 144 or 150
72	500 to 550	68 to 72	120, 130 or 140

RE-SAWS, EDGERS AND SHINGLE SAWS

Diameter Inches	Re-saws Number of Teeth	Edgers Number of Teeth	Diameter Inches	Shingles Number of Teeth
16	50	18, 20, 24, 30	36	60, 72, 80
18	36	18, 20, 24, 30	38	60, 72, 80, 90, 100
20	42	20, 24, 20	40	60, 72, 80, 90, 100
22	46	20, 24, 30	42	60, 72, 80, 90, 100
24	50	24, 30, 36	44	60, 72, 80, 90, 100
26	54	24, 30, 36	.,	
28	58	********		
30	62			
32	68			
34	72			
36	76	********	**	
38	80			

ATKINS SOLID TOOTH CIRCULAR SAWS

Diameter Inches	Thickness Gauge	Size of Hole Inches	Price Each	Extra for Each Gauge Heavier	Extra for Each Gauge Beveling		c. Weigh unds
6	18	3/4 7/8	\$ 3.30	\$0.07	\$0.25	3/	Net
8	18	7/6	4.40	.10	.35	1	Net
10	16	1 0	5.60	.20	.45		Net
12	15	î	7.00	.30	.55	91/	Net
14	14	11/8	8.50	.40	.65		Net
16	14	11%	10.50	.50	.75	41/3	
18	13	11/4	12.50	.60	.90	6	Net
20	13	1 5 16	15.00	.75	1.05	7	Net
22	12	1 16 16	17.50	.90	1.20	10	Net
24	iĩ	13%	20.50	1.05	1.35	13	Net
26	îî	$\frac{13/8}{13/8}$	24.00	1.25	1.55	16	Net
28	10	11/2	28.00	1.50	1.75	21	Net
30	10		32.00	1.75	1.95		Net
32	10	$\frac{11/2}{15/8}$	36.50	2.00	2.15	27	Net
34	9	15%	41.00	2.25	2.35	33	Net
36	9	15%	47.00	2.60	2.55	40	Net
38	9	15/8 15/8	54.00	3.00	2.75	49	Net
40	9	2/8	62.00	3.40	2.95	100	Gross
42	8	2	71.00	3.80	3.25	105	Gross
44	8	2	83.00	4.40	3.55	115	Gross
46	8	2	98.00	5.15	3.85	125	Gross
48	8	2	112.00	5.90	4.15	136	Gross
50	7	2	127.00	6.65	4.45	148	Gross
52	7 7 7	2	142.00	7.40	4.80	160	Gross
54	7	2	157.00	8.80	5.15	170	Gross
56	7	2	180.00	10.25	5.50	180	Gross
58	7	2	200.00	11.75	5.95	195	Gross
60	6	2	224.00	13.25	6.40	210	Gross
62	6	9	250.00	14.75	6.85	225	Gross
64	6	2	280.00	17.60	7.35	240	Gross
66		2	310.00	22.00	7.85	265	
68	5	5	350.00	26.40	8.45	285	Gross
70	5	2	400.00	30.80	9.05	295	Gross
72	5	5	450.00	35.20	9.65	325	Gross Gross
74	5	2 2	510.00	39.60	10.30	335	Gross
76	9	2	575.00	44.00			
78	6555555555	202222222222222222222222222222222222222	690.00	49.85	11.00 11.85	350	Gross
80	5	2	810.00			365	Gross
82	5	2	940.00	55.75 63.05	12.90	375	Gross
84	5	2			14.10	390	Gross
04	9	2	1,075.00	70.40	15.40	500	Gross

All saws under 6 inches in diameter take list of 6-inch saw.

All saws filed and set, ready for use.

All saws of odd diameters take list of next larger size.

No extra charge for saws one gauge thicker than list. No extra charge for saws one to three gauges thinner than list; when more than three gauges thinner, add 5% for each gauge.

Saws 48 inches and under, and 62 inches and over, in diameter, more than two gauges thinner than list not warranted. Saws 50 inches to 60 inches in diameter thinner than 10 gauge not warranted.

Saws 42 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger beveled two gauges without extra charge. Saws hollow or concave ground add for each additional gauge hollow or concave ground double the list for beveling.

Saws for cutting Bone, Horn or Ivory, add 50% to the above list. When these saws are hollow or bevel ground the 50% advance is to apply only on the list of straight gauge saw, and not on extras for hollow or bevel grinding.

Note.—If Log Saws are to be driven by gas engines, please state full particulars as to horse-power, speed and feed.

RE-SAWING OR SIDING SAWS

Diameter Inches	Gauge	Price Each ,	Diameter Inches	Gauge	Price Each
16	13 x 17	\$12.75	28	9 x 13	\$33.25
16	12 x 16	13.25	28	9 x 14	35.00
	11 x 15	13.75	28	8 x 13	36.50
18	12 x 16	15.20	30	9 x 13	37.85
18	11 x 15	15.80	30	9 x 14	39.80
18	12 x 17	16.10	28 28 30 30 30 30 32	8 x 13	41.55
20	12 x 16	18.15	32	9 x 13	42.95
20	11 x 15	18.90	32	9 x 14	45.10
16 18 18 20 20 20 22 22 22 22 24	12 x 17	19.20	32	8 x 13	47.10
29	11 x 15	21.10	3.4	9 x 13	48.05
22	10 x 14	22.00	34 34 36 36	8 x 13	50.40
99	11 x 16	22.30	34	8 x 14	52.75
24	10 x 14	24.55	36	8 x 13	57.20
24	9 x 13	25.60	36	8 x 14	59.75
24	10 x 15	25.90	36	7 x 14	64.90
24 24 26 26 26 26	10 x 14	28.65	38	8 x 12	62.25
26	9 x 13	29.90	38	8 x 13	65.00
26	10 x 15	30.20	38	7 x 13	70.75

List prices of all re-saws are figured by using solid tooth circular saw list, adding extra gauges heavy and gauges beveling, allowing one gauge heavier than standard and one gauge beveling without extra charge.

SOLID TOOTH EDGER SAWS

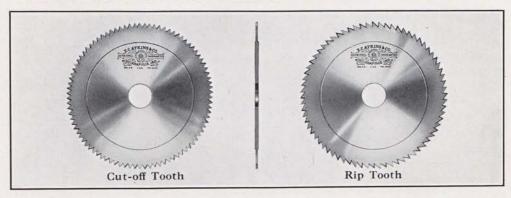
To:	Price, Each							
Diameter Inches	8 Gauge	9 Gauge	10 Gauge	11 Gauge	12 Gauge			
12	\$ 8.80	\$ 8.50	\$ 8.20	\$ 7.90	\$ 7.60			
14	10.50	10.10	9.70	9.30	8.90			
16	13.00	12.50	12.00	11.50	11.00			
18	14.90	14.30	13.70	13.10	*****			
20	18.00	17.25	16.50	4 9 4 4 9 9	11.000.00			
18 20 22	20,20	19.30	18.40	177777	****			
24	22.60	21.55	20.50					

LATHE SAWS

Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge Heavier	Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge Heavier
8	9	\$3,40	\$0.20	13	6	\$5.40	\$0.35
9	8	3.60	.20	14	6	6.00	.35
10	7	4.00	.20 .25	15	5	6.60	.40
11	7	4.40	.30	16	5	7.40	.40
12	6	4.80	.30	7.	374		4444

All Lathe Saws under 8 inches in diameter, take the price of an 8-inch saw.

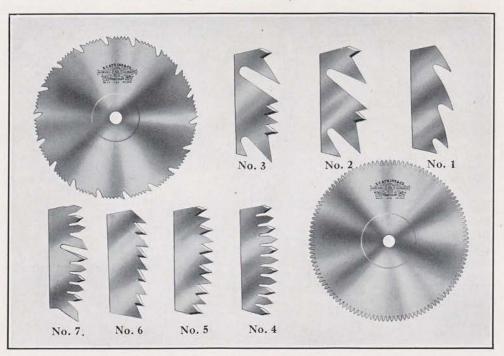
THIN RIM SPECIAL GROUND SAWS WHERE NARROW KERF IS DESIRED



PRICES ON APPLICATION

ATKINS CIRCULAR MITRE SAWS

SILVER STEEL, HOLLOW GROUND, FOR FINE WORK



We show above several patterns of the most popular styles of teeth used in mitre saws. From these illustrations, you will be able to select and to order by number the style of tooth desired.

On account of the high quality of Silver Steel, used in these blades, they will hold their sharp cutting edges to a remarkable degree.

These saws are ground to run without set and are specially adapted for smooth cutting, as in furniture, fine cabinet work, cigar box factories, etc.

In ordering, it is important to give diameter of saw, gauge at toothed edge, gauge at hole

and, if desired, the additional gauges beveling, also state whether to be made with plain or cleaner teeth. See styles as numbered. Give size of center hole, also diameter of collar on mandrel.

When ordering mitre saws specify "Mitre" and indicate by number the style of teeth as shown on this page.

We do not recommend circular mitre saws of thinner gauge than listed below.

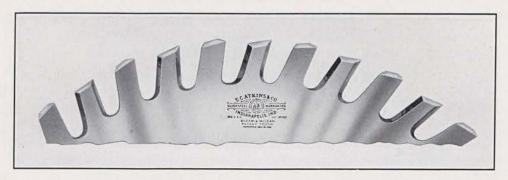
Sectional View Showing Method of Grinding Above Saws

Diameter Inches	Gange at Hole	Gauge at Edge of Collar	Gauge at Teeth	Extra for Each Gauge Heavier	Extra for Each Additional Gauge Hollow Ground	Price Each
6	17	20	17	\$0.07	\$0.50	\$5.40
8	16	19	16	.10	.70	6.80
10	15	18	15	.20	.90	8.60
12	14	17	14	.30	1.10	10.60
14	13	16	13	.40	1.30	12.60
16	13	16	13	.50	1.50	14.80
18	12	15	12	.60	1.80	17.40
20	12	15	12	.60 .75	2.10	20.60
20 22	11	14	11	.90	2.40	24.20
24	11	14	11	1.05	2.70	28.00

These saws are intended for use where a smooth cut is desired, and maximum efficiency is given only when feed does not exceed 50 feet per minute.

ATKINS "McKAM TOOTH" CIRCULAR SAWS

SILVER STEEL



ATKINS "McKAM TOOTH" SAW

UNEQUALLED FOR SMOOTH SAWING, RIPPING, MITREING OR CROSS CUTTING

This style of tooth is designed for use where a particularly smooth joint or edge is desired. The teeth are beveled and sharpened alternately so that glue joints may be made without planing. It does equally well in cross cutting, ripping or mitreing.

It is specially adapted for use in planing mills, furniture, moulding and picture frame factories, pattern and other shops where the finest work is to be done.

HOW TO ORDER

In ordering be particular to specify whether the saw is to be used for ripping or cross cutting or for general purposes. Also state, if possible, the character of lumber which is to be cut. For very smooth work, saws should be hollow ground, in which case it is necessary to specify the size of collar on your mandrel. Saws 12 to 18 inches will be made hollow ground unless otherwise ordered. Saws 20 inches and over will be ground straight and set unless specified to the contrary.

HOW TO FILE

File only the top of the tooth, being exceedingly careful to maintain the same clearance as in the new saw. Hollow ground saws are designed to run without set. Straight ground saws require much less set than is used in the ordinary saw. The set should be sprung in the tooth at least half way down.

Caution-Do not twist the tooth out of the plane of the saw blade.

ATKINS "McKAM TOOTH" CIRCULAR SAWS

Size Inches	Gauge	Number Teeth	Each Gauge	Extra for Each Addi- tional Gauge Hollow Ground	Price Each	Size Inches	Gauge	Number Teeth	Extra for Each Gauge Heavier	Extra for Each Addi- tional Gauge Hollow Ground	Price Each
12	12 x 15 x 12	48	\$0.30	\$1.10	\$11.20	22	10 x 14 x 10	92	\$0.90	\$2.40	\$27.50
14	12 x 15 x 12	58	.40	1.30	13.00	24	10 x 14 x 10	100	1.05	2.70	31.75
16	12 x 15 x 12	64	.50	1.50	15.30	26	9 x 12 x 9	108	1.25	3.10	36.10
18	11 x 14 x 11	76	.60	1.80	18.00	28	9 x 12 x 9	116	1.50	3.50	40.50
20	10 x 14 x 10	84	.75	2.10	24.20	30	9 x 12 x 9	116	1.75	3.90	45.00

We do not recommend "McKam Tooth" Saws of thinner gauge than listed. These saws are intended for use where a smooth cut is desired, and maximum efficiency is given only when feed does not exceed 50 feet per minute.

ATKINS SHINGLE AND HEADING SAWS

SILVER STEEL, PATENT TAPER GROUND

On account of the exceedingly thin gauge on the toothed edge of shingle and heading saws, it is necessary to use a very fine grade of steel. Silver Steel is the best for this purpose because of its unusual edge and tension holding qualities.

The standard shingle saw is from 7 to 9 gauge at the center and from 16 to 19 gauge on the toothed edge. Heading saws are usually from 5 to 7 gauge at the center and from 14 to 16 gauge on the rim.

Atkins Silver Steel Shingle and Heading Saws are analyzed in our laboratory and the proper heat treatment prescribed, based upon this analysis. Our gas furnaces insure a uniform temper which together with our patented mechanical devices eliminates the possibility of hard or soft spots or any unevenness of temper.

All Atkins Silver Steel Shingle and Heading Saws are ground flat on the rim. This renders it unnecessary to regrind them for a considerable time and insures the full benefit of the set.

WHEN ORDERING SHINGLE AND HEADING SAWS, GIVE FOLLOWING SPECIFICATIONS

Diameter of saw (in inches). Thickness or gauge at center and rim. Number of teeth. Right or left hand. Speed.

If you wish us to furnish the flange also, give maker's name of machine, or send full and correct metal template of old flange, showing size and location of holes.

If you have flange and we are to furnish the saw only, send it to us that we may fit it to the saw, or if you cannot send it, send template of holes and sample of screw by which to drill and countersink saw.

SHINGLE AND HEADING SAWS

Diameter Inches	Price Each	Diameter Inches	Price Each	Diameter Inches	Price Each	Diameter Inches	Price Each
36	\$62.00	44	\$110.00	52	\$200.00	60	\$320.00
38	70.00	46	125.00	54	230.00		
40	80.00	48	145.00	56_	260.00		
42	95.00	50	170.00	58	290.00		

Above list is for saws beveled not more than eight gauges, and with thickness at center of the same gauge as shown in solid tooth circular saw list for saws of the same diameter, but one gauge thicker is allowed without extra charge.

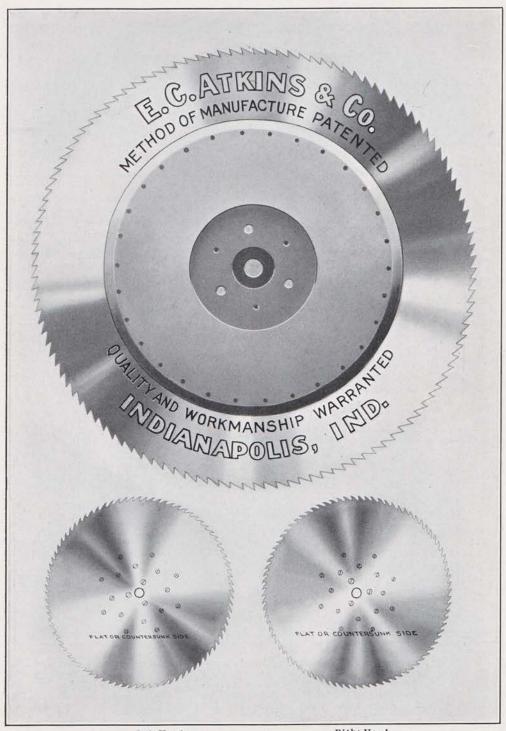
For any additional thickness or beveling, add for each gauge thicker or gauge beveling as per circular saw list.

Ask for lowest current prices on Shingle Saw Collars.

Fitting new or old collars to new saws, \$8.00 each.



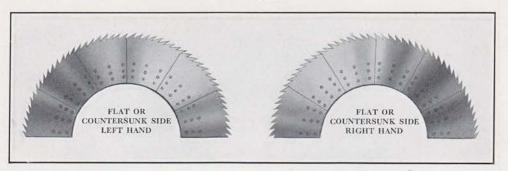
ATKINS SHINGLE AND HEADING SAWS



Left Hand Right Hand
SILVER STEEL, TAPER GROUND AND GAS TEMPERED. See Following Page for Segment Saws.

ATKINS SEGMENT VENEER SAWS

SILVER STEEL



When ordering segments give gauge or thickness at butt, gauge or thickness at edge, depth of bevel, diameter of saw that segments are to form, number of segments in saw, depth of segments, number of teeth in each segment, sample of screw by which to drill and countersink flat or countersunk side, and direction in which teeth run. (See illustration above.)

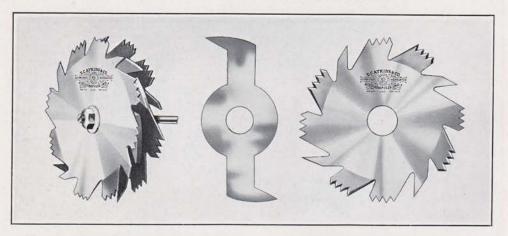
In ordering for a flange that has been drilled, send a sheet iron or tin template, or a correct tracing showing holes and other particulars, or preferably one of the old segments giving the depth they originally were.

PRICE PER FOOT IN DIAMETER OF SAW

	19 Gauge and Thinner	18 Gauge and Thicker
12 inches deep, 5 gauge	\$29.00	\$25,00
12 inches deep, 6 gauge	28.00	24.00
12 inches deep, 7 gauge		23.00
12 inches deep, 8 gauge	26.00	22,00
12 inches deep, 9 gauge.	25.00	21.00
12 inches deep, 10 gauge	24.00	20.00

Add 5 per cent for each additional inch in depth, over 12 inches deep. Deduct 5 per cent for each inch under 12 inches in depth.

ATKINS GROOVER OR DADO HEADS



These dado heads are our own make. They have a capacity for cutting any width of groove from $\frac{1}{8}$ to 4 inches and can be made with an even greater capacity. They are made in six different combination sets as listed on page 37. No. 6 set will cut any groove from $\frac{1}{8}$ to 2 inches. No. 5 from $\frac{1}{8}$ to $1\frac{1}{2}$ inches, etc. The complete sets consist of two outside saws, each of which is a groover in itself. These are furnished with as many inside cutters as the width of the groove requires. The inside cutters are made from $\frac{1}{16}$ to $\frac{1}{4}$ inch thick. The outside cutters are $\frac{1}{8}$ inch thick. It will cut a perfect groove, either with or across the grain and makes an exceedingly smooth, even cut. See page 37.

SIZE OF ATKINS DADO HEADS

ILLUSTRATED AT FOOT OF PAGE 36

INSIDE, OUTSIDE CUTTERS AND GROOVERS

The groovers are arranged in sets, as follows: No. 1 set, cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$. No. 2 set, cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$. No. 3 set, cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$. No. 4 set, cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{16}$,

No. of Set	Diameter, Inches													
	6	7	8	9	10	11	12	14	16	18	20			
1	\$11.50	\$13.15	\$14.85	\$16.50	\$19.00	\$21.65	\$25.15	\$29.65	\$34.50	\$37.15	\$43.85			
	13.85	15.65	17.50	19.35	22.00	24.85	28.65	34 00	39.85	43.15	50.35			
2	16.60	18.65	20.85	23.00	26.00	29.15	33.35	39.35	45.65	50.00	58.35			
4	18.90	21.15	23.50	25.85	29.00	32.35	36.85	43.65	51.00	56.00	65.85			
5	23.60	26.15	28.85	31.50	35.00	38.65	43.85	52.35	61.65	68.00	80.85			
	28.25	31.15	34.15	37.15	41.00	45.00	50.85	61.00	72.35	80.00	95.85			
6	37.60	41.15	44.85	48.50	53.00	57.65	64.85	78.35	93.65	104.00	125.85			
8	46.90	51.15	55.50	59.85	65.00	70.35	78.85	95.65	115.00	126.65	155.85			

INSIDE CUTTERS

	1	Price, Ea	ch]	Price, Ea	ch		1	Price, Each			
Diameter Inches	Thickness, Inches			Diameter Inches	Thickness, Inches			Diameter Inches	Thickness, Inches				
Inches	16	1/8	1/4	inches	16	1/8	1/4		16	1/8	1/4		
5	\$0.90	\$1.50	\$2.00	9	\$1.50	\$2.15	\$2.85	14	\$2.35	\$3.00	\$4.35		
6	1.10	1.65	2.35	10	1.65	2.35	3.00	16	2.65	3.15	5.35		
7	1.20	1.85	2.50	11	1.85	2.50	3.15	18	3.00	3.85	6.00		
8	1.35	2.00	2.65	12	2.00	2.65	3.50	20	3.50	4.50	7.50		

ATKINS SPECIAL TOOTH SOLID PLATE GROOVING SAWS OUTSIDE CUTTERS AND SOLID GROOVING SAWS OF SAME PATTERN

Made of Silver Steel—Atkins exclusive formula. Carefully tempered, ground and polished. These saws are recommended for smooth grooving, either with or across the grain.

				1	Price, Eac	eh		
Diameter Inches				Thic	ekness, Ir	nches		
	1	1/8	3 16	14	16	3/8	16	1/2
5	s	4.15	\$ 5.00	\$ 7.10	\$ 9.15	\$11.50	\$13.15	\$14.85
6		4.90	5.85	8.35	10.85	13.15	14.85	16.50
7	1	5.65	6.65	9.60	12.50	14.85	16.50	18.65
8		6.40	7.90	11.25	14.50	16.50	18.15	20.85
9		7.15	9.15	12.90	16.65	18.35	20.00	23.00
10		8.35	10.40	14.60	19.15	20.85	22.90	26.00
11	1	9.60	12.50	16.25	21.65	23.35	25.40	29.15
12	1	1.25	13.75	20.00	24.15	26.85	29.15	33.33
14	1	3.35	15.00	25.00	26.65	31.35	33.85	39.33
16	1	5.70	16.65	30.00	33.35	36.15	39.15	45.63





INSERTED TOOTH GROOVING SAWS

Used for cutting dadoes, and answering the same purpose as a solid tooth grooving saw. The diameter of the saw always remaining the same permits cutting different grooves by simply changing width of points as per list at the bottom of this page.

Diam. Inches	Number of Teeth	Gauge	Price Each	Diam. Inches	Number of Teeth	Gauge	Price Each
6	4	7	\$13.00	12	10	7	\$29.00
7	5	7	16.00	14	10	7	33.00
8	6	7	19.00	16	12	7	38.00
9	6	7	21.00	18	14	7	43.00
10	8	7	25.00	14.4	* * *		

No extra teeth or holders furnished with the above saws.

One wrench furnished with each saw or set of saws.

Saws furnished with less teeth than standard deduct 1.00 per tooth from list.

Above list covers saws fitted with points to cut either $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{7}{8}$ in., $\frac{7}{16}$ in., $\frac{1}{2}$ in., $\frac{9}{16}$ in., $\frac{5}{8}$ in., $\frac{11}{16}$ in., or $\frac{3}{4}$ in.

Extra teeth to cut	$\frac{4}{4}$ in., $\frac{5}{16}$ in. or $\frac{3}{8}$ in	cents	each
	$\frac{7}{6}$ in. or $\frac{1}{2}$ in	44	**
	⁹ / ₆ in. or ⁵ / ₈ in	4.6	**
	in. or 3/4 in	4.6	6.6
	Holders 60 cents each		

ATKINS LOCK CORNER CUTTERS

TWO AND FIVE TOOTH

These cutters are made from Atkins Silver Steel, the best in the world. We make Lock Corner Cutters for the regular Lock Corner or Dovetail Machines, in sizes from $3\frac{1}{2}$ inches to 12 inches in diameter; teeth vary to suit requirements. Prices furnished upon receipt of specifications.

ATKINS SILVER STEEL GROOVING SAWS

Grooving Saws with spiral or special shapes of teeth will be made on your complete specifications. Send samples of work to serve as a guide.



D: 1		Thickness, Inches											
Diameter Inches	1/8	3.6	1/4	5 16	3/8	76	1/2	5/8	3/4				
4	\$ 3.60	\$ 3.80	\$ 6.20	\$ 7.00	\$ 8.00	\$ 8.80	\$ 9.60	\$14.00	\$14.60				
5	4.20	4.40	7.20	8.00	9.20	10.20	11.20	16.80	17.80				
6	5.20	5.40	8.20	9.20	10.40	11.60	12.80	19.60	21.00				
7	6.00	6.40	9.20	10.40	11.60	13.00	14.40	22.80	23.60				
8	6.80	7.40	10.20	11.60	13.20	14.80	16.40	26.00	27.00				
9	7.40	8.40	11.40	13.00	14.80	16.60	18.40	29.20	31.00				
10	8.20	9.40	12.60	14.40	16.40	18,40	20.40	33.40	35,00				
11	10.60	11.80	14.00	16.80	18.80	21.00	22.40	36.60	39.00				
12	11.60	12.80	15.40	19.20	21.40	23,60	24.80	39,80	43.00				
14	13.80	15.40	17.80	22.20	26.00	28.20	29.80	45.00	49.80				
16	15.40	18.40	21.20	26.00	30.60	33.40	35.60	53.00	59.00				
Tooth	20.10	20.20	21.20		00.00	00,10	55100	27.1-22.7-27.7					
Space	1/2 in.	1 in.	1 in.	11/4 in.	11/2 in	134 in.	2 in.	2 in.	2 in.				

All grooving saws under 4 inches in diameter take 4-inch list. Bevel tooth grooving saws, add 10% to above prices. Grooving saws with teeth shaped and backed off, add 50% to above prices. Special grooving saws made to order, special prices. Above list covers hollow ground saw which will be furnished unless otherwise specified.

ATKINS WABBLE SAWS

SILVER STEEL

In the manufacture of all articles with rounded edges, of peculiar shape, the wabble saw is invaluable. It is also used for grooving.

Prospective users are requested to send us samples of the work to be done so that we may determine whether or not the wabble saw is adapted for the purpose intended.

It can be made for use on shaper spindles to meet almost any requirement and does work better and often cheaper than by any other process. In many cases shaping with the band saw can be eliminated, thus saving one operation. In ordering wabble saws, it is important in the case of grooving, to give the width of groove. When rounded edges are to be made, specify the amount of wabble desired in inches or fractional parts of an inch. State also the diameter and thickness. Saws made in diameters of 5 to 10 inches. Usual thickness, ½ inch. Collars are usually 2 to 3 inches in diameter.

If more than one saw is to be used, give the distance over all, also whether saws only or saws with collars are to be used. If saws only, send accurate pattern of all holes. If ordered with collars, it is best to have independent collars with each saw, so that when the saw wears down, spacers can be placed between them to maintain the original width of cut.

Prices on application.

ATKINS SPECIAL HEADING CUTTERS

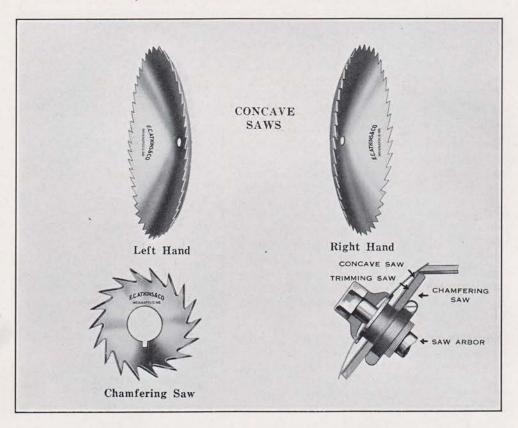
SOLID OR INSERTED TEETH

We make a feature of special heading cutters used in connection with concave saws. Made of High-Grade Silver Steel according to individual specifications. Write us for further information and quotations.

Be sure to give the following information: Thickness, size hole, diameter of convex side, diameter of concave side, radius of circle, diameter of countersunk head, depth of countersunk head, turn to right or left, tempered low for filing, tempered medium for filing, tempered high for grinding.



CONCAVE, CHAMFERING AND TRIMMING SAWS



ATKINS CONCAVE SAWS

We manufacture Concave Saws from Silver Steel and each Saw is accurately formed to run true and even without vibration. When ordering Concave Saws give the circle to be dished to; also which side is to be dished or concaved, right or left hand, saw running toward you; and use the illustrations at top of this page for a guide.

Diameter Inches	Gauge	Extra for Each Gauge Heavier	Price Each	Diameter Inches	Gauge	Extra for Each Gauge Heavier	Price Each
6	16	\$0.10	\$6.00	12	14	\$0.40	\$11.60
7	15	.12	6.80	14	13	.55	13.50
8	15	.15	7.60	16	13	.70	15.50
9	15	.20	8.50	18	12	.85	17.80
10	14	.25	9.50	20	12	1.00	20.50
11	14	.30	10.50	4.	4.4		

Any saw made to a circle 16 inches and under, advance list 20%. Extra sizes made to order.

Above list covers concave saws only.

Prices on Trimmer and Chamfering Saws quoted on application.

ATKINS SPECIAL CIRCULAR KNIVES



ATKINS CIRCULAR SLITTER KNIVES OR CUTTERS

Atkins Slitter Knives or Cutters are made from a very high-grade fine quality of special tool steel. They are carefully tempered to meet the necessary requirements of the user. In the grinding process we use the most improved scientific machinery, thereby securing an extremely accurate finish throughout.

ATKINS SILVER STEEL CIRCULAR KNIVES

FOR CUTTING CORK, LEATHER, PAPER, CLOTH, ETC.

In ordering please give these specifications:

- 1. Diameter 2. Gauge.
- 4. Width of bevel.
- Gauge.
 Size of hole.
- 5. Beveled on one or both sides.

Note—We allow two gauges heavier than listed without extra charge. Add 5 per cent for each additional gauge.

This list is for knives made of Silver Steel with a bevel not over 1 inch in width.

PRICE LIST CIRCULAR KNIVES

Diameter of Knives Inches	Thickness Inches	Price per Inch in Diameter
10 and under	3 2 2	\$0.57
Over 10 to 12	1/8	.65
Over 12 to 14	1/8	.72
Over 14 to 16	1/8	.80
Over 16 to 18	5	.88
Over 18 to 20	5	.95
Over 20 to 22	5	1.04
Over 22 to 24	32	1.12
Over 24 to 26	3	1.20
Over 26 to 28	3	1.27
Over 28 to 30	3	1.35
Over 30 to 32	3	1.51
Over 32 to 34	1/4	1.68
Over 34 to 36	1/4	1.90

On knives heavier than list add 5% for each $\frac{1}{64}$ -inch heavier.

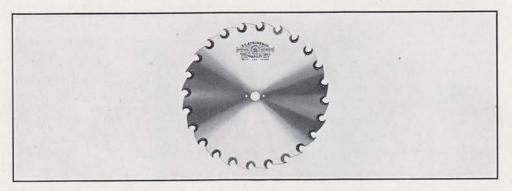
ATKINS EXCELSIOR SPURS

We manufacture Excelsior Spurs of exceptionally high quality at the following prices:

$6 \times \frac{3}{8}$, 16 or 18 gauge	pound	.10
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ATKINS INSERTED TOOTH SAWS

SILVER STEEL



There are many important features in connection with inserted tooth saws other than the diameter and gauge and shape of tooth.

The quality of steel used in the teeth and holders is of the utmost importance and the heat treatment and shaping processes determine the real merits of the saw.

Atkins Holders, being made of a special alloy steel, possess the highest degree of wearing qualities as well as proper spring to hold the teeth firmly in place. They stand the enormous pressure to which they are subjected without the likelihood of becoming loose in the sockets, or breaking from undue strain.

In designing Atkins Teeth and Holders, special attention has been given to their shape, in order to provide for each size that accuracy of cutting angle which insures the lightest running blade, combined with maximum wear. We have been successful in designing teeth which readily discharge the dust and chips without carrying them back into the kerf to cause undue heat on the rim of the saw.

Atkins Bits or Teeth are made from a high-grade alloy steel of another and entirely different formula which takes a high temper, combining both great strength and edge holding qualities.

Both teeth and holders are drop forged by special machinery designed for that purpose. The advantage of using this process becomes apparent when you consider the greater density which it imparts.

The hardening and tempering of all saw teeth is prescribed in our chemical laboratory after a careful analysis of the bars. This determines first the accuracy of the alloy and secondly the proper heat treatment to which it must be subjected.

In the plates, we use the same High-Grade Silver Steel as in all Atkins Solid Tooth Circular Saws. This is a most important feature, as it insures the tension holding quality, thus saving a large re-fitting and re-hammering expense. This is another feature that it would be well to remember in considering the first cost of an inserted tooth saw.

ATKINS INSERTED TOOTH SAWS

SILVER STEEL

We have taken into consideration the requirements of Winter sawing where the shape of tooth and style of holder determine the merit of the saw to a large degree.

We list here the most popular styles of teeth and holders now in use in Atkins Inserted Tooth Saws. We are prepared to furnish teeth and holders for other makes of saws. In placing order for new saw, give diameter of blade, gauge, style, whether right or left hand and number of teeth wanted.

While it may be true that an Atkins Inserted Tooth Saw with Silver Steel Blade may cost more in the first place, it will be found much cheaper in the long run, thus proving a decided economy.

In re-ordering teeth and holders specify style wanted. Number and gauges clearly stamped on each tooth and holder. Otherwise send samples and state width of points wanted.

INSERTED TOOTH SAWS

Diam. Inches	Thick- ness Gauge at Rim	Standard Number No. 2½ Teeth	Greatest Number Teeth That Can Be Put in Saw No. 2½	Standard Number Teeth Nos. 3 and 30	Greatest Number Teeth That Can Be Put in Saws Nos. 3 and 30	Size Hole Inches	Price Each No. 2½	Price Each Nos. 3, 30 and F	Extra for Each Additional Gauge Heavier	Price for Beveling New Saws per Gauge
10	12	10	10		12	1	\$27.00		\$0.20	\$0.45
12	ii	12	12			Ĩ.	32.00	40.000	.30	.55
14	10	14	14	0.000	0.0	11/8	37.00		.40	.65
16	10	16	16	12	12	11/8	43.00	\$39.00	.50	.75
18	10	18	20	14	14	11/4	49.00	44.00	.60	.90
20	9	20	22	14	16	$1\frac{1}{4}$ $1\frac{5}{16}$	55.00	50.00	.75	1.05
22	9	22	24	16	18	10	61.00	56.00	.90	1.20
24	9	24	26	18	18	13/6	68.00	62.00	1.05	1.35
26	9	26	28	18	20	13/8	75.00	68.00	1.25	1.55
28	9	28	30	18	22	11/2	82.00	74.00	1.50	1.75
30	9	30	32	20	24	11/2	90.00	80.00	1.75	1.95
32	8	32	34	22	26	$\frac{11_{2}}{15_{8}}$	100.00	88.00	2.00	2.15
34	8	36	36	22	28	15/8	110.00	97.00	2.25	2.35
36	8	38	38	24	30	15/8	120.00	106.00	2.60	2.55
38	8	40	42	24	32	15/8	130.00	115.00	3.00	2.75
40	8	42	44	26	34		140.00	125.00	3.40	2.95
42	8	44	46	28	36	2	150.00	137.00	3.80	3.25
44	8	46	50	30	38	2	165.00	150.00-	4.40	3.55
46	8	48	52	32	40	2	180.00	165.00	5.15	3.85
48	8	50	54	34	42	2	200.00	180.00	5.90	4.15
50	8	52	56	36	44	2	220.00	200.00	6.65	4.45
52	7	56	60	38	44	2	245.00	220.00	7.40	4.80
54	7	58	62	40	46	2	275.00	250.00	8.80	5.15
56	7	60	64	42	48	2	310.00	280.00	10.25	5.50
58	7	62	66	44	50	2	340.00	310.00	11.75	5,95
60	7	64	70	46	52	2	375.00	340.00	13.25	6.40
62	6	66	74	48	54	2	420.00	380.00	14.75	6.85
64	6	68	76	48	56	2	470.00	425.00	17.60	7.35
66	6	72	78	50	58	222222222222222222222222222222222222222	520.00	470.00	22.00	7.85
68	6	76	80	52	60	2	575.00	520.00	26.40	8.45
70	6	78	82	54	62	2	630.00	570.00	30.80	9.05
72	6	80	84	56	64	2	685.00	620.00	35.20	9.65

The number of teeth in Inserted Tooth Saws should be determined by the speed of the saw and the feed. In ordering an Inserted Tooth Saw, the speed of saw should be given while it is in the cut.

One extra set teeth and two extra holders or shanks, given with each saw.

One wrench given with each saw or set of saws. See pages 44, 45, 46, for styles of teeth and holders which are listed here.

No extra charge for saws one gauge thicker than list. No extra charge for saws one to three gauges thinner than list. When more than three gauges thinner, add 5% to list for each gauge.

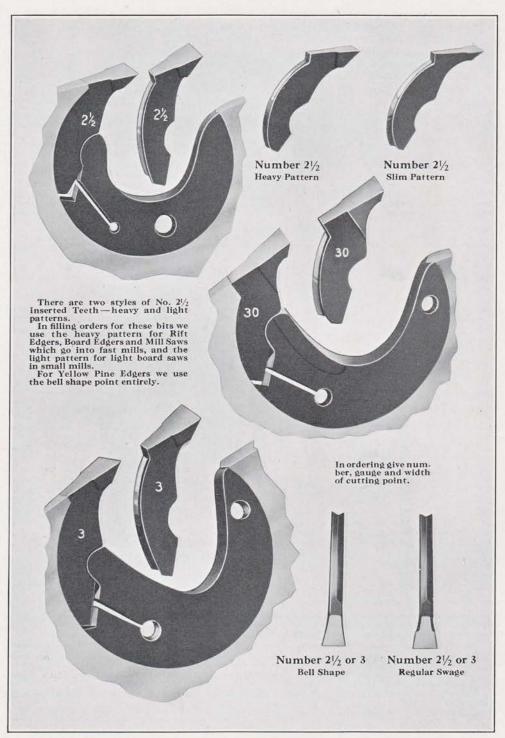
Saws 48 inches and under, and 62 inches and over, in diameter, more than two gauges thinner than list not warranted. Saws 50 inches to 60 inches in diameter thinner than 10 gauge not warranted.

Saws 42 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger beveled two gauges without extra charge.

Ask for lowest current prices on extra Teeth and Holders.

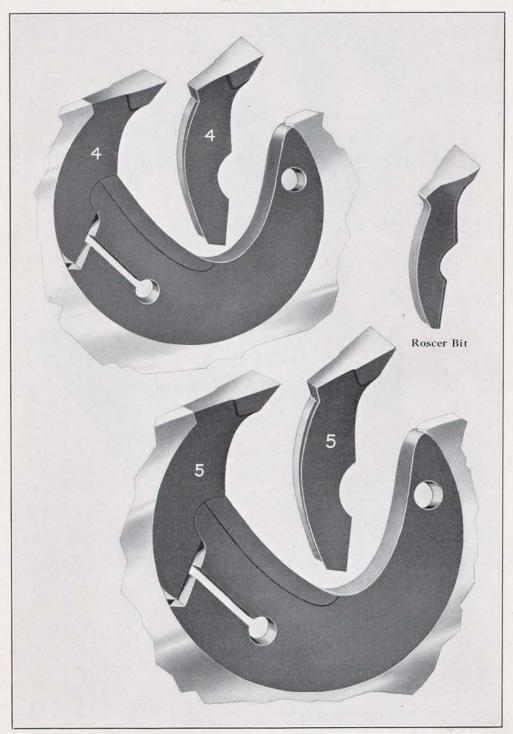
ATKINS INSERTED TOOTH SAWS

SILVER STEEL

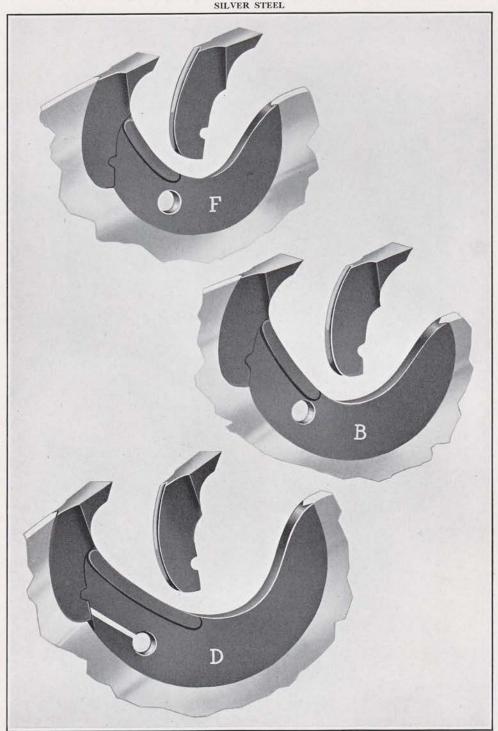


ATKINS INSERTED TOOTH SAWS

SILVER STEEL



ATKINS "S" PATTERN INSERTED TOOTH SAWS



In ordering these "S" Pattern teeth and holders designate them as "S.F.," "S.B." or "S.D." In addition to above patterns we furnish Pattern "S.K.," a smaller size corresponding to our No. $2\frac{1}{2}$.

ATKINS INSERTED TOOTH SAWS

SILVER STEEL

We have recently improved the style of Atkins saw teeth which increases their cutting capacity and life very considerably.

No. 3 style of tooth is in more general use than any other and meets the ordinary requirements.

No. $2\frac{1}{2}$ is of medium size and suitable for saws for high feed mills where a large number of teeth are necessary, and for small saws in light gauges. See page 43.

No. 30 is an especially strong tooth for heavy duty. Interchangeable with No. 3.

Nos. 4 and 5 are extremely heavy, large patterns and are used extensively on the west coast. They are also used in top saws.

Nos. 4 AND 5 SAWS

Diam. Inches	Thick- ness Gauge at Rim No. 4	Thick- ness Gauge at Rim No. 5	Standard Number of Teeth No. 4	Greatest Number of Teeth That Can Be Put in Saw No. 4	Standard Number of Teeth No. 5	Greatest Number of Teeth That Can Be Put in Saw No. 5	Size Hole Inches	Price Each Nos. 4-5 B and D	Extra for Each Additional Gauge Heavier	Price for Beveling New Saws per Gauge
22	9	8	12	14	10	12	1 5 16	\$56.00	\$0.90	\$1.20
24	9	8	14	16	12	14	13/8	62.00	1.05	1.35
26	9	8	14	16	12	14	13/6	68.00	1.25	1.55
28	9	8	16	18	14	14	11/2	74.00	1.50	1.75
30	9	8	16	20	14	18	$1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{5}{8}$ $1\frac{5}{8}$	80.00	1.75	1.95
32	9	8	18	22	16	20	15%	88.00	2.00	2.15
34	9	8	20	24	18	20	15%	97.00	2.25	2.35
36	8	8	20	26	18	22	15%	106.00	2.60	2.55
38	8	8	22	28	20	22	15%	115.00	3.00	2.75
40	8	7	24	30	20	24	2	125.00	3.40	2.95
42	8	7	26	32	22	26	2	137.00	3.80	3.25
44	8	7	26	34	24	26	2	150.00	4.40	3.55
46	8	7	28	36	26	28	2	165.00	5.15	3.85
48	8	7	30	36	26	28	2	180.00	5.90	4.15
50	8	7	32	38	28	30	2	200.00	6.65	4.45
52	7	6	34	40	30	32	2	220.00	7.40	4.80
54	7	6	36	42	32	34	2	250.00	8.80	5.15
56	7	6	36	42	32	34	2	280.00	10.25	5.50
58	7	6	38	44	34	. 36	2	310.00	11.75	5.95
60	7	6	40	46	34	36	2	340.00	13.25	6.40
62	6	6	42	48	36	38	2	380.00	14.75	6.85
64	6	5	42	50	36	38	2	425.00	17.60	7.35
66	6	5	44	52	38	40	2	470.00	22.00	7.85
68	6	5	44	54	38	40	2	520.00	26.40	8.45
70	6	5	46	54	42	44	2	570.00	30.80	9.05
72	6	5 5 5	48	56	42	44	15/8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	620.00	35.20	9.65

One extra set of teeth and two extra holders given with each saw. One wrench given with each saw or set of saws.

No extra charge for saws one gauge thicker than list. No extra charge for saws one to three gauges thinner than list. When more than three gauges thinner, add 5% to list for each gauge.

Saws 48 inches and under, and 62 inches and over, in diameter, more than two gauges thinner than list not warranted. Saws 50 inches to 60 inches in diameter thinner than 10 gauge not warranted.

Saws 42 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger beveled two gauges without extra charge.

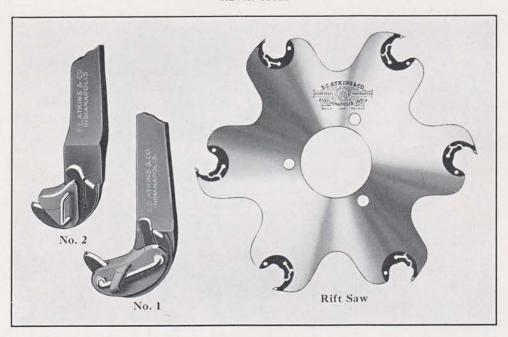
Ask for lowest current prices on extra Teeth and Holders.

ROSCER BITS (See page 45)

These bits or teeth are made for both 3 and 5 gauge saws. The point of 3 gauge tooth is $\frac{7}{8}$ of an inch wide and of 5 gauge, $\frac{3}{4}$ of an inch wide. In ordering, specify whether 3 or 5 gauge is desired.

ATKINS INSERTED TOOTH SAWS

SILVER STEEL



ATKINS RIFT SAWS

Atkins Silver Steel Rift Saws are usually furnished with No. 3 or No. 30 teeth and holders unless otherwise ordered.

When specified, Rift Saws can be made with two or more teeth on each projection or arm, but when made in this manner we use the smaller No. 2½ Pattern Teeth and Holders as shown on page 44. In ordering, be particular to send template of holes.

Diameter Inches	Gauge	4-Tooth	6-Tooth	10-Tooth	Diameter Inches	Gauge	4-Tooth	6-Tooth	10-Tooth
14	8	\$22.00	\$27.00	2000000	24	8	\$38.00	\$43.00	\$51.00
16	8	25.00	30.00		26	8	43.00	48.00	56.00
18	8	28.00	33.00		28	8	48.00	53.00	61.00
20	8	31.00	36.00	\$44.00	30	8	53.00	58.00	66.00
22	8	34.00	39.00	47.00			******		

One extra set of teeth and two holders furnished with each saw. One wrench furnished with each saw, or set of saws.

The standard is 8 gauge but can be supplied in either 9 or 10 gauge. For heavier than standard, advance same as standard inserted tooth saws.

Ask for lowest current prices on extra teeth and holders for the above saws.

ATKINS INSERTED TOOTH SAW WRENCHES

We illustrate above two types of wrenches, designed for use in fitting holders and teeth into place.

These wrenches are made of good material and are substantially constructed and will perform their work satisfactorily.

No. 1 Style for Nos. 3, 4, 5 and 30 Pattern Holderseach	\$2.20
No. 2 Style for No. 2½ Pattern Holder	

In ordering wrenches, specify style or number of tooth.

ATKINS INSERTED TOOTH SAWS—SILVER STEEL

This is a comparatively new style of tooth on which we own the exclusive patent. It is known as the McLean Pattern. It is designed for extra smooth cutting in large timber and is particularly desirable in Shingle Mills. The economy of a saw of this construction lies, first, in the fact that the user is able to maintain the original diameter of the saw. Each tooth is offset on the point to obviate the necessity for setting and does not require a holder but is held in the blade by a milled groove and rivet. In ordering, be particular to state the class of work for which the saw is desired, also the revolutions at which it is to be run, the gauge and diameter. Also made in Diamond shape point as shown in the two-prong for hard wood.

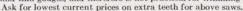
Diameter Inches	Gauge	Width of Tooth Inches	Size of Hole Inches	Price Each	Diameter Inches	Gauge	Width of Tooth Inches	Size of Hole Inches	Price Each
36 38 40 42 44 46 48 50 52 54 56 62 64 66	9 8 8 8 8 8 7 7 7 7 7 7 6 6 6 6		158 22 22 22 22 22 22 22 22 22 22 22 22 22	\$110.00 118.00 127.00 139.00 153.00 167.00 182.00 204.00 232.00 262.00 290.00 320.00 350.00 350.00 475.00	68 70 72 74 76 78 80 82 84 86 88 90 92 94	665555555544444		222222222222222222222222222222222222222	\$520.00 565.00 610.00 675.00 890.00 1030.00 1170.00 1310.00 1470.00 1650.00 2040.00 2280.00 2550.00

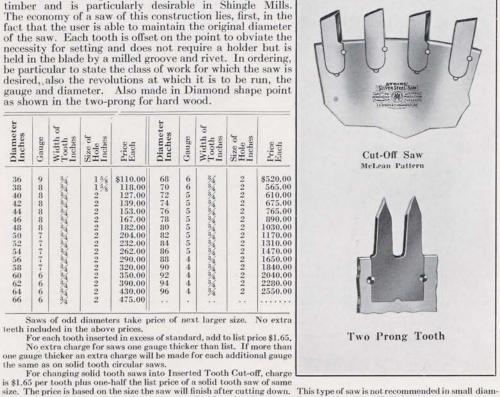
Saws of odd diameters take price of next larger size. No extra teeth included in the above prices.

For each tooth inserted in excess of standard, add to list price \$1.65.

No extra charge for saws one gauge thicker than list. If more than
one gauge thicker an extra charge will be made for each additional gauge

eters and thin gauges, and therefore is not practical for trimming or equalizing lumber or small timbers.





WO-PRONG AND FOUR-PRONG TEETH

This style of saw is particularly adapted for use in pulp, paper, shingle and stave mills, also for slab and slasher saws. and where logs or cants are cut into short lengths or bolts. Thorough tests covering a trial for some years, of both two and four-prong patterns, have demonstrated them to be a decided success. The teeth are high in temper, thus giving superior edge-holding quality.

Designed for use only in saws 36 inches diameter and larger. Made in 4, 5, 6, 7, 8 and 9 gauge only. Can readily be sharpened on Automatic Saw Sharpener.

SAWS-COMPLETE

Diam. Inches	Thick- ness Gauge	Number of Tooth Sections Either Two or Four-Prong	Size of Hole Inches	Price Each	Diam. Inches	Thick- ness Gauge	Number of Tooth Sections Either Two or Four Prong	Size of Hole Inches	Price Each
36	8	24 24	1 5/8 1 5/8	\$101.00	62	5	44	2	\$360.00
38	8	24	13/8	109.00	64	5	44	2	403.00
40	8	26	2	118.00	66	9	48	2	440.00
42	8	28	2	129.00	68	5	48	2	476.00
44	7	30	2	140.00	70	5	52 52	2	520.00
46	7	30	2	152.00	72	5	52	2 2 2	572.00
48	7	32	2 2 2	165,00	74	5	54	2	630.00
50	7	34	2	185.00	76	4	54	2 2	704.00
52	6	36	2	217.00	78	4	56		836.00
54	6	38	2	242.00	80	4	56	2	968.00
52 54 56	6	40	2	264.00	82	4	58	2	1100.00
58 60	6 5	42 42	2 2	293.00 323.00	84	4	58	2	1232.00

No extra teeth included in above prices. For extra gauge heavier, beveling and approximate weights see solid tooth list, page 30.

EXTRA TEETH

Two-Prong.......90 cents each Four-Prong.....\$1.00 each

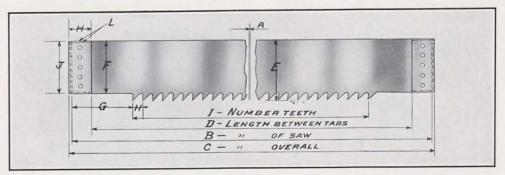
ATKINS GANG AND RIFT SAWS

SILVER STEEL



HOW TO ORDER GANG SAWS

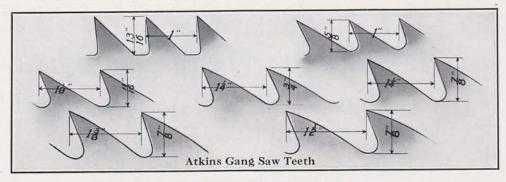
Specify as Follows



ATKINS SILVER STEEL GANG SAWS

Width			Price, 1	per Foot							
Inches	11 Gauge	12 Gauge	13 Gauge	14 Gauge	15 Gauge	16 Gauge					
4			\$1.90	\$1.85	\$1.75	\$1.70					
5			2.00	1.95	1.85	1.80					
6	(A)		2.15	2.05	2.00	1.95					
7	*****		2.35	2.25	2.15	2.15					
8	\$2.90	\$2.75	2.55	2.45	2.35	2.35					
9	3.15	2.95	2.80	2.65	2.55						
10	3.40	3.20	3.05	2.90	2.75						

Above prices cover saws fitted, ready for use without tabs. Gang saws with reversed teeth, add 10% to list prices. For heavier gauges than listed above, use list on Mill, Mulay and Drag saws. Saws furnished without tabs, but with holes punched, add 2c NET per hole.

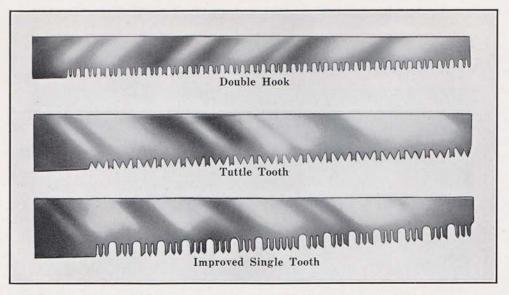


TABBING GANG SAWS

Tabbing Gang Saws, with solid bent tabs, of	or two plate tabs.
4-Hole\$1.00	6-Hole\$1.50
5-Hole	
	50

ATKINS DRAG SAWS

SILVER STEEL



Atkins Silver Steel Drag Saws are made in all styles and shapes of teeth to meet every requirement.

We guarantee an absolutely uniform temper of the proper degree of hardness, insuring saws which will stand up to their work with the least cost for re-fitting.

Unusual attention is given to grinding and smithing, thereby securing an even thickness on the cutting edge, combined with proper tension to obtain the best results in operation.

ATKINS BUTTING OR DRAG SAWS

SECOND TO LESS		Price, per Foot	
Width, Inches	10 Gauge	11 Gauge	12 Gauge
6 x 4 7 x 5 8 x 6	\$2.00 2.20 2.40	\$1.80 2.00 2.20	\$1.60 1.80 2.00

All saws fitted, ready for use.

Tapered drag saws wider or thicker than the above will be figured by the Mill, Mulay and Drag saw list, using the average width as the basis.

Drag saws taper ground, add 5% to the list for each gauge taper grinding.

In ordering drag saws, send template showing position of the holes for attaching the blade to the machine.

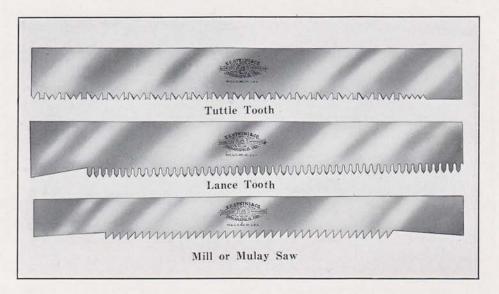
PORTABLE DRAG SAW MACHINES

We are prepared to supply the trade with Portable Drag Saw Machines that can be operated by one man, moved from cut to cut, or carried any place by two men. These machines are light and strong and we guarantee them to produce fine results. Prices quoted on application.



MILL SAWS, MULAY SAWS, LANCE TOOTH DRAG SAWS, AND DRAG SAWS OF EQUAL WIDTH

SILVER STEEL



These saws represent the highest quality and are furnished in wide variety of thicknesses, widths and lengths as per list below. Made of "Silver Steel."

				Price, per Fo	ot		11 11 11				
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge				
8	\$6.00	\$5.60	\$5.00	\$4.40	\$4.00	\$3.60	\$3.40				
9	6.40	6.00	5.40	4.80	4.40	4.00	3.60				
10	7.00	6.40	5.80	5.20	4.80	4.40	4.00				
11	7.60	7.00	6.40	5.80	5.40	4.80	4.40				
12	8.40	7.80	7.00	6.40	6.00	5.40	4.80				
14	9.60	9.00	8.20	7.60	7.00	6.40	5.80				
16	11.20	10.60	9.60	8.80	8.20	7.60	7.00				

All saws fitted, ready for use.

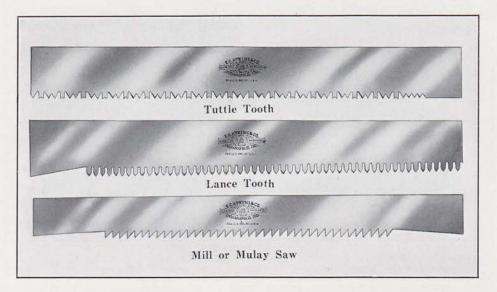
Above prices are for saws with Plain, Mill, Tuttle, or Lance tooth. Saws with special pattern teeth, special prices.

Drag saws taper ground, add $5\,\%$ to list for each gauge taper grinding.

In ordering these saws, please be sure to specify them by name, also give complete specifications in regard to gauge, length and width. Send template showing position of the holes for attaching the blade to the machine.

MILL SAWS, MULAY SAWS, LANCE TOOTH DRAG SAWS, AND DRAG SAWS OF EQUAL WIDTH

SILVER STEEL



These saws represent the highest quality and are furnished in wide variety of thicknesses, widths and lengths as per list below. Made of "Silver Steel."

				Price, per Fo	ot						
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge				
8	\$6.00	\$5.60	\$5.00	\$4.40	\$4.00	\$3.60	\$3.40				
9	6.40	6.00	5.40	4.80	4.40	4.00	3.60				
10	7.00	6.40	5.80	5.20	4.80	4.40	4.00				
11	7.60	7.00	6.40	5.80	5.40	4.80	4.40				
12	8.40	7.80	7.00	6.40	6.00	5.40	4.80				
14	9.60	9.00	8.20	7.60	7.00	6.40	5.80				
16	11.20	10.60	9.60	8.80	8.20	7.60	7.00				

All saws fitted, ready for use.

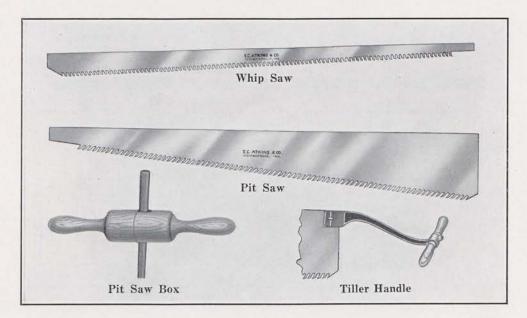
Above prices are for saws with Plain, Mill, Tuttle, or Lance tooth. Saws with special pattern teeth, special prices.

Drag saws taper ground, add 5% to list for each gauge taper grinding.

In ordering these saws, please be sure to specify them by name, also give complete specifications in regard to gauge, length and width. Send template showing position of the holes for attaching the blade to the machine.

ATKINS WHIP AND PIT SAWS

SILVER STEEL



Atkins Whip and Pit Saws are standard the world over. They are given just the proper temper for the use to which they are put, and will be found satisfactory to the highest degree.

Made in all the standard sizes. For general specifications, see list below.

Tiller handles for pit saws, price each \$1.10. See illustration above.

ATKINS PIT AND WHIP SAWS

PIT SAWS

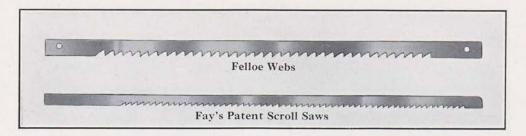
WHIP SAWS

Length Feet	Width at Point Inches	Width at Butt Inches	Price Each	Length Feet	Width at Point Inches	Width at Butt Inches	Price Each
5 5½ 6 6½ 7 7½ 8	31/4 31/4 31/2 31/2 31/2 31/2 31/2 31/2	10 10 ¹ / ₄ 10 ¹ / ₂ 10 ³ / ₄ 11 11 ¹ / ₄ 11 ¹ / ₂	\$8.00 8.80 9.60 10.40 11.20 12.00 12.80	5 5½ 6 6 6½ 7 7½	11/2 13/4 17/8 2 2 2	4 414 41/2 43/4 5 51/4	\$4.80 5.40 5.80 6.40 6.80 7.20

Boxes....each \$1.60 Tiller Handles....each \$2.00

Saws set and filed, ready for use

ATKINS FELLOE WEBS AND SCROLL SAWS



ATKINS FELLOE WEBS

Length Inches	Gauge	Width Inches	Price per Dozen	Length Inches	Gauge	Width Inches	Price per Dozei
6	19	1 to 1/2	\$2.60	22 24 26 28 30 32 34 36	17	1/4 to 3/4	\$6.60
7	19	3 to 1/2	2.80	24	17	1/4 to 7/8	7.40
. 8	19	16 to 1/2	3.00	26	17	1/4 to 7/8	8.20
10	18	to ½	3.40	28	17	1/4 to 1	9.00
12	18	14 to 1/2	3.80	30	16	1/4 to 1	9.80
14 16 18	17	14 to 12	4.20 4.80	32	16	1/4 to 1	10.80
10	17	14 to %	5.40	34	16	1/4 to 1	11.80
20	17	14 to % 14 to 34	6.00	90	16	¼ to 1	12.80

This list is for saws ground three gauges thin on back. One gauge heavier than above list, no extra charge. Five per cent extra for each additional gauge to 14 gauge; over 14 gauge special prices. Extra width, 10% for each $\frac{1}{2}$ s inch. Web saws $\frac{1}{2}$ s inch and narrower will be made with wide ends in order to give strength at hole; price 25% advance. If above furnished with pins, advance list 85c per dozen.

FAY'S PATENT SCROLL SAWS

Length	Price	Length	Price	Length	Price
Inches	per Dozen	Inches	per Dozen	Inches	per Dozen
8 9 10 11	\$3.60 4.00 4.40 4.80	12 13 14 16	\$5.20 5.60 6.00 6.60	18 20 22 22 24	\$7.20 7.80 8.60 9.60

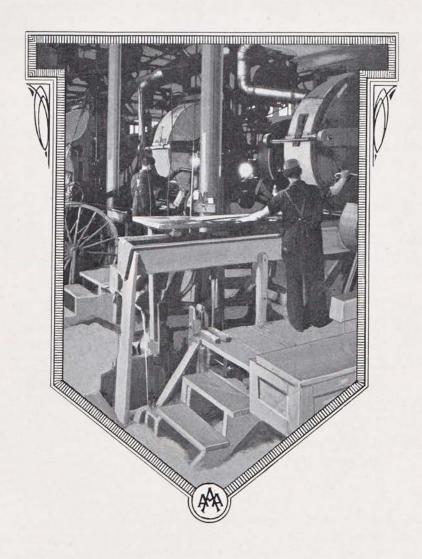
Webs to 16 inches, over ¾ inch wide, extra price; 18 to 24 inches over 1 inch wide, extra price. We make the above webs from 13 to 16 gauge in thickness. With pins, 85c per dozen additional, list.

CABINET PATTERN WEBS

Length	Thickness	Price, per Dozen—Width, Inches								
18 20 22	Gauge	3/8 to 3/4	3/8 to 1 1/8	1¼ to 1½	1 % to 2					
18 20 22 24 26 28 30 32 34 36	23 23 23 23 23 23 23 23 22 22 22 22	\$4.20 4.40 4.60 4.80 5.10 5.40 5.80 6.20 6.60 7.00	\$4.80 5.00 5.20 5.40 5.80 6.20 6.60 7.00 7.40 7.80	\$5.20 5.40 5.60 5.80 6.20 6.60 7.20 7.80 8.40 9.00	\$5.80 6.00 6.40 6.80 7.20 7.60 8.20 8.80 9.40 10.00					

Pattern Webs—2 gauges thin back advance above list, 80c per dozen. Above webs are set and filed. Five per cent advance for each gauge thinner than above. Five per cent advance for each gauge thinner than above. Twenty per cent advance for webs toothed over 10 points per inch. Twenty-five per cent advance for webs toothed over 15 points per inch. Webs thicker than 20 gauge, or thinner than 25 gauge, special price. For prices on tanged webs, add 80c per dozen to above lists.

ATKINS BAND SAWS



ATKINS BAND SAWS

SILVER STEEL

E. C. Atkins & Co. are the oldest manufacturers of band saws in the United States. This would mean nothing unless we had taken advantage of our increased experience and constantly improved the standard of our product. If "practice makes perfect," then we should know most about the manufacture of band saws. We use a formula for band saw steel—Silver Steel—which is giving far better results than the users or makers of band saws have ever anticipated. By actual test (which is indisputable evidence), it is the finest saw steel that has ever been used in band saws.

ANALYSIS

An analysis is made in the laboratory, and the heat treatment prescribed, based upon the character of the work which the saw is to perform. Our knowledge in this regard has been acquired through our many years' experience in manufacturing band saws for all classes of work.

EQUIPMENT FOR TEMPERING

Our equipment for the tempering of band saws was invented by us and is exclusive. By its use, we are able to impart an exactly uniform temper throughout the entire blade. There are no hard or soft spots. Each part of the blade is of exactly the same degree of toughness.

HEAT TREATMENT

This heat treatment renders Silver Steel exceedingly pliable, at the same time firm and tenacious, with no liability of cracking or losing teeth or points, and having the quality of holding its cutting edge and tension under forced feed and most trying conditions.

GRINDING

Special machinery is used in grinding, whereby we are able to secure uniform gauge over the entire width of the blade. In this process we employ ponderous machinery that has been invented by ourselves, the use of which adds to the perfect operation of the finished blade.

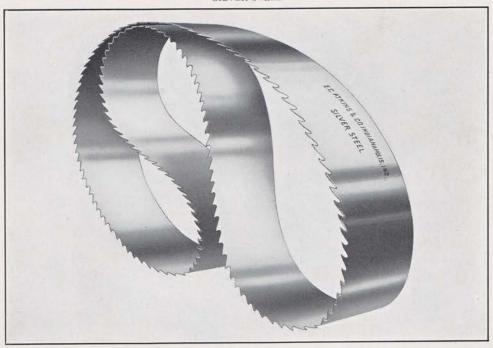
TENSIONING

We feel justly proud of the manner in which our tensioning and leveling is done. In this department we employ none but the most skilled mechanics who are required to serve a number of years as apprentices before they are intrusted with the regular work, thus we can assure our customers that Atkins Silver Steel Band Saws are the best in the world.

STEEL SAWS ATKINS SILVER

ATKINS WIDE BAND SAWS

SILVER STEEL



Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot	Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot	Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot
2	18 to 20	.28	\$1.00	51/2	17 to 19	.89	\$2.70	12	13 to 15	3.37	\$6.00
21/2	18 to 20	.35	1.20	6	17 to 19	1.06	3.00	13	13 to 15	3.65	7.20
3	18 to 20	.42	1.40	7	16 to 18	1.37	3.40	14	13 to 15	4.50	8.40
31/2	18 to 20	.50	1.60	8	14 to 18	1.76	3.80	15	12 to 14	4.82	10.20
4	18 to 20	.57	2.00	9	14 to 18	2.20	4.30	16	12 to 14	5.92	12.00
41/2	18 to 20	.64	2.20	10	14 to 16	2.81	4.80	17	12 to 14	6.29	16.80
5	17 to 19	.83	2.40	11	14 to 16	3.09	5.40	18	12 to 14	6.66	21.60

Saws of odd widths not listed, take the price of the next wider size. For saws of heavier gauge than listed, add 5% to list for each gauge heavier. No extra charge for saws one to two gauges thinner than list; when more than two gauges thinner, add 5% to list for each gauge.

Double edge band saws—list price per foot—all widths, advance 10% over list prices of single edge saws as above. Toothed blanks—same price as finished saws.

Band saw blanks, ground and polished, any width, furnished to order but not warranted.

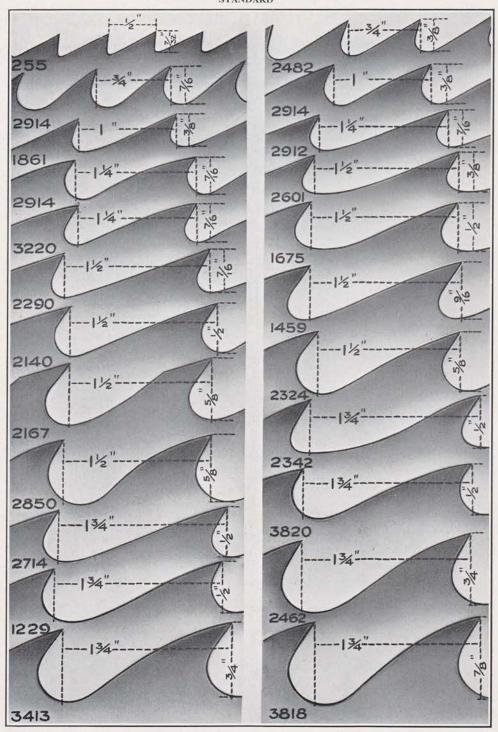
REVISED TABLE OF STRAINS SUITED TO DIFFERENT WIDTHS OF BAND SAW BLADES

Width	Thic	kness	Donnels Steele	Width	Thic	kness	Pounds Strain
Inches	Gauge	Inches	- Pounds Strain	Inches	Gauge	Inches	- Pounds Strain
2	20	.035	700	10	15	.072	7200
21/2	20	.035	900	11	15	.072	8000
3	20	.035	1150	12	14	.033	10000
4	20	.035	1400	13	14	.083	10800
5	19	.042	2100	14	14	.083	11500
6	18	.049	2750	15	13	.095	13500
7	17	.058	4050	16	13	.095	15000
8	17	.058	4650	17	12	.109	18000
9	16	.065	5850	18	12	.109	19000

A good rule to follow in determining the correct strain for a band saw is ten pounds to each inch in width multiplied by number of thousandths in thickness.

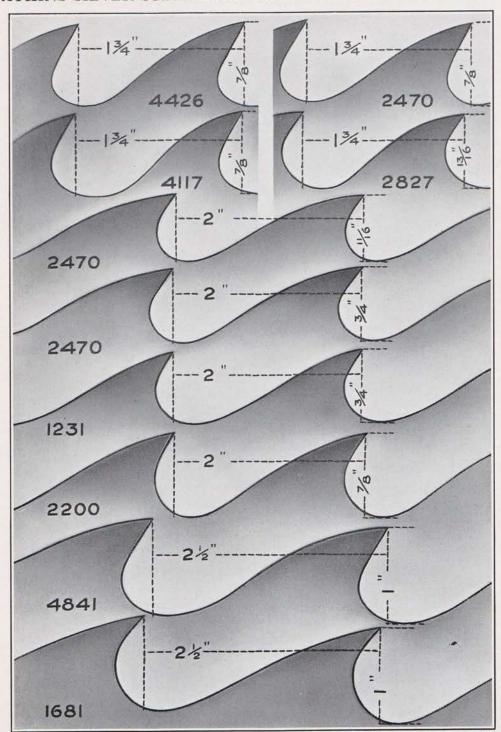


ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH STANDARD



If any of the patterns shown above are desired, kindly refer to "number" designating style of tooth.

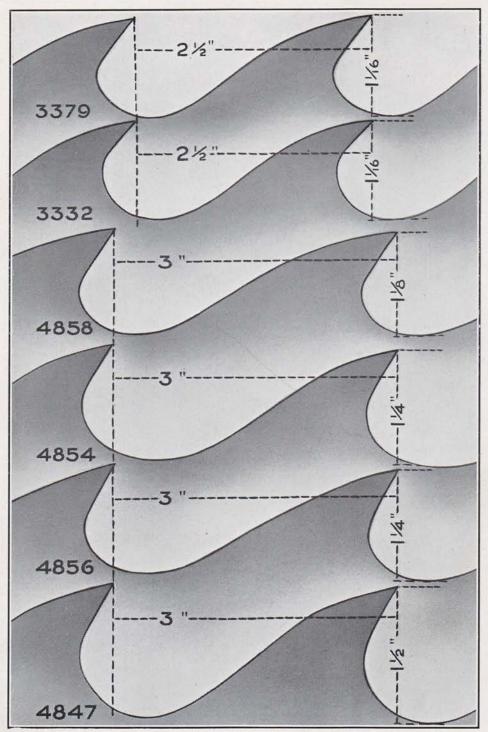
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



If any of the patterns shown above are desired, kindly refer to "number" designating style of tooth.



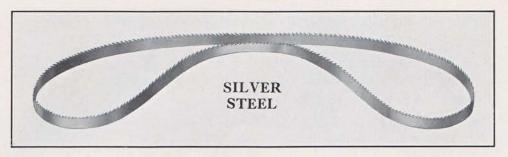
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



If any of the patterns shown above are desired, kindly refer to "number" designating style of tooth.

ATKINS BAND SAWS

NARROW



FOR RE-SAWING AND SCROLL SAWING

Our Narrow Band Saws are made with the same care and precision as our Wide Bands. We use "Silver Steel" and in all respects they are of equal quality. If you have not used our Narrow Bands we believe that a trial will convince you that they are the "Finest on Earth."

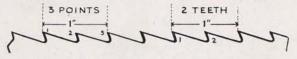
Width Inches	Standard Gauge	Standard Points per Inch	Approx. Weight (lbs.) per 100 Feet	Price per Foot	Width Inches	Standard Gauge	Standard Points per Inch	Approx. Weight (lbs.) per 100 Feet	Price per Foo
1/8 3 16	23	8	1.05	\$0.13	7/8	21	4	9.39	\$0.20
16	23 22	7	1.57 2.35	.13	1	20	31/2	11.75	.22
3/8	22	51/2	3.52	.13	1½ 1¼	20 20	$\frac{3\frac{1}{2}}{3\frac{1}{2}}$	13.16 14.71	.24
1/2	21	5	5.36	.15	13%	20	3	16.08	.26
5/8 3/4	21 21	41/2	6.70	.16	11/2	20	3	17.63	.32
3/4	21	4	8.05	.18	13/4	20	3	20.57	.38

Above prices cover saws filed and set, ready for use, not brazed.

If not filed and set, deduct 4c per foot.

Narrow band saws with beveled backs, advance list 50 per cent for first gauge and 10 per cent for each additional gauge.

For bands with knife edge, add 10 cents per foot to list. We make a specialty of band saws in coils, any length desired. Standard length, 250 feet.



POINTS OR TEETH

The illustration herewith shows clearly the difference between "points per inch" and "teeth per inch." When ordering Narrow Band Saws always specify the number of points per inch. There is always one more point per inch than there are teeth.

BRAZING

Width of Saw	Per Braze	Width of Saw Pe	er Braze
1/4 to 1/2 inch each	\$0.50	1 to 1¼ inch each 13% to 1¾ inch each	\$0.70
5/8 to 1/8 inch each	.60		,80

SPECIAL BAND SAWS

Band Saws for cutting bone, ivory, fibre, meat, brass and soft metals; also "B" tooth metal band saws for cutting thin metals as above and thin iron and steel such as sheeting, etc., increase narrow band list above 25 per cent.

Standard length of coils of narrow Band Saws, 250 feet.

For Metal Bands, see pages 139, 140.

REPAIRING

We make a specialty of all kinds of repair work. This branch of our business has assumed large proportions.

With improved machinery and appliances, expert workmen, careful attention to details and prompt return of work, we are prepared to guarantee the best service and perfect satisfaction.

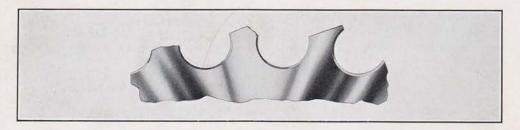
We have established fully equipped Repair Departments at our main plant in Indianapolis, at our Canadian factory, Hamilton, Ont., also in connection with our branch houses at Memphis, Atlanta, New Orleans, Minneapolis, Portland, Seattle and Vancouver, B. C.

At each of these points, we have selected experts direct from our factory and have installed facilities for doing all classes of repair work to the best possible advantage. At Indianapolis, Memphis and Portland, we are prepared to re-steel cylinder saws. Special attention is given to re-fitting segment veneer saws.

In forwarding saws for repair, you will facilitate matters by adhering closely to the following instructions:

- (1) Mark our name and address plainly on the package.
- (2) See that your name, postoffice address and shipping address, if different, is plainly marked on the outside of the package for identification.
- (3) Advise us by mail of shipment, giving full instructions as to the work which you wish to have done.

Did You Ever Have a Chisel Bit Saw Break Like This?



Don't throw it away. Don't cut it down. Send it on to us; we'll fix it "good as new;" won't cost much, either.

Breakage in repairing is at owner's risk.

Full information as to the cost of repairing saws will be found on pages 63 and 64.

Our book, "Saws in the Filing Room." may be had on application.

ATKINS SILVER

STEEL SAW

PRICE LIST FOR REPAIRING SOLID TOOTH CIRCULAR SAWS



Diameter	Hammering	Gumming and	Cutting Down Re-toothing	Grinding First	Grinding Additional	Setting and	Sharpening
Inches	Only	Hammering	and Hammering	Gauge	Gauges per Gauge	Cut-off Saws	Rip Saws
6	\$0.45	\$0.55	\$0.75	\$0.65	\$0.35	\$0.45	\$0.35
8	.55	.75	1.00	.85	.55	.55	.40
10	.75	1.00	1.30	1.05	.75	.65	.50
12	.90	1.35	1.60	1.15	.85	.75	.60
14	1.05	1.60	1.90	1.35	1.00	.85	.70
16	1.20	1.80	2.20	1.60	1.15	.95	.80
18	1.45	2.10	2.55	1.95	1.30	1.05	.90
20	1.65	2.50	2.95	2.20	1.45	1.15	1.00
22	1.90	2.85	3.30	2.40	1.60	1.30	1 10
24	2.10	3.25	3.70	2.70	1.75	1.45	1.20
26	2.40	3.70	4.20	3.00	1.90	1.60	1.30
28	2.70	4.15	4.75	3.40	2 05	1.75	1.40
30	3.00	4.60	5.35	3.75	2.20	1.95	1.50
32	3.30	5.05	6.00	4.15	2.20 2.35	2.15	1.60
34	3.70	5.55	6,90	4.50	2.55	2.35	1.75
36	4.30	6.15	7.80	4.90	2.80	2.55	1.90
38	4.80	7.00	9.00	5.25	3.00	2.75	2.05
40	5.55	8.05	10.20	5.65	3.30	2.95	2.20
42	6.30	9.15	11.55	6.00	3.60	3.15	2.35
44	7.05	10.35	13.05	6.45	4.05	3.35	2.50
46	7.95	11.80	14.70	7.00	4.50	3.60	2.65
48	8.85	13.20	16.50	7.60	4.95	3,80	2.85
50	9.75	14.65	18.40	8.25	5.40	4.10	3.05
52	10.65	16.05	20.25	9.00	5.95	4.40	3.25
54	11.55	17.55	22.15	9.90	6,30	4.70	3.50
	12.45	19.05	24.00	10.90	6.75	5.00	3.75
56 58	13.50	20.70	25.90	12.00	7.20	5.30	4.00
	14.70	22.50	27.75	13.20	7.75	5.60	4.25
60		24.30	30,40	14.40	8.25	6.00	4.50
62	15.90	26.10	33.00	15.60	8.85	6.30	4.75
64	17.10		35.65	16.80	9.45	6.60	5.00
66	18.30	27.90	38.25		10.15	6.90	5.25
68	19.50	29.70	40,90	18.00 19.50	11.05	7.20	5.50
70	20.50	31.50			12.00	7.50	5.75
72 74	21.90	33.30	43.50	21.00 22.50	13.15	7.80	6.00
74	23.10	35.10	46.15	22.50	19.19	4.00	0.00

Saws smaller than 6 inch, take 6 inch price. Saws of odd diameters take price of next larger size. Converting solid tooth saws into inserted tooth saws, use half the list price of the same

sized finished solid tooth saw, plus \$2.00 per tooth.

For converting solid tooth saws into Inserted Tooth Cut-off Saws, charge is \$1.65 per tooth, plus one-half the list price of a solid tooth saw of the same size. The price is based on the size the saw will finish after cutting down. Repairing burned solid tooth saws, two-thirds the price of a new saw of the same diameter. Repairing burned inserted tooth saws, two-thirds the price of a new solid tooth saw of the same diameter, plus 30c per socket; adding current price for any bits and shanks inserted. No extras furnished. In sending saws for repairs be sure to mark the case to show the name of the shipper, and write us so we can identify them when they come in.

PRICES FOR REPAIRING TAPER GROUND SHINGLE, SEGMENT VENEER, HEADING, RE-SAWS, BANDS, CROSSCUTS, DRAG AND EQUAL WIDTH SAWS

LIST FOR CIRCULAR SAWS

Sizeinches	46 and under	48 and over
Hammeredper inch in diameter	\$0.20	\$0.25
Gummed and hammeredper inch in diameter	.28	.38
Re-toothed and hammered per inch in diameter	.38	.50
Grinding first gauge per inch in diameter	.08	.10
Grinding additional gauges per inch in diameter	.05	.08

REPAIRING BURNED SAWS

The temper of burned saws can generally be restored. We make a specialty of this class of work, and rarely fail to make such saws as good as new. We undertake the work at the owner's risk, though no charge will be made by us in case of failure. Please prepay freight on all such saws. For price, see footnote page 63.

REPAIRING SEGMENT VENEER SAWS

Per Foot in Diameter	Per Foot in Diameter
Grinding first and second gauge\$1.25	Hammering \$3.25
Grinding each additional gauge	Retoothing and hammering 4.25

REPAIRING LONG SAWS

MILL MULAY AND EQUAL WIDTH DRAG SAWS

Length	Over 5
Re-toothing and hammering each \$2.25 Hammering only each 1.50	\$3.00 2.25
TAPER DRAG SAWS	
Re-toothing, hammering and filing each Hammering only each Setting and sharpening only each Re-toothing and hammering only each	1.50
CROSSCUT SAWS	
Hammering each Gumming and hammering each Gumming, hammering, filing and setting each Re-toothing, hammering, filing and setting each Setting and sharpening only each Skimming and polishing each	1.50 2.25 3.00 1.05
BAND SAW BLADES	
Brazing wide blade for log mill per inch in width Hammering per inch in width Gumming and toothing per running foot Filing and swaging per running foot	\$0.75 .07½ .12 .12
NARROW BAND SAWS	
$\begin{array}{lll} \text{Filing and setting} & \text{per foot} \\ \text{Brazing} & \frac{1}{4} & \text{inch to} & \frac{1}{2} & \text{inch} & \text{per braze} \\ \text{Brazing} & \frac{1}{5} & \text{inch to} & \frac{1}{2} & \text{inch} & \text{per braze} \\ \text{Brazing} & 1 & \text{inch to} & \frac{1}{4} & \text{inch} & \text{per braze} \\ \text{Brazing} & 1 & \frac{1}{3} & \text{inch to} & \frac{1}{2} & \text{inch} & \text{per braze} \\ \text{Brazing} & 1 & \frac{1}{3} & \text{inch} & \text{per braze} \\ \text{Brazing} & 1 & \frac{1}{3} & \text{inch} & \text{per braze} \\ \end{array}$	\$0.90 1.13 1.35 1.80

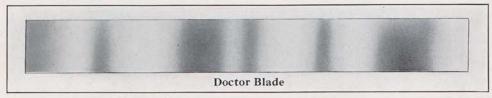
TURNING OR CHAIR WEBS

						Numb	er of P	oints to th	ne Inch		
Length Inches	Gauge	Price per Dozen	Width Inches	16	1/4	3,	1/2	5/8	3/4	3/8	1
6	23	\$2.40	15 to 1/4	10	9	71/2	7				
6 7	22	2.50	3 to 1/4	10	9	73/2	7				
8	22	2.60	1 to 14	10	9	71/2	7	9.00 C T T T T	*****		SCHOOL ST
10 12 14	22	2.80	表 to ¼ 表 to ¼	10	9	732	7				
12	21	3.00	3 to 16	10	9	73/2	7				100000
14	21	3.20	3 to 3	10	8	71/2	7				
16	20	3.60	14 to 3/8	10	8	734	7				
18	20	4.00	1/4 to 1/2	10	8	73/2	7	++5334++	11111111	******	11.11.11.1
20	20	4.50	1/4 to 3/8	10	8	73/2	7	61/2			
22	20	5.00	1/4 to 5/8		8	73%	7	61/2	- 6	51/2	****
24	19	5.60	1/4 to 3/4		8	73/2	7	63/2	6	51/2	
18 20 22 24 26 28 30 32	19	6.20	34 to 34		8	73/2	7	61/2	6	51/2	****
28	19	6.90	1/4 to 7/8	********	8	71/2	7	61/2	6	51/2	5
30	19	7.60	14 to 1		8	732	7	61/2	6	51/2	5
32	18	8.40	14 to 1		8	73/2	7	61/2	6	51/2 51/2 51/2 51/2	5
34 36	18	9.20	1/4 to 1		8	73/2	7	61/2	6	51/2	5
36	18	10.00	1/4 to 1	10.51000	8	71/2	7	61/2	6	51/2	5

One gauge heavier than above list, no extra charge.

When blades are furnished two gauges or more heavier than list, Felloe Web prices (page 54) will be charged. Extra width, 10% additional for each $\frac{1}{2}$ inch.

DOCTOR BLADES

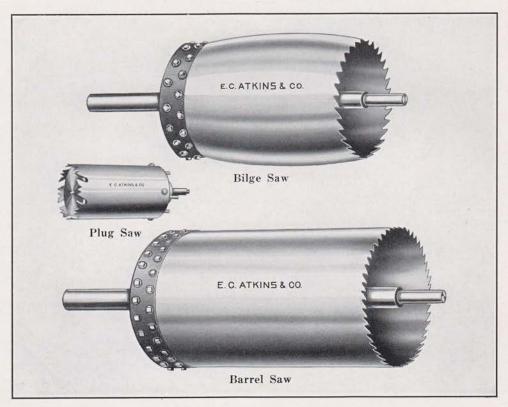


	per dozen
33 inches x 2½ inches x 19 to 24 gauge	\$10.10
36 inches x 2½ inches x 19 to 24 gauge	11.25
42 inches x 2½ inches x 19 to 24 gauge	
44 inches x 2½ inches x 19 to 24 gauge	
46 inches x 2½ inches x 19 to 24 gauge	14.25
48 inches x 2½ inches x 19 to 24 gauge	
For additional inch in length, 5% extra.	
33 inches x 3 inches x 19 to 24 gauge	\$11.65
36 inches x 3 inches x 19 to 24 gauge	
42 inches x 3 inches x 19 to 24 gauge.	
44 inches x 3 inches x 19 to 24 gauge	
46 inches x 3 inches x 19 to 24 gauge.	
48 inches x 3 inches x 19 to 24 gauge.	
For additional inch in length, 5% extra.	*
33 inches x 3½ inches x 19 to 24 gauge	\$13.10
36 inches x 3½ inches x 19 to 24 gauge	14.25
42 inches x 3½ inches x 19 to 24 gauge	16.50
44 inches x 3½ inches x 19 to 24 gauge	
46 inches x 3½ inches x 19 to 24 gauge	
48 inches x 3½ inches x 19 to 24 gauge	
P 1 112 1 1 1 77	

For each additional inch in length, 5% extra. For each gauge heavier, 5% extra.

ATKINS BILGE AND BARREL STAVE SAWS

SILVER STEEL



We manufacture Plug, Barrel and Bilge Saws according to specifications, for use on any and all types and makes of stave and other machines. In view of the fact that there is such a wide variation in the saws used on the different makes of machines, it is impractical to list them. We will, therefore, be pleased to supply detailed information and quotations upon request.

Atkins Plug, Barrel and Bilge Saws are made of unusually heavy gauge which more than doubles the strength and life of the saw. The standard for 24 to 26 inches is 12 and 11 gauge. They are balanced perfectly without counterweights.

Atkins Bilge Saws are finished the same gauge throughout. This is an important feature as the ordinary bilge saw with the usual methods of manufacture becomes thinner at its widest diameter.

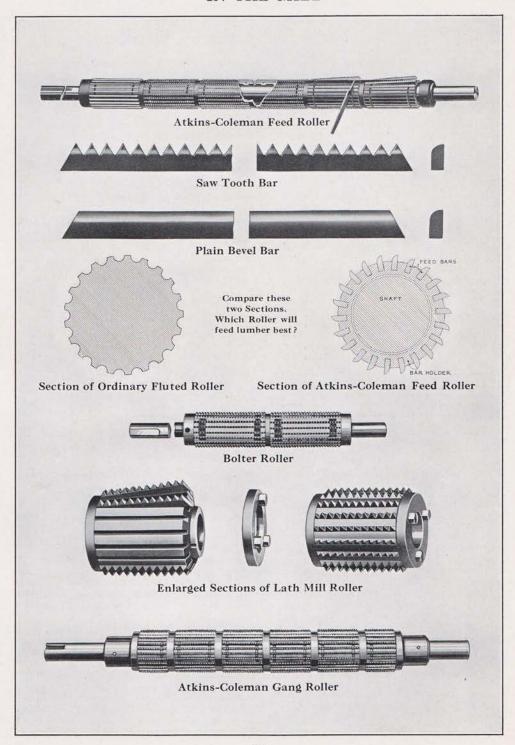
In ordering Plug, Barrel or Bilge Saws, give the name of the machine in use, the length between journals, the size of journal, the diameter, gauge of steel, and state if special tooth is desired.

Saws made to order. Prices quoted on receipt of specifications.

Price for re-steeling includes all ordinary truing and balancing.

We manufacture Cylinder Saws complete, comprising cylinder, steel, head and arbor. Every saw fully warranted. Prices quoted on application. We have facilities for re-steeling and repairing Cylinder and Bilge Saws of all makes and we solicit your work, which we will turn out promptly at any of the following cities: Indianapolis, Memphis, Tenn., Portland, Ore.

A MONEY SAVER FOR EVERY SELF-FEEDING MACHINE IN THE MILL



ATKINS-COLEMAN LATH-MILL ROLLERS

Lgth. of	DIAMETER OF BODY—INCHES														
Body Inches	21/2	234	3	31/4	31/2	31/4	4	434	41/2	434	5	51/4	51/2	534	6
2	18.80	24.45	30.05	30.55	30.95	31.45	31.85	33.75	35.60	37.60	39.55	40.65	41.75	43.05	44.15
4	19.25	24.80	30.45	31.45	32.40	33.35	34.35	36.15	38.65	40.50	42.55	43.85	45.25	46.45	47.73
5										43.35					
6	20.00	25.60	31.15	33.15	35.20	37.20	39.25	41.05	44.65	46.40	48.75	50.25	51.65	53.25	54.80
8	20.35	25.95	31.55	34.05	36.65	39.15	41.65	43.35	47.60	49.25	51.85	53.45	54.85	56.75	58.33
10	20.65	26.35	31.75	34.85	38.00	41.15	44.15	45.75	50.55	52.35	54.85	56.65	58.15	60.15	61.83
12	21.15	26.65	32.35	35.75	39.45	43.05	46.65	48.25	53.60	55.20	58.05	59.85	61.55	63.60	65.45
14										58.05					
16	21.85	27.25	32.85	37.55	42.15	46.80	51.45	52.95	59.60	61.25	64.25	66.25	68.00	70.45	72.43
18	22.15	27.85	33.20	38.40	43.55	48.75	53.95	55.45	62.45	64.00	67.25	69.45	71.55	73.95	76.00
20	22.55	28.15	33.55	39.25	44.95	50.75	56.45	57.85	65.55	66.85	70.40	72.65	74.55	77.40	79.5
22	23.05	28.55	33.95	40.35	46.25	54.35	58.95	62.65	66.25	69.95	73.65	76.00	78.40	80.80	83.13

Lath-mill rollers and bolter rollers measuring more than 22 inches between the shoulders take the same price as edger rollers. Extra insertable saw tooth bars, 20c each.

SHAFT EXTENSIONS

(Total Both Ends)

TO ESTIMATE SHIPPING WEIGHT

		Diameter,												Inches												Price, per Inch	
7	1				4			-	4	100			4		-		4		9	6					9		\$0.07
11	1	6	0		2			Ď.	4					10	22	v	-					43			9		.08
15		3			ä		·									2											.09
3	007																4	2	d				S		2	8	.12
7	00	090	183		(C)						*					0							Į,	Ş	6	Į.	.16
11															W)	130			ä	ï	301						.19
15																				Ĵ						Ď	.21
3	e A	15					15	í	Ž.			100	ed)			e e	9			10	ď.						.28
7																											.29

Si	zes not	listed	take same	price a	s next	size	larger.

Diameter body measurement over teeth.

Diam. Body Inches	Weight per Ft., Lbs.	Diam. Shaft Ext. Inches	Weight per Ft., Lbs.
21/2	16	1 7 16	91/2
23/4	19	111	12
23/ ₄	22	115	16
31/4	26	$2\frac{3}{16}$	19
31/2	30	$2\frac{7}{16}$	23
334	351/9	211	261/6
4	40	215	301/2
41/	45	$\frac{-\frac{16}{3}}{\frac{3}{16}}$	3416
41%	51	3 7 16	391/2
434	561/2		
5	631/2		*******
51/4	70		
51/2	761/2		11010111111
534	841/2		11111111111
6	911/5	CONTRACTOR OF THE PARTY OF THE	

ATKINS-COLEMAN FEED ROLLERS

The Atkins-Coleman Feed Roller is composed of sections called bar holders and smaller sections called spacing collars; bar holders being externally beveled thirty degrees on the face, spacing collars internally beveled thirty degrees and placed end to end on a heavy shaft of high-grade cold rolled steel. At one end of the roller body the bar holder rests against a stationary nut, also internally beveled thirty degrees, into which it is tightly forced by a Spanner jam nut placed at the other end of the roller body. The bar holders are grooved lengthwise for the reception of the insertable feed bars, either saw tooth or plain. The internal bevel on the spacing collars and the stationary and jam nuts hold these bars as firmly in place as though a part of the roller body, yet they are not a part of it in any sense. They are the elements which engage and feed the lumber and can be removed instantly and replaced with new ones, merely by slackening the jam nut and sliding the bar holders far enough apart (about ¼ inch) to release the bevel at one end of the bars from the spacing collars.

This roller will last a lifetime. When dull or worn it can be replaced by the edgerman at noon or any convenient time, with new bars without removing the roller from the edger, simply by removing in sections the worn feed bars and inserting sharp ones.

It eliminates crooked lines. A feed roller wears most, of course, where it does the most work. With board or cant feeding over a worn roller, the edge running on the worn side of the feed roller travels slower than the edge running over the sharp part. The result is crooked lines and several feet of lumber to be trimmed off each board thus edged, which means waste.

The Atkins-Coleman Feed Roller raises the grade of the lumber edged. The grades of a large proportion of its output are in the hands of the edgerman alone and depend on his skill and speed and largely on the efficiency of his equipment. With the Atkins-Coleman Feed Roller presenting sharp, efficient rollers to the lumber, the edgerman can forget his roller and give all his attention to improving the grades.

ATKINS-COLEMAN EDGER ROLLERS

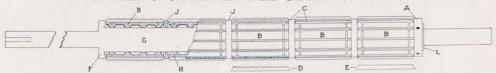


Diagram of Atkins-Coleman Edger Roller, Showing Construction and Names of Parts

A—Spanner jam nut. BBB—Bar holders. C—Bars in place. D—Saw-tooth bar. E—Plaia bar. F—Stationary collar. G—Shaft. H—Circumferential grooves to permit getting tool under bars. JJ—Spacing collars which separate bar holders and hold bars in place. L—Washer.

Add price shaft extensions to price of body.

Length of Body, Inches						DI	AMETI	ER OF	BODY-	-INCHE	es				
Le	21/2	234	3	31/4	31/2	3%	4	41/4	41/2	4%	5	514	51/2	5%	6
21	26.95	34.85	38.75	52.00	55.55	59.55	63.60	67.80	71.95		78.75	81.35	84.25	85.15	88.40
26	31.60	39.65	11.00	57.55	61.25	65.15		73.35	77.45	81.15	81.40		89.95	92.45	94.25
28	36.05	14.65	19.25	63.05	66.85	70.55		76.55	83.20	86.95	89.85	94.45	95.85		100.05
30	40.80	19.45	54.55	68.65	72.55	76.05	80.75	84.15	88.65	92.45	95.45		101.55		
32	45.45	54.35	59.85	74.05	78.35	81.75	86.40	89.95	94.25	98.25	100.95	104.15	107.45	109.55	111.65
34	50.05	59.25	65.15	79.75	83.95	87.20	92.25	95.35	99.85	103.85	106.45	110.95	113.25	115.25	117.45
36	54.65	64.15	70.40	85.75	89.75	93.65	97.75	101.75	105.65	109.65	112.75	115.60	118.85	120.85	123.55
38	59.25	69.05	75.65	89.25	93.05	98.25	102.95	107.05	111.05	114.75	116.80	122.40	124.05	126.00	128.55
40	63.45	72.80	80.95	92.85	96.35	102.75	107.05	112.35	116.45	119.65	122.75	125.60	129.25	131.20	133.55
42	000000		84.85	96.35	99.60	107.15	111.65	117.20	120.25	124.75	127.75	130.65	134.40	136.40	138,55
44	20110		87.95	99.85	102.95	111.65	116.25	122.35	127.35	129.75	132.80	135.65	139.45	141.45	143.60
46		the same of the same	90.95	103.25	106.25	116.15	120.85	127.55	132.80	134.70	138.00	140.75	144.65	146.65	148.65
48										139.65					
50			Village Control							141.35					
52										143.15					
54		111111111	0.70000000							145.15					
56	* t t t t	****	11111							147.25					
58	(A) (C) (C)									149.55					
60										151.95					
62										154.45					
64										157.05					
66		2.23.33								159.65					
68	****									162.25					
70			F 4 T B B							165.25					
	11777						140.05 141.35					173.60			
72			11212 212									176.05			
78						****			155.85	171.20	170.671	101.15	111.00	104.95	195.65
84	****	10.550	5/5/5/1/20	1.55555	*****	55.55555	100000	155557	157.35	174.55	179.00	101.15	101.40	107.55	199.80
90			****			10000		*****				182.45			
96	****				* * * * * *						187.95	186.55	186.00	189.25	208.20
108		6444		8888	C0060				*****		192.05	191.80	189.05	192.05	212.85

Extra insertable saw tooth bars, 20c each. Extra insertable plain, 20c each.

SHAFT EXTENSIONS

(Total Both Ends)

							D	i	u	n	et	e	r,	1	In	ic	h	es							Price, per Inch
1 -7		d				9	,		Ų		ç			Į	ļ	0		33						8	\$0.07
Į.	į					30			-						Ĩ.	3	50		00	 iie		ï	30		.08
1	5				(10	200		ii)				100						600		۰	Ĭ	3.	ů		.09
3	Ů,		- 55	37							9		3												.12
7	6					2						ĵ		î		-			î						.16
1	1																								.19
i	5																								.21
3																									.28
7																									.29

Sizes not listed take same price as next size larger.

Diameter body measurement over teeth.

TO ESTIMATE SHIPPING WEIGHT

Diam. Body Inches	Weight per Ft., Lbs.	Diam. Shaft Ext. Inches										Weight per Ft., Lbs.									
2½ 2¾ 3 3 3¼ 3½	16 19 22 26 30				1111		7 16 15 16 3 16 7	the description has							11112	69	1	2			
3 ½ 3 ¾ 4 4 1¼ 4 1½	35½ 40 45 51					3	16116	the distance in the							223333	601	1/1/1/1/	12/2/2/2			
43/4	561/2	45								435		÷	8	•					ě.		9
5	63½	33		Ž.		×	¥.	¥.		s(i			K		0	¥	33			*	÷
51/4	70							+					4	¥.		*1	2			(a)	
51/2	761/2	2	ě	7	ĭ		÷	7	ü	ă l			è	í,	ě		V.	ď	¥.	9	è
$5\frac{3}{4}$	841/2	15		7									4			90				0	10
6	911/6								,	2	u						V				

ATKINS TOOLS

For the Filing Room



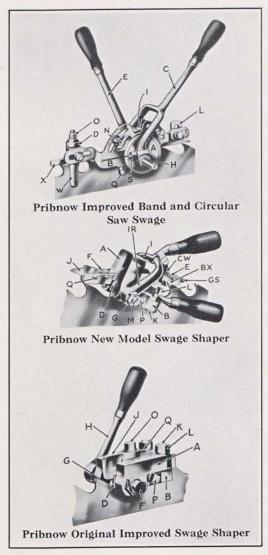
THE PRIBNOW IMPROVED SWAGE; THE PRIBNOW NEW MODEL AND ORIGINAL IMPROVED SWAGE SHAPERS

These tools have embodied in their make-up the combined efforts of over thirty years of practical experience by the inventor, J. F. Pribnow, a Saw Filer and Manufacturer of Saw Fitting Tools, including many valuable suggestions contributed by practical filers, which have been of great assistance in bringing these tools up to the highest standard.

The first Pribnow Shaper was made in 1890, since which time the advantages obtained by compression instead of side-dressing swaged saw teeth have been generally recognized. When this has not been the case it is largely due to the fact that the Swage did not work in harmony with the Shaper.

THE PRIBNOW NEW MODEL SWAGE SHAPER

The Pribnow Improved Swage functions perfectly with the Pribnow New Model Shaper, and all the objectionable features and difficulties which have been found in the operation of inferior Swages and Shapers have been so thoroughly overcome that we sincerely believe that the latest Models of both Swage and Shaper will prove to be great favorites in filing rooms and eventually become the standard tools for fitting all kinds of mill saws.



THE PRIBNOW ORIGINAL IMPROVED SWAGE SHAPER

This is the original style of Pribnow Shaper improved. It does not contain the latest improvements like the New Model listed above but it is a satisfactory tool for those desiring a simple and less expensive one.

We claim the most scientific and perfect adjustments and the greatest simplicity of action combined with strength and durability.

ATKINS SILVER STEEL SAWS

THE PRIBNOW IMPROVED SWAGE FOR BAND, GANG AND CIRCULAR SAWS

WITH OVAL DIE AND ECCENTRIC BUSHINGS

No.	Gauge	Size of Die Inches	Weight	List Price	No.	Gauge	Size of Die Inches	Weight	List Price
16 26 17 *27G 18	8 to 13 12 to 14 13 to 15 13 to 15 14 to 16	7/8 3/4 5/8 21 339 64	14½ 10 9 9 8	\$73.25 66.50 62.75 62.75 58.75	*18G 19 *19G 20 22	14 to 16 16 to 18 16 to 18 17 to 20 19 to 22	39 647 1322 1321 364 234	8 7 7 5 4	\$58.73 54.73 54.73 50.73 48.00
		W	TH SO	LID DIE	AND BE	ARINGS			
17S *27GS 18S *18GS	12 to 14 12 to 14 13 to 16 13 to 16	$\begin{array}{c} \frac{23}{32} \\ 3\frac{1}{4} \\ \frac{11}{16} \\ \frac{11}{16} \end{array}$	9 9 8 8	\$59.25 59.25 55.25 55.25	19S *19GS 20S 22S	14 to 17 14 to 17 16 to 19 18 to 20	19 32	7 7 5 4	\$51.2 51.2 47.2 45.0

*Gang Saw Swages are equipped with a short frame which permits swaging the top and bottom teeth closer to the tab. It also permits swaging short or damaged teeth to better advantage than with the regular Band Saw Swage.

THE PRIBNOW NEW MODEL SWAGE SHAPER FOR BAND, GANG, CIRCULAR AND CYLINDER SAWS

SINGLE LEVER STYLE

No.	Gauge	Weight	List Price
31	5 to 10	10	\$50.75
32GH	10 to 13	7	48.00
32G	14 to 17	10 7 7 7 5	48.00
32CY	11 to 18	7	48.00
33	18 to 22	5	42.75
SIN	NGLE LEVER STYLE	WITH BENCH BRAC	KET
31CB	5 to 10	13	56.00
32CB	10 to 17	10	53.25
	DOUBLE LE	EVER STYLE	
31D	5 to 10	11	56.00
32D	11 to 14	8	53.25
32GHD	10 to 13	8	53.25
32GD	14 to 17	8	53.25
33D	15 to 22	11 8 8 8 8 5½	46.75
DO	UBLE LEVER STYLE	WITH BENCH BRAC	KET
31CBD	5 to 10	15	61.25
32GHBD	10 to 13	11	58.75

THE ORIGINAL PRIBNOW SWAGE SHAPER IMPROVED FOR BAND AND GANG SAWS

No.	Gauge	Weight	List Price
A 1	12 to 16	5	\$40.00
A2	17 to 24	21/4	36.75
A3	11 to 14	6	43.25

THE PRIBNOW NEW MODEL CYLINDER SAW SWAGE

WITH OVAL DIE AND ECCENTRIC BUSHINGS

No.	Gauge	Size of Die Inches	Weight	List Price
18C	14 to 16	3.9 6.4 9	8	\$58.75
19C	16 to 18	9 16	7	54.75

WITH SOLID DIE AND BEARINGS

18CS	13 to 14	11 16	8	\$55.25
19CS	14 to 16	19	7	51.25

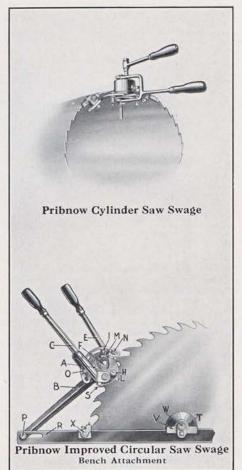
This style of Swage is the same as the regular Band Saw Swage, with the exception that it has a curved Frame and an open Front Fork, which permits the Swage to be used on Cylinder Saws from 16 inches to 30 inches in diameter.

It has proved to be the most convenient and perfect working Cylinder Saw Swage devised; in other words, this Swage has been built for Cylinder Saws exclusively, and should be used on saws of this type in preference to the Band Saw Swage.

THE PRIBNOW NEW MODEL CIRCULAR SAW SWAGE

BENCH ATTACHMENT STYLE

WITH OVAL DIE AND ECCENTRIC BUSHINGS



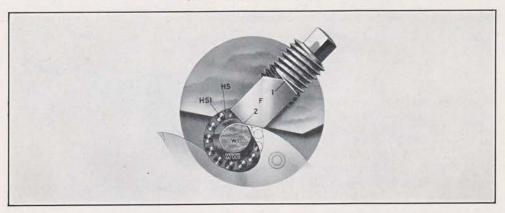
No.	Gauge	Size of Die Inches	Weight	List Price
1B	5 to 10	7/8	20	\$73.25
2B	8 to 12	3/4	15	66.75
3B	12 to 16	5/8	10	62.75
4B	16 to 20	32	6	54.75

Bench Attachment—Extra\$9	25
Jointer—Extra	.25
Special Cones to Fit Edger Saw Collars. 6	.75

This style of Swage is adapted to work in connection with the Pribnow Bench Attachment, as shown in cut. Note the Swage is mounted at the end of the Bench Attachment, which affords greater convenience for the operator, and the saw is adjusted in relation to the Swage. Repair parts listed on page 77.

THE PRIBNOW ROLLER-BEARING SWAGE 1921 MODEL

(PATENTED JUNE 28, 1921)



A NEW DEPARTURE

The Roller-Bearing feature embodied in the Pribnow Swage for heavy duty work has greatly increased the efficiency of the swage. The Roller-Bearing, as shown in the cut, is placed between the eccentric Die Bushing and the Block. As the Die revolves forward under pressure the Rollers (HSI) travel with the Die Bearing. The Cage (HS) is loosely mounted so as to travel with the Rollers and hold them in place. The Rollers travel forward more when under pressure than they do on the reverse stroke of the Die Lever; so all the Rollers come under pressure simultaneously, which insures an even wear on all the Rollers.

The openings in the Block for the Roller-Bearing and Clamp Screws are hardened to prevent wear. An inspection of a Roller-Bearing Swage which has been in constant use in our factory for nearly two years showed wear of less than two-thousandths of an inch on the Roller and about the same amount of wear on the Eccentric Bushings and the openings in the Block. This is less than one-fourth of the wear in Solid Die Swages under the same conditions.

The friction on the Die Bearing is greatly reduced, which permits the Die to act with great precision, thus producing the strongest possible working corner and with much less energy than is required to operate any other Swage.

The Die used in the Roller-Bearing Heavy Duty Swage has two or four working corners running from end to end. The Die is mounted in a pair of eccentric Bushings so that the working edge in use has a perfect clearance and with no dead drag over the finished part of tooth.

It is a well-known fact that a large Die, while it puts up the strongest working corner, is hard to operate; and especially when a larger sleeve (revolving with the Die) is used, the friction is even greater. This obstacle is entirely overcome by the Roller-Bearing. The eccentric Sleeve provides a bearing for the Rollers and permits the use of a Die from end to end and one that has the most perfect working shape.

The Roller-Bearing feature applies to the larger sizes only; the smaller sizes are furnished with the Oval Die and Bushing or with the old style solid Die, as may be preferred.

The Roller-Bearing feature does not add to the weight of the Swage, nor does it weaken the Swage Block, but it adds to the efficiency of the Swage. The saving effected in the wear of the Saw will alone pay the cost of the tool in a short time, in addition to the much greater ease of operation.

The Pribnow Roller-Bearing Swage for Band, Gang and Circular Saws

With Oval Die and Eccentric Bushings

No.	Gauge	Size of Die	Weight, lbs.	List Price
16-RB	8 to 13	7/8"	141/2	\$100.00
26-RB 26G-RB	10 to 14 10 to 14	34"	10	90.00
27-RB	13 to 15	5/8"	9 2	86.75
*27G-RB	13 to 15	5/8"	9	86.75

*Gang Saw Swages are equipped with a short frame which permits swaging the top and bottom teeth closer to the tab. It also permits swaging short or damaged teeth to better advantage than with the regular Band Saw Swage.

The Pribnow Roller-Bearing Circular Saw Swage—Bench Attachment Style

With Oval Die and Eccentric Bushings

No.	Gauge	Size of Die	Weight, lbs.	List Price
1B-RB	5 to 10	7/8"	20	\$100.00 90.00
2B-RB 3B-RB	8 to 12 12 to 16	5/8"	15 10	90.00

Bench Attachment—Extra	\$9.25
Jointer-Extra	3.25



SELECT DIES AND BUSHINGS FOR PRIBNOW SWAGES FROM THIS LIST

	OVAL DIES	AND BUSHINGS			SOLID DIES	
D	Dies	Bus	hings	1		
Dies Marked	Working Diameter Inches	Medium Eccentric Marked	Deep Eccentric Marked	Working Diameter Inches	Medium Eccentric Marked	Deep Eccentri Marked
	-	1	FOR No. 1B SW	AGE		
W1 W3 V1 V2	7/8 13 16 17/8 13 16	W1 W3 V1 V2	WW1 WW3 VU1 VU2			
			FOR No. 2B SW	AGE	1	
W3 W5 V2 V3	10 3/4 13 16 3/4	W3 W5 V2 V3	WW3 WW5 VU2 VU3			
		1	FOR No. 3B SW	AGE		
U1 U4 V4 V5	64 5/8 11 16 5/8	V4 V5	UU1 UU4 VU4 VU5			
		1	OR No. 4B SW	AGE		
V6 V7 V8	76 1/2 3/8	V6 V7 V8	VU6 VU7 VU8			
			FOR No. 16 SW.	AGE		
W1 W3 V1 V2	7/8 113 116 7/8 116	W1 W3 V1 V2	WW1 WW3 VU1 VU2			
		1	FOR No. 17 SW			
U4 V5	5/8 5/8	V5	UU4 VU5	23 32 5/8	D D1	DD DD1
			FOR No. 18 SW	AGE		
R1 R4 V6 V7	39 64 9 16 16 1/2	RRI RR4 V6 V7	RS1 RS4 VU6 VU7	**	D D1	DDI
		1	FOR No. 19 SW	AGE		
R6 R9 V7 V8	\$17 \$2 \$31 \$4 \$1/2 \$16	RR6 RR9 V7 V8	RS6 RS9 VU7 VU8	15 17 17 17 12 1/2	D D1 D2 D3	DD DD1 DD2 DD3
		1	OR No. 20 SW	AGE		
P4 O8 V8 V9	16 8/8 16 8/8	P4 O8 V8 V9	PP4 OP8 VU8 VU9	16 17 12 1/2 1/4	D D2 D3 D4	DD1 DD2 DD3 DD4
		1	OR No. 22 SW			
N1 N3 V9 V10	115 25 36 36 36	N1 N3 V9 V10	NN1 NN3 VU9 VU10	3/6 11	D5 D6	DD5 DD6
		1	FOR No. 26 SW	AGE		
T1 V3 V4	34 34 11	T1 V3 V4	TU1 VU3 VU4			
		I	OR No. 27 SWA	AGE		
U1 U4 V4 V5	##	V4 V5	UU1 UU4 VU4 VU5			

IMPORTANT

When ordering dies or bushings always give the number of the swage and markings as shown in the above list.

REPAIR PARTS FOR PRIBNOW SWAGES

FOR BAND, GANG AND CIRCULAR SAWS

LIST PRICES

FOR BAND, CIRCULAR, GANG AND CYLINDER SAWS

LIST PRICES

Stock Letter	Description	16	26	17	27	Stock Letter	Description	18	19	20	22
A	Block	\$24.00	\$22.75	\$21.25	\$21.25	A	Block	\$20.00	\$20.00	\$18.75	\$17.35
В	Guide Frame	10.75	9.25	8.00	8.00	B	Guide Frame	8.00	8.00		6.00
C	Die Lever (complete)	12.00	11.50		10.50	Č	Die Lever (complete)	9.50	9.50		8.00
D	Spring Fork Body	2.00	2.00	2.00	2.00	D	Spring Fork Body	1.75	1.75		1.23
E	Clamping Lever	100		2 -6	007660	E	Clamping Lever		170.000	7.17%	1,722,000
	(complete)	4.25	4.25		4.25		(complete)	4.00	4.00	3.50	3.25
F	Anvils, 1-2 or 3-4	2.60	2.60	2.60	2.60	*F	Anvils, 1-2 or 3-4	2.25	2.25		1.75
*G	Clamping Screw R. or	-	100000	10000		*G	Clamping Screw R.	100	-		
	L. Hand Thread	2.00	2.00	2.00	2.00		or L. Hand Thread.	1.75	1.75	1.25	1.25
*H	Stationary Clamping					*H	Stationary Clamping	100000	1000000	50000	SME
	Screw, R. or L.	1					Screw, R. or L.				
	Hand	1.25		1.25	1.25		Hand	1.25	1.25	1.00	1.00
1	Anvil Adjusting Screw	1.25	1.25		1.25	I	Anvil Adjusting Screw	1.25			
J	Anvil Set Screw	1.00	1.00	1.00	1.00	Ĵ	Anvil Set Screw	1.00			
K	Lock Nut for "H".	17793				K	Anvil Set Screw Lock Nut for "H,"	-	-		
	R. or L. Hand	,35	.35		.35		R. or L. Hand	.35	.35		
L	Rear Tooth Rest	1.25	1.25	1 25	1.25	L	Rear Tooth Rest	1.25			.75
LG	Rear Tooth Rest for					LG	Rear Tooth Rest for	-			
1900	Gang	22.64.63	00000	2.00	2.00	120000	Gang	2.00	2.00		111111
N	Die Lever Stop (com-		200 2000			N	Die Lever Stop		100	1000000	7-00000
	plete)	1.25	1.25	1.25	1.25	-	(complete)	1.25	1.25	1 00	1.00
NN	Nut for "N"	.50	.50	.50	.50	NN	Nut for "N"	.50			.35
0	Nut for Spring Fork	-		1 / / /		0	Nut for "N" Nut for Spring Fork	100000			10510
	"W"	.25	.25	.25	.25	570	"W"	.25	.25	.20	.20
P	Spring	.75	.75	.75	.75	P	Spring	.75			
Q	Bolt for Guide Frame			100	100	Q	Bolt for Guide	1000	0.00	1000	2.70
	"B"	.75	.75	.75	.75	4	Frame "B"	.75	.75	.50	.50
R	Bolt for Spring Fork	1000	1700	1 52	100	R	Bolt for Spring Fork	1	110	1000	
	"W"	.35	.35	.35	.35	- 60	"W"	.35	.35	.25	,25
S	Grip Bolt and Nut	7.000	1000		1000	S	Grin Rolt and Nut	1		1	10000
	for "C"	1.25				550	for "C"	1.25	1.25	1.00	1.00
SS	Nut for 'S'	.25	.25	.25	.25	SS	for "C"	.25			.25
T	Bolt for Bear Tooth	100	100	500	2.2	T	Bott for Bear Looth	0.555	3550	1000	2000
	Rest "L"	.35	.35	.35	.35		Rest "L"	.35	.35	.25	.25
U	Nut for "G," R. or L.		1 5	- 33	800	U	Rest "L" Nut for "G," R. or	107,500	10000	1,000	
	Hand	.35	.35	.35	.35		L. Hand	.35	.35	.25	.25
V	Nut for Rear Tooth		AAA CO			V	Nut for Rear Tooth		(8.00)	100.00	100000
	Rest "L"	.35			.35		Rest "L"	.35	.35	.20	.20
·W	Spring Fork	3.50	3.50	3.50	3.50	W	Spring Fork	2.75	2.75	2.50	2.50
X	Spring Fork Tooth	200	123	4	22	X	Spring Fork Tooth	100200	201200	2000	1,000
	Rest	.75	.75	.75	.75		Rest	.75	.75	.50	.50
Y	Washer for "R" and	1		100		Y	Rest. Washer for "R" and	1 1 1 1 1 1 1		10000	
	"T"	.15					The second second	.15	.15	.15	.15
Z	Washer for "N"	.15	.15	.15	.15	Z	Washer for "N"	.15	.15	.15	.15
AZ	Swivel Point Clamp-	0.000	1000	27.62	0.70	AZ	Swivel Point Clamp-	10000	100	20	
	ing Screw	2.50					ing Screw	2.00	2.00	1.50	
BY	Swivel Point only	1.25				BY	Swivel Point only	1.00	1.00	.75	
EV	Washer for "L"	.35				EV	Washer for "L"	.35	.35		
**OD	Oval Die	11.50	11.50	11.50	11.50	FU	Set Screw for "H"			+.35	
**BU	Oval Die Bushings	12,000,0	10000	12.00		**OD	Oval Die	9.75	9.75	8.75	7.25
	(2), per pair	7.25	6.75			**BU	Oval Die Bushings	1			1
**SD	Solid Die		555555	5.20	5.20		(2), per pair	5.50	5.50	4.00	
CX	Die Bearings (2), per					**SD	Solid Die	5.20	4.50	3.25	
-	pair					CX	Die Bearings (2), per	1	1 11000		1200000000
DW	Wrench	1.00	1.00	1.00	1.00		pair	2.75	2.00	2.00	
Dark	Dones Boundard f	D.11.	Don-!	nd Sm	ada	DW	Wrench	1.00	1.00	.75	.75
Extr	a Parts Required for	Koner	Deari	ng ow	age						
HS	Boller Bearing Care	1	1	1	1						
HS	Roller Bearing Cages	216.00	2110	1	\$12.00						
HSI	(2), per pair	\$10.00	\$14.00		VI2.00						
HOL	Roller Bearings (set),	00000			= 00						

IMPORTANT NOTICE

1.50

In order to save vexations, delays, and to avoid errors and misunderstandings of orders, we suggest that customers read the following before ordering swage parts or repairs for Pribnow Swages:

(1) When ordering repairs always give the number of the swage, also the stock letter and name of parts. The stock letter is stamped on each part.

*(2) When ordering clamping screws, state whether right or left hand thread is required, or if you can spare the old worn clamping screw, send it for a sample of the part needed.

**(3) Select dies and bushings from list page 75 of this catalog.

8.75

GT Washers (2), per pair

***(4) In ordering anvils for swages, always state whether 1-2 or 3-4 is required.

8.00 1.75

We have placed thousands of swages on the market during the past thirty years or more, and from year to year improvements in their mechanism have been made, thus you can see the reasonableness of the above suggestions. If they are followed explicitly there will be no errors or delays in furnishing you the parts.

REPAIR PARTS FOR PRIBNOW CIRCULAR SWAGES

BENCH ATTACHMENT PATTERN LIST PRICES

Stock Letter	Description	1B	2B	3B	4B
A	Block	\$24.00	\$20.00	\$18.75	\$17.50
В	Bracket (A one-piece guide)	8.00	7.50	6.75	6.00
C	Forked Die Lever (complete)	12,50	10.50	9.75	8.75
E	Clamping Lever (complete)	6.25	1.25	4.50	3.75
**F	Anvil 1-2 or 3-4	3.25	2.75	2.25	2.00
G	Clamp Screw (old style)	3.50	2.75	2.50	2.00
H	Stationary Clamp Screw	2.75	2.00	1.75	1.50
Î	Anvil Adjusting Screw	1.75	1.50	1.50	1.00
Ĵ	Anvil Set Screw	1.00	1.00	1.00	.75
K	Anvil Set ScrewLock Nut for "H"	1.00	.75	.75	.33
L	Set Screw for "H"	1.00	.75	.75	.35
N	Die Lever Stop Bolt	1.00	1.00	.75	.50
NN	Die Lever Stop Nut	.75	.75	.50	.33
0	Cap Screw for "B"	.25	.25	.20	.20
Q S SS	Grip Bolt and Nut	1.75	1.50	1.50	1.00
SS	Nut for "S"	.25	.25	.25	.25
II	Nut for "G"	.35	.35	.25	.25
U Z	Nut for "G"	.20	.20	.15	.15
AZ	Swivel Point Clamp Screw	3.50	2.75	2.35	20022
BY	Swivel Point only	1.75	1.75	1,50	
**OD	Oval Die	11.50	10.50	9.75	9.75
**BU	Oval Die Bushings (2), per pair	7.50	6.00	5.50	4.75
**SD	Solid Die		7.25	6.25	4.75
CX	Solid Die		3.50	2.75	2.00
DW	Wrench	1.00	1.00	1.00	.75

EXTRA PARTS REQUIRED FOR ROLLER BEARING SWAGE

HS HSI	Roller Bearing Cages (2), per pair Roller Bearings (set), per set	\$15.00 8.75	\$14.00 8.00	\$12.00 7.00	
GT	Washers (2), per pair	2.00	1.75	1.50	

REPAIR PARTS FOR BENCH ATTACHMENT

P	Bracket Pin and Nuts	\$1.50	\$1.50	\$1.50	\$1.50
R	Attachment Base	2.75	2.75	2.00	1.50
T	Saw Supporting Cone	2.00	2.00	2.00	2.00
V	Cone Support	2.75	2.75	2.75	2.75
W	Cone Center Pin and Nut	1.50	1.50	1.50	1.50
EV FU IR	Saw Cone, 1 to 2½ inches	1.50	1.50	1.50	1.50
FU	Saw Cone, 2½ to 5 inches	2.75	2.75	2.75	2.75
ÎR	Wedge	.35	.35	.35	.35
NM	Collar for Wedge "IR"	.75	.75	.75	.35
PP	Bracket Pin Collars (2), per pair	.75	.75	.75	.73

IMPORTANT

⁽¹⁾ When ordering repairs always give the number of the swage, also stock letter and name of parts (stock letters are stamped on each part).
**(2) Select dies and bushings from list, page 75.
***(3) When ordering anvils state whether 1-2 or 3-4 is required.

REPAIR PARTS FOR PRIBNOW NEW MODEL SWAGE SHAPERS DOUBLE LEVER STYLE

FOR BAND AND CIRCULAR SAWS

LIST PRICES

Stock Letter	Description	31D	32D 32GD and 32 GHD	33D	Stock Letter	Description	31D	32D 32GD and 32 GHD	33D
A	Base	\$24.00	\$20.00	\$15.00	N	Cap Screw for "E"	\$0.35	\$0.35	\$0.35
В	Jaw Holder (left)	3.50	3.25	2.75	0	Adjusting Screw for "D"	.35	.35	.35
C	Jaw Holder (right)	3.50	3.25	2.75	P	Cap Screws for "D" (2), per			
D	Shaping Jaws (2), per pair	6.25	5.25	4.50		pair	.75	.75	.75
E	Tooth Rest Bar (for all ex-		-		Q	Taper Pins for "J" (2), per			
	cept 32GD and 32GHD)	5.50	4.75	4.00		pair	.25	.25	.25
EH	Tooth Rest Bar for 32GD				T	Washer for "N"	.15	.15	.15
	and 32GHD		4.75		V	Washers for "P," "K" and			
F	Clamping Screw (right hand)	2.75	2.75	2.00		"BX" (2 each), per pair	.25	100000000000000000000000000000000000000	.25
G	Clamping Screw (left hand)	2.75	2.75	2.00	Y	Guide Handle (complete)	2.00	50,00	2.00
I	Double Clamping Lever	6.25	6.25	4.50	AY	Spring for "E"	.75		.75
IR	Bracket for "I"	2.00	2.00	1.50	19509,00025	Stud Bolt and Nuts for "E"	1.00		1.00
*J	Tooth Gauge	4.50	4.50	3.50	0.002.000	Clamping Lever Stop	.75	000000	.75
K	Swivel Bolts for "B" and "C"				DV	Nut for "N"	.20	.20	.20
	(2), per pair	1.00	1.00			Back Guides for 32D (2), per			
L	Nuts for "K" (2), per pair	.50	.50	.50	La Britania de la Constantia de la Const	pair	*****	.75	*****
M	Nuts for "F" or "G" (2), per				GS	Adjusting Screw for "E"	.25	2000000	.25
	pair	.50	.50	.50	X	Wrench	1.00	.75	.75

REPAIR PARTS FOR PRIBNOW NEW MODEL SWAGE SHAPERS SINGLE LEVER STYLE

FOR BAND, GANG, CIRCULAR AND CYLINDER SAWS

LIST PRICES

Stock Letter	Description	31 and 31CB	32G and 32GH	32CB and 32CY	33	Stock Letter	A SAME OF THE SAME	31 and 31CB	32G and 32GH	32CB and 32CY	33
A	Base	\$24.00	\$20.00	\$20.00	\$16.00	0	Adjusting Screw for				
В	Jaw Holder (left)	3.50	3.25	3.25	2.75		"D"	\$0.35	***************************************	100000000000000000000000000000000000000	\$0.35
C	Jaw Holder (right)	3.50	3.25	3.25	2.75	P	Cap Screw for "D"	.35	.35	.35	.35
D	Shaping Jaws (2), per				-	Q	Taper Pins for "J" (2),			2017	
	pair	6.25	5.25	5.25	4.50		per pair	.25	.25	.25	.25
E	Tooth Rest Bar (for					S	Set Screws for "F"	100			
	all except 32GH)	5.50	4.75	4.75	4.00		and "G" (2), per	11714		2.00	
EH	Tooth Rest Bar for					100	pair	.25	1,11,11,11	12,5241	,25
	32GH		4.75			T	Washer for "N"	.15	2,17,5	1,000	.15
F	Clamping Screw (right			-		U	Adjusting Knob	.35	.35	.35	.35
	hand)	2.75	2.75	2.75	2.00	V	Washers for "P," "K"	100			
G	Clamping Screw (left						and "BX" (2 each),				
	hand)	2.75	2.75	2.75			per pair	.25		2000	.25
H	Clamping Lever	3.25	2.75	2.75	2.25	AY	Spring for "E"	.75	.75	.75	.75
*J	Tooth Gauge	4.50	4.50	4,50	3.50	BX	Stud Bolt and Nuts	(7) 7/95		20000	27/2/2
K	Swivel Bolts for "B"		1.000				for "E"	1.00	1000000	20000000	1.00
	and "C" (2), per					CW	Clamping Lever Stop	.75	1000	140001	.75
	pair	1.00	1.00	1.00	1.00		Nut for "N"	.20	.20	.20	.20
L	Nuts for "K" (2), per					FT	Bench Bracket for			West 1	
	pair	.50	.50	.50	,50	14	31CB and 32CB	*****		4.75	
M	Nuts for "F" or "G"		-			GS	Adjusting Screw for				
	(2), per pair	.50	.50	.50			"E"	.25			.25
N	Cap Screw for "E"	.35	.35	.35	.35	X	Wrench	1.00	.75	.75	.75

REPAIR PARTS FOR PRIBNOW ORIGINAL IMPROVED SWAGE SHAPERS

FOR BAND AND GANG SAWS

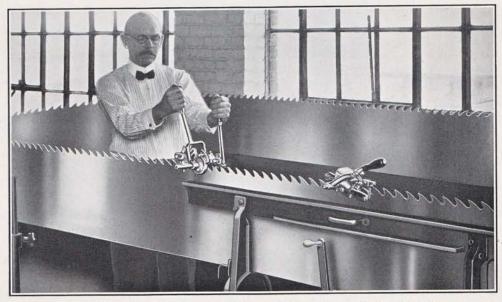
LIST PRICES

Stock Letter	Description	1 and A1	2 and A2	3 and A3	Stock Letter		1 and A1	2 and A2	3 and A3
A	Base	\$16.00	\$13.50	\$16.00	P	Cap Screws for "D" (2), per		2000	
В	$\mathbf{Jaw}\ \mathbf{Holder}\ (\mathbf{left})\dots\dots\dots$	3.50	2.75	3.50		pair	\$0.75	\$0.50	\$0.75
C	Jaw Holder (right)	3.50	2.75	3.50	Q	Adjusting Screw for "J"	.25	.25	.25
D	Shaping Jaws (2), per pair	5.25	4.75	5.25	R	Washers for "K" (2), per			
E	Back Guide	.75	.75	.75		pair Washer for "N"	.25	.25	.25
F	Stationary Clamping Screw	1.00	1.00	1.00	S	Washer for "N"	.15	.15	.15
G	Movable Clamping Screw	1.75	1.75	1.75	V	Washers for "P" (2), per pair.	.25	.25	.25
H	Clamping Lever	3.25	2.60	3.75	W	Back Guide Support		*****	3.00
I	Set Screw for "H"	.15	.15	.15	X	Cap Screws for "W" (2), per			
*J	Tooth Gauge	3.90	3.75	3.60		pair			.50
K	Swivel Bolts for "B" and						-		
	"C" (2), per pair	1.00	.75	1.00	-				
L	Nuts for "K" (2), per pair	.50	.35	.50		Parts Required for Grind	ing Ga	u⊈e	
M	Nut for "F"	.35	.25	.35	2000				
N	Cap Screw for "J"	.35	.25	.35		inding Gauge Base			
0	Adjusting Screws for "D" (2),			-		mp			
	per pair	.50	.50	.50	Y Ca	p Screw			35

IMPORTANT

(1) When ordering repairs always give the number of the shaper, also stock letter and name of parts.

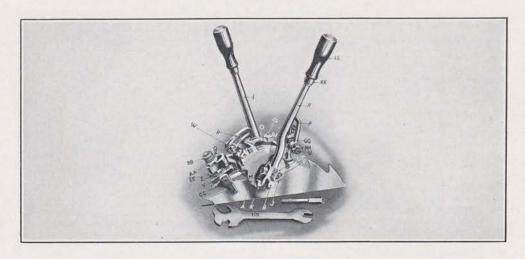
*(2) When ordering tooth gauges always give the gauge of saws for which tooth gauge is required.



Pribnow's Roller Bearing Swage and Improved Swage Shaper in the Filing Room

ATKINS SILVER STEEL SAWS

ATKINS IDEAL SWAGE WITH SOLID DIES



In the Atkins Ideal Swage we have discovered the true principle for swaging saw teeth.

We claim for it the most scientific and perfect adjustment, the greatest simplicity of action combined with strength and durability.

Atkins Ideal Swage overcomes all difficulties that have been found in the operation of previous types of swages and produces perfect saw teeth with greatest precision and least effort.

The principle under which it is constructed places the working corner of the anvil at the exact center of operation. When the point of the tooth is placed at the corner of the anvil and the block is rolled forward or backward in the saddle to accommodate a slender or blunt tooth, the relation of the point of the tooth to the anvil always remains the same. In this manner, the relation of the die to the anvil is identical, therefore allowing an easy adjustment to the most inexperienced operators.

All working parts are made sufficiently heavy and strong to withstand wear and hard usage and are reinforced where necessary. This insures the greatest life to the swage and the least cost for replacements.

It is made of the very finest materials throughout and all parts are carefully machined and fitted. It is heavily nickel-plated and buffed and no expense is considered that will add to its efficiency and durability.

Atkins Ideal Swages are made for use on all types of saws, including band saws, band re-saws, circular saws of all sizes and shapes of teeth, shingle saws, cylinder saws, etc.

Lists of parts and instructions for operating will be found on the following pages.

The use of Atkins Ideal Swage in connection with Pribnow Swage Shaper gives a combination which will enable even the most inexperienced operators to produce the most perfect teeth with least effort and expense.

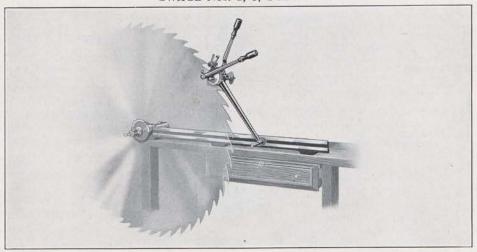
ATKINS IDEAL SWAGES NUMBERS AND LIST PRICES

Ideal Swage No.	Size Die Inches	Depth of Tooth Not Less Than In.	Gauge and Thickness of Saws	These Swages Are Made for	List Price
0 00 1 9 2 5 3 6 4 7	Shallow 3/8 16 16 5/8 5/8 3/4 3/4 7/16 16 9/16 9/16	56 116 116 1116 1116 1116 1116 1116 111	19 gauge and thinner 16-17-18-19 13-14-15-16 12-13-14-15 8-9-10-11-12 12-13-14 6-7-8-9-10 11-12-13-14 14-15-16-17-18-19 11-12-13-14 11-12-13-14	Band saws *Band saws Band and gang saws Band saws Circular saws Band and gang saws Circular saws †Band saws ‡Shingle saws Circular saws Cylinder saws	\$42.75 46.75 53.50 53.50 61.50 64.00 61.50 46.75 53.50 53.50

*Also applies to shingle saws for which a special front fork is provided. †Heavy duty swaging. ‡Edgers and lath saws. See page 82 for list prices of duplicate parts.

ATKINS IDEAL CIRCULAR SAW SWAGE WITH BENCH ATTACHMENT

SWAGE Nos. 2, 3, 4 AND 7



For greater convenience, economy and the execution of more perfect work, we supply the Ideal Swage for circular saws, with bench attachment.

The construction is shown very plainly in the accompanying illustration.

It may be fastened to any ordinary bench. It is equipped with a cone attachment which will accommodate any size of hole.

The Atkins Ideal Swage with bench attachment is operated by moving the supporting bar to the right or left until in perfect alignment with the swage, after which the swage may be operated in the regular way by moving the saw forward after each tooth is swaged.

The attachment assists in jointing the teeth of uniform length, furnishes a convenient and economical appliance and is much easier on the operator, enabling him to do his work with greater speed.

No.	Gauge	Size of Die, Inches	Weight	List Price
9	8 to 12	5/8	463/4	\$70.80
3	6 to 10	3/4	541/2	73.50
4	14 to 19	16	421/4	56.00
7	11 to 14	76	441/4	62.75

Bench Attachment Extra.....\$9.50

^{*}The above prices are for the tool only; bench attachment extra.

REPAIR PARTS FOR ATKINS IDEAL SWAGES

LIST PRICES FOR BAND, GANG AND CIRCULAR SAWS

Stock Letter	Description	3	6	2 and 5	and 9	Stock Letter	Description	3	6	2 and 5	and 9
A	Block	\$24.00	\$22.75	\$21.50	\$20.00	U	Stud for "T" (includ-				
В	Die	5.20	5.20	4.50	4.50		ing nuts and washers)	\$1.75	\$1.75	\$1.50	\$1.00
C	Anvil	2.60	2.25	2.25	2.00	V	Saddle Cap	1.75	1.75	1.25	1.25
D	Anvil Screw	.75	1.75	1.75	1.75	W	Cap Screws for "O"				
E	Anvil Set Screws (2),	1					(2), per pair	.20	.10	.20	.20
-575	per pair	.50	.50	.50	.50	X	Sleeve	.75	.75	.75	.75
F	Stationary Clamp	0.000			200	Y	Front Fork	2.50	2.50	2.50	2.00
	Screw	1.75	1.75	1.75	1.75	Z	Spring for "Y"	.50	.50	.35	.25
G	Movable Clamp Screw.	1.75	1.75	1.75	1.75	AA	Lock Nuts for "X"	10,000	1000		
н	Die Lever (complete)	6.25	6.25	5.20	4.50		(2), per pair	1.50	1.50	1.50	1.50
I	Clamping Lever					BB	Lock Nuts for "Y"				
	(complete)	5.20	5.20	4.50	4.50		(2), per pair,	.75	.75	.50	.50
J	Lock Nut for "F"	.50	.50	.50	.50	CC	Plate for "Y"	1.00	1.00	1.00	.70
K	Cap Screws for "H"					DD	Rivets for "Y"	.20	.20	.20	
	(2), per pair	.50	.50	.50	.50	EE	Adjusting Screws for			7	
L	Key for "H"	.75	.75	.75	.75		"CC" (2), per pair	.25	.25	.25	
M	Lock for "H"	.50	.50	.50	.50	FF	Collar	.50	.50	.50	
N	Set Screw for "I"	.20	.20	.20	.20	GG	Lock Nut for "U"	.25	.25	.25	
0	Saddle	6.00	4.75	4.00	4.00	HH	Lock Nut for "P"	.20	.20	.20	.20
P	Die Opening Stop	.75	.75	.75	.75	II	Button Head Screws			10000	
Q	Die Finishing Stop	.75	.75	.75	.75		(2), per pair	.20	.20	.20	.20
R	Bracket for "Q"	1.75	1.50	1.50	1.50	JJ	Indicator	1.00	1.00	1.00	1.00
S	Bushings (2), per pair.	2.75	2.75	2.50	2.50	KK	Ferrules (2), per pair	.20	.20	.20	.20
Т	Rear Rest	1.25	1.25	1.25	1.25	LL	Wood Handles (2),				
*TT	Plate for "T", except						per pair	.50	.50	.50	.50
	No. 2	120000	.75	.75	.75	MM	Wrench	2.00	2.00	1.75	1.50

^{*}No. 3 and No. 2-Part T includes TT.

LIST PRICES FOR BAND, CIRCULAR, SHINGLE AND CYLINDER SAWS

Stock Letter	Description	7	8	4	0 and 00	Stock Letter	Description	7	8	4	0 and 00
A	Block	\$20.00	\$20.00	\$18.75	\$17.50	w	Cap Screws for "O"	E			
В	Die	1 minutes 2 (1) (1)	3.25	3.50	3.25		(2), per pair	\$0.20	\$0.20	\$0.20	\$0.20
C	Anvil	2.00	2.00		1.50	x	Sleeve	.75		.75	.75
D	Anvil Screw	1.75	1000000	275733	1.50	Y	Front Fork	2.00	100000000000000000000000000000000000000	2.00	1.50
E	Anvil Set Screws (2),	1.10	1110	2110	2100	Z	Spring for "Y"	100000000000000000000000000000000000000		.25	.25
E	per pair	.50	.50	.50	.50	AA	Lock Nuts for "X"				
F	Stationary Clamping		-				(2), per pair	.50		.50	.50
	Screw	2.25	2.25	2.25	2.00	BB	Lock Nuts for "Y"				
G	Movable Clamping		5/3/050		The state of the s	1	(2), per pair	.50	.50	.50	.50
	Screw	2.25	2.25	2.25	2.00	CC	Plate for "Y"	.75	.75	.75	.75
н	Die Lever (complete)	4.50	4.50	4.50	3.50	DD	Rivets for "Y"	.20	.20	.20	.20
ï	Clamping Lever (com-		200000		January.	EE	Adjusting Screws for	Art and a		-	
-	plete)	4.50	4.50	4.50	3.50		"CC" (2), per pair.	.25	.25	.25	
J	Lock Nut for "F"	.50	.50	,50	.35	FF	Collar	.50			
K	Cap Screws for "H"					GG	Lock Nut for "U"	.25			
50	(2), per pair	.25	.25	.25	.20	HH	Lock Nut for "P"	.20			.20
L	Key for "H"	.75	.75	.75	.75	11	Button Head Screws				
M	Lock for "H"	.50	.50	.50	.35		(2), per pair	.20	.20	.20	.20
N	Set Screw for "I"	.20	.20	.20	.20	JJ	Indicator	1.00			1.00
0	Saddle	4.00	3.50	3.50	3.50	KK	Ferrules (2), per pair.	.20	.20	.20	.20
Р	Die Opening Stop	.75	.75	.75	.75	LL	Wood Handles (2),				
0	Die Finishing Stop		.75	.75	.75	-	per pair	.50	.50	.50	.50
R	Bracket for "O"	1.50	1.50	1.50	1.50	NN	Front Fork Rest				
S	Bushings (2), per pair	2.50	2.50	2.50			Swivel for Cylinder				
Т	Rear Rest				1.25		Saws		1.00		
*TT	Plate for "T"				.75	00	Cap Screws for "P"				
U	Stud for "T" (includ-						(2), per pair		.20	100000000000000000000000000000000000000	
250	ing nuts and washers)	1.50			1.00	MM	Wrench	1.50	1.50	1.50	1.00
v	Saddle Cap	1.25	1.25	1.25	1.00						

^{*}No. 7—Part T includes TT. IMPORTANT—When ordering repairs give the number of the swage, also stock letter and name of parts (stock letters are stamped on each part).

ATKINS UPSET SWAGES

Atkins Upset Swages may be successfully used on all kinds of Mill Saws, Solid or Inserted Tooth, Band or Cylinder. The material in the shank is of the very highest quality tool steel. The bands are made from a high-grade soft steel of great tensile strength to stand the strain without cracking or expanding.

Our long experience in manufacturing Saw Swages is a guarantee of their efficiency and we will welcome a trial order.

When ordering Atkins Upset Swages, specify the type of saw the swage is for, also the gauge of saw, and order by number as shown in illustration. Particular attention is given to mail orders and we usually ship the day order is received.

ATKINS No. 2

FOR BAND AND CYLINDER SAWS

Price.....each \$4.50 Weight, each...ounces 6½

ATKINS UPSET

FOR CIRCULAR AND OTHER SAWS

No. 0, for large circular saws, from 5 to 10 gauge. Provided with projecting tooth guide not shown in illustration.

Price.....each \$6.00 Weight, each...pounds 1½

No. 1, for large circular saws, from 8 to 12 gauge.

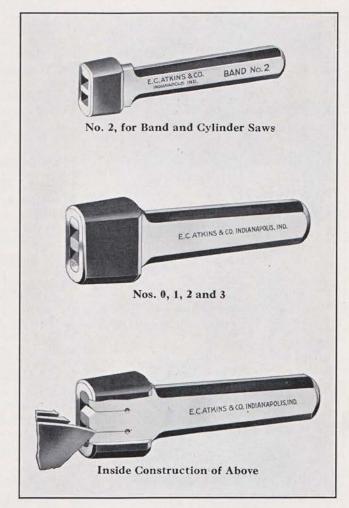
Price.....each \$5.50 Weight, each...pounds 11/8

No. 2, for small circular and mill saws of thinner gauge.

Price.....each \$4.50 Weight, each...pound $\frac{7}{16}$

No. 3, for small circular saws.

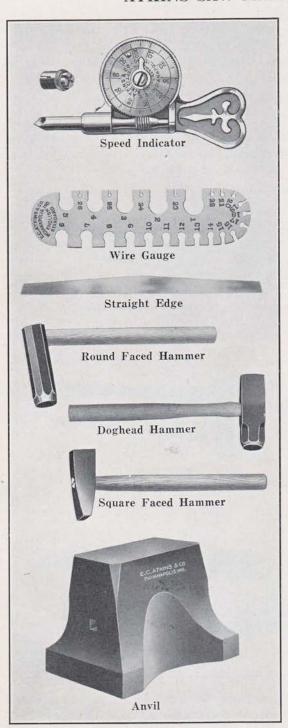
Price.....each \$3.50 Weight, each...ounces 2½



In swaging teeth for inserted tooth saws, the teeth should be removed from saw and placed in a plate or socket in a vise to prevent distortion of the shoulders of saw.



ATKINS SAW MAKERS' TOOLS



IMPROVED SPEED INDICATORS

Will give the speed of any machine or shaft when in motion, correctly. Weight, per doz., 2½ pounds.

Sent by mail, prepaid, with cap, for \$1.00 each.

STANDARD WIRE SAW GAUGES

Oblong gauges Nos. 1 to 26	
each	\$2.00
Round saw gauges, Nos. 6-36	
each	1.65

STRAIGHT EDGE

We are in position to make straight edges up to 6 feet long.

Over 5 feet in length, special prices quoted on application.

TENSION GAUGE

Made in lengths of 4, 5, 6, 7, 8, 10, 12, 14, 16 inches, and carried in stock.

Prices on application.

BACK GAUGE WITH DOUBLE EDGE

Made to order. Prices on application.

ROUND FACED HAMMER

Price per pound \$2.00 Furnished any weight desired.

COMBINATION HAMMER

Price.....per pound \$2.00 Furnished any weight desired.

SOUARE FACED HAMMER

Price......per pound \$2.00 Furnished any weight desired.

ANVILS STEEL FACED

We keep in stock anvils 10 x 6 face, 86, 110, 145 pounds; 12 x 6,

250 pounds.

Prices on application.



ATKINS SIDE FILES

ADJUSTABLE No. 1 FOR LARGE CIRCULAR SAWS

The No. 1 file is the simplest tool ever invented for the purpose. The width of the set or swaged tooth is regulated by a single set screw. The clamp for holding the file is adjustable, permitting the use of any kind of file, if one of our files made especially for them cannot be easily obtained. This tool is especially adapted for circular saws.

ADJUSTABLE No. 2 FOR BAND AND GANG SAWS

The No. 2 file is adjustable for holding any kind of file, similar to the No. 1, and by its shape is peculiarly adapted for long saws, such as band and gang saws. It can be used on blades down to two inches in width, and as wide as desired. Those who run such saws should not be without this tool. It is also preferred by some on circular saws.

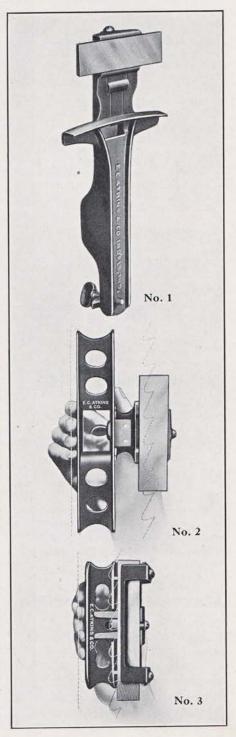
ADJUSTABLE No. 3 FOR BAND, RE-SAWS AND GANG SAWS

The No. 3 file is adjustable for holding 8-inch and 9-inch files, and so arranged that the file can be tilted to any desired angle. A gauge passes over the points of the teeth, bringing the file in proper position for doing the work. The No. 3 file is for all long saws. It can be used on any width of blade.

Side files are used for the purpose of regulating saw teeth after they have been set. It is impossible to set or upset a saw so that some of the teeth will not extend or be bent over a little more than others, and thus make rough lumber. By the use of these instruments all the teeth are made even; and a saw thus regulated will run twice as long without sharpening, and do much better work.

The reputation of our adjustable side files is fully established, being acknowledged as most convenient and accurate tools. No. 2 is entirely novel in its construction and adaptability. It is easily operated, and insures accurate work. Send us your order.

No. 1, for circular sawseach	\$1.35
No. 2, for band, gang and circular saws each	1.35
No. 3, for band sawseach	1.35
Extra files for Nos. 1 and 2 per dozen	4.00
Extra files for No. 3 per dozen	4.80
Weight, No. 1, each pounds	2
Weight, No. 2, each pounds	113
Weight, No. 3, eachpounds	13/8



ATKINS SILVER STEEL SAWS

ATKINS SAW MAKERS' TOOLS

CIRCULAR AND MILL SAW SETS

For heading, shingle or small saws. Made of drop forged tool steel. Weight, 5 ounces each.

Price.....per dozen \$15.60

Made to suit saws of different sizes.

Large, for circular saws, double handle.....each \$3.90

Small, for band saws, single handle....each \$2.60 Weight, large, 1 lb., 10 oz., each. Weight, small, 10 ounces each.

SWAGE BARS

No.	No. of Sides	Dimensions Inches	Wt. Lbs.	Price Each
1	6 or 8	11x1 x½	11/2	\$7.00
2 3	6 or 8	11x11/4x5/8	2	8.40
3		11x1½x¾	$2\frac{9}{16}$	9.70
4	6 or 8	11x13/4x7/8	31/2	11.00

HAMMERS FOR SWAGE BARS

Size, Inch	Weight Lbs.	Price Each
3/4 · · · · · · · · · · · · · · · · · · ·	$\frac{1}{2}$ $\frac{11}{16}$ $\frac{13}{13}$	\$2.75 3.30 3.80

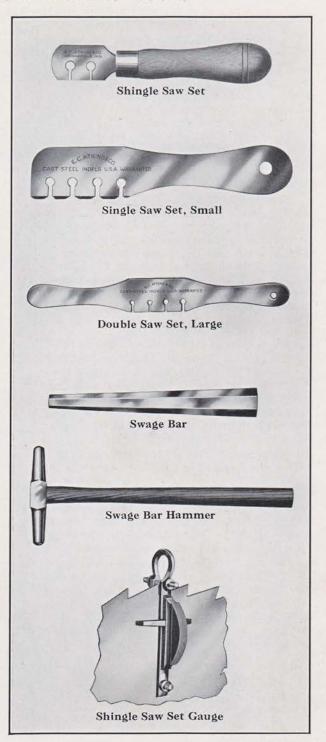
Every sawyer or filer should have one of these swages and hammers for drawing out short teeth, or swaging saws, before using the regular swage or upset.

ATKINS SHINGLE SAW SET GAUGE

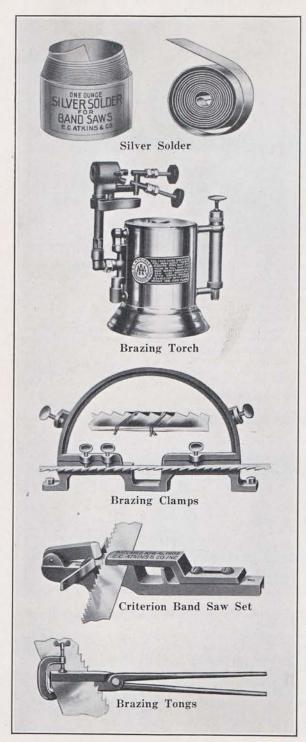
For cylinder, shingle and heading saws.

An accurate tool that will produce good results.

Price, nickel-plated....each \$1.00 Weight, each......ounces 4½



ATKINS BRAZING TOOLS



SILVER SOLDER

The successful brazing of band saws largely depends on the solder used. We use, and keep constantly in stock, special Silver Solder that has proved to be the best adapted for brazing tempered steel. We will furnish Silver Solder at the

lowest market price, predicated on the

price of silver.

BRAZING TORCH No. 92

The Atkins Brazing Torch is admirably adapted for brazing band saws, as the flame is a small concentrated pointed flame of intense heat which makes the braze in a few seconds.

Price each \$10.00 Weight, each.....pounds

ATKINS BRAZING AND FILING CLAMPS

FOR BRAZING NARROW BAND SAWS UNDER 11/4 INCH IN WIDTH

Bevel the ends of saw about one-half inch, and bind firmly together with two or three strands of very fine wire. Fasten the saw in position with the set screws in clamp; place a small piece of silver solder on the lap, and cover with powdered borax. The braze can then be made either with our Brazing Torch with automatic blower, or with the common brazing tongs. Use the half circle of clamp when

ATKINS CRITERION BAND SAW SETS

For narrow bands, carpenters' rip saws and saws with similar teeth.

Price......per dozen \$13.35 Weight, one-half dozen...pounds $7\frac{1}{8}$

BRAZING TONGS AND CLAMPS FOR BAND SAWS

LARGE

To braze saws from 2 to 6 inch, with clamp.each \$10.00 Price Weight, each.....pounds 11

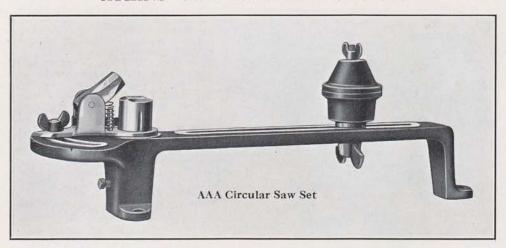
SMALL

For bands 11% inch and smaller, no clamp.

.....each \$4.00 Weight, each.....pounds $5\frac{1}{2}$

ATKINS SILVER STEEL SAWS

ATKINS "AAA" CIRCULAR SAW SET



The Atkins "AAA" Circular Saw Set is fastened to the bench or block by three common wood screws. It will accommodate six to twenty-four inch, either rip or cut-off Saws. The Saw is placed between cone shaped holder, which is graduated for a hole from ¾ to 1½ inches. By the use of thumb screw the Saw is rendered rigid, but may be revolved on a bearing at the bottom of the cone. The cone moves in a slot to the proper point and is held in position by thumbscrew on the bottom. The anvisible to change the bevel after being adjusted. The hammer is supported by a spiral spring, and may be revolved in circular slide, and held in position by thumbscrew. This enables the user to secure any set desired to point of tooth for either rip or cut-off Saw. Weight, 12 pounds.

Price for Saws under 24 inches in diameter	\$24.00
Price for Saws 30 inches in diameter	24.50

ATKINS NARROW BAND SAW CLAMP



While this Clamp is designed primarily for filing Narrow Band Saws, it will be found an extremely convenient addition to any filing room equipment.

Its advantages lie in the simplicity of construction, ease of adjustment and convenience for the many uses to which it may be put. It may be fastened to any vertical surface by the use of eight common wood screws. The attachments on the sides underneath the Clamp are for adjusting to accommodate the width of any Band or similar Saw.

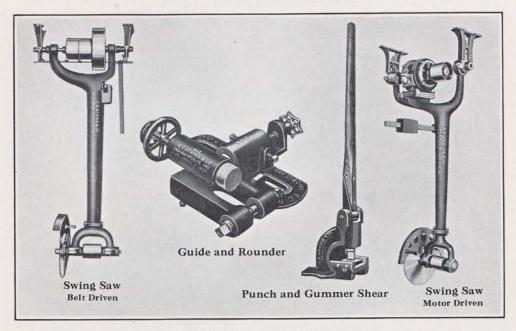
The Saws are tightened in the Clamp by an eccentric controlled by the lever in the center which is merely moved up or down to open or close the jaws of the Clamp.

This Clamp has a capacity for Saws or in fact any article from $\frac{3}{16}$ to 7 inches wide, length of jaws, 23 inches. Weight, 22 pounds.

Price each \$17.00

ATKINS SILVER STEEL SAWS

ATKINS SPECIALTIES



THE SAW GUIDE

This invention, used simply as a saw guide, has advantages which are possessed by no other guide. A glance at the accompanying engraving will make this fact apparent to every practical saw-mill man. Guide is adjustable and reversible.

THE ROUNDER

The "Rounder" or "Jointer" is entirely original with us, and its attachment to a saw guide a novel and valuable feature. When not in use detach the rounder by using the thumb nut.

No. 1, for Ordinary Mills		No. 2, for Heavy Work	
Guide, without rounder	\$13.35	Guide, without rounder	\$16.65
Combined guide and rounder	16.65	Combined guide and rounder	20.00
Weight, guide only pounds		Weight, guide onlypounds	47
Weight, rounder onlypounds		Weight, rounder only pounds	7

ATKINS SWING SAW

The frame hangs on hangers, doing away with imperfect alignment and insuring the utmost rigidity. The head is detachable, permitting of great ease in adjusting, and may be removed for rebabbitting. Countershaft and hangers of $1\frac{1}{16}$ inch steel shafting, have an up and down adjustment, equipped with belt shifter.

Through the use of adjustable counter weight, saw may be made to hang at any angle. The saw guard will accommodate saws up to 20 inches, or to 24 inches when so specified, at extra cost. Length of frame, 6 feet, tight and loose pulley 8×5 inches. drive pulley 16×5 inches, arbor pulley $5 \times 5\frac{1}{2}$ inches, size of arbor in bearing $1\frac{\pi}{16}$ inches, size of arbor where saw goes on $1\frac{\pi}{16}$ inches. Speed of countershaft 450 revolutions per minute, weight, 400 pounds.

Price, No. 7 with saw	\$166.65
Weight pounds	550

ATKINS DIRECT MOTOR DRIVEN SWING SAW

On account of the demand for Direct Motor Driven Machines, we have designed a Swing Saw for operation in connection with motor, making a complete unit. This machine is strictly high grade throughout, including ball bearings.

In ordering Motor Driven Swing Saws state whether your current is direct or alternating. If direct current, give the voltage, and if alternating, state voltage, phase and cycles. Price on application.

ATKINS PUNCH GUMMER AND SHEAR

A very handy device for punching teeth in band and cross cut saws. We furnish dies to any specification. Will accommodate dies up to 3½ inches square by ½ inch thick.

Priceeach Extra punches and diesper set	\$46.00	We furnish dies for shearing band saws, to be used in Atkins Gummer.
Weight,pounds		Priceper pair \$18.40

ATKINS SPECIALTIES

ATKINS COUNTERSHAFT

Arbor 24 inches long by 13-6-inch diameter. Made from the best grade of material and guaranteed to run smooth and true.

Tight and loose pulleys 4½-inch diameter by 3-inch face for 3-inch belt.

One two-step cone pulley $8\frac{1}{2}$ by $7\frac{1}{2}$ with two faces for 2-inch belt.

This is one of the best countershafts on the market.

The many orders we have received for this countershaft from Planing Mills, Sash and Door, Wagon and Carriage, Pattern and Furniture factories, indicate the high quality of this product.

Price each \$20.00 Weight, each pounds 40

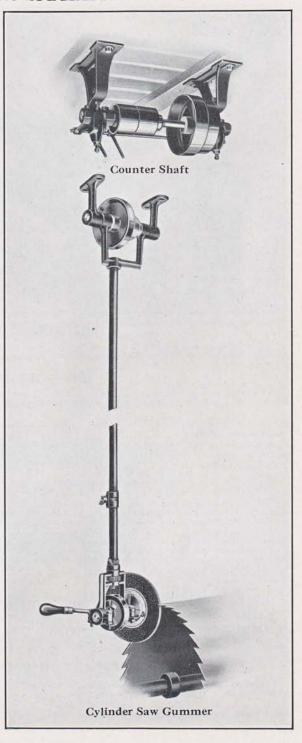
ATKINS CYLINDER SAW GUMMER

These can be used for gumming any kind of a saw, Band, Circular, Barrel and Cylinder.

This illustration shows the Atkins Cylinder Saw Gummer. This gummer is adjustable, being so constructed that it can be raised or lowered, and the wheel can be operated at any desired angle while the gummer is in use.

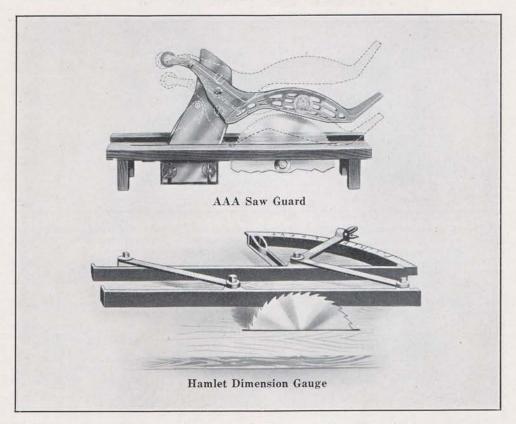
Price.....each \$46.65 Weight (packed) each..pounds 40

Above price includes belt and grinding wheel.



ATKINS SILVER STEEL SAWS

ATKINS "AAA" SAW GUARD



Made of aluminum. It has an up and down motion in the slot on front guide or splitter. This gives a capacity for any thickness of lumber up to three inches. There is also a tilting movement on the loose bolt with which the guard is fastened to the splitter. This causes the guard to entirely encompass the saw, as it automatically drops forward when the lumber is fed under the opposite end and when the end of the board is reached, it drops down at the rear, until both ends touch the table. See dotted lines above. A swinging dog, attached to the back of the splitter, prevents the lumber from kicking backward and for this reason it has been recommended by state factory inspectors in many places. It is the only guard that will take all thicknesses of lumber without special adjustment and that at the same time entirely protects the user, making it impossible to come in contact with the saw blade during the entire process of sawing.

For the ordinary wood table a malleable holder is screwed to the bottom of the table and the splitter is attached to same with thumb screws. Where table has an underneath rib, a special attachment is used. This attachment is adjustable either horizontally or vertically and will fit any style of saw table. We also make this guard to fit any iron table.

		Wood Table	Iron Table	Weight, Pounds
No. 3	For saws 12 inches in diameter and under each For saws 14 inches in diameter and under each For saws 20 inches in diameter and under each	\$16.00	\$21.35	25
No. 4		18.65	26.65	30
No. 5		21.35	29.35	40

ATKINS HAMLET DIMENSION GAUGE

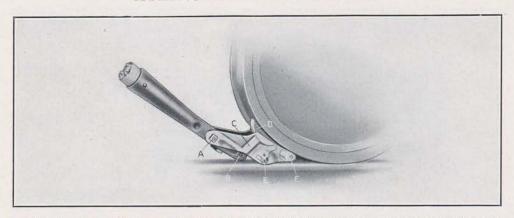
Undoubtedly one of the most effective devices that has ever been invented for dimensioning lumber. Through the use of the Atkins Hamlet Dimension Gauge, the operator is enabled not only to adhere to absolute uniformity of cut, but to make any desired change without the necessity of rule or other gauge. It not only saves time but it prevents errors and loss of lumber.

The Atkins Hamlet Dimension Gauge is designed to cover a range from 1/2 to 9 inches and is furnished either right or left hand.

Price, right or left hand, 1/8 to 9 inches capacityeach	\$16.00
Weight, eachpounds	29

ATKINS SILVER STEEL SAWS

ATKINS "AAA" CAR MOVER



Here is a device which moves cars more rapidly and with less effort than has been possible through

Here is a device which moves cars more rapidly and with less effort than has been possible through the use of any other hand contrivance. It is the invention of the patentee of a car mover which has heretofore been the most popular and is the result of lifelong study and experience.

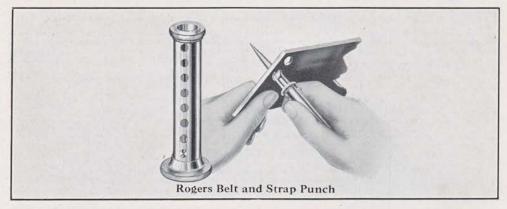
The roller "F" permits the Mover to slide easily along the rail. The hardened steel key "E" with four corners, which may be changed when desired, clinches the top of rail and prevents slipping. The link "C" is fastened to the shoe "D," so that when pressure is applied on the handle, the shoe "D" is moved against the wheel with an upward and forward pressure. The pivots "A" and "B" are the only parts where friction occurs, and as these can be easily oiled there is practically no friction. Sold under parts where friction occurs, and as these can be easily oiled, there is practically no friction. Sold under an absolute guarantee.

Price. Weight, each, netpounds

PARTS FOR "AAA" CAR MOVER

	Letter and Name of Parts	Price Each	Name of Parts	Price Each
D Wheel E Steel a F Roller C Link.	shoeshoesripwheelbolt.	1,05 90 50 35	Lever . Short Pin . Long pin . Wood handle .	

ROGERS BELT AND STRAP PUNCH



ATKINS SILVER



STEEL SAWS

BAND SAW GUIDE AND SETTING MACHINES

SCROLL BAND SAW GUIDES

A quality product, parts interchangeable. Used exclusively by leading band sawing machine manufacturers.

Guides can be applied to all makes of machines.

	Net Weight	Price
No. 0—1/8 to 11/4 inches No. 1—1/8 to 11/4 inches No. 2—1/4 to 21/2 inches	45 lbs.	\$10.00 12.50 15.00

GUIDE REPAIRS NET

Send us your orders for guide repairs. Duplicate parts for the various sizes can be furnished promptly.

No.		No. 0	No. 1	No. 2
1	Disk with Spindle	\$2.00	\$2.25	\$2.50
2	Socket (or bushing)	.75	1.00	1.25
1 2 3 6	Hand Adjusting Screw Jaws Plain, with Screws, per	.40	.40	.40
	pair	1.25	1.25	3.00
7	Jaws Bevel, with Screws, per pair	1.25	1.25	3.00
9	Main Casting	4.00	5.50	6.50
10	Sliding Block Regular Straight Shank,	1.50	2.00	2.50
	34-inch	.50	.60	.60
	Special Eccentric Shaft Shank	1.00	1.00	1.00
11	Bevel Washer	.10	.10	.10
12	Spring	.15	.15	.15
13	Steel Ball	.15	.15	.15

INFORMATION DESIRED WITH ORDER

Width of saw the guides are to accommodate, and whether upper or under guide is required or both,

Give size of hole in lug casting.

Width

of Saws

Inches

to 1½ to 2½ to 4½ to 4½

No.

Show position of bolt as you stand facing the machine. Give depth and width of slot in bracket if guide bolts

to a clevis or opening in frame casting.

Give distance from bolt to back of the saw.

Make a rough sketch showing how old guide is fastened to the machine.

BLACK DIAMOND COMBINED FILING AND SETTING MACHINE

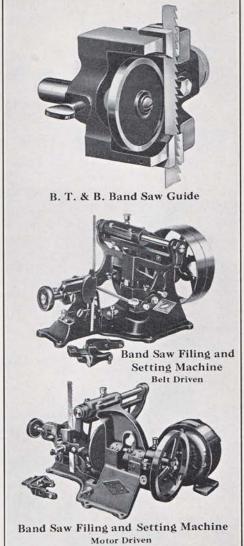
FOR NARROW BAND SAWS

Practically two machines in one, and occupies only one square yard of floor space, as the saw is hung on a peg overhead The feed is accurate and positive, requiring no attention after saw is properly adjusted.

It uses slim taper or ordinary taper files (any make) or special machine files.

It will not file deeper in the brazes or other soft places than elsewhere, and gives a keen cut, equal to hand filing.

MADE IN THREE SIZES Weight Weight Belt Motor Motor Driven Pulleys Tight and Loose Belt Driven Price Driven Price Speed R.P.M. Feed Driven Pounds Pounds Inches \$65.00 \$105.00 3 to 15 pts. to inch 2 to 15 pts. to inch 8 pts. to 1½ inch space 9 x 1¼ 9 x 1¼ 12 x 1¾ 80 -55 75 80 70.00 95.00 110.00 150.00 100 120 60

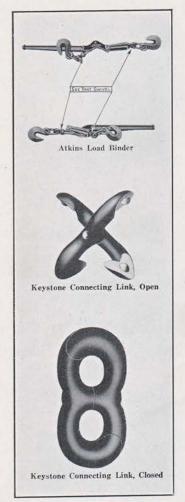


ATKINS SILVER



STEEL SAWS

LOAD BINDERS AND CONNECTING LINKS, ETC.



ATKINS IMPROVED LOAD BINDERS

The Atkins Improved Load Binder is unsurpassed for binding logs, hay, lumber, pipe, or large loads of every description. The binder when open has a spread of 221/2 inches and closes up to 18 inches, taking up a slack of $4\frac{1}{2}$ inches.

Price Regular Double Swivel per pair \$4.00 Weight, per pair.....pounds

Every man who has heavy, cumbersome hauling to do will instantly appreciate the many advantages of this Load Binder over the old fashioned, unsatisfactory boom pole. Not only does an Atkins Load Binder bind every kind of a load better, easier, quicker and more secure than any other kind, but it also makes a fine fence wire stretcher. It is unsurpassed for use on loads in hilly countries where it is necessary to lock the wheels when going down; with it you can release the wheels without backing up the heavy load. Made of the best material, guaranteed to stand up to five tons breaking strength.

KEYSTONE CONNECTING LINKS

The Keystone Connecting Link for connecting new or repairing broken chains of any kind is composed of two corresponding halves centrally pivoted on the same axis. As shown by the illustration herewith, the inner flat face of each member is provided with a projecting lug and recess, so that when closed and in use they mutually interlock, and by abutting against each other, lateral displacement of the two halves, and their consequent spreading or parting,

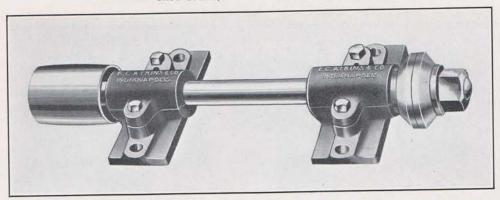
is rendered impossible. The Keystone Link is drop forged from an especially tough grade of bar steel, is the only one so made, and must not be confused with similar devices which are simply malleable iron castings.

Size, Inches	Price, per Dozen	Weight Pounds, per Dozen	
1//	\$ 2.00	7/8	
5	2.25	1½	
36	2.50	23/8	
78	2.50 3.25	4	
16	4.00	5	
52	4.00 7.50	93/4	
38	10.00	18	
1 74	15.00	431/2	

ATKINS SILVER STEEL SAWS

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



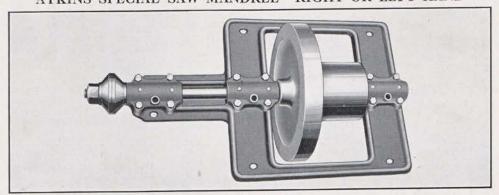
PULLEY OUTSIDE BOXES

We manufacture mandrels that run absolutely true, cool, and without the slightest jar or vibration. They cost more than some other makes because the shaft is lathe-turned from the highest grade of steel. The pulleys cast from soft gray iron, are also lathe-turned and shrunk to the shaft, becoming practically one solid piece. Atkins mandrels will prove their superiority over other makes. Give them a trial.

No.	Extreme Length Inches	Diameter of Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Diameter of Collars Inches	Size Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1 2 3 4 5 6 6 6 7 8 9 10 11 11 12 13	16½ 19 21½ 24 26 28 30½ 30½ 33½ 37 41 44½ 48 54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 4 4 4 5 5 5 5 5 7 8 10 12	3 33½ 4 4½ 5 5 5 5 6 6 6 6 6 2 7 8 10 10	3 3 31/2 4 4 4 41/2 41/2 41/2 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 to 12 10 to 12 14 to 16 14 to 16 18 18 20 to 22 24 to 26 24 to 26 28 to 30 32 to 38 32 to 38 32 to 38 32 to 38 32 to 38 34 to 30	18½2 20 27½4 30½2 35½2 40 47¼4 47½5 51½2 66 133 157	\$ 8.00 9.50 10.75 12.50 16.00 16.00 18.00 22.50 28.00 33.50 40.00 50.00

Mandrels with pulley outside are made with pulley on right-hand side, with left-hand thread, unless otherwise ordered.

ATKINS SPECIAL SAW MANDREL-RIGHT OR LEFT HAND

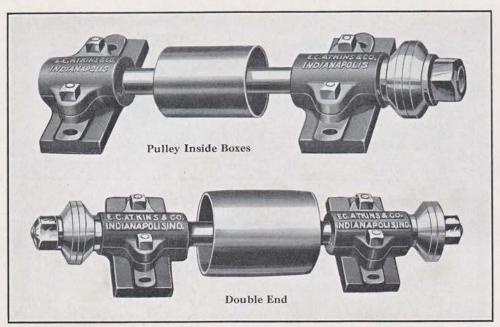


This is a specially constructed mandrel with flywheel in addition to pulley. Runs smoothly without vibration. The price does not include saws.

Extreme Length	Distance from Saw to Wheel	Diameter of Mandrel	Size of Pulley	Diameter Saw Collar	Hole in Saw	Price
38½ Inches	18½ Inches	1 5 Inches	7 x 7 Inches	4½ Inches	1¼ Inches	\$32.00



ATKINS CIRCULAR SAW MANDRELS CAST STEEL, SELF-OILING BOXES



PULLEY INSIDE BOXES, SINGLE END

No.	Extreme Length Inches	Diameter of Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Diameter of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	14	116	3	3	3	1	10 to 12	171/2	\$ 7.50
2	16	116	3	31/2	3	1	10 to 12	19	8.00
3	18	$1\frac{3}{16}$	3	4	31/2	11/8	14 to 16	27	9.00
4	20	$1\frac{3}{16}$	31/2	41/2	31/2	11/8	14 to 16	29	10.00
5	22	1 3	4	5	4	11/4	18	34	11.50
6	24	1 5 16	41/2	51/2	4	11/4	18	381/2	13.00
61/2	26	$1\frac{7}{16}$	5	6	41/2	$1\frac{5}{16}$	20 to 22	381/2	14.50
7	26	17/16	5	6	41/2	13/8	24 to 26	47	14.50
8	28	$1\frac{7}{16}$	51/2	61/2	41/2	13/8	24 to 26	49	16.00
9	32	$1\frac{1}{16}$	6	7	41/2	11/2	28 to 30	60	20.00
10	36	111	7	8	5	15%	32 to 38	77	26.00

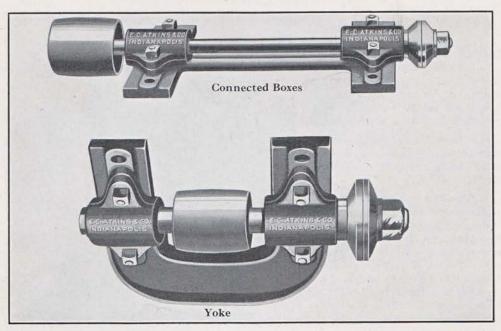
PULLEY INSIDE BOXES, DOUBLE END

No.	Extreme Length Inches	Distance from Saw to Saw on Double End Mandrels Inches	Distance from End to End of Boxes on Double End Mandrels Inches		Diam. of Pulley Inches	Face of Pulley Inches	Diam. of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	201/4	16	13	116	3	3	3	1	10 to 12	22	\$12.00
2	221/4	18	15	116	3	31/2	3	1	10 to 12	231/2	13.00
2 3	2434	20	16	$1\frac{3}{16}$	3	4	31/2	11/8	14 to 16	31	14.50
4	2634	22	18	$1\frac{3}{16}$	31/2	41/2	31/2	11/8	14 to 16	341/2	16.00
5	2814	231/4	193/4	1 1 5	4	5	4	11/4	18	41	18.00
6	3014	251/4	2134	$1\frac{16}{16}$	41/2	51/2	4	11/4	18	451/2	20.00
61/2	321/4	2634	2234	1 7 16		6	41/2	1 5	20 to 22	451/2	22.00
7	3214	263/4	2234	1 7 16	5	6	41/2	13/8	24 to 26	49	22.00
8	341/4	2834	251/2	17/16	51/2	61/2	41/2	13/8	24 to 26	59	24.00
9	3814	321/2	2734	$1\frac{16}{9}$	6	7	41/2	11/2	28 to 30	65	29.00
10	421/2	36	301/2	111	7	8	5	15%	32 to 38	75	35.00

Prices as listed do not include saws.

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



CONNECTED BOXES

No.	Extreme Length Inches	Length of Frame Inches	Distance from Center to Center of Bolt Holes Inches	Diam of Arbor Inches	Diam. of Pulley Inches	Face of Pulley Inches	Diam. of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1 2 3 4	$\begin{array}{r} 23\frac{1}{4} \\ 26\frac{1}{4} \\ 28\frac{1}{2} \\ 30\frac{1}{2} \end{array}$	17 19 20½ 22	$\begin{array}{c} 13\frac{3}{4} \\ 14\frac{1}{2} \\ 15\frac{3}{4} \\ 16\frac{1}{2} \end{array}$	$\begin{array}{c} \frac{15}{16} \\ 1\frac{1}{16} \\ 1\frac{3}{16} \\ 1\frac{3}{16} \\ 1\frac{5}{16} \\ 1\frac{7}{16} \\ 1\frac{7}{16} \\ 1\frac{9}{16} \end{array}$	3 3½ 4 4½	4 4½ 5 5½	3 3 3½ 3½ 3½	7/8 1 11/8 11/4	6 to 8 10 to 12 14 to 16 18	24 36½ 45 54½	\$ 9.00 11.00 13.25 15.50
4½ 5 6	$ \begin{array}{r} 33\frac{1}{2} \\ 33\frac{1}{2} \\ 36\frac{3}{4} \end{array} $	24 24 26	19 19 20¾	$1\frac{7}{16}$ $1\frac{7}{16}$ $1\frac{9}{16}$	5 5 6	6 6 7	4 4 4 ¹ / ₂	$\begin{array}{c} 1\frac{5}{16} \\ 1\frac{3}{8} \\ 1\frac{1}{2} \end{array}$	20 to 22 24 to 26 28 to 30	56 60 78½	17.75 17.75 20.00

YOKE

No.	End to End Boxes Inches	Diameter to Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Size of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	10	15	21/2	3	3	7/8	6 to 8	181/2	\$ 9.00
2	14	15 16 15 16	3	4	3	7/8	6 to 8	27	10.50
3	16		31/2	41/2	3	1	10 to 12	36	12.00
4	18	$\begin{array}{c} 1_{16}^{+} \\ 1_{316}^{-} \\ 1_{16}^{-} \\ 1_{16}^{-} \\ 1_{16}^{-} \\ 1_{16}^{-} \\ \end{array}$	4	5	31/2	11/8	14 to 16	45	14.00
5	20	1,5	41/2	$5\frac{1}{2}$	31/2	$1\frac{1}{4}$ $1\frac{5}{16}$	18	541/2	16.00
51/2	22	176	5	6	4	1 5	20 to 22	561/2	18.00
6	22	176	5	6	4	13/8	24 to 26	61	18.00
7	24	1 1 1 6	6	7	41/2	11/2	28 to 30	79	20.00

Prices as listed do not include saws.



MIXTER PATENT CHAMPION GUMMERS WITH AUTOMATIC SELF-FEED

No. 1 LARGE SIZE

The engraving represents Mixter's Famous Champion Gummer, No. 1, with patent adjustable automatic self-feed. It can be regulated at will to feed faster or slower, according to the work to be performed, and can be changed in an instant from self to hand-feeding.

It is self-acting, throwing out of gear when the teeth are cut to the required depth, making them of uniform length.

The Champion has the lateral or oscillating movement of the cutter, and is fully adjustable to all kinds of saws, from the largest circular to the smallest in general use; also mill and cross cut saws. The line of the teeth can be cut at any angle desired from horizontal to perpendicular. It cuts very rapidly, and with no risk of bending, breaking or case hardening the saw.

Weight, 24 pounds, packed.

No. 1 Patent Automatic Self-Feeding Gummer, including three cutters (usual size, ¾, ¾ and 1 inch) grinder and wrench......\$25.00

No. 2 SMALL SIZE

The engraving represents the No. 2 Patent Self-Feed Champion Gummer in position to gum mill saws or cross cut saws.

This size is especially adapted for cross cut saws, also small and medium circular saws, etc. Shingle mills, planing mills, sash, door and blind factories,

No. 1, Large Size In position for Gumming Mill and Cross Cut Saws

wagon and carriage, pattern and furniture shops, all need this gummer. It is also especially handy for lumbermen to carry in the woods for gumming cross cut saws. It will soon pay its cost in saving time and files.

The small size Champion has all the improvements and advantages of the large size Champion Automatic Self-Feed Gummer except that it is for smaller saws. Full directions sent with each. Weight, boxed, 22 pounds.

No. 2 Mixter Patent Automatic Self-Feeding Champion Gummer, including three cutters, %, ½ and 5% inch, grinder and wrench. \$30.00 Extra arbor for %-inch cutter for No. 2 Champion Gummer, net 1.50

"STANDARD" AND "IXL" SAW GUMMERS

THE "STANDARD"

Has an automatic, changeable self-feed, is very simple in construction, and beyond question a superior machine.

The "Standard" Saw Gummer is furnished complete, with three arbors, two

cranks and wrench, with four solid cutters, any size on list, and one cutter grinder.

Price, complete	\$20.00
Weight (packed)pounds	30

The "Standard" Saw Gummer complete, with three arbors, two cranks and wrench, with two inserted tooth cutters, any size on list, and fifty teeth.

Price, complete	\$22.50
Weight (packed)pounds	33

THE "IXL"

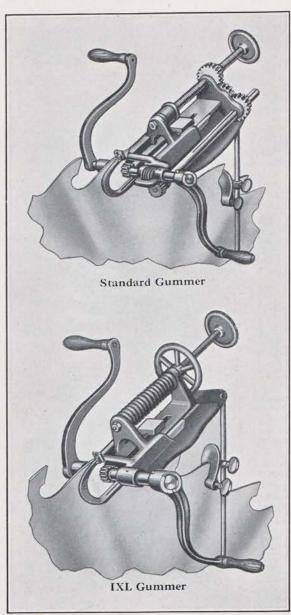
Has a changeable self-feed, but is not automatic. It is pronounced first-class by those using it, and we sell it as such. It is designed especially as a lowpriced gummer, is strong and will do its work thoroughly.

The "IXL" Saw Gummer complete, with three arbors, two cranks and wrench, with three solid cutters, any size on list, and one cutter grinder.

Price, complete	\$16.00
Weight (packed)pounds	

The "IXL" Saw Gummer complete, with three arbors, two cranks and wrench, with one inserted tooth cutter, any size on list, and fifty teeth.

Price, complete	\$16.00
Weight (packed)pounds	



ATKINS GRINDERS

For Jewelers, Repair Shops or any light grinding. Will carry two wheels 6" x 1" or smaller.

	No. 6 Grinder	No. 6-L Grinder
Length of Spindle	11"	12 % "
Diameter of Spindle in Bearing	3/4"	3/4"
Diameter of Spindle between Flanges	5/0"	5/8"
Length of Possing	17%"	17/8"
Length of Bearing	17/8" x 13/4"	17/8" x 13/4"
Distance between Wheels	61/6"	8"
Distance between Wheels.	21/4"	21/1"
Diameter of Flanges	-5"	5"
Height to Center of Spindle.	10 lbs.	13 lbs.
Net Weight of Head.	34 lbs.	42 lbs.
Net Weight of Column	10" x 12"	10" x 12"
Size of Column	10 X 12	10 X 12

No. 6 GRINDER

Made with tight pulley only. With or without rests. With or without wheel guards.

No. 6-L GRINDER

Made with tight and loose pulleys. With or without rests. With or without wheel guards.

LIST PRICES

No. 6 Head only				15		100	112		36		833	35							\$ 8.
No. 6-L Head only				*			0.6			+:	-				÷	*	83		10.
Extra for Rests		2				(9)					-		Œ.	8	8	×	8	# 1	2.
Extra for Wheel Gua	rds	1		. 7		100				ĸ.	÷(4	0.5		(0)	20	ye :-		• 1	 4.
Extra for Column for	N	0.	6	(ir	ir	id	eı	۲.			0	Ý	V					18.
Extra for Column for	N	0.	6	-I		G	ri	ne	de	er	4	× 15		×	+3			ö	20.
Extra for Countersha	ft.												·	Ų.					15.

APPROXIMATE SHIPPING WEIGHTS

	No. 6 Grinder	No. 6-L Grinder
Head only Head with Rests Wheel Guards Column No. 1 Countershaft.	13 lbs. 15 lbs. 15 lbs. 55 lbs. 40 lbs.	20 lbs. 22 lbs. 15 lbs. 60 lbs. 40 lbs.

In ordering state if Rests and Wheel Guards are wanted, and order Column and Countershaft if desired; otherwise Head only will be shipped.

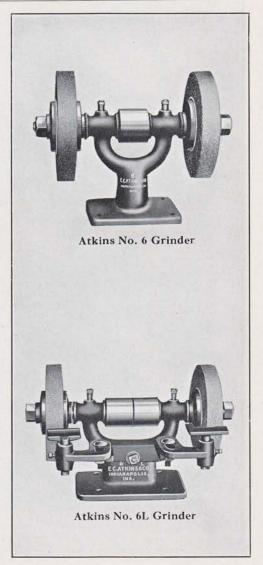
Grinding Wheels are not included but will be furnished in any size suitable for work required at lowest market prices. Give the diameter and thickness and the class of grinding for which they are to be used.

The No. 6 and 6-L have cast iron bearings adjustable for wear. All other grinders are of the Wick Oiling type and have babbitted bearings.

Wheel guards are made to attach to the top plate of the column or where a column is not used they are attached to the bench; the height of the guards being so arranged that no extra blocking is necessary.

In ordering be sure to state whether the head only or head with guards is wanted. Also specify the column and countershaft if wanted. In ordering No. 6 and No. 6-L specify "with rests" or "without rests" as wanted.

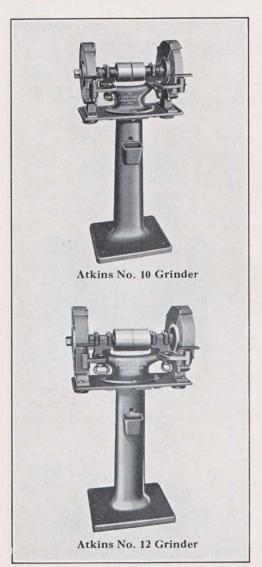
Grinding wheels are not included but we will be glad to furnish our Acrolite Wheels for steel or Ferrolite Wheels for cast iron at the lowest price suitable for the work required, if included in the order. Give the diameter and thickness, and class of grinding for which wheels are used.



ATKINS GRINDERS

Made with tight and loose pulleys unless specially ordered with tight pulleys only. Babbitted wick oiling bearings. Adjustable tool rests. Legal size flanges. Carbon steel spindle.

	No. 10 Grinder	No. 12 Grinder
Wheel Size	10" x 1½"	12" x 2"
ength of Spindle	201/2"	255%"
ength of Spindle	1.1."	116"
Diameter Spindle in Bearing	116	1 16
Diameter Spindle between Flanges	2 "	1 "
ength of Bearing	3 21/4	4 00 (8
aze of Pullevs	3½" x 2½"	41/4 x 3%
Distance between Wheels	14"	1734"
Diameter of Flanges	4½"	57/8"
leight to Center of Spindle	71/2"	8"
Net Weight of Head	46 lbs.	65 lbs.
Size Base of Column.	14" x 16"	15" x 18"



No. 10 GRINDER

With or without Guards. With or without Column. Will carry two wheels $10'' \times 1\frac{1}{2}$ " or smaller.

No. 12 GRINDER

With or without Guards. With or without Column. Will carry two wheels $12\,''$ x $2\,''$ or smaller.

LIST PRICES

	No. 10 Grinder	No. 12 Grinder
Head only	\$30.00	\$40.00
Column only	35.00 8.00	40.00 11.00
Wheel Guards only	25,00	30.00

APPROXIMATE SHIPPING WEIGHTS

	No. 10 Grinder	No. 12 Grinder
Head only (with rests)	55 lbs. 30 lbs. 75 lbs.	85 lbs. 40 lbs. 85 lbs.
No. 3 Countershaft	65 lbs.	70 lbs.

These Grinders are regularly furnished with adjustable tool rests, but columns, wheel guards and countershaft are extra and should be specified if wanted.

Grinding wheels are not included, but will be furnished in any size suitable for work required at lowest market prices. Give the diameter and thickness and the class of grinding for which they are to be used.

These grinders are made with the Wick Oiling type of babbitted bearings. When used in connection with the column, the guards are attached to the top plate of the column, but where the column is not used they are attached to the bench. The height of the guards is arranged so that no extra blocking is necessary.

They are made regularly with tight and loose pulleys, but can be furnished if necessary on special orders, with single pulley, at the same price. The elimination of the loose pulley makes necessary the use of two set collars to avoid end play.

All machines are equipped with nickel-plated oil cups and have oil chambers sufficiently large to avoid the necessity of oiling more than twice a week, even when the grinder is in constant use.

ATKINS GRINDERS

Made with tight and loose pulleys unless specially ordered with tight pulley only. Babbitted wick oiling bearings. Adjustable tool rests. Legal size flanges. Carbon steel spindle.

	No. 10-S Grinder	No. 14 Grinder
Wheel Size	10" x 1½"	14" x 2½"
Length of Spindle	14"	31"
Diameter of Spindle in Bearing		1 16
Diameter of Spindle between Flanges		1 1/4
Length of Bearings	01/// 01///	17/1 11/1
Size of Pulleys	3½" x 2½"	47/8" x 41/4" 22"
Distance between Wheels	99/11	67/11
Diameter of Flanges	338"	0 / 8
Height to Center of Spindle	29 lbs.	104 lbs.
Net Weight of Head	12" x 14"	18" x 22"
Size of Base of Column	12 X 14	10 X 22

No. 10-S GRINDER

Single end only. With or without Guard. With or without Column. Will carry one wheel $10'' \times 1\frac{1}{2}$ " or smaller.

No. 14 GRINDER

With or without Guards. With or without Column. Will carry two wheels $14'' \times 2\frac{1}{2}''$ or smaller.

LIST PRICES

	No. 10-S Grinder	No. 14 Grinder	
Head only	\$20.00 35.00 6.00 25.00	\$55.00 55.00 15.00 30.00	

APPROXIMATE SHIPPING WEIGHTS

	No. 10-S Grinder	No. 14 Grinder
Head only (with rests) Wheel Guards Column. No. 3 Countershaft. No. 4 Countershaft.	40 lbs. 20 lbs. 70 lbs. 65 lbs.	125 lbs. 60 lbs. 130 lbs.

These grinders are regularly furnished with adjustable

These ganders are regularly turnished with adjustable tool rests, but column, wheel guards and countershafts are extra and should be specified if wanted.

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avoid end play.

These grinders are made with the Wick Oiling type of habbitted bearings. When used in connection with the column, the guards are attached to the top plate of the column but where the column is not used they are attached to the bench. The height of the guard is arranged so that no extra blocking is necessary.

COUNTERSHAFTS

	No. 1	No. 3	No. 4
Size of Drive Pulley Size of Tight and Loose	8" x 2"	10" x 3½"	12" x 4"
Pulleys	4" x 2"	5" x 3"	5" x 3"
Diameter of Shaft	7/8" 6"	1 1 1 8 "	$1\frac{1}{16}''$
Drop of Hangers Length of Bearings	31/4"	4"	4"
For Use with Machine Numbers	6 and 6-L	10 and 10S	12 and 14
List Prices	\$15.00	\$25.00	\$30.00



ATKINS ACROLITE AND FERROLITE WHEELS

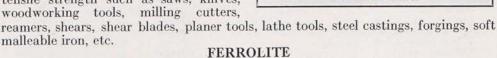
ACROLITE

Acrolite is nearly pure Crystalline Alumina. It is almost as hard as the diamond, and will readily cut the hardest steel. It will do any work that can be done with Emery or Corundum, and do it quicker and better.

Acrolite is made from the mineral Bauxite in electric furnaces, at a temperature of over 4000° F. The Bauxite is melted and the impurities which it contains are reduced and separated from the Alumina. Upon cooling the latter crystallizes. The result is nearly pure Crystalline Alumina—almost as pure as the ruby or the sapphire and next in hardness to the diamond.

Crude Acrolite is crushed into grains which are sorted into the following sizes: Nos. 8-10-12-14-16-20-24-30-36-46-54-60-70-80-90-100-120-150-180-200, F-FF-FFF-FFFF-XF-YF and ZF. grains are used in the manufacture of Acrolite Grinding Wheels, also in the manufacture of Abrasive Paper and Cloth and for polishing purposes.

Acrolite Wheels are particularly adapted for grinding materials of high tensile strength such as saws, knives,



Ferrolite is chemically known as Carbide of Silicon. It is a chemical combination of the two elements, Carbon and Silicon. It is produced from a mixture of cokesalt-sawdust and sand by fusion in an electric furnace at a temperature of about 4000° F. After cooling the resultant mass is crushed into grains which are sorted into the same sizes as Acrolite. These grains are used in the manufacture of Ferrolite Grinding Wheels, also in the manufacture of Abrasive Paper and Cloth.

Ferrolite Wheels are particularly adapted for grinding materials of low tensile strength such as cast iron, chilled iron, stove castings, hard malleable iron, brass, copper, bronze and aluminum-also such materials as pearl, marble, cement, porcelain, rubber, etc.

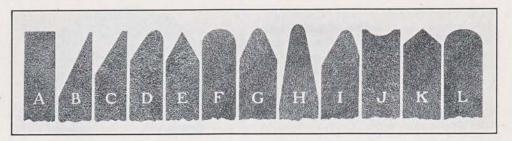
PROCESS OF MANUFACTURE

There are three well established processes used in the manufacture of Acrolite and Ferrolite Grinding Wheels, viz: Vitrified, Silicate and Elastic. The Vitrified process is employed for the most part. The Silicate process is used quite extensively in the manufacture of wheels for knife grinding, wet tool grinding and surface work. Elastic wheels are used advantageously for cutting off small stock, for slotting work, roll grinding, knife grinding and general work requiring wheels as thin as 32 up to 1/8" thick. They are unexcelled for saw gumming where unusually thick wheels are required such as sharpening the teeth of heavy band saws with large tooth space. 103



STEEL SAWS ATKINS SILVER

GRAINS AND GRADES OF ACROLITE WHEELS FOR VARIOUS CLASSES OF GRINDING IN WOODWORKING PLANTS



The following table shows the grains and grades of wheels generally used for different kinds of grinding in woodworking plants, and is based upon the wheel being mounted on a grinding machine in good condition and being operated at the correct speed as well as upon the proper application of the work to the wheel.

Acrolite wheels can, however, be supplied in any grain or grade desired to suit

the particular requirements of any user.

In submitting the following table of our standard grains and grades of Acrolite wheels for use in woodworking plants it must be understood that the information given is only general as varying conditions may materially change the recommendations.

Class of Work	Process of Manufacture	No. of Grain or Degree of Coarseness Usually Furnished	Grade Letters or Degree of Hardness Usually Furnished	
Woodworking Bits—				
Hand	Elastic	36 to 60	5	
Hand	Vitrified	60 to 120	M to N	
Knives—				
Hog, automatic	Silicate	30 to 46	I to J	
Jointer, hand	Silicate	36 to 60	K	
Leather Splitting, automatic	Elastic	30 to 36	11/9	
Leather Shaving, automatic	Vitrified	46	O to P	
Meat Chopping, hand	Silicate	20 to 60	M	
Molding, hand	Vitrified	36 to 60	K to M	
Paper, automatic	Silicate	30	J	
Planer, automatic	Silicate	30 to 36	J	
Planer Slots, hand	Elastic	16 to 20	I	
(In back of)—				
Glidden, automatic	Elastic	60	2	
Leather Skiving, automatic	Elastic	60	2 2	
Rag, automatic.	Silicate	30 to 36	I to J	
Shear, automatic	Silicate	24 to 36	L to N	
Slitter, hand	Vitrified	36 to 60	K	
Sticker, hand	Vitrified	36 to 60	K	
Cigarette, automatic	Silicate	36	J	
Veneer, automatic	Silicate	30	I	
Saws—	Micato	.00		
Metal, Dish Wheels, automatic	Vitrified	36 to 46	K to M	
Metal (Hot), Plain Wheels, automatic	Vitrified	36 to 46	K to M	
Tube (Hot), Plain Wheels, automatic	Vitrified	60	P	
Metal (Cold), Plain Wheels, automatic	Vitrified	46 to 60	M to O	
Cold Saw Inserted Teeth	Vitrified	36 to 46	K to L	
Metal (Slotting), Plain Wheel, automatic	Elastic	60 to 80	4 to 5	
Wood (Band), Plain Wheels, automatic	Vitrified	36 to 46	L to M	
Metal (Band), Plain Wheels, automatic	Elastic	80 to 150	4	
Wood (Circular), Plain Wheels, automatic	Vitrified	36 to 46	L to M	
Slate (Circular), Plain Wheels, automatic	Vitrified	36 to 60	L to M	
Wood (Heavy Band Large Tooth Space), concave	4 Itimed	50 10 00	17 00 141	
automatic	Elastic	30	4	

ATKINS ACROLITE AND FERROLITE WHEELS STANDARD GRADE LIST

The following grade list is used to designate the degree of hardness of our Vitrified and Silicate Wheels, both Acrolite and Ferrolite.

EF G	Sof
ч	
K	
MEDIUMM	
Medium HardQ	R
	S
Hard	U v
	w w
Extremely Hard	Y
	2

The intermediate letters between those designated as soft, medium soft, etc., indicate so many degrees harder or softer; e. g., L is one grade or degree softer than medium, O, two degrees harder than medium, but not quite medium hard.

Elastic Wheels are graded as follows: $\frac{1}{2}$, $\frac{3}{4}$, 1, $\frac{1}{2}$, 2, $\frac{2}{2}$, 3, $\frac{3}{2}$, 4, $\frac{4}{2}$, 5, 6 and 7, grade $\frac{1}{2}$ is the softest and grade 7 the hardest.

TABLE FOR SELECTION OF GRADES

Class of Work	ACROLITE		FERROLITE	
	Grain	Grade	Grain	Grade
Cast Iron—Heavy Castings Drills—Twist Point Grinding	16 to 20	Q to R	16 to 24	Q to S
Larger Wheels	36 to 46	K to M		
Smaller Wheels	46 to 60	J to M		
Internal Grinding—Hardened Steel	22/27/27	17.1 97.577	100000000000000000000000000000000000000	200000000000000
Wheels 4 inches or over	36 to 46	J to M		
Wheels under 4 inches	46 to 60	I to M		
INTERNAL GRINDING—Cast Iron				W - 551-
Wheels 4 inches or over			30	I to M
Wheels under 4 inches			36 to 60	H to K
Saws—Machine Shop—General Work		100000000000000000000000000000000000000		
Wheels 10 inches or over	24 to 46	P to Q		
Wheels under 10 inches	46 to 60	M to O		
MILLING CUTTERS—High-Speed Steel	46 to 60	I to M		
Large	14 to 20	P to U		
Small (vitrified)	20 to 30	P to R		
Saw Gumming	30 to 46	L to M		
Steel Castings (elastic or shellac)		20 18-1101	Action Control of the	
Large	10 to 20	Q to W		
Small	20 to 30	P to R		
Steel—Soft Cylindrical		6.100		
Large	30 to 60	L to O		
Small	30 to 60	K to P		
Hardened Cylindrical	46 to 60	J to L		
Soft Surfacing	16 to 36	H to K		
Hardened Surfacing	16 to 46	H to K		
Stove Castings			711 01	0
Roughing			14 to 24	Q to S
Finishing		77 4- 0	60 to 80	P to Q
Taps	46 to 60	K to O		
Roughing	20 to 30	P to O		
Finishing	36 to 60	O to P		
High-Speed Tools.	46 to 60	M to N		
Knives				5.0 0.00 0.00 0.00 0.00 0.00
Hog	24 to 60	J		
Paper	30	J or K		
Planer	30	J		
Moulding	36	L or M		
Cold Metal Cutting	46	O to Q		
Metal Steeling	60	P		**********

ATKINS SILVER



STEEL SAV

LIST PRICES—STRAIGHT WHEELS SUBJECT TO DISCOUNT

Diameter								Титс	THICKNESS OF	WHEELS IN INCHE	IN INCHES	100						
1	1/4	8%	1/2	8/8	3%	1/8	1	11/4	11/2	134	61	214	21/2	234	60	314	3%	334
	\$.55	\$.65	\$.70	\$.75	\$.85	8 .90	\$1.00	\$1.15	\$1,25	\$1.40	\$1.55	\$1.70	\$1.85	\$2.00	\$2.15	\$2.25	\$2.40	\$2.55
172	09.	02:	.80	.85	.95	1.00	1.10	1.30	1.45	1.65	1.80	2.00	2.15	2.35	2.50	2.70	2.85	3.0
	08.	06.	1.00	1.10	1.20	1.30	1.40	1.60	1.80	2.00	2.20	2.35	2.55	2.75	2.05	3.15	3.35	3.3
101	06.	1.05	1.15	1.25	1.35	1.45	1.55	1.80	2.00	2.25	2.45	2.70	2.90	3.15	3,35	3.60	3.80	4.00
	1.00	1.15	1.25	1.40	1.50	1.65	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3,75	4.00	4.25	4.5
-	1.15	1.30	1.45	1.60	1.70	1.85	1.95	2.25	2.50	2.80	3.05	3.35	3.60	3.90	4.15	4.45	4.70	5.0
	1.40	1.50	1.70	1.85	2.00	2.20	2.35	2.70	3.00	3.35	3.70	4.10	4.45	4.80	5.10	5,45	5.75	1.9
· 62	1.60	1.75	2.00	2.20	2.35	2.60	2.80	3.20	3,55	3,95	4.35	4.80	5.20	5.60	00.9	6.40	6.75	7.1
	1.80	2.00	2,30	2.50	2.70	2.95	3.20	3.65	4.10	4.55	5.00	5.45	5.90	6.35	6.85	7.30	7.70	8.1
	2.30	2.60	2.90	3.20	3.50	3.80	4.10	4.70	5.30	5.90	6.50	7.10	7.70	8.40	9.00	09.6	10.20	10.8
	2.75	3.15	3.55	3.90	4.30	4.75	5.15	5.85	6.70	7.50	8.25	00.6	9.85	10.70	11.50	12.25	13.00	13.7
	3.25	3.75	4.25	4.75	5.30	5,75	6.25	7.25	8,30	9.30	10.30	11.30	12.35	13,35	14.40	15.40	16.45	17.5
	3.70	4.35	2.00	5.60	6.25	08.9	7.45	8.70	10.10	11.40	12.70	14.00	15.25	16.50	18.00	19.50	21.00	22.5
	4.39	5.13	2.90	02.9	7.45	8.20	00.6	10.50	12.25	14.00	15.75	17.50	19.25	21.00	22.75	24.50	26.25	27.5
	5.50	6.20	7.25	8.25	9.35	10.40	11.50	13.75	15.75	17.85	20.00	22,35	24.75	27.25	29.50	31.90	34.25	36.5
4	ALL ALL CALL		9.30	10.80	12.30	13.80	15.25	18.25	21.20	24.20	27.15	30.35	33.60	36.85	40.00	43.30	46.50	49.7
9		* ** * ** * * * *	*****	TAMOROUS.	15.75	17.75	19.75	23.75	27.70	31.70	35.70	39.60	43.55	47.45	51.35	55.25	59.20	63.3
7		S. T. S. S. S. S. S. S. S.	0.1000.000.000	C40404040404040404040404040404040404040	(40404040404040404040404040404040404040	XXXXXXXXXXXX	24.35	29.40	34.50	39.50	44.50	49.20	53.90	58.55	63.25	68.00	72.65	77.
	******	Section 100	1111111111		*****		********	36.10	42.00	47.75	53,75	59.40	65.00	70.70	76.40	82.00	87.70	93.2
	11111111	*********	*********	**********	C. S. C. S. C. S. S. S.	*********	****	44.45	51.60	58.75	65.90	73.00	80.00	87.00	94.00	101.00	108.00	115.
7			1 11 11 11 11 11	The same of	4/4 4 4 4/4			53.00	00.19	70.00	78.00	87.00	95.00	104.00	112.00	120.00	129.00	137.0
	0.0000000000000000000000000000000000000	Carried Carlo	日本大学の(中国)	100 Carlo 100 Carlo 100 Carlo	Dec 2 (4) 4) 4 (4)	SAME OF STREET		00.09	20.00	80.00	90.00	101.00	111.00	122.00	133.00	143.00	154.00	165.0
1	11/1/2 - 11/1/1	THE WATER	STATE OF THE	The state of the s				00.69	83.00	97.00	111.00	123.00	136.00	148.00	160.00	171.00	183.00	194.0
,	T. C. C. C. C. C. C.	********	100000000000000000000000000000000000000	No. of the State of	Thursday.			78.00	92.00	107.00	121.00	135.00	149.00	164.00	178.00	192.00	206.00	221.0
25			*******						107.00	124.00	141.00	158.00	175.00	192.00	210.00	225.00	240.00	255.
8			0.0000000000000000000000000000000000000						123.00	143.00	162.00	182.00	201.00	221.00	240.00	256.00	273.00	289.
									100000000000000000000000000000000000000	22 4 4 4					100000000000000000000000000000000000000		-	2000

VITRIFIED AND SILICATE

SHELLAC AND RUBBER

	4					86.50	8.00	9.75	12.00	15.00	18.50	22.30	26.10	30.00	34.00	48.00	92.00	85.00	102.00	120.00	140.00	170.00	200.00	231.00	265.00	305.00	350.00	
	33%					86.10	7.50	9.15	11.30	14.10	17.40	21.00	24.60	28.25	32.10	45.25	63.10	80.00	00'96	113.00	132.00	160.00	188.00	217.00	250.00	287.00	330.00	The second second
	31/2					85.70	7.00	8.55	10.55	13.20	16.30	19.70	23.10	26.55	30.20	42.45	59.20	75.10	90,00	106.00	124.00	150.00	176.00	203.00	234.00	269.00	309.00	
	314					\$5.30	6.50	7.95	9.80	12.25	15.25	18.40	21.60	24.80	28.30	39.70	55.30	70.15	84.00	99.00	116.00	140.00	164.00	190.00	218.00	251.00	289.00	
	33			\$3.35	4.00	4.90	00.9	7.35	9.10	11.35	14.15	17.10	20.00	23.10	26.40	36.90	51.35	65.20	78.00	92.00	108.00	130.00	153.00	176.00	202.00	233.00	268.00	
	234			\$3.10	3.70	4.50	5.50	6.75	8.35	10.45	13.05	15.80	18.55	21.40	24.45	34.15	47.45	60.25	73.00	85.00	100.001	120.00	141.00	163.00	186.00	215.00	248.00	
	23/2			\$2.85	3.40	4.10	5.00	6.15	7.65	9.55	11.95	14.50	17.00	19.65	22,55	31.35	43.55	55.30	67.00	29.00	92.00	110.00	129.00	149.00	171.00	198.00	227.00	
CHES	21/4			\$2.60	3.05	3.70	4.50	5.55	06'9	8.65	10.85	13.20	15.55	17.90	20.65	28.60	39.65	50.30	61.00	72.00	84.00	100.00	117.00	135.00	155.00	180.00	207.00	
ELS IN INCHES	23	\$1.65	1.95	2,35	2.75	3.30	4.00	4.95	6.20	7.75	9.75	11.90	14.00	16.20	18.75	25.80	35.75	45.35	55.00	65.00	76.00	90.00	106.00	122.00	140.00	162.00	187.00	
OF WHEELS	13%	\$1.50	1.80	2.10	2.45	2.90	3.50	4.35	5,45	6.80	8.70	10.60	12.50	14.50	16.80	23.00	31.80	40.40	49.00	58.00	68.00	80.00	94.00	108.00	124.00	144.00	166.00	
THICKNESS	11/2	-		-			-	-			-		11.00	2-17			-	-			_	-				Sea Sea	200	
Ti	11/4	\$1.20	1.40	1.60	1.80	2.10	2.50	3.15	4.00	5.00	6.50	8.00	9.50	11.00	13.00	17.50	24.00	30.50	37.00	44.00	52.00	60.00	70.00	81.00	93.00	108.00	125.00	
	1	\$1.00	1.20	1.40	1.60	1.80	2.10	2.60	3.40	4.40	5.90	7.40	00.6	10.70	12.50	15.50	19.50	24.50	30.00	35.00	42.00	50.00	29.00	00.89	78.00	90.00	105.00	The second secon
	%	_		_	_	_			_	_		_	9.00	_	_	_	_	_		_	_	_	_	_				
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	%		-	-	÷	-	-	_	_	-	_		00'9 0	-	-	_		100		30	746	0.774		******	111	*****		VENDO DESCRIPTION OF THE PROPERTY.
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	/88	.55 \$0.70		253	100	-					200		86		029	9.9		33			144.1	930 - 110	100					
	1/8 1/4	.50		200	- 2		121				20	_	227	127			2	25	10.	13.	The same	***	The state of the state of	E 1 (1) (1) (1)				
Jiam-		40		61	-								00 0	_								1000		-				



CUP WHEELS FOR KNIFE GRINDING

CUP WHEEL

Machine	D	W	H	R	B	List
American Woodworking Machine	Province in					-
Co	8	43%	1	I	1	\$20.70
Baldwin, Tuthill & Bolton	12	4	1	11/4	1	34.95
Baldwin, Tuthill & Bolton	8	31/2	1	3/4	3/4	16.45
Baldwin, Tuthill & Bolton	6	3	1	3/4	3/4	9.00
J. A. Fay & Egan Co	6 8	41/2	11/2 33/4 11/2 2	1	1	20.70
Northampton Emery Wheel Co	9	4	334	1	3/4	21.70
Buffalo Knife Grinders	8	31/2	11/6	114	1	16.45
Buffalo Knife Grinders	12	4 "	2	134	î	34.95
Buffalo Knife Grinders	10	31/2	11/2	114	î	26.25
Buffalo Knife Grinders (Bench)	6	3	1	1	î	9.00
The Bridgeport Safety Emery			1	3		2400
Wheel Co	20	8	133%	2	114	165.35
The Bridgeport Safety Emery		150		-	17.4	100.00
Wheel Co	20	8	4	2	11/4	165.35
The Bridgeport Safety Emery			- 5	-	100	100.00
Wheel Co.	24	8	3	2	137	217.70
The Bridgeport Safety Emery				-	*24.	
Wheel Co	24	8	17	9	134	217.70
Diamond Machine Co	14	4	91/2	2 2	1/2	
Diamond Machine Co	14	35%	12		72	
The Safety Emery Wheel Co	20	8	16			
The Springfield Mfg. Co	11 3/8	8 5 5		Ring		42,40
The Springfield Mfg. Co	15 78	5	1974	Ring	× * * ×	60.10
Capitol Machine Co	14	7	134	11/2	11/8	
Hall & Brown Woodworking	1.4		174	172	1/8	10.00
Machine Co	8	4	11/4	7	11/2	17.10
Hanchett Swage Works	8	31/2	1	1	1 2	16.45
Hanchett Swage Works	10	4	1	1	1	26.35
Hanchett Swage Works	12	4	1	1	i	33,30

FLARE SIDE CUP WHEEL

Machine	D	W	H	R	В	List
S. A. Woods (No. 227 Side Head Grinder)	6	21/2	3/4	14	34	\$7.70
J. A. Fay & Egan Co	6	21/2	3/4	1/4	34	7.70 5.30

YATES SIDE HEAD GRINDER

Machine	D	W	Н	R	В	List
P. B. Yates Machine Co. (Side Head Grinder No. 137)	8	1 %	1	16	5/8	\$9.30

ACROLITE AND FERROLITE BRICKS

Size	List Price per Dozen	Size	List Price per Dozen
4 x 1 x 1/4	\$2.40	6 x 2 x 2	\$13.80
4 x 1 x 1/2	2.40	6 x 3 x 2	19.20
4 x 2 x 1/2	3.60	6 x 3 x 3	27.00
4 x 2 x 1	6.00	8 x 2 x 1	9.60
4 x 2 x 2	9.60	8 x 2 x 2	17.40
4 x 3 x 2	13.80	8 x 3 x 2	22.80
4 x 3 x 3	19.20	8 x 3 x 3	36.00
4 x 4 x 4	33.00	8 x 4 x 2	33.00
6 x 2 x 1/2	5.40	8 x 4 x 3	45.60
6 x 2 x 1	7.20	8 x 4 x 4	60,00

ACROLITE AND FERROLITE JOINTER STONES

No.	Size	Doz.	No.	Size	List per Doz.
	1½x¾x½	\$3.60	1000000	4x3/4x 5 Bevel end	\$4.20
	13/4x3/4x1/2	3.60		4 x 7/8x 1/6	4.20
	21/2x 33x 1/4 Bevel	4.20		4 x 7/8x 1/4	4.20
	2¾x¾x¾	4.20		4 xl Round	6.60
	3 x34x1/2	4.20		4 x1 x3/8	4.80
	3 x¾x½ 3 x¾x¾	4.20		4 x1½x½	6.60
	3 x3/4 x3/4	4.80		4 x2½x¾	12.00
	3 x 1 x 1/2	4.20		4 x3½x¾	15.00
	3 x 1 x 34	4.80		4 x2 x34	12.00
****	3 %x1 1/4 x 3/8 Taper	5.40		6 x3½x¾	19.20
	4 x34x14	4.20		61/4 x3 x3/4	18.00
2.53.14	4 x3/4x3/4	5.40	1	1000	

Bricks and Stones furnished in any grain or grade desired. In ordering state whether for roughing or finishing and whether coarse, medium, or fine stones are required.



STEEL SAWS

STANDARD SHAPES OF WHEELS FOR SAW GUMMING

See page 105 for recommended grains and grades for Saw Gumming Wheels. In ordering state shape required.

WHEELS FOR KNIFE GRINDING STRAIGHT WHEEL

Machine	D	T	Н	List
The Bridgeport Safety Emery Wheel Co.	36	2	24	\$185.00
The Springfield Mfg. Co	26	11/2	12	70.00
The Springfield Mfg. Co	36	2	24	185.00
Carver Cotton Gin Co	26	11/2	6	68.93
Carver Cotton Gin Co	26	11/2	11/2	70.00
The Defiance Machine Works	22	11/2	2	51.60
J. A. Fay & Egan Co	16	3/4	1,7	15.75
J. A. Fay & Egan Co	24	11/2	10	56.10
Hall & Brown Woodworking Machine Co.	22	11%	134	51.60
Hanchett Swage Works	26	11%	2	70.00
Hanchett Swage Works	8	1/6	ī	4.23
The W. O. Hickok Mfg. Co	22	11%	15%	51.60
E. & B. Holmes Machinery Co	16	114	11/2	23.75
Northampton Emery Wheel Co	26	11/2	21/2	70.00
The Seybold Machine Co	30	11/2	16	80.90
The Seybold Machine Co	30	11	16	68.50
The S. A. Woods Machine Co	26	110 112	6	68.95
	26	11/2	15	61.50
American Woodworking Machine Co	22	11/2		51.60
American Woodworking Machine Co	22	172	134	2.35
American Woodworking Machine Co	4 5	î	34	3.20
American Woodworking Machine Co	6	1	117	4.10
American Woodworking Machine Co		11/	13/4	
Baldwin, Tuthill & Bolton	26	11/2	1%	70.00

RAISED FLANGE WHEEL

10	Machine	D	T	H	List
The Bridge	eport Safety Emery Wheel Co.	26	11/2	12	\$ 70.00
	port Safety Emery Wheel Co.	36	2	24	185.00
The Safety	Emery Wheel Co	36	2	24	185.00
	Emery Wheel Co	26	11/2	9	70.00
The Spring	gfield Mfg. Co	26	11/2	12	70.00
	gfield Mfg. Co	36	2	24	185.00
	s Machine Co	26	11/2	12	70.00

In ordering give the letters on the cut on page 104 to show the face of wheel required.

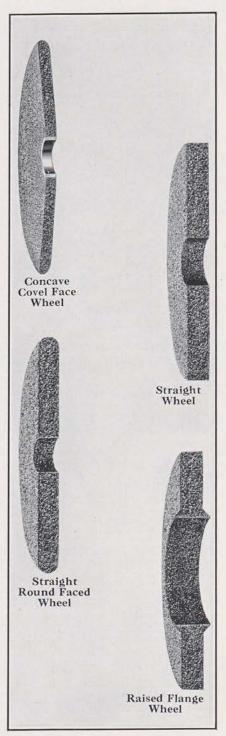
We turn wheels to any desired shape. When special shapes are required a diagram should accompany the order.

All wheels furnished with square face unless otherwise ordered.

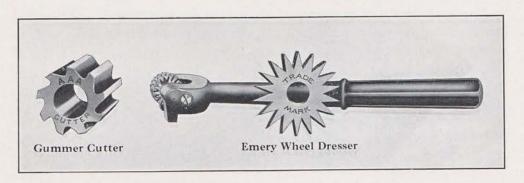
SUGGESTIONS FOR ORDERING

Unless through past experience the exact grain, grade and kind of abrasive required is known, we suggest leaving the selection to us, giving us the following information:

Diameter and thickness of wheel. Size of arbor hole. Shape of face. Grain and grade. Kind of machine used. Speed of spindles. Speed of work. Wet or dry grinding. Kind of material to be ground. If a cup wheel, thickness of rim and back. If a cylinder wheel, thickness of rim.



ATKINS SPECIALTIES



	G	UMM	ER C	UTTI	ERS					
For Mixter's Standard, I.X.	L., Bos	s and D	isston's	Gumm	ers. W	hen ord	lering g	ive mal	ke of gu	mmer.
Size inches Weight, each ounces Price each	3/8 1/4	1/2 1/2	5/8 3/4	3/4 1	7/8 13/4	1 2	$\frac{11/8}{21/2}$	$\frac{1\frac{1}{4}}{3\frac{1}{2}}$	$\frac{1\frac{1}{2}}{5\frac{1}{4}}$	
S	TONI	e's G	UMM	ER C	UTTI	ERS				
Size			i	nches . each	3/8 \$0.50	½ \$0.50	5/8 \$0.75	³ ⁄ ₄ \$1.00	7/8 \$1.25	1 \$1.50
Approximate weight, ½ po	und, ea	ach.								
	STAF	GUN	имен	R CU	TTER	RS				
Size						i	nches , each	³ ⁄ ₄ \$0.55	7/8 \$0.60	1 \$0.65
Approximate weight, 3/4 po									6 4	
Note—In ordering cutters, can send us an impression of one to be used in.	be sur end of	e and gi	ive size on pape	of hole er. Be p	, as wel particul	l as size ar to s	e of cut tate wh	ter requat gun	uired, o imer th	ey are
HUNTIN	GTO	N EM	ERY	WHE	EL D	RES	SERS			
For turning, shaping, shafull speed.	rpening	g and r	removin	g glaze	e from	solid	emery	wheels	, runn	ing at
Price								p	each, each	\$0.75 .15
Weight, complete, 15% pour										

IMPROVED CUTTER GRINDERS

Grind cutters perfectly round and true.	
Priceeach	\$2.00
Weight, 13% pounds, each.	

CANTOL BELT WAX

Mexican leather workers discovered many years ago an exuded film of wax that prevented the evaporation of the milk of a cactus plant during the hot, dry summer season. They used it to fill pores of leather and give a protecting coat. Leather so treated over a hundred years ago seems as good as it ever was.

This was placed on the market in August, 1914, to stop the slip and prevent the evaporation of cod oil and tallow from leather belts. It is recommended by manufacturers of frictioned-duck, balata and cotton belting to "water proof," "oil proof," and give belts additional traction without making them sticky as resin dressings do.

Large factories in the United States are using Cantol Belt Wax regularly. Where dust conditions prevail it is especially desirable since it gives traction without making belts sticky.

Just as rubber heels prevent a shoe from slipping on a rug without pulling off the nap, so Cantol Belt Wax prevents slipping of belts around the pulleys without sticking the belts to the pulleys. Cantol Wax prevents dust from absorbing the oil used as an internal lubricant.

The fibres of a leather belt are interwoven by nature. The criss-crossed fibres are the ones that absorb the shocks of intermittent load. When oiled (especially if an excess of oil is used) these fibres are softened and the oil permits them to slip by one another so as to take the direction of the strain. Thus the fibres are pulled parallel with the length of the belt or in other words, are stretched. Every time a belt is stretched, it loses part of its elasticity or life.

Cantol Belt Wax paste on leather belts furnishes just enough lubrication for the interwoven fibres. It prevents the stretch of the belt fibres as they have a tendency to do when oiled. The wax goes into the pores between the fibres and binds them together just as it binds the fibres of a cobbler's thread. As a general rule, the heavier the consistency of the wax, the less a belt is apt to stretch. For this reason the bar or paste is recommended instead of the liquid on "hard-pulls" where belts are overloaded.

CANTOL BELT WAX IS KNOWN BY THIS REGISTERED TRADE MARK



ATKINS SILVER



STEEL SAWS

CANTOL BELT WAX

PASTE

Cantol Belt Wax Paste is packed in 5 and 10-pound pails—60 lbs. per case. It is applied cold with a flat stick held against either driving or driven pulleys. The wax spreads itself evenly on the belts.

Sometimes it is heated and applied with a coarse brush to "down belts" in the belt shop or is poured in a thin stream on the inside of "running" belts. It is used extensively on industrial leather belts. Also on "set works ropes" in saw mills. Hundreds of pounds are sold at a time to large plants using manila rope "main-drives." List 45c per lb.

It is better than a stockyard-grease dressing for if an excess of oil or grease is already on a belt, more is superfluous. A greasy or oily leather belt should be washed in gasoline, cleaned and dried. Then Cantol, applied on both sides, will keep the belt flexible, give it the necessary traction and protect it from lubricating oils that contain harmful sulphuric acid residue used as a bleaching agent.

BAR

Cantol Belt Wax pound bars are packed l doz. per carton (6 doz. per case). It is preferred where belt slip must be stopped quickly without using rosin or other injurious material. It does not melt under 217° Fahr., so is not affected by condensed steam and will not "run" if left in the sun. It is purposely made hard. A little goes a long ways. One carton goes as far as 25 lbs. of stockyard-grease dressing. List 50c per lb.

STICK

The 2-oz. sticks are packed 3 doz. per carton, 8 cartons per case. Identical with the bar, they are used on automotive fan, automotive air compressor, print shop and other small belts. List 25c each. Liberal quantity discount.

LIQUID

The liquid in 30 and 50-gal. drums is recommended in those cement plants, fertilizer factories, etc., where the dust is too severe to use Cantol Belt Wax paste. The paste is preferable if a cloud of dust does not settle on the belting. Any liquid softens the fibres. It allows them to slip by one another so as to stretch the belts. Used only in extreme cases. Prices on application.

"Wax Your Belts" with Cantol



ATKINS MACHINE KNIVES

These knives, like Atkins Silver Steel Saws, are made with the idea of quality uppermost. We guarantee each knife to be absolutely free from imperfections as to material, temper, grinding, welding or finish, and guarantee the fit, provided proper instructions have accompanied the order.

MODERN MANUFACTURING METHODS

In this day and age it is essential that machine knives meet the tests incurred by maximum production, and it is with a feeling of pride that we say that our modern methods of manufacture of machine knives have more than kept pace with the demand for knives that will meet the most difficult requirements.

Atkins Machine Knives are used by thousands of manufacturers of various products throughout the world, and as our business is growing year by year it is sufficient evidence of the merit of our product.

Our slogan, "A Perfect Saw for Every Purpose," can be applied to our production of machine and special knives, for "We make a perfect machine knife for every purpose."

Their excellent material, temper and workmanship assures you of knife satisfaction, and we solicit for them a trial.

VARIOUS KINDS OF KNIVES

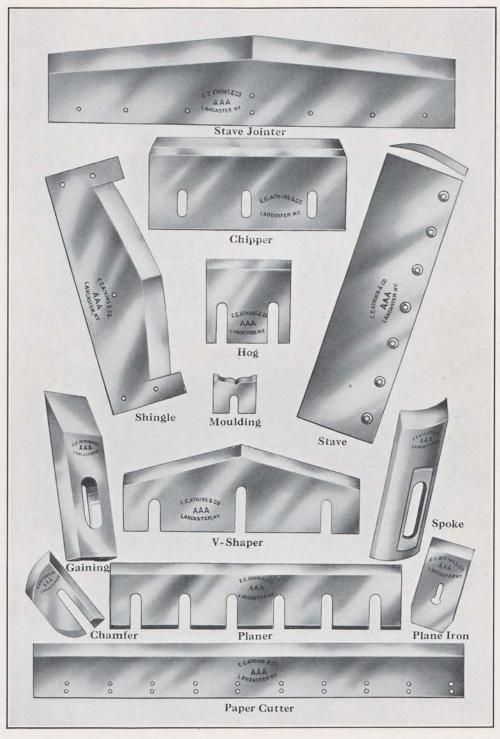
The pages immediately following will show you a variety of knives which we manufacture, such as Stave Jointer, Chipper, Shingle, Hog, Moulding, Stave, Gaining, Spoke, Planer, Plane Iron, Chamfer, Paper Cutter, Novelty Siding, Groover, Beader, Shaper, Double End Chain, Veneer, Spoke, Rabbeting, Sarven, Hub Finisher and Shaper, Squaring, Tenon, Rougher, Howell Cutter, Croze Bit, Barrel, Hoop, Stave, Metal Shear, Boiler Shear, Fur, Excelsior, Roll Scraper, Stop Cutter, Barkmill, Leather Splitter, Skiving, Wood Clipper, Trimmer, Cope, Chair Bottom, Bevel Edge Shaper, Matcher, Corrugated Chipper, Lithograph Stone Planer, Special Shears, Washboard, Cheese, Paper Slitter, Meat Chopper, Beet Sugar, Kraut and Vegetable, Scraper and Segment Carbon Cutter Knives. We also specialize in High-Speed Steel Knives.

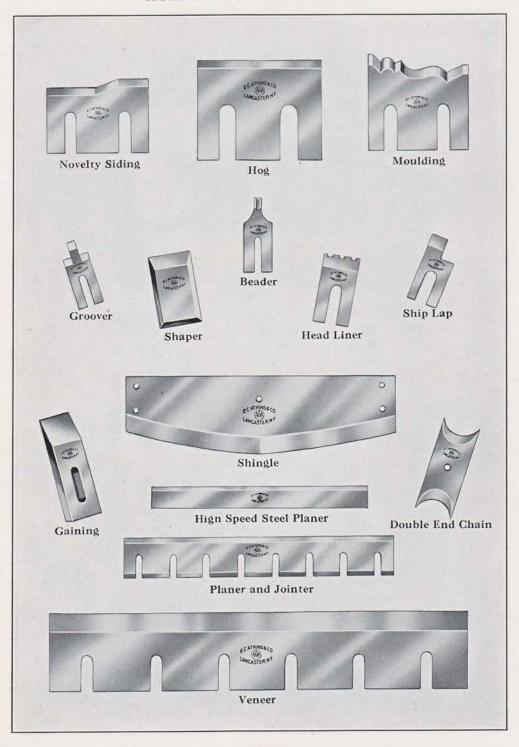
HOW TO ORDER MACHINE AND OTHER KNIVES

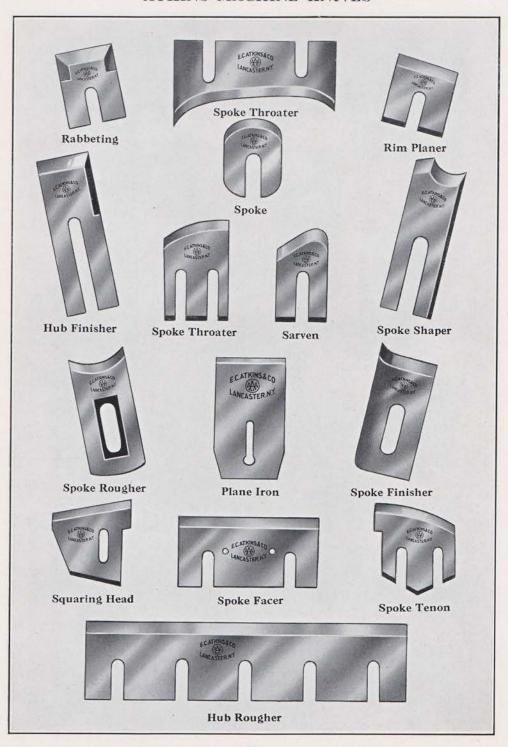
In ordering Machine, Planer and other Knives, place the knife face down with the bevel up, using a strong piece of paper on which to mark around to show the length of knife as well as size and position of slots. Be sure to state the width and thickness desired, bevel and the quantity wanted. Also state how many knives to a set. If for slotted head, give the number and size of slots. If for solid head it is absolutely necessary for you to send a pattern. State whether knives should be back beveled or left square. It is a good plan to give the Name and Number of your machine, especially if ordering Paper Cutters. We have special template paper for use in ordering knives and will send a supply free on request. In ordering Special Knives, always send a drawing or blue print with complete information.

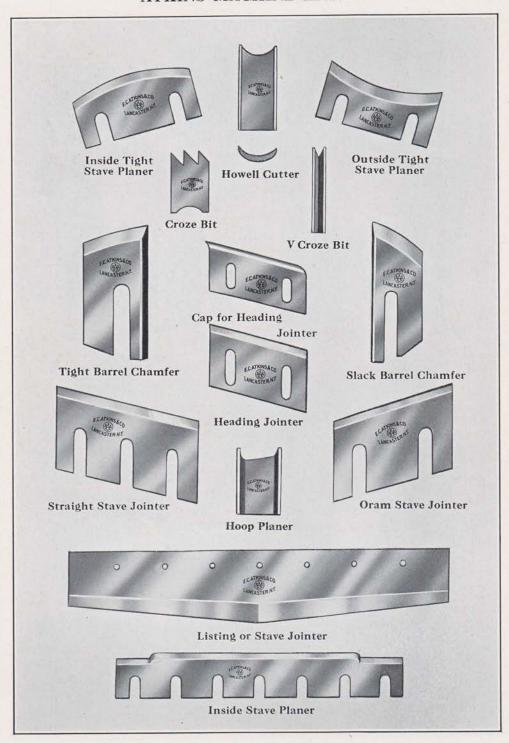
KNIFE INFORMATION

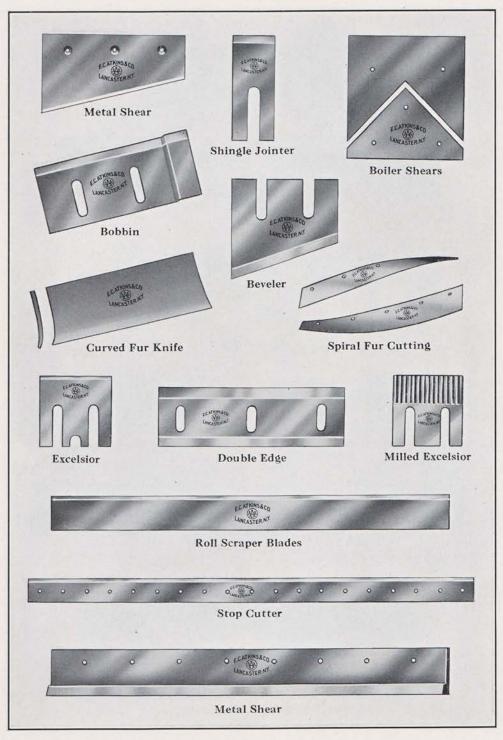
We have a book of information on machine knives which we will be glad to send to you. Ask for it.



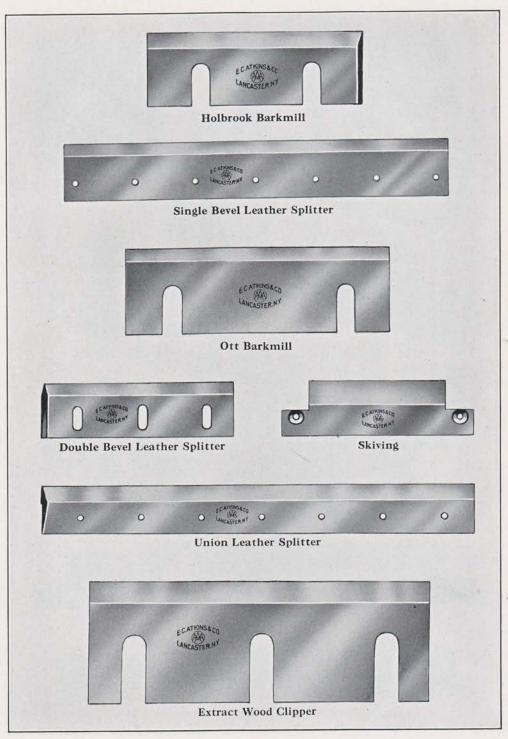


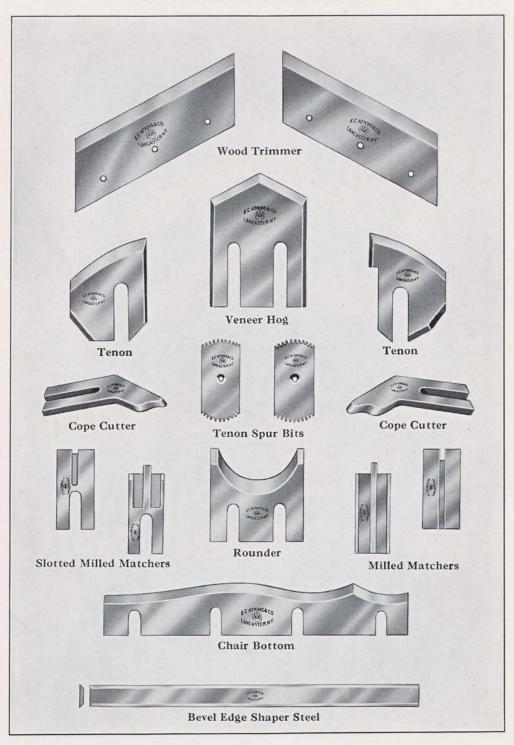




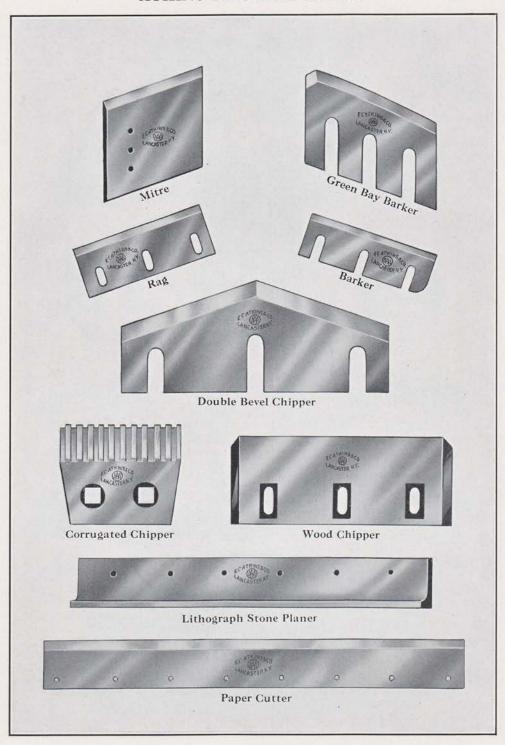


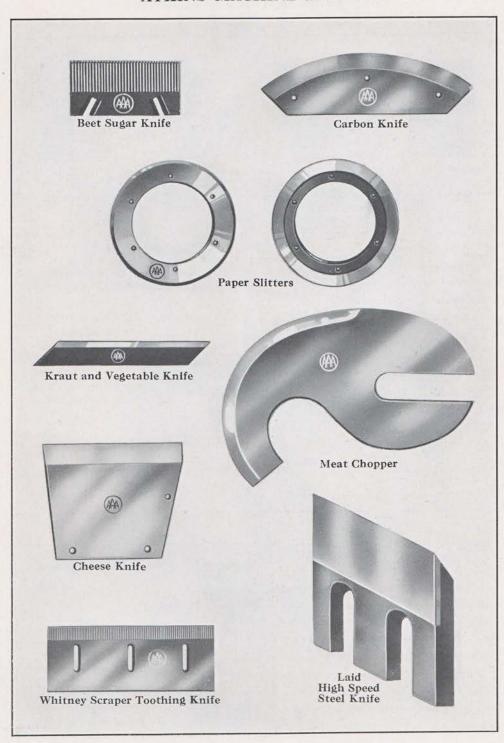






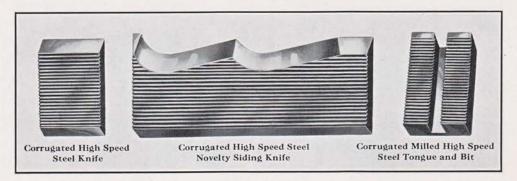






CORRUGATED HIGH SPEED STEEL KNIVES

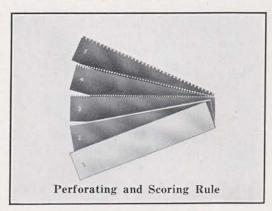
Prices on Application



ATKINS SPECIALTIES ATKINS PERFORATING AND SCORING RULES

We make steel cutting, perforating and scoring rules for printers and paper box manufacturers. Manufactured carefully, of the best material. The following are the standard specifications.

Prices quoted on application.



Our standard for cutting rule is .937 scoring rule is .918 perforating rule is .937.

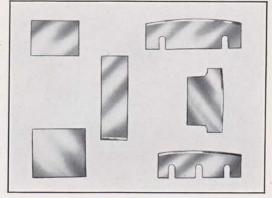
Point	Height	Temper
2-Pt.	.937	Medium Cutting
2-Pt.	.937	Hard Cutting
2-Pt.	.937	Soft Cutting
3-Pt.	.937	Hard Cutting
4-Pt.	.937	Hard Cutting
2-Pt.	.918	Scoring
3-Pt.	.918	Scoring
3-Pt.	.900	Scoring
4-Pt.	.918	Scoring
4-Pt.	.900	Scoring
6-Pt.	.900	Scoring

ATKINS SPECIAL SCRAPER BLADES

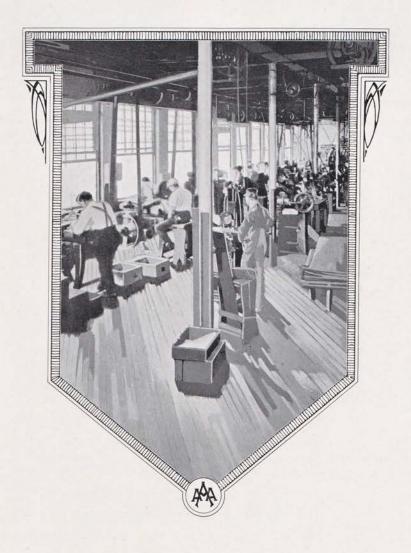
We manufacture blades for all types of hand and power floor scraping machines. These are made of the finest steel, accurately ground, and a trial will convince you that they have no superior for hard service.

When ordering please give complete specifications in drawing or blue print, showing shape, bevel, thickness and slots, if any.

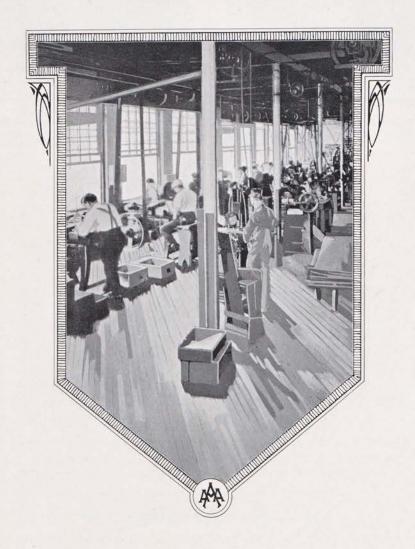
Prices quoted on application.



ATKINS METAL CUTTING SAWS

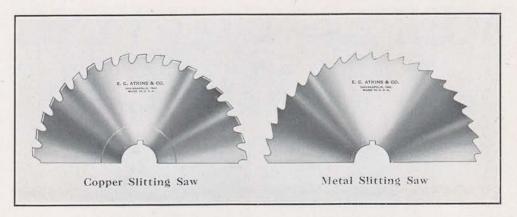


ATKINS METAL CUTTING SAWS



ATKINS METAL SLITTING SAWS

FOR CUTTING METAL AT SLOW SPEED



Diameter Inches	Thickness Inches	Hole Inches	Number of Teeth	Semi-High Speed Steel	High Speed Steel
216	J.	76	28 28	\$1.30 1.20	\$2.50 2.40 2.35 2.35 2.35
91%	1 1	7,6	28	1.20	2.40
212	64	12	28	1.15	2.35
212	16	72	28	1.15	2.35
1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	32	7.6 7.6 7.6 7.6	28 28 28 28 32 32 32 32 32 32 32 32	1.15	9 35
272	78	78	20	1.40	2.60
272	32	1 /8	20	1.60	2.95
3	37	1	20	1.45	2.90
3	64	. 1	32	1.30	2.60 2.50
3	16	1	32	1.30	2.50
3	3/2	1	32	1.30	2.50
3	1/8	1	32	1.30	2.50
	32	1	32	1.50	2.85
4	37	1	36	2.85	4.60
4	14	2 1	36	1.85	3.15
4	76	1	36	1.60	2.95
4	3 32	1	36	1.55	2.85
4	1/8	1	36	1.55	2.85
4	3.7	1	36	1.80	3.45
4	15	1	36	2.10	3.45
5	由在方面污染的在方面污染的方面方面污染的	1	40	2.30	3.85
5	37	1	40	2.00	3.35
5	1%	1	40	2.00	3.35
5 5 5 5 5 5 6	1/6	11/4 11/2	40	2.00	3.35
5	12	11/2	40	2.00	3.35
5	3,	1	40	2.45	4.30
5	3.	1	40	2.90	4.30
6	16	1	42 42 42 42 42	5.10	7.50
6	3.	1	42	3.85	5.85
6	1,2	I	42	3.45	5.35
6	1,2	134	42	3.45	5.35
6	32	11/4 11/2	42 42	4.45	6.45
6	3.	i"	42	4.45	6.45
6 7	3.0	î	44	9.50	11.00
	16	î	44	5.70	8.35
7 7	1.2	î	44	4.85	7.20
7	3	11/	44	6.50	9.05
7	16	11/4	44	6.50	9.05
7 8	16	ĩ	46, 66	7.30	9.05 12.00 12.00 12.30
0	78	11/4	46, 66	7.30	12.00
8	28	1.1.7	46, 66	8.90	12.00
8 -	の方式をおりている。	11/2	46, 66	8.90	12.30
8	16	1/2	40, 00	0.90	12.50

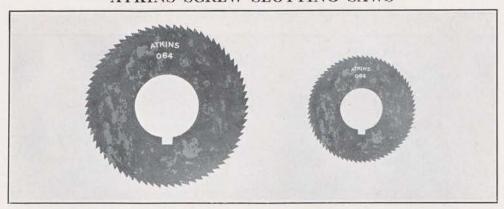
STANDARD KEYWAYS FOR ABOVE SAWS

 $\frac{7}{8}'' - \frac{1}{8}''$ wide, $\frac{1}{16}''$ deep; $1'' - \frac{5}{32}''$ wide, $\frac{5}{64}''$ deep; $1\frac{1}{4}'' - \frac{3}{16}''$ wide, $\frac{3}{32}''$ deep; $1\frac{1}{4}'' - \frac{1}{14}''$ wide, $\frac{3}{32}''$ deep; $1\frac{1}{4}'' - \frac{1}{16}''$ wide, $\frac{3}{32}''$ deep; $\frac{1}{4}'' - \frac{1}{16}''$ wide, $\frac{3}{32}'' - \frac{1}{16}'' - \frac{1}{16}''$ wide, $\frac{3}{32}'' - \frac{1}{16}'' - \frac{1}{16}''$ wide, $\frac{3}{32}'' - \frac{1}{16}'' - \frac{1}{16}''$

The above are standard sizes. Any different specifications are special, and price will be quoted on receipt of complete specifications, giving the quantity required.

STEEL SAW ATKINS SILVER

ATKINS SCREW SLOTTING SAWS



Atkins Screw Slotting Saws or Cutters are made from a Tungsten-Alloy Steel which gives them a keen, tough cutting edge. They are carefully milled with the correct shape tooth and furnished black

—no polish.
They run at a speed of 350 to 400 R.P.M., depending on the operation on which they are used.
High Speed Steel Screw Slotting Saws can be run between 400 and 600 R.P.M.

The lists cover black screw slotting saws with standard teeth and standard keyway. We can furnish them ground on the sides with special teeth and special keyways. Send us complete specifications and the quantity you require and we will quote.

ATKINS SCREW SLOTTING SAWS

Diameter Inches	Thickness Inches	Hole Inches	Teeth	Semi-High Speed Steel	High Speed Steel	Diameter Inches	Thickness Inches	Hole	Teeth	Semi-High Speed Steel	High Speed Steel	Diameter Inches	Thickness Inches	Hole Inches	Teeth	Semi-High Speed Steel	High Speed Steel
134 1134 1134 1134 1134 1134 1134 1134	.006 .008 .010 .012 .014 .016 .013 .020 .023 .025 .032 .032 .035 .040 .045 .057 .064 .008 .008 .010		90 90 90 90 90 90 90 90 90 90 90 90 90 9	\$0.15 .15 .15 .15 .15 .15 .15 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20	\$0.75 .75 .75 .75 .75 .75 .75 .75 .100 1.00 1.00 1.00 1.00 1.00 1.00 1.0	21/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4	.016 .018 .020 .023 .025 .028 .035 .040 .045 .057 .061 .072 .081 .091 .092 .006 .008 .008 .010 .012	55 55 55 55 55 55 55 55 55 55 55 55 55	60 60 60 60 60 60 60 60 60 60 60 60 60 6	\$0.20 .20 .20 .20 .20 .20 .20 .20 .20 .20	\$1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	238444442222222222222222222222222222222	.018 .020 .023 .025 .028 .032 .035 .040 .045 .051 .057 .064 .072 .081 .091 .114 .122 .114 .122 .114 .123 .144 .162	24, 54, 34, 11 152, 54, 34, 11 154, 54, 34, 11 154, 11 15	72 72 72 72 72 72 72 72 72 72 72 72 72 7	\$0.20 .20 .20 .20 .20 .20 .20 .20 .20 .30 .35 .45 .55 .65 .75 .90	\$1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

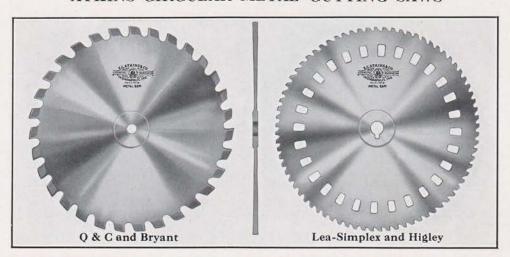
ATKINS CIRCULAR METAL SAWS

For cutting Brass, Aluminum; Copper; Aluminum and Steel Tubing; Rubber, Fibre, Paper; Formica; Bakelite; Micarta, Ivory, Bone, Pearl, and other materials that cannot be cut by a wood cutting circular saw.

When ordering give speed of saw and send sample of material saw is to cut.

Diameter	Thickness	List	Diameter	Thickness Inches	List	Diameter	Thickness	List
Inches	Inches	Each	Inches		Each	Inches	Inches	Each
21/2 21/2 21/2 3 3 3 4 4	32 64 1-1-2 64 1-1-2 1-1-1-2 1-1-1-2 1-1-1	\$1.25 1.25 1.25 1.40 1.40 1.70 1.70	4 5 5 6 6 7 8	16 34 16 34 16 34 16 16 16	\$1.70 2.05 2.05 2.50 2.50 2.90 4.00 5.25	9 10 10 12 12 12 12 14 14	30 16 0 17 18 18 18 18 18 18 18 18 18 18 18 18 18	\$5.50 6.50 6.75 8.00 8.00 8.50 9.75 9.75

ATKINS CIRCULAR METAL CUTTING SAWS



Blades for Bryant and Q. & C. Machines have each tooth ground beveling on the rear, for clearance, and the blade is hollow ground. Gullets may be re-gummed when worn down. In ordering, give diameter, thickness, style of machine and class of material to cut. Spacing of teeth if possible, arbor and pin holes. For Higley Machines, state style of machine, class of material to be cut, diameter, thickness and pitch of teeth. Frequent sharpening is advisable in all metal saws to get the best results.

FOR BRYANT AND O. & C. MACHINES

Dia. In.	Thick- ness In.	Size of Hole In.	Style of Machine	No. of Teeth		B-P No.	Dia. In.	Thick- ness In.	Size of Hole In.	Style of Machine	No. of Teeth	Price Each	B-P No
16	64	7/8 7/8	5	31	\$13.50		27	1/4	21/2	Universal	150	\$37.50	2 AU
16 16 16	9 64 9 64 3 16 3 16	1/8 1/8	5A 5	31 31	13.50 13.50		27	75	2	Saw Cut-off	114	37.50	2 ACO
18	16 3 16 3 16	134	5A 1M	31 44	13.50 15.50		28		134	Type 3B	52	37.50	
18 18 20½	16 3 16	11/8	7P Rail 6, 6A, 10	35 38	15.50 21.95		28 31¼	1/4	13/4 13/4	3B 20	52 58	38.75 53.00	
$\frac{20\frac{1}{2}}{20\frac{1}{2}}$	16 1/4 1/6 1/6	114	6, 6A, 10 6, 6A, 10	38	24.75 26.85		3114	14 14 14 14 14 14	134 134	20 20 4B	58 58	54.75 53.00	
21	1/4	2	Universal Saw	118	24.75		311/4	64	134	4B Universal	58	53.00	*****
21	1/4	2	Cut-off Type	88	24.75	1 ACO	33	3/8 1/4	21/2	Saw Cut-off	138 118	67.00 59.00	3 AU 3 ACO
23½ 25	14	13/4 13/4	2B 15	44 46	30.50 34.00		36		21.5	Type 20	67	69.50	
20	74	174	13	40	34.00		36	32	2 2	51	67	69.50	

Special sizes made to order. Milling saws made over at one-half the price of new saws. Above list covers saws ground thin towards center. Saws also furnished of same thickness at center and rim, and teeth set to obtain clearance.

FOR HIGLEY AND LEA-SIMPLEX MACHINES

Diameter Inches	Thickness Inch	Size of Hole Inches	New Style of Machine	Old Style of Machine	Pitch of Teeth Inches	Price Each	Diameter Inches	Thickness Inch	Size of Hole Inches	New Style of Machine	Old Style of Machine	Pitch of Teeth Inches	Price Each
12½ 13½ 13½ 13½ 14 15 16 17½ 18 18 18 18 1220 20 20 20	1/8/8/3/211463/3/2016/4/2016/4/4/2016/4/20	114 114 114 114 114 114 114 114 114 114	11 10 11 11½ 12 13 30 14 14 14 14 15 16 16 31	8ench 5 3 2 2 2 2 2 8 20" Gambria 20" Cambria	14.	\$9.75 10.55 11.00 11.45 11.00 13.10 13.50 15.50 15.50 16.50 19.70 18.50 19.70 18.50	21 26 26 28 28 28 30 31 31 31 33 36 40 40 50	#16 16 14 #16 16 14 14 14 14 16 16 12 12 12 14 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	11/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2	17 17 19 19 19 25 18 20 21 26 21½ 22 21½ 22 22 22	26" Cambria 1 1 1 1 1 1 1 1 7 1 1 2 9	4. 16 16 16 16 16 16 16 16 16 16 16 16 16	

ATKINS CIRCULAR MILLING SAWS FOR CUTTING COLD METAL AT SLOW SPEED

Diam. Inches	Thick- ness Inch	Semi- High Speed Steel	High Speed Steel	Diam. Inches	Thick- ness Inch	Semi- High Speed Steel	High Speed Steel	Diam. Inches	Thick- ness Inch	Semi- High Speed Steel	High Speed Steel
9	1 16	\$5.25	\$13.25	18	7 2 2	\$16.25	\$105.00	36	11	\$75.50	\$575.50
9		5.50	16.00	18	1/4	17.25	116.00	36	3%	77.00	622.00
9	12	5.80	19.00	18	5	18.75	138.00	36	70	80.00	715.00
9	5	6.15	22.00	20	16	17.50	101.00	36	16	102.50	810.00
	32				32				72		010.00
9	16	6.45	25.00	20	16	18.10	115.00	38	32	80.50	
9	32	6.90	28.00	20	32	19.30	128.00	38	16	88.50	
9	1/4	7.35	31.00	20	1/4	20.50	142.00	38	3/8	92.50	
9	$ \begin{array}{c} \frac{3}{32} \\ 1/8 \\ \frac{5}{32} \\ \frac{3}{16} \\ \frac{7}{32} \\ \frac{1}{4} \\ \frac{5}{16} \end{array} $	7.80	36.00	20	$\begin{array}{c} \frac{7}{32} \\ \frac{1}{4} \\ \frac{5}{16} \\ \frac{5}{32} \\ \frac{3}{16} \\ \frac{7}{32} \\ \frac{1}{14} \\ \frac{5}{16} \\ \frac{3}{16} \\ \end{array}$	22.30	170.00	38	11 32 3/8 7 16 1/2 9 3/2 5 16 3/8 7 16 1/2 9 16 1/2 16 1/2 16 16 17 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	96.50	
10	16	6.50	15.50	21	3	21.50	126.00	38	1/2	121.00	
10		6.70	18.50	21	7	22.90	140.00	40	9	97.50	
10	$\frac{\frac{3}{32}}{1/8}$ $\frac{5}{32}$ $\frac{3}{16}$	7.10	22.50	21	$ \begin{array}{r} 7 \\ \hline 3 2 \\ 1 4 \\ \hline 5 \\ \hline 1 6 \\ \hline 3 1 6 \\ \hline 3 1 6 \end{array} $	24.30	156.00	40	9 32 5 16 3/8 7 16	108.50	100000000000000000000000000000000000000
10	5	7.70	26.50	21	5	26.40	158.00	40	36	114.00	
10	32	7.90	30.00	22	16	21.50	137.00	40	78	119.50	
					16				16		
10	32	8.30	33.00	22	32	22.90	152.00	40	1/2	143.00	
10	1/4	8.70	36.50	22	1/4	24.30	170.00	42	16	107.50	
10	$ \begin{array}{c} \frac{7}{32} \\ \frac{1}{4} \\ \frac{5}{16} \\ \frac{1}{8} \\ \frac{5}{32} \\ \frac{3}{16} \end{array} $	9.30	44.00	22	5 16	26.40	205.00	42	1/2 5 16 3/8 7 16 1/2	114.50	
11	1/8	8.50	32.00	24	3 16	26.25	161.00	42	7 76	121.50	
11	5	9.25	36,00	24	7 20	27.85	179.00	42	1/2	157.50	
11	32	9.50	40.00	24	1/	29.45	200.00	44	5	117.50	
îî	1.6	10.00	44.00	24	5	31.85	240.00	44	3/6	126.50	
11	32	10.50	48.00	25	16	32.50	219.00	44	78	135.50	61111010
11	$ \begin{array}{r} \frac{7}{32} \\ 1/4 \\ \underline{5} \\ 1/8 \\ \underline{5} \\ 32 \end{array} $			25	74				5 16 3/8 7 16 1/2	172.00	*****
	16	11.00	54.00		16	35.50	260.00	44	72		******
12	1/8	8.50	36.50	26	16	28,50	190.00	46	16	127.50	
12	32	9.25	41.50	26	1/4	32.50	235.00	46	3/8	138.50	
12	3 16	9.50	46.50	26	16	35.50	280.00	46	7 16	149.50	*****
12	7 32	10.00	51.00	28	7 32	35.50	252.50	46	1/2	187.50	
12	$ \begin{array}{r} 7 \\ \hline 32 \\ \hline 1/4 \\ \hline 5 \\ \hline 16 \\ \hline 1/8 \\ \hline 32 \\ \hline 32 \end{array} $	10.50	56.00	28	1/4	38.00	275.00	48		142.50	
12	5	11.00	62.00	28	5	41.75	320.00	48	5 16 3/8 7 16 1/2 3/8	155.50	
14	1/0	9.75	47.00	30	1/4	43.30	315.00	48	7	168.50	10-1100-0-120
14	5	10.80	54.00	30	5	47.50	366.00	48	1%	210.50	ACOMA ACOM
14	3 2	11.15	60.50	30	16	47.80	400.00	50	32	194.00	
	3 16 7	11.13			32		Total Control	50	78	209.50	43.55
14	$ \begin{array}{c} \frac{7}{32} \\ \frac{1}{4} \\ \frac{5}{16} \\ \frac{5}{32} \\ \frac{3}{16} \end{array} $	12.55	67.00	30	732/45652772/456674561316/4567722/456112233/874561132	48.90	435.00	50	7 16 1/2 3/8 7 16 1/2	236.00	200000
14	1/4		74.00	31	1/4	53.00	335.00		72		****
14	16	13.60	84.00	31	16	58.25	396.00	52	%8	214.00	******
15	32	12.15	57.00	31	$\frac{11}{32}$	59.00	434.00	52	16	232.00	
15	3	12.55	68.00	31	-3/8	60.00	470.00	52	1/2	250.00	
15	7 22	13.35	76.00	32	1/4	53.00	346.00	54	3/8	224.00	
15	1%	14.15	84.00	32	5	58.25	422.00	54	7	244.00	
15	5	15.35	96.00	32	3/8 1/4 5 16 11 32	59.00	460.00	54	1/2	264.00	12.00012.000.00
16	$ \begin{array}{r} 7 \\ \hline 32 \\ 1/4 \\ \hline 5 \\ \hline 16 \\ \hline 5 \\ \hline 32 \\ \end{array} $	12.15	67.00	32	32	60.00	498.00	56	3/8 7/16 1/2 3/8	244.00	
	3.2	12.15		34	3/8 1/4		400.00	56	78	266.00	
16	16		76.00		1/4	58.50			$\frac{\frac{7}{16}}{\frac{1}{2}}$		
16	$\frac{\frac{7}{32}}{\frac{1}{4}}$	13.35	85.00	34	5 16 11 32	64.50	450.00	56	1/2	288.00	
16	1/4	14.15	94.00	34	32	65.50	520.00	58	7 16	274.00	
16	16	15.35	108.00	34	3/8	66.50	560.00	58	1/2	299.00	
18	32	14.75	83.00	36	3/8 1/4	65.00	427.00	60	7 16	299.00	
18	3	15.25	94.00	36	5 16	74.00	529.00	60	1/2	327.00	The Charles and Arie

PITCH OF TEETH

Diameter	Points to	Distance	Diameter	Distance	Diameter	Distance
Inches	Inch	Pt. to Pt.	Inches	Pt. to Pt.	Inches	Pt. to Pt.
8 and 9 10 12	5, 6, 7, 8 4, 5, 6, 7	1/8, 3/4, 5/16	16, 18, 20 21	1/4, 3/8, 5/2 5/16 to 7/8 5/16 to 7/8	24 to 36 24 to 36 38 to 60	3/8 to 7/8 7/16 to 7/8 1/9 to 1

ATKINS CIRCULAR METAL CUTTING SAWS FOR CUTTING HOT METALS AT HIGH SPEED

Diameter Inches	Thick of Pl Gauge	late	Price Each	Each Gauge Heavier Add	Diameter Inches	Thickness of Plate Inch	Price Each	Each 1/32 Incl Heavier Add
14 16 18 20 22 24 26 28 30 32 34	10 10 9 8 7 6 6 6 5 5 5	1/8/8 521 1644 16 3 16 16 16 16 16 16 16 16 16 16 16 16 16	\$ 4.50 5.00 6.50 8.00 10.00 12.00 14.00 16.00 19.00 22.00 25.00	\$0.25 .30 .35 .40 .50 .60 .75 .95 1.10 1.25 1.40	36 38 40 42 44 46 48 50 52 54 56 58	## ## 124 124 124 124 124 124 124 124 124 124	\$37.00 42.00 49.00 53.00 56.00 60.00 64.00 77.00 84.00 90.00 106.00 113.00 121.00	\$2.30 2.55 2.85 3.15 3.45 3.75 4.10 4.45 4.80 5.15 5.55 5.95 6.40

FRICTION DISCS (WITHOUT TEETH) FOR CUTTING COLD METAL AT HIGH SPEED

Diameter Inches	Thicknes of Plate GaugeInc	Price Each	Each Gauge Heavier Add	Net Price Each Nicked Edge	Diameter Inches	Thickness of Plate Inch	Price Each	Each Janch Heavier Add	Net Price Each Nicked Edge
14	10 1/2	\$ 4.05	\$0.25	\$0.40	36	1/4	\$30.00	\$1.90	\$0.95
	10 10 9 8 7 6 6 5 5 5 5	4.50		.45	38	1/4	32.00	2.15	1.00
18	9 5	5.85	.35	.50	40	1/4	35.00	2.40	1.05
16 18 20 22 24 26 28 30	8 1	7.20	.40	.50 .55	42	1/4	37.00	2.60	1.10
22	7 3	9.00	.50	.60	44	1/4	40.00	2.85	1.20
24	6 3	10.80	.60	.65	46	1/4	43.00	3.15	1.25
26	6 3	12.60	.60 .75	.70	48	1/4	46.00	3.45	1.30
28	5 14	14.40	.95	.75	50	36	57.00	3.70	1.35
30	5 49	17.10	1.10	.80	52	36	63.00	4.00	1.45
32	5 15	19.80	1.25	.85	54	36	68.00	4.30	1.55
32 34	5 15	22.50	1.40	.90	56	3/6	82.00	4.60	1.65
					58	3%	88.00	4.95	1.80
**	11 11				60	3/8 3/8 3/8	95.00	5,30	1.95

SLATE SAWS

	Tempe	ered and	Hollow Grou	nd		Straight	Ground	
Diameter Inches	Thick of Pl Gauge	ate	Price Each	Each Gauge Heavier Add	Diameter Inches	Thickness of Plate Gauge Inch	Price Each	Each Gauge Heavier Add
14 16 18 20 22 24 26	10 10 9 8 7 6 6	1/8 1/8 5 32 11 64 0 16 316 316 316	\$ 7.00 8.50 10.50 13.50 16.00 20.00 23.00	\$0.35 .40 .50 .65 .80 1.00 1.20	14 16 18 20 22 24 26	10 1/8 10 1/8 9 8/2 8 8/4 7 1/6 6 1/6 6 1/6	\$ 4.50 5.00 6.50 8.00 10.00 12.00 14.00	\$0.25 .30 .35 .40 .50 .60
**	11	11	11111	*****	28 30 32 34	5 15 64 5 64 5 64 5 64 64 64 64 64 64 64 64 64 64 64 64 64	16.00 19.00 22.00 25.00	.90 1.10 1.25 1.40

SLATE SAWS-UNGROUND

Dia meter Inches	Thick of Pl Gauge	late	Price Each	Each Gauge Heavier Add	Thickness of Plate Gauge	Price Each	Thicknoof Pla Gauge I	te	Price Each	Each Gauge Heavier Add
36 38 40 42 44 46	4 4 4 3 3	15 64 164 177 647 647 164 174	\$26.00 29.00 32.00 38.00 40.00	\$1.55 1.70 1.90 2.40 2.70	0 0 0 0 0	\$34.00 38.00 42.00 45.00 49.00	00 00 00 00 00	3/8 3/8 3/8 3/8 3/8 3/8	\$37.00 41.00 45.00 49.00 53.00	\$2.30 2.55 2.85 3.15 3.45 3.75
46 48	3 3 2	17 64 37	42.00 47.00	3.00 3.40	0	53.00 57.00	00	3/8 3/8	57.00 61.00	3.75 4.10

ATKINS KWIK-KUT METAL CUTTING MACHINES

THE "STRATE-CUT" PATENTED HACK SAW GUIDE

This guide is used exclusively on our No. 18, No. 7 and No. 14 Kwik-Kut Power Hack Saws and is absolutely new and unique. It is the first practical saw guide ever applied to a hack saw machine.

The blade passes through a slotted tube and also through a slot in the end of the plunger, which is interchangeable for blades of different gauges. It is detachable, and the machine may be run either with or without the guide, as desired, requiring only a few moments to attach or detach. It is rigid and substantial, and warranted for the life of the machine. It is the only guide constructed in such a way as to control the blade in the cut.

The great value of this guide is shown in cutting expensive high-speed tool steel and particularly of large size, where a slight variation causes considerable loss. In any case, where very accurate sawing is desired, the "Strate-Cut" guide is indispensable.

All Kwik-Kut Metal Cutting Machines are manufactured under our exclusive patent, whereby the length of the stroke is automatically regulated by the size of the material held in the vise. The ordinary machine, running full capacity with a fixed stroke of 6 inches, affords only 40% of the blade travel made by the Kwik-Kut, while in using our machine practically the entire length of the blade is utilized, thus showing an enormous saving in blades.

The driving mechanism consists of a beveled rim friction wheel securely fastened to the shaft so that, by the use of a rod starter, this wheel is forced against the pulley, thus furnishing the most reliable and durable driving power.

A raising device slightly raises the saw arm on the return, or non-cutting stroke, thus avoiding unnecessary wear on the blade. An automatic stop cuts off the power when desired.

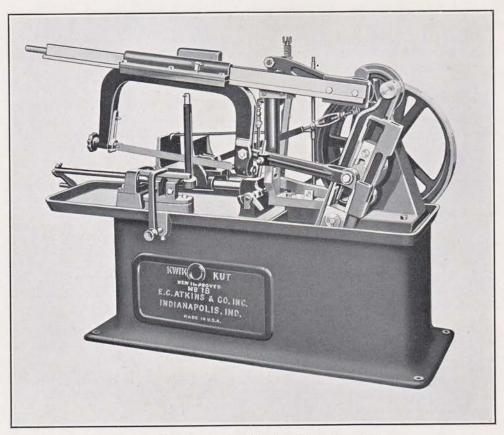
An outside rest holds the stock in the cut, thus preventing the damage to material which often occurs on other machines when cutting short pieces.

Compensating bearings are used on the saw frame, all of which are direct and finished, and no babbitt metal is used. Gibs on side and top are provided to take up any possible wear.

A depth gauge provides for automatically stopping the machine at any desired depth in the cut.

"AAA" HACK SAW BLADES RECOMMENDED FOR USE ON THE KWIK-KUT METAL CUTTING MACHINE

	Tu	bing	Iro	and Soft	Steel		Tool Steel		Structural Shapes			
No.	Thin Wall up to 1/8 Inch	Heavy Wall Above 1/4 Inch	Small up to 1 Inch	Medium 1 Inch to 2½ Inch	Large Above 2½ Inch	Small up to 1 Inch	Medium 1 Inch to 2½ Inch	Large Above 2½ Inch	Small	Medium	Large	
7 & 18 14 12	425 409 409	430 425 410	435 430 420	435 435 420	436 435 422	425 425 415	430 430 420	435 430 420	425 425 415	430 425 415	430 430 420	
	ravel in ninute		72	0 inches		450	inches		450	-500 inch	es	



Kwik-Kut Metal Cutting Machine No. 18-Draw Cut Machine

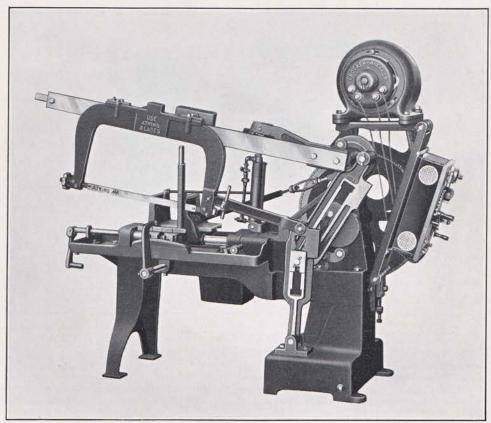
We are now making a complete line of Kwik-Kut Metal Cutting machines for cutting all sizes of stock up to 8 inches x 8 inches. Furnished with a solid vise, unless otherwise specified, for cutting material at right angles. When desired, they are equipped with a swivel vise for cutting at any angle up to 45 degrees. The swivel vise at 45 degrees angle reduces the capacity to $4\frac{1}{2}$ inches x 8 inches, and at angle of 90 degrees 7 inches x 8 inches. Floor space, 48 inches x 20 inches.

A lubricating system consisting of pump, tank and pipe is so arranged that the compound used for keeping the saw cool drops automatically into the cut and is then filtered back into the tank for further use.

The machine is equipped with a two-step cone pulley with a variation of 2 inches, so that in connection with a cone pulley, or two pulleys, with a variation of 2 inches in diameter on the driving shaft the machine may be run at the minimum speed of 50 strokes per minute, or at the maximum speed of 80 strokes per minute.

For prices see page 133.

CONTINUED



Kwik-Kut Metal Cutting Machine No. 7, with Motor Drive-Draw Cut

MOTOR-DRIVEN MACHINES

The No. 7 Kwik-Kut and No. 18 Kwik-Kut are also furnished, when desired, direct connected with motor. For direct current we use a standard motor, 550-1100 R.P.M., resting on a special motor bracket with a starting box, and the motor connected with the machine by special patented silent steel chain running over a small pinion attached to the motor and a large sprocket which takes the place of the pulley on the machine. The chain is protected by a cast iron guard. The controller makes it possible to secure any speed desired from 50 to 100 strokes per minute by 15 graduations, thus making it possible to adapt the speed perfectly to the size and character of material that is being cut, by instantly changing the lever from one button to another. For alternating current, a small cone pulley is used on the motor connecting with the cone pulley on the machine and connected by a short leather belt instead of the chain drive and starting box as used for direct current.

TWO-SPEED PULLEY

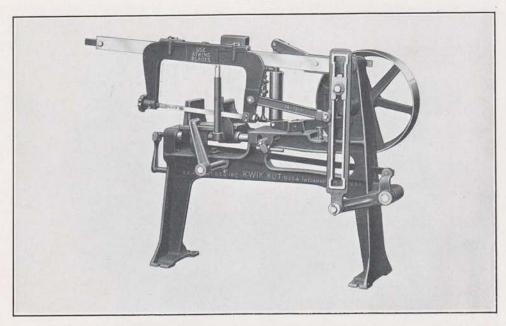
A cone pulley is provided with the No. 7 and No. 18 Machines, so that the minimum speed of fifty strokes per minute may be employed in cutting hard tool steel and small sizes of iron and soft metal, and a high speed of eighty strokes per minute in cutting large sizes of iron and soft steel. This requires merely a corresponding cone pulley or two pulleys with a variation of two-inch diameter on the driving shaft.

ATKINS AAA KOOLING KOMPOUND

We include free with our No. 7 and No. 18 Kwik-Kut Metal Cutting Machines a sample pail of our Kooling Kompound sufficient to make a solution of twenty gallons suitable for use in connection with this machine and an excellent preparation for screw cutting, tapping or any other work where a compound of this kind is required.

Prices in various quantities will be quoted upon application. For prices of machines see page 134.

CONTINUED



KWIK-KUT METAL CUTTING MACHINES, Nos. 14 AND 12

The No. 14 Kwik-Kut Machine embodies all features of the No. 7, including guide, excepting that it is a dry cutting machine and cuts on forward thrust; that is, not equipped with the lubricating system used in connection with the No. 7. Floor space, 19 inches x 54 inches.

The No. 12 Kwik-Kut Machine is also a dry cutting machine of the same pattern as the No. 14 and similar in every respect, excepting that it does not have the patented saw guide and has a smaller capacity. Floor space, 19 inches x 52 inches.

See page 134 for prices.

CAPACITIES

The capacity of the No. 7 and 18 machines with solid vise is 8×8 inches. With swivel vise they have a capacity of 7×8 inches on a straight cut and $4\frac{1}{2} \times 8$ inches at 45 degrees.

The No. 14 solid vise has a capacity of 6 x 6 inches with blade measuring 14 inches from center to center of holes. The swivel vise, when adjusted for cutting straight, has a capacity of 5 x 6 inches, but when cutting angles at 45 degrees, the capacity is $3\frac{1}{4}$ x 6 inches.

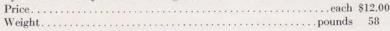
The No. 12 machine has a capacity of 4 x 4 inches on a straight cut with either solid or swivel vise; with swivel vise a capacity of 2½ x 4 inches at 45 degrees.

ATKINS STOCK REST FOR KWIK-KUT MACHINES

We have designed the Atkins Stock Rest for Kwik-Kut Machines in order

to facilitate the handling of long lengths of material in the cut.

If this material is not properly supported and free from vibration and twisting, it is apt to cause an unnecessary breakage of blades and an untrue cut of material. The Atkins Stock Rest may be placed at any desired distance from the machine and easily adjusted to any height by turning the hand wheel. It is sufficiently heavy to require no anchorage to the floor. The roller on top permits stock to be easily moved forward into the cut. Made of heavy castings, sufficiently strong and durable to last for years. Occupies floor space 15½ inches by 17 inches. Adjustable to a height of from 23 inches to 28 inches.





SPECIFICATIONS

Specifications of Atkins No. 18 Kwik-Kut metal cutting machines, belt driven; also machines equipped for motor drive but without motor, and for motor-driven machines complete.

No. 18-BELT DRIVEN

No.	Description	Capacity Inches	Shipping Weight	List Price Each
18-K	Solid Vise—two speeds	8 x 8	1000	\$370.00
18-S		7 x 8*	1000	376.25

No. 18-EQUIPPED FOR MOTOR DRIVE, WITHOUT MOTOR

No.	Description	Capacity Inches	Shipping Weight	List Price Each
18-KC	Solid Vise, equipped with motor bracket, chain sprockets and chain guard, but without motor,			
18-SC	Swivel Vise, equipped with motor bracket, chain sprockets and chain guards, but without motor.	8 x 8	1050	\$500.00
	controller or switch	7 x 8*	1050	506.25

For No. 18 motor-driven machines complete, all voltages mentioned are standard but will operate on motors rated 15% higher or lower. The prices on D.C. variable speed motor-driven machines include 110, 220 and 550 volts. The A.C. constant speed prices include either single or polyphase, 25 or 60 cycles, 110 and 220 volts. All motor-driven machines are regularly equipped with our special sprocket, pinion, and chain drive. If different motor equipment from any mentioned is required, write for prices and information.

No. 18-MOTOR-DRIVEN MACHINES, COMPLETE

No.	Description	Capacity Inches	Shipping Weight
18-EKA	Solid Vise, A.C. constant speed, 1¼ H.P.	8 x 8	1150
18-EKD	Solid Vise, D.C. variable speed, 1¼ H.P	8 x 8	1150
18-ESA	Swivel Vise, A.C. constant speed, 1¼ H.P.	7 x 8*	1150
18-ESD	Swivel Vise, D.C. variable speed, 1¼ H.P.	7 x 8*	1150
18-EKV	Solid Vise, A.C. variable speed, 110-220 volts, 25-60 cycles	8 x 8	1150
18-ESV	Swivel Vise, A.C. variable speed, 110-220 volts, 25-60 cycles	7 x 8*	1150
18-EKH	Solid Vise, A.C. variable speed for voltages higher than 250, with	1 (75)	7.75
	transformer, 25-60 cycles	8 x 8	1225
18-ESH	Swivel Vise, A.C. variable speed for voltages higher than 250,	1,500,500	
	with transformer, 25-60 cycles	7 x 8*	1225

^{*}The capacity given is the size of stock the vise will accommodate when cutting straight.

When turned to an angle of 45 degrees, the capacity is $4\frac{1}{2}$ x 8 inches.

Note—The A.C. variable speed motors have the same characteristics as our D.C. variable speed, but when required in connection with 440 to 500 volt circuit a transformer is necessary, as noted in the price list. The additional charge for this type is to cover the price of the transformer only.

SPECIFICATIONS

Specifications of Atkins No. 7 Kwik-Kut metal cutting machines, belt-driven; also machines equipped for motor drive but without motor, and for motor-driven machines complete.

No. 7 BELT DRIVEN

No.	Description	Capacity Inches	Shipping Weight	List Price Each
7-K	Solid Vise 2 speeds	8 x 8	700	\$250.00
7-S		7 x 8*	700	256.25

No. 7 EQUIPPED FOR MOTOR DRIVE, WITHOUT MOTOR

No.	Description	Capacity Inches	Shipping Weight	List Price Each
7-KC	Solid Vise, equipped with motor bracket, chain sprockets and chain guard, but without motor, controller or switch	8 x 8	750	\$350.00
7-SC	Swivel Vise, equipped with motor bracket, chain sprockets and chain guard, but without motor, controller or switch	7 x 8*	750	356.25

For No. 7 motor-driven machines complete, all voltages mentioned are standard but will operate on motors rated 15% higher or lower. The prices on D. C. variable speed motor-driven machines include 110, 220 and 550 volts. The A. C. constant speed prices include either single or polyphase 25 or 60 cycles, 110 and 220 volts. All motor-driven machines are regularly equipped with our special sprocket, pinion, and chain drive. If different motor equipment from any mentioned is required, write for prices and information.

No. 7 MOTOR-DRIVEN MACHINES, COMPLETE

No.	Description	Capacity Inches	Shipping Weight	List Price Each
7-EKA	Solid Vise, A. C. constant speed.	8 x 8	850	\$462.50
7-EKD	Solid Vise, D. C. variable speed	8 x 8	850	476.25
7-ESA	Swivel Vise, A. C. constant speed	7 x 8*	850	468.75
7-ESD	Swivel Vise, D. C. variable speed	7 x 8*	850	482.50
7-EKV	Solid Vise, A. C. variable speed 110-220 volts, 25-60 cycles.	8 x 8	850	500.00
7-ESV 7-EKH	Swivel Vise, A. C. variable speed 110-220 volts, 25-60 cycles Solid Vise, A. C. variable speed for voltages higher than 250,	7 x 8*	850	506.25
	25-60 cycles with transformer (see footnote)	8 x 8	925	560.00
7-ESH	250, 25-60 cycles with transformer (see footnote)	7 x 8*	925	566.25

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight.

When turned to an angle of 45 degrees, the capacity is $4\frac{1}{2}$ x 8 inches.

Note—The A. C. variable speed motors have the same characteristics as our D. C. variable speed, but when required in connection with 440 to 500 volt circuit a transformer is necessary as noted in the price list. The additional charge for this type is to cover the price of the transformer only.

No. 14 KWIK-KUT METAL CUTTING MACHINE

No.	Description	Capacity, Inches	Approx, Shipping Weight	List Price, Each
14-K	Solid Vise 1 speed		400	\$150.00
14-S	Swivel Vise 1 speed		400	155.50

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees the capacity is $3\frac{1}{2} \times 6$ inches.

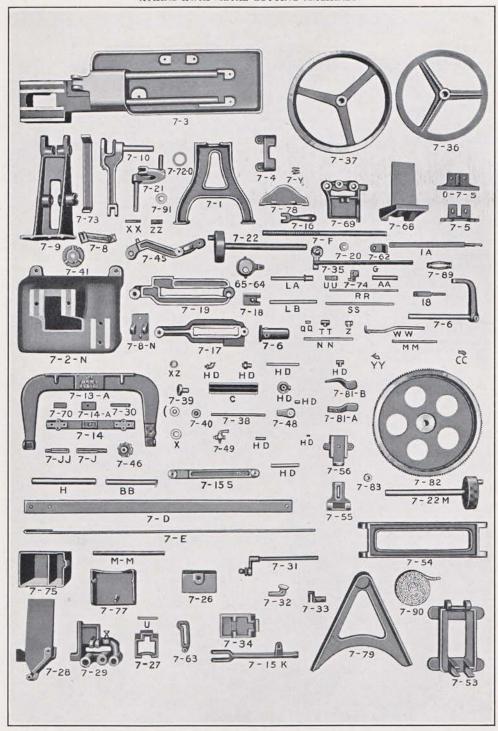
No. 12 KWIK-KUT METAL CUTTING MACHINE

No.	Description	Capacity, Inches	Approx. Shipping Weight	List Price, Each
12-K	Solid Vise 1 speed		350	\$140.00
12-S	Swivel Vise 1 speed		350	145.00

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees the capacity is 21/2 x 4 inches.

ILLUSTRATED LIST OF PARTS

ATKINS KWIK-METAL CUTTING MACHINES



ATKINS SILVER



STEEL SAWS

PRICE LIST OF PARTS

ATKINS KWIK-KUT METAL CUTTING MACHINES

Nos. 7, 12 and 14

Parts illustrated are for No. 7 only

PARTS FOR KWIK-KUT MACHINES

For No. 7 Machines Wt. Each plete No. Description \$ 5.95 7-1 Front Leg...... 18 Back Tank Base 70 7-2-N \$37.80 \ 41.20 Bed Plate 95 7 - 3Guide Bar..... Front Support for Vise Bar.. 61/2 2.25 7-4 51/2 Upper Outside Vise Rest.... 2 Lower Outside Vise Rest.... 134 .75 0-7-5 7-5 .65 7-6 1.75 7-8N 2 15 18.40 7-9 7-10 and Bar..... 12½ 4.55 7-13A 13 90 7J .70 7JJ .65 7-46 .70 17.80 Cap for Saw Frame. 11/4 Cover for Oil Cup. 14/4 1.20 .35 Top Gibs for Frame...... .15 Crank Handle 11/2 .50 7.65 Link Blocks..... 11/2 1.15 10.50 3.95 Cam Crank and Pins..... 14 5.20 4.40

7-14 7-14A 7-30 7-70 7-16 7-17 7-18 7-19 7-21 7-22B 7-26 7-31 .701 .95 .25 .40 7-32 7-33 .50 1.101 7-35 1.55 7G 11/4 5.50 7-36 19.95 7-37 7-62 Eccentric Strap..... 1.10 7-64 2.85 7-65 1.75 7-71 Device..... 3.70 Raising Device Roller..... 1 7-45

Brace for Housing.....

Adj. Spring Holder.....

 Cover for Tank, complete
 5

 Splash Apron
 2

 Tie Brace and Pin
 2

Collar for Housing and Set

Screw.....

Nipple......
Spring for Starting Lever.....

Upper Reach Rod 34
Turn Buckle 34

Saw Frame Guide 171/2

7-72-0

7-73 7-74

7-75

SS

7-77

7-78

7-87

7-91

AA

UU

7-Y 1A

18

7-89

7-H

7-D

7-BB

VISES-7

No.	Description	Wt.	Each	Com- plete
7-F	Vise Screw	51/6	\$6.25)	
7-20	Collar for Vise Screw	1/4	.50	\$7.35
7-16	Handle for Vise Screw		.60	
7-15-K	Connecting Rod, Straight			
	Vise	3		2.00
7-68	Front Jaw Straight Vise	15		6.10
7-69	Back Jaw Straight Vise	11		5.50
7-15-S	Connecting Rod Swiv. Vise	3		2.00
7-27	Hinge for Front Jaw	21/2		.95
7-28	Front Jaw for Swivel Vise			8.65
7-29	Back Jaw for Swivel Vise	10		7.70
7-34	Hinge for Back Jaw	4		1.40
7-63	Vise Links			.40

PUMP-7

	Pump Complete	7	, 4.11	12.70
7-61	Pump Chamber	31/2		2.10
7-LA	Upper Part Plunger	1	.25)	
7-LB	Lower Part Plunger	11/4	.35	.75
7-RR	Union		.15	
7-Z	Ball Check Valve			2.50

MOTOR ASSEMBLY-7

	Complete without Motor,	
	Starting Box or Switch 110	87.85
7-22	Cam Crank 7	3.20
	Cam Crank Shafts 6	1.65
7-53	Table for Motor 18	6.00
7-54	Brace for Table 14	4.85
7-55	Sole Plate for Brace 3	1.45
7-56	Adjustable Clamp 4	2.60
7-79	Guard for Chain 12	4.00
7-81A-	B Lug for Chain Guard 34	.70
7-82	Large Sprocket 41	21.90
7-83	Small Sprocket 1	3.90
7-90	Chain	10.00
	MotorPrices on	application
	Starting Box Prices on	
	SwitchPrices on	

HYDRAULIC RAISING DEVICE-7

	Complete Device	13.40
	Parts—	
7-38	Piston Head and Rod 1	1.60
7-39	Bottom Head ¾	.95
7-40	Bottom Head	.65
7-47	Top Head	.85
7-48	Top Stud End	.60
7-49	Regulating Cock	1.25
7-C	Cylinder	.70
XZ	Check Valve Assembly	.45
	Pipe Fittings, complete	1.90
GH	Cup Leather	.25

N. B.—All Parts within brackets shipped complete unless otherwise specified.

NOTE—If parts are wanted for our No. 18 Kwik-Kut Metal Cutting Machine, write us fully and we will name our lowest current prices.

.40

.85

.60

6.60

2.15

.85

1.45

.16

.15

.15

3.50

.85

1.00

5.35

1.90

6.201

.40

PRICE LIST OF PARTS

ATKINS KWIK-KUT METAL CUTTING MACHINES (CONTINUED)

FOR No. 14 MACHINE

FOR No. 12 MACHINE

No.	Description Wt,	Each	Com- plete	No.	Description	Wt.	Each	Com- plete
14-1	Main Frame123	\$43.75	\$46.90	12-1	Main Frame	115	\$41.25	
14-E	Vise Guide Bars 6	3.15	\$40.90	12-E	Vise Bars	6	3.20	\$44.45
14-2	Vise Guide Support 5		2.40	12-2	Vise Bar Support	5		2.35
14-3	Guide Bar Cast, and Pin 9		3.25	12-3	Guide Bar Support and Pin	916		3.25
14-4	Saw Blade Frame 16	11.25	1	12-4	Saw Blade Frame	15	10.65	
14-F	Front Draw Bolt	6 .65		12F	Front Draw Bolt	1/6	.65	
14-7-46	Saw Frame Nut 1	.65	20.00	12-7-46	Saw Frame Nut	1	.65	The same of the same of
14-G	Back Draw Bolt	6 .65	15.20	12G	Back Draw Bolt	1/6	.65	14.60
14-15	Top Cap for Frame 3	1.60		12-15	Top Cap	3	1.60	
14-7-30	Top Gib for Frame	.20		12-7-30	Top Gibs	1/2	.20	
14-7-70	Side Gib for Frame	4 .20		12-7-70	Side Gibs	1/2	.20	1
14-6	Hydraulic Lever and Pin 33	2.45	3.30	12-6	Hydraulic Lever and Pin	4	2.40	2.05
14-7-45	Hydraulic Lever Roller 3	.85	3.30	12-7-45	Hydraulic Lever Roller	1/2	.65	3.05
14-7	Link Arm 10	8.10	9.25	12-7	Link Arm	10	8.10	0.0-
14-7-18	Link Block	2 1.15	3.43	12-7-18	Link Arm Block	11/6	1.15	9.25
14-8	Bell Crank, complete 7		4.35	12-8	Bell Crank, complete	7		4.35
14-9	Vise Rest 3		1.10	12-9	Vise Rest	3		1.10
14-12	Stock Gauge and Bar 7		2.15	12-12	Stock Gauge and Bar	61/4		2.15
14-27	Driving Pulley		9.40	12-27	Driving Pulley	19		9.40
14-28	Friction Spider 10		4.65	12-28	Friction Spider	10		4.65
14-12-31	Starting Crank and Rod 13	6	.90	12-31	Starting Crank and Pin	134		.90
14-35	Trip Trigger Holder 3		.90	12-35	Trip Trigger Holder	34		.90
14-36	Spring Holder for Starting			12-36	Spring Holder for Starting	2.4		
	Lever 3		.50	1220.000	Lever	3/4		.50
14-37	Trip Trigger and Rod }	2	1.25	12-37	Trip Trigger and Rod	1/2		1.25
	Clutch Collar and Rod 2		1.45	12-39	Clutch Collar and Rod	21/4		1.45
	Weight 12		3.45	12-14-77		12		3.45
14A	Guide Bar 12		3.25	12A	Guide Bar	914		2.75
14B	Brace Bar 43		1.65	12B	Brace Rod	434		1.60
14C	Reach Rod 41		1.15	12C	Reach Rod	41/2		1.15
14D	Vise Screw	2.50	3.00	12D	Vise Screw	3	1.45	1.95
14-7-16	Vise Screw Handle 15	.50	0.00	12-7-16	Vise Screw Handle	11/2	.50	1.95
4H	Guide Tube		.75	12H	Clutch Collar Spring	1/4		.15
41	Guide Plunger 1½		.95	121	Raising Device Spring	1/2		.15
4J	Clutch Collar Spring		.15	12J	Friction Spring	1/4		.15
4K	Raising Device Spring		.15	-	and the second s	- 357		
4L	Friction Clutch		.15					

VISES

	Straight Vise, complete	30	15.85
	Parts—		
14-40	Connecting Rod	234	1.90
14-5	Crank Shaft and Rods	7	3.25
14-12	Front Jaw		5.15
14-13	Back Jaw	9	4.95
	Swivel Vise, complete	37	23.45
	Parts—		
14-4-S	Connecting Rod	234	1.90
14-5-S	Crank Shaft and Rods	7	3.25
14-17	Front Jaw, complete	111/2	9.35
14-18	Back Jaw, complete	9	8.95
14-19	Hinge for Back Jaw	314	1.20
14-20	Hinge for Front Jaw	21/2	.95
14-7-63	Link	2	.40

HYDRAULIC RAISING DEVICE See No. 7

N. B.—All Parts within brackets shipped complete unless otherwise specified.

VISES

	Straight Vise, complete	23	14.85
12-4-0	Connecting Rod	23/4	1.90
12-5	Crank Shaft and Rod	41/2	3.25
12-13	Back Vise Jaw	73/2	4.60
12-14	Front Vise Jaw	11	5.15
	Swivel Vise, complete	3334	22.20
12-40	Connecting Rod	23/4	1.90
12-5-S	Crank Shaft and Rods		3.25
12-17	Front Vise Jaw	11	8.90
12-18	Back Vise Jaw	71/2	8.15
12-19	Hinge for Back Jaw	31/2	.95
12-20	Hinge for Front Jaw		.70
12-7-63	Link		.40

HYDRAULIC RAISING DEVICE See No. 7

N. B.—All Parts within brackets shipped complete unless otherwise specified.

ATKINS SLATE HACK SAW BLADES

Number	Length Inches	Width Inches	Thickness or Gauge	No. of Teeth per Inch	Price per Gross
405	8	1/6	.025 or 23	14	\$ 8.00
405	9	1/2	.025 or 23	14	9.00
405	10	1/2	.025 or 23	14	10.00
405	12	1/2	.025 or 23	14	12.00

ATKINS PIPE SAWS

FOR CUTTING PIPE, BOILER TUBES, ANGLES, METAL MOULDING, ETC.

These blades can be used on a saw table or a swing saw, but the blade must be adequately guarded because of the high speed at which the saw must run.

They are manufactured from a high grade alloy steel, the teeth are milled, and the blade is hollow ground for ample clearance.

Diameter Inches	Thickness Inches	Number of Points per Inch	List Each	Speed Revolution per Minute
12	3 39	9	\$8.00	6250
14	1/8	9	9.75	5260
16	1/8	9	11.75	4760
18	1/8	9	14.75	4165
20	1/8	9	17.50	3775

When ordering be sure and give us the diameter, thickness, size hole, and tell us what material you propose to cut.

ATKINS SCREW SLOTTING BLADES

FOR HAND HACK SAW FRAMES

Every machine shop has frequent occasion for cutting slots in screw heads, bolts, set screws and parts of machinery. Atkins Screw Slotting Blades are designed to perform this service easily, accurately and quickly. For convenience, we furnish the set in four thicknesses, viz.: $\frac{3}{64}$ inch, $\frac{1}{16}$ inch, $\frac{3}{32}$ inch and $\frac{1}{26}$ inch. Blades are 8 inches long or for use in 8-inch hand hack saw frame, and are ground thin back.

The blades are made of special alloy steel, similar to that used in Atkins Circular Metal Cutting Saws. This steel is very hard, and the blades being ground thinner on the back and being toothed straight across without set, they are not apt to break easily.

Four blades, 8 inches long, $\frac{1}{2}$ inch wide, $\frac{3}{16}$, $\frac{1}{16}$, $\frac{1}{32}$ and $\frac{1}{8}$ inch thick to the set.

Price, $\frac{3}{64}$ inch thickper gross	\$33.00
Price, ½ inch thickper gross	35.00
Price, $\frac{3}{32}$ inch thickper gross	37.00
Price, ½ inch thick	
Price of sets of 1 each of the above blades	144.00
Price	12.00
Priceper set	1.00

SPECIAL HACK SAW BLADES Nos. 500 and 510

FOR METAL WORK			
Number	500	500	510
Size inches			6
Price per gross	\$8.40	\$9.00	\$9.00

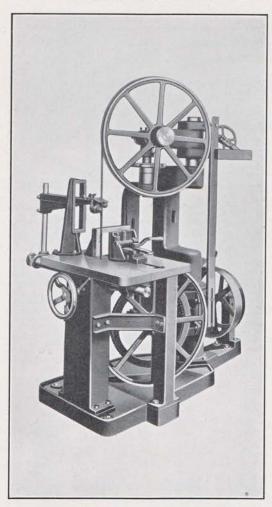
No. 500 ¼-inch wide, .014-inch thick, 32 teeth to the inch. 5-inch made with straight ends only. 6-inch furnished either straight or loop ends.

No. 510 ½-inch wide, .025-inch thick, 24 teeth to the inch. Special Hack Saw Blade for light work. Furnished either straight or loop ends.

Blades are tempered hard throughout the entire blade by a new process, and drawn to a stiff spring temper.

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ATKINS No. 3 METAL BAND SAW MACHINE



Atkins No. 3 Metal Band Saw Machine is unsurpassed for economical cutting of metal where there is a sufficient amount of cold sawing to require the constant operation of one or more machines, and it will be found superior to any other machine now available.

An ordinary unskilled workman of average intelligence, or a boy, with an hour's instruction, can operate the Atkins No. 3 Metal Band Saw. It is much simpler than even the modern High-Speed Hack Saw Machine, and so far as the Circular Milling Saw Machine is concerned, there is hardly any comparison.

SPECIFICATIONS AND PRICES

Size of Table	.211/2	" X	283/4"
Diameter of Wheels			30 4
Height over all			
Floor Space required: Motor-D	riven	60"	x 40"
Belt-Driv	en	60"	x 26"

Size and Speed of Drive Pulley: On the Belt-Driven machine, the Drive Pulley is a Two-Step Cone Pulley, each having a 3" face and diameters 18" and 20". The 18" Pulley should run at about 30 R. P. M.; the 20" Pulley at about 50 R. P. M.

Height of Table: The top of the table is 33'' above the floor.

Approximate Net Weight:

Motor-Driven.	 		*		4			*	1850	lbs.	
Belt-Driven									1500	The	

Approximate Shipping Weight:

	Motor Driven	Belt Driven
Skidded	. 2050 lbs.	1700 lbs.
Crated	. 2250 lbs.	1900 lbs.
Boxed		2100 lbs.

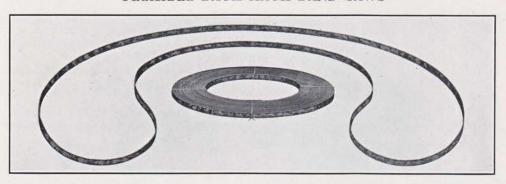
Terms: F. O. B. Indianapolis, 30 days net.

FLEXIBLE BACK METAL BAND SAWS FOR ABOVE MACHINE—Hard teeth, annealed back

Width	Gauge	Ft. in Lb. (Approx.)	Price per Ft. Cut to Length	Price per Lb. in Coils	Width	Gauge	Ft. in Lb. (Approx.)	Price per Ft. Cut to Length	
1/4	.025	60	14c	\$8.40	5/8	.031	16	18c	\$2.88
3/8	.025	35	15c	5.26	3/4	.031	12	20c	2.40
1/2	.025	25	16c	4.00	1	.036	9	24c	2.16

Saws are made with 8, 10, 12, 14, 18, 24 or 32 teeth per inch. For cutting all kinds of metals. In ordering, state the kind of material to be cut, and size. In computing price on brazed saws, if they measure 6" or more over the even foot, an extra foot is charged for, and if less than 6" over the even foot, no charge is made; for example, a brazed saw 15' 8" long will be computed as 16', but if 16' 4", it will be figured as 16'. Brazing, extra, \(\frac{1}{4}\)", \(\frac{3}{8}\)", \(\frac{1}{2}\)", \(\frac{5}{8}\)" \(25\)c net; \(\frac{3}{4}\)" \(30\)c net; \(1'''' \) 35c net.

ATKINS METAL CUTTING BAND SAW BLADES FLEXIBLE BACK HACK BAND SAWS



These blades are made from a Tungsten Alloy Steel similar to the steel used in Atkins celebrated AAA Non-Breakable Hack Saw Blades. The teeth are milled with deep gullets and with keen cutting edges. The cutting edge of the tooth is kept straight, so that the entire width of the blade is engaged in the cut instead of a sharp point; this offers great resistance to wear.

The blade is tempered by machines of our own design, only to the base of the tooth. The remainder of the blade, though stiff enough to cut straight, is flexible and tough so that it will withstand bending around the wheels of the machine and twisting through the guides.

This exclusive process of manufacture produces a saw with an exceptionally hard edge, a strong fast cutting tooth, and a back that will hold the teeth and not check or break.

Width. Inches	Gauge	Ft. per Lb. (Approx.)	Price per Foot Cut to Length	Price per Lb in Coils
3 16	.025	80	\$0.14	\$11.20
1/4	.025	60	.14	8.40
3/8	.025	35	.15	5.26
1/2	.025	25	.16	4.00
5/8	.031	16	.18	2.88
3/4	.031	12	.20	2.40
i	.036	9	.24	2.16

Made with 8, 10, 12, 14, 19, 24 or 32 points per inch. In ordering state size and material to be cut.

TEMPER TO ORDER

Temper A—Cast Steel, High Speed Steels, Nickel, Chrome, Vanadium, and similar alloy steel. Temper B—Cold Rolled Steel, Machine Steel, Cast and Wrought Iron, Structurals, Manganese and Government Bronze.

Temper C—Aluminum, Brass, Soft Bronze, Fibre, Pressed Rawhide, Sheet Steel, Brass and Copper Tubing, and thin gauge materials.

ATKINS ALL HARD BAND SAW BLADES

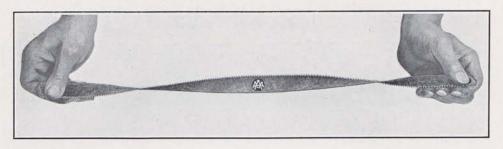
These are made from friction temper stock, for cutting soft metal, thin sheets and metal trim, at high speed. In ordering state the kind of material to be cut, and size, and also number and style tooth. "B" tooth furnished in 7 points only.

% wide, 22 gauge. % wide, 21 gauge.	.16c per foot
½" wide, 21 gauge	.18c per foot
% wide, 21 gauge	ZUC DET 100L
% Wide 21 gauge	22c nor toot
1" wide, 20 gauge	.26c per foot

BRAZING

½" to ½" each	\$0.50 list
58" to 38". each	.60 list
1"each	.70 list

ATKINS NON-BREAKABLE HACK SAW BLADES



Atkins Non-breakable Hack Saw Blades are made with the usual hard edge, but with a soft back that practically prevents breakage. They should not be confused with any so-called "flexible" blades.

The edge is tempered so as to insure a cutting capacity equal to all hard blades. Therefore, while the blade will cut fully as fast and hold its cutting edge as long as the all hard blade, the liability to break or snap off is entirely eliminated.

To those who have suffered a heavy loss on account of breakage, the Atkins Non-breakable Blade will prove extremely profitable. Free sample blades will be supplied upon request for testing purposes.

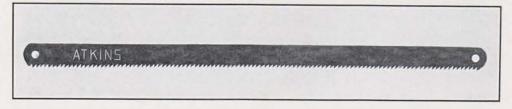
Length of hack saw blades. Hand blades all lengths are measured center to center of holes.

Machine blades up to and including 12 inches are measured center to center of holes. Machine blades longer than 12 inches are $\frac{1}{2}$ inch shorter center to center of holes than the length specified in the list.

No.	Length Inches	Width Inches	Thickness or Gauge	No. Teeth per Inch	Weight per Gross, Lbs.	Price pe Gross
300	8	1/9	.025 or 23	18	4½ 5¼	\$ 8.00
300	9	1/2	.025 or 23	18	51/4	9.00
300	10	1/2	.025 or 23	18	51/2	10.00
300	12 12	1/2	.025 or 23	18	5½ 6½ 7¼ 8½	12.00
305	12	9	.025 or 23	16	71/4	12.00
305	14	9	.025 or 23	16	81%	14.80
305	16	9	.025 or 23	16	10	17.00
310	8	1%	.025 or 23	24	41/6	8.00
310	9	12	.025 or 23	24	4½ 5¼	9.00
310	10	1%	.025 or 23	24	51%	10.00
310	19	1%	.025 or 23	24	61/6	12.00
315	12 8	1%	.025 or 23	32	5½ 6½ 4½ 5¼ 5½ 6½ 5	8.00
315	9	1/2	.025 or 23	32	51/	9.00
315	10	1%	.025 or 23	32	51%	10.00
315	12	12	.025 or 23	32	61%	12.00
320	8	72	.028 or 22	14	5	10.80
320	9	16	.028 or 22	14	6	12.00
320	10	16	.028 or 22	14	61/2	13.08
	10 12	16	.028 or 22	14	8 2	15.24
320 320	14	16	.028 or 22	14	9	17.52
320		16	.028 or 22	14	11	19.80
320	16 12	16	.028 or 22	14	91/2	16.80
325	12	28	.028 or 22	14	101/2	19.44
325	14 17	5/8	.028 or 22	14	13	23.40
325	10	2/8		18	91/2	16.80
330	12	28	.028 or 22	18	101/2	19.44
330	14	2/8	.028 or 22	18	$\frac{10\frac{1}{2}}{13}$	23.40
330	17	2/8	.028 or 22		12	21.36
335	12	24	.032 or 21	14	14	24.36
335	14	3/4	.032 or 21	14	161/	29.04
335	17	3/4	.032 or 21	14	$\frac{16\frac{1}{2}}{17\frac{3}{4}}$	
335	18	1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	.032 or 21	14	1734	30.48
335	20	3/4	.032 or 21	14	201/4	33.72

ATKINS "AAA" HACK SAW BLADES

"ALL-HARD" HAND BLADES



Atkins AAA Hack Saw Blades are made from a special formula, possessing just those qualities which have been so long desired.

We have perfected a process of tempering wherein we are able to secure extreme hardness and at the same time to eliminate any variation in the consistency of the blades. This makes them less liable to break in case of an awkward thrust, and at the same time insuring the edge holding qualities most desired.

The teeth are sharp and given just enough set to insure a free, smooth and rapid cut, removing no more stock than is necessary.

While Atkins AAA Hack Saw Blades possess to the highest degree those lasting qualities that you have been looking for, we wish to give some suggestions in regard to their use.

Too much weight applied to a blade dulls it unnecessarily, and it is desirable not to force a hack saw blade beyond its capacity. Remember that a sharp blade will cut faster than a dull one, and that it is the blade travel that counts rather than the pressure that is placed on the blade.

Should a saw be broken in the cut, it is advisable to turn the stock so as to make an entirely new start as a new blade is apt to stick in the old cut and therefore be more liable to breakage. This does not indicate an imperfection, but the set of the old blade may have worn off so as to cut a narrower kerf than the new blade.

· A hand frame should not be run at too high a speed. If they are given a similar stroke to that of a file, they will be found to operate to better advantage.

Fine teeth should be used for cutting brass, copper, pipe, etc. A coarse tooth operates better on thin sheet metal. See information in AAA hack saw chart, sent free on request.

It is inadvisable to oil hack saw blades for hand use. Special lubricants are prepared for high-speed power cutting. See note on Atkins Kooling Kompound, page 131.

We shall be very glad of an opportunity to submit, free of charge, sample hack saw blades for comparative tests. Do not feel that you are placing yourself under any obligations by asking for this service.

Should you have difficulty in operating your hack saw blades to the best advantage, and will write us, it is possible that we can make some suggestions. This service is at your disposal.

No.	Length Inches		Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross	No.	Length Inches		Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs,	Price per Gross
200	8	1/2	.025 or 23	18	41/2	\$8.00	215	8	1/2	.025 or 23	32	41/2	\$8.00
200	9	1/2	.025 or 23	18	51/4	9.00	215	9	1/2	.025 or 23	32	51/4	9.00
200	10	1/9	.025 or 23	18	51/2	10.00	215	10	1/2	.025 or 23	32	51/2	10.00
200	12	1/2	.025 or 23	18	61/2	12.00	215	12	1/2	.025 or 23	32	61/2	12.00
205	12	1/2 9 16 9 16	.025 or 23	16	71/4	12.00	220	8	$\frac{1}{2}$ $\frac{9}{16}$ $\frac{9}{16}$ $\frac{9}{16}$.028 or 22	14	5	10.80
205	14	9 16	.025 or 23	16	81/2	14.80	220	9	9	.028 or 22	14	6	12.00
205	16	9 16	.025 or 23	16	10	17.00	220	10	9	.028 or 22	14	61/2	13.08
210	8	1/2	.025 or 23	24	41/2	8.00	220	12	9	.028 or 22	14	8 2	15.24
210	9	1/2	.025 or 23	24	51/4	9.00	220	14	9 16	.028 or 22	14	9	17.52
210	10	1/2	.025 or 23	24	51/2	10.00	220	16	9 16	.028 or 22	14	11	19.80
210	12	1/2	.025 or 23	24	61/2	12.00					150,704		

Sizes not listed take same list as next size larger.

ATKINS "AAA" POWER HACK SAW BLADES FOR LIGHT GRAVITY FEED MACHINES

SIZES NOT LISTED TAKE SAME LIST AS NEXT SIZE LARGER

No.	Length Inches			No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross	No.		Width Inches		No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross
400 400 400	10 12 14	5/8 5/8 5/8	.028 or 22 .028 or 22 .028 or 22	14		\$14.40 16.80 19.44	402	17 12 14		.028 or 22 .028 or 22 .028 or 22	18	$\begin{array}{c} 13 \\ 9\frac{1}{2} \\ 10\frac{1}{2} \end{array}$	\$23.40 16.80 19.44

FOR HEAVY GRAVITY FEED AND POSITIVE FEED

409	12	3/4	.032 or 21	18	12	\$21.36	422	12	3/4	.048 or 18	10	181/2	\$28.92
409	14	3/4	.032 or 21	18	14	24.36	422	14	3/4	.048 or 18	10	211/2	33.12
410	12	3/4	.032 or 21	14	12	21.36	422	17	3/4	.048 or 18	10	28	39.72
410	14	3/	.032 or 21	14	14	24.36	423	14	1	.048 or 18	18	27	43.56
410	17	3/4	.032 or 21	14	161/2	29.04	423	17	1	.048 or 18	18	33	51.72
410	18	3/4	.032 or 21	14	1734	30.48	423	18	1	.048 or 18	18	341/6	54.36
410	20	3/4	.032 or 21	14	2014	33.72	425	12	1	.048 or 18	14	23	37.92
415	12	3/4	.048 or 18	14	161/4	28.92	425	14	1	.048 or 18	14	25	43.56
415	14	3/4	.048 or 18	14	1914	33.12	425	17	î	.048 or 18	14	27	51.72
422	10	3/4	.048 or 18	10	16	24.72	425	18	î	.048 or 18	14	341/2	54.36

FOR HEAVY GRAVITY FEED

430	12	1	.048 or 18	12	241/2	\$37.92	440	24	1	.065 or 16	10	60	\$79.32
430	14	1	.048 or 18	12 •	27	43.56	440	30	1	.065 or 16	10	66	98.64
430	16	1	.048 or 18	12	20	49.08	440	32	1	.065 or 16	10	72	105.00
430	17	1	.048 or 18	12	33	51.72	441	14	1	.065 or 16	14	351/2	50.88
430	18	1	.048 or 18	12	341/2	54.36	441	17	1	.065 or 16	14	43	59.52
430	20	1	.048 or 18	12	383/4	59.52	441	18	1	.065 or 16	14	48	62.04
430	24	1	.048 or 18	12	46	70.32	441	24	1	.065 or 16	14	60	79.32
435	12	1	.048 or 18	10	241/2	37.92	442	14	1	.065 or 16	8	351/2	50.88
435	14	1	.048 or 18	10	27	43.56	442	17	1	.065 or 16	8	43	59.52
435	17	1	.048 or 18	10	33	51.72	442	18	1	.065 or 16	8	48	62.04
435	18	1	.048 or 18	10	341/4	54.36	442	24	1	.065 or 16	8	60	79.32
435	20	1	.048 or 18	10	3834	59.52	445	17	1	.065 or 16	8	43	59.52
435	24	1	.048 or 18	10	46	70.32	445	18	1	.065 or 16	8	48	62.04
436	12	1	.048 or 18	8	241/2	37.92	445	24	1	.065 or 16	8	60	79.32
436	14	1	.048 or 18	8	27	43.56	445	30	1	.065 or 16	8	66	98.64
436	17	1	.048 or 18	8	33	51.72	447	17	11/2	.065 or 16	6	86	85.32
436	18	1	.048 or 18	8	341/2	54.36	447	18	11/2	.065 or 16	6	96	90.24
436	20	1	.048 or 18	8	3834	59.52	447	20	11/2	.065 or 16	6	104	99.84
436	24	Ĩ	.048 or 18	8	46	70.32	447	24	11/2	.065 or 16	6	128	119.04
440	14	î	.065 or 16	10	351/2	50.88	447	30	11/2	.065 or 16	6	160	147.84
440	16	î	.065 or 16	10	39	56.88	447	36	11/2	.065 or 16	6	190	176.76
440	17	î	.065 or 16	10	43	59.52	450	18	11/2	.065 or 16	10	96	90.24
440	18	î	.065 or 16	10	48	62.04	450	20	11/2	.065 or 16	10	104	99.84
440	19	î	.065 or 16	10	481/2	65.04	450	24	11/2	.065 or 16	10	128	119.04
440	20	î	.065 or 16	10	491/2	67.92	450	30	11/2	.065 or 16	10	160	147.84
440	21	1	.065 or 16	10	52	70.44	450	33	11/2	.065 or 16	10	176	162.36
440	22	i	.065 or 16	10	55	73.32	450	36	11/2	.065 or 16	10	190	176.76
440	23	1	.065 or 16	10	58	76.44	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER,	10,000,00		10.70			

The excellence of Atkins AAA Power Hack Saw Blades is due to the special Tungsten Alloy Steel, milled teeth, even light set, round gullet, and careful tempering process. Each blade is inspected before it is packed, and every blade must pass a very rigid inspection, consequently, you can buy these blades confident that they will give you the most cuts per saw, and therefore per dollar.

SILVER ATKINS

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TEEL SAWS

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Speed in Strokes Per Min. Atkins "All Hard" Hack Saw Blades of a Medium Weight Machine 10-17 10-17 10-17 10-17 10-17 17. 10-17 10-17 12-24 10-17 10-17 10-17 10-17 10-17 10-17 10-17 10-17 10-17 12-21 10-17 10-17 17 17 24 100 Length CUTTING VARIOUS MATERIALS ×4/4-1 ×4/4/4/4/4 : 2424-24 :24-124-124-1 74-7474-41P!M 8 218 18 13 13 13 13 13 13 Gauge 18 18 10 10 ∞ 488 :01 0040040 08488 0220429 4880 Pitch 115 409 423 115 22552 2522222 23 23 23 25 25 25 25 25555555 Cat. No. Speed in Strokes Per Min. 200 500000 500 00000000 Atkins "All Hard" Hack Saw Blades for a Light Power Machine 777 F F F F F F F F 7777777 1-1-222222 1-1-1-1певет 9999999 99999 999 99 9999999 999999 24/4/4 0/0/0/0/0/0/0/ 24/4 0/0/0/0/0/0/0/0/ Width 22 12222222 Gauge 22222 222 2222222 222222 4284284 224424 $\infty \infty$ 40000044 48488 4×8 Pitch 010001000 :661161 601 5566665 01100 0110 Cat. No. SAW BLADES FOR 4855555555555 Length Atkins Non-Breakable Flexible Back Hand Hack Saw Blades **HibiW** Gauge рісер 2000 ON JED Atkins "All Hard" Hand Hack Saw Blades ATKINS CHART OF HACK Pengih $^{\circ} | \overline{a} / \sqrt{3} | \overline{a} / \sqrt{3} | \overline{a} / \sqrt{3} / \sqrt{3} | \overline{a} / \sqrt{3} / \sqrt{3} | \overline{a} / \overline{a} | \overline{a} |$ M:qrp egner) Pitch Cat. No. Sheet Metal, under 18 ga. thick. Sheet Metal, over 18 ga. thick. Solid Stock, Cold Rolled, Machine Structurals, Light. Metal Trim, under 18 ga. thick Metal Trim, over 18 ga. thick Tubing, over 18 ga. thick. Tubing, under 18 ga. thick Material to Be Cut Ornamental Iron.... Pipe, Iron and Steel. Rails. Rails, Extra Heavy. Structurals, Heavy Electrical Casings Tee Iron, Light. Channels, Heavy Fibre Paper.... ee Iron, Heavy Cast Iron..... Channels, Light. ord Tire Wires Cable, Insulated Conduit Angles, Light. Machine Steel Hard Rubber. 3abbitt.... 3rass Pipe Juminum Steel 3ronze... Drill Rod lopper. 3rass... loo



ATKINS CHART OF HACK SAW BLADES FOR CUTTING VARIOUS MATERIALS—Continued

INCLUDING BAND SAW BLADES.

Material to Be Cut	V	tkins ". Blades	All Ho for H	ard" Feavy	kins "All Hard" Hack Saw Blades for Heavy Machine	3.	Blad	kins "	All Ha Extra	rd" Ha Heavy	Atkins "All Hard" Hack Saw Blades for Extra Heavy Machine	eu ue	BI	Atkins Hack Band Saw Blades for Slow Speed Machine	Slow chine	Speed		Blac	Blades for High Speed Machine	Atkuns 'All Hard Band Blades for High Speed Machine	Spec	g g
	Cat. No.	Pitch	Gauge	чтым	Length ni beedd in	Strokes Per Min.	Cat. No.	haif	ЭйпвЭ	H1biW	Length	Speed in Strokes Per Min.	Width	Gauge	Ріtch	Temper Speed in	Feet Per Min.	41Ы.	Gauge	holiq	Temper ni beed in	Feet Per Min.
Muminum	436	80	18	1	2-18	09	145	8	16	1	12-18	09						1100	12	1-	-	1000
Angles, Light.	423	18	18	1		20	441	14	91	1	12-18	02						-//-	21	6	*	100
Angles, Heavy	123	82	62	_	2-24	02	41	1	16		12-18	02	10%	.031	18			58-34	21	6	*	4000
Babbitt,	130	21 22	2 2			20	949	2 5	9 9		12.01	20	00/0	8.8	00 00	<u>م</u> ر	200	- AC 1	. 16	. 0	: *	100
Brass Pipe	153	2 00	2 82		2 2 2 2	202	441	1 2	9		2-18	202	× /0	.031	24	-		172	15	0 6	*	1000
Bronze	123	18	18	_		02	441	14	91	1	100	20	0/00	.031	8		-	4.10	21.	00	*	100
Cast Iron	130	27	18	-		20	440	10	91	_	150	02	5,8,34	.031	12			1.00	1	1	1	4
Channels, Light	123	18	18	_		02	7	7	91		a.L.	20			* * * *	(F)		12-34	5	6	*	1000
Channels, Heavy	153	00 5	ω <u>ς</u>		2-24	020	441	12	91		2-18	02	8,8,2	.031	<u>∞</u> :	<u> </u>	200			i	:	
Cond Rolled Steel	654	20	0 0			90	014	20	10		125	300		.031	010						. 46	0000
Drill Bod	130	0 2	0 00	4 -	0.01	2 9	242	0 0	2 2		1000	2 9		1 2 2	0 7			D. 2	17	0		001
Machine Steel	435	12	18		0-24	80	445	00	9		12-18	80	5/2,7	.031	19							
Metal Trim, under 18 ga. thick							5000										*	58-34	21	6	*	1000
Metal Trim, over 18 ga. thick				:					:									, L	21	8	*	1000
Ornamental Iron	123	18	18	_		02	141	14	91	1		20	5/8-3/4	.031	12	В	150	. *			30	
Pipe, Iron and Steel	423	18	18	-	12-24	02	441	14	91	1	12-18	02	5/8-3/4	.031	11	U	150			V SACRET		
Rails	435	10	18	1		02	445	00	91	_		02		.031	12	A	001	:	:	•	:	
Rails, Extra Heavy	440	10	91	_		09	450	10	91	11/2 1		09		.036	10	V	001	140		4		
Sheet Metal		1		.,														12-5/8	21	6	*	1000
Solid Stock, Cold Rolled, Machine	435	10	20	_	1	80	440	01	91		24 55	80	1-8%	.031	10	-				*	*	
Structurals, Light	423	18	18	_		20	441	7	91	STEEL STEEL	33,199	20	5, 3, 4, 34	.031	14	-	100	12-5/8	21	6	*	4000
Structurals, Heavy	423	18	18	_		02	441	7	91		-CO (C)	20	58,34	.031	12	-		. 58	100000			
Tee Iron, Light	423	18	18	_		02	441	14	91		MIES.	02	58,34	.031	ž	-		12-5/8	121	6	*	000
Tee Iron, Heavy	423	18	18	_		02	441	14	91		m 100	02	28-1	.031	14		125					
Tool Steel	425	14	18	1	2-24	20	442	21	16		12-18	20	1-8/2	.031	7	V	100				:	
Tubing, over 18 ga. thick	423	18	18	_		02	441	7	91		834 38	02	3, 3,	.031	18				:			
Tubing, under 18 ga, thick	193	20	18	-	-1	20	141	1.4	71			00	5/ 3/	031	V.c.			1/ 5/		0	46	1000

*Slow File temper.



ATKINS HACK SAW FRAMES

ATKINS HOOSIER EXTENSION, No. 1

High grade steel; heavily nickeled, highly polished. Takes blades 8 inches to 12 inches, inclusive. Blade can be used in four different positions. Fine enameled handle. Packed one in a box without blade unless otherwise specified. Price.....per dozen \$12.00 Weight, per dozen....pounds 13

ATKINS INDIANA SOLID STEEL, No. 2

Nickeled and polished. Blade can be faced four different ways. Enameled handle, fine finish. Packed one in a box without blade unless otherwise specified Size inches 8 9 10 12 Price doz. \$9.00 \$9.60 \$10.80 \$13.50 Wt.doz.lbs, 101/2 111/4 12

ATKINS 8-INCH IRON FRAME, No. 3

Frames are iron, black japanned, with black wood handles. Light, graceful in appearance, strong and rigid. Blade is held by stationary pins, which cannot be lost, and the blade can be used in four different positions. Packed one-half dozen in a box without blade. Length...inches 8 9 10 12 Price per dozen \$5.20 \$5.50 \$5.85 \$6.20 Wt. per doz. lbs. 2034 21½ 22¼ 24½

ATKINS No. 4 GRIP HANDLE

A handle that gives the user not only greater ease of operation, but a much better control of the saw.

Frame is $4\frac{1}{2}$ inches high, adjustable, blades from 8 to 12 inches may be used. Made of extra high-grade steel, $\frac{3}{4}$ inch wide and $\frac{3}{32}$ inch thick, very strong and stiff, but light. Even when extended to full length, frame is stiff and rigid because the adjusting features are sufficiently large and strong to make it so.

It is heavily nickel-plated, polished and buffed, so that it will not easily rust. Blade may be turned to cut at four different angles. Packed one in a box with blade unless otherwise

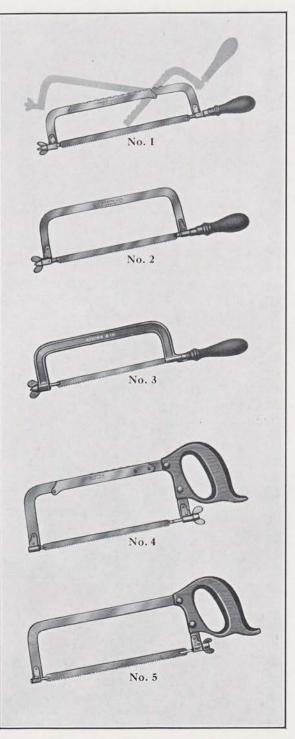
specified. Price.....per dozen \$23.50 Weight, per dozen....pounds

ATKINS No. 5

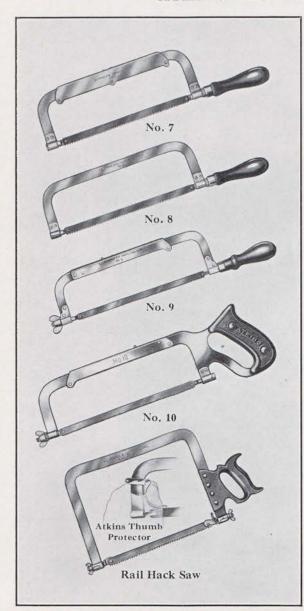
Same style handle as No. 4 with all its advantages, excepting that the frame is solid-Extra fine steel, heavily nickeled and polished. Blade can be faced four different ways. Accommodates 10-inch blade. Packed one in a box with blade unless otherwise specified.

Price.....per dozen Weight, per dozen.....pounds

Nos. 2, 5 and 8 will have blades to fit. All others not specified are packed without blades.



ATKINS HACK SAW FRAMES



ATKINS No. 7

Strong, rigid extension frame, taking 8 to 12-inch blades. Peg on the under side of the frame fits into a series of holes on the upper or outer side. Handle turns to adjust tension. Can be set to four different angles. Nickel-plated, finely buffed and polished. Depth, 3 inches, width, \(\frac{1}{12}\) inch thickness. \(\frac{1}{2}\) inch

thickness, $\frac{1}{16}$ inch.

Selected hardwood handle, finely finished, mahogany colored. Packed one in a box with blade.

Price.....per dozen \$26.20 Weight, per dozen.....pounds

ATKINS No. 8

Like No. 7, without extension feature. Made for an 8, 9, 10 and 12-inch blade. Very stiff and rigid, 11 inch wide, 15 inch thick, rounded edge, three inches deep.
Finely finished hardwood handle. Packed one in a box with blade.

ATKINS No. 9

Atkins No. 9 Extension Hack Saw, made of high-grade steel, heavily nickeled, highly polished. Enameled handle.....

Will accommodate blade from 3 to 12 inches inclusive and can be adjusted to cut at four different angles. Packed in individual boxes without blade, unless

......per dozen \$10.00 Weight, per dozenpounds

ATKINS No. 10

Hard Rubber Handle, "Easy Grip" pattern; hung low, thus directing entire force of stroke on a line with the cutting edge of blade. This increases the cutting power of every stroke, gives the operator better control, and prevents injury to the hand should blade break. Frame of cold rolled steel ½ inch thick and ¾ inch wide. Nickeled and highly polished; adjustable to 3, 9, 10, 11 and 12-inch blades. Peg on under side of frame fits into a series of holes in the upper or outside frame, making it strong and rigid. Depth under back to cutting edge of blade, 3 inches. Packed one in a box with blade. in a box with blade.

....per dozen \$39.75 Weight, per dozenpounds

ATKINS RAIL HACK SAWS

A frame of Special Spring Steel ¼ inch wide, ¼ inch thick, adapted to heavy cutting such as rails, I-beams, girders, etc. Made in seven sizes to handle a wide range of work. Nos. 4, 5 and 6 have handles on both ends. A double

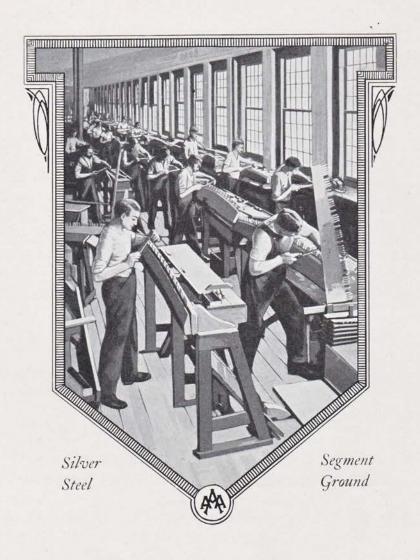
turnbuckle secures a heavy tension on the blade.
Seasoned hardwood handles, polished edges, fastened
by four brass screws. Packed one in a box.
Note: We recommend the use of Atkins No. 400 AAA
Hack Saw Blades in connection with the Rail Hack frames.
These blades are listed on page 143.

ATKINS THUMB PROTECTOR \$3,00

SPECIFICATIONS OF RAIL HACK SAWS

No.	Under Back Inches	Length Blade Inches	Weight Each Pounds	Price Without Blades per Doz.
1	7	9	3 1 3	\$28.10
$1\frac{1}{2}$	7	12	4	30.70
2	10	12	53/8	32.85
3	10	14	53/4	35.30
4	10	17	61/2	43.00
5	10	18	65/8	44.10
6	10	20	7	63.40

ATKINS CROSS CUT SAWS



ATKINS CROSS CUT SAWS

SILVER STEEL-SEGMENT GROUND

The most essential feature in the manufacture of a cross cut saw is the material used in the blade.

Cross cut saw steel must be hard and tough, so as to prevent the teeth from bending or dulling easily, and that they may hold their set. It must withstand hard knots and obstructions. Furthermore it should file and set readily to save the filer unnecessary time in refitting. Yet it must not be brittle, else the teeth and points will break off in use, or in refitting.

The steel that will measure up to these conditions to the highest degree is best adapted for cross cut saws. We subject each plate to the most minute analysis and physical test, hence we are in position to know that each saw of our make is the best that can be made.

SILVER STEEL

The formula for Silver Steel is our own exclusive property. It contains most effective ingredients. It is exceedingly close and smooth grained, and while it files easily, it will, at the same time, take an exceedingly hard, tough temper which enables it to hold its keen cutting edge a remarkable length of time. It is actually as fine in quality as the steel used in high-grade razor blades.

TEMPER

A careful analysis is made in our laboratory to be absolutely sure that it is fully up to specifications. Should the analysis show even a slight deviation, the blade is immediately rejected.

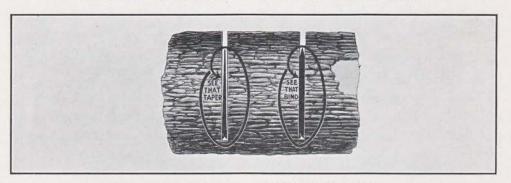
The heat treatment of all cross cut saws is ordered by the chemist, based upon his analysis. This is applied scientifically so that there is no possibility of the least variation.

Each blade, however, is rigidly inspected, thereby avoiding shipment of any but perfect saws.

These safeguards enable us to warrant Atkins Silver Steel Cross Cut Saws to be of perfect temper and construction and so thoroughly are we convinced of their merits, that we positively guarantee that they will not only run easier and cut faster, but that they will hold a sharp cutting edge at least one-fourth longer than any other cross cut.

Every Silver Steel Cross Cut Saw is plainly marked with the words "Silver Steel" and "E. C. Atkins & Co." on the blade. None others are genuine.

ATKINS SEGMENT GRINDING PROCESS



Atkins Segment Grinding

Old Style Straight Grinding

E. C. Atkins & Company are the inventors of and own the exclusive patent rights for using the Segment Grinding process for cross cut saws.

Segment Grinding consists of finishing the blade of an absolutely even gauge along the toothed edge and from the toothed edge it is ground on the segment of a circle to the center of the back.

In other words, the standard blade is ground 14 gauge along the entire toothed edge, 17 gauge on the back at the ends, 18 to 20 gauge on center of back and from the thickest to the thinnest point on the back. Heavier saws in like proportion.

Atkins Segment Ground Cross Cut Saws, being thicker at the ends, are stiff and do not buckle, and as they are thinnest at the center of the back, they have ample clearance, enabling them to be operated easily and with very little set.

The distinction between our Segment Ground Saws and any other lies in the fact that the blades are ground as stated above on an actual segment of a circle from the toothed edge to the center of the back. This is illustrated on the left of the picture above, and shows clearly why we make the claim that Segment Ground Saws will run easier and cut faster.

The old style ordinary grinding is shown to the right in the illustration, indicating a saw simply dubbed off on the back for an inch or two. Blades constructed on this principle must rely entirely upon the set of the teeth and the use of wedges in order to secure clearance. Segment Ground Cross Cut Saws clear themselves. All Silver Steel Cross Cut Saws are Segment Ground.

SPECIFICATIONS OF TEETH

Number of Saw	Depth of Raker Gullet Inches	Width of Raker Gullet Widest Place Inches	Depth of Tooth Gullet Inches	Width of Tooth Gulle Widest Place Inches
5	17/8	7/8 7/8 13	15/8 15/8 15/8 15/8	1/4
4	17/8	7/8	15/8	1/4
12	11/2	13 16	15/8	1/4
1	11/2	-11	1.5 1.6	3/8
3	15%	34	1.5	76
11	13%	5/8	$1\frac{7}{16}$	3/8
6	11/4	11	11/8	7
221	$1\frac{9}{16}$	7/8	13/8 13/8	7
218	$1_{\frac{9}{16}}^{\frac{1}{16}}$	3/4	13/8	3/8
331	11/2	116 (4) (8) 116 (8) 4 (8) (4) (8) (4)	1	78 16 8/8 7 16 17 16 16 18 18 18 18 18 18 18 18
225	15/8	11 16	15/8	7 32
379	1		7/8	15
386	11/4	9	1.5	3
387	$1\frac{9}{16}$	78 9 16 11 16	$1\frac{5}{16}$ $1\frac{9}{16}$	7 37
540	13/8	16	11/8	3
550	13/8	16 16 74	11/8	3
551	17/8	7/8	15/8 15/8	1/4
553	178	7/8/8/8/9 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	15/8	1/4
556	17/8	7/8	15/8	1/4
518	11/2	9		5
741	15%	1/3	1½ 15/8 15	16
389	11/8		15 16	14 14 5 16 16 16 2 16
654	11/2	1/2	15	3

ATKINS STYLES OF CROSS CUT TEETH

The evolution of the Cross Cut Saw from the old style "V" tooth, to the scientifically constructed teeth of the present day, has developed a great variation in the outline and specifications under which Cross Cut Saws are made.

The EASY RUNNING quality found in Atkins Silver Steel Segment Ground Cross Cut Saws is secured through the scientific principle with which the cutting teeth are designed, and we feel satisfied that if any Cross Cut Saw user subjects them to a fair, conscientious test that he will find them superior to all other cross cut saws in ease of operation, material, temper grinding and finish; that they will cut faster and hold their edge longer than any other saw.

On account of their popularity we are making the above patterns only of genuine Silver Steel, which insures saws of the greatest edge, set and tension holding qualities.

Each of these patterns will be fully described upon the following pages.

On the next page, we show a number of our patterns which have become extremely popular for general use. While these saws are employed to some extent in the lumber camps, still they are used much more frequently as general purpose saws.

For this reason, we make them not only in genuine Atkins Silver Steel, when so specified, but also of a very high quality Special Crucible Steel, at prices corresponding to the quality.

ATKINS STYLES OF CROSS CUT TEETH

DEXTER Nº 219

MANAMAN MANAMAN

VICTOR Nº 225

AMERICAN Nº 333

almandalma a

LONE STAR Nº 223

DIAMOND Nº 222

LANCE Nº 227

warmanii warmanii

TUTTLE Nº 331

MANNAMA

COMMON Nº337

HOLLOW BACK SAWS

TUTTLE Nº 379

AMERICAN Nº 385

And Malalala

DIAMOND Nº 384

VICTOR Nº 386 Minnin Min

ATKINS REX CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND



These saws are made of Atkins Silver Steel and are Segment Ground, described fully on pages 149, 150 and 151. No. 1 is a wide blade and is used for heavy, soft woods such as cottonwood, yellow poplar, white pine, etc. They are among our leaders and are preferred by thousands of saw users for their easyrunning, fast cutting qualities.

The Rex No. 11 has a tooth similar to the above, but is made on a narrower plate and is perforated. A light saw, and one that has given the best of The No. 540 is very popular for cutting oak and other hard woods. Used by woodsmen, farmers and others who prefer quality.

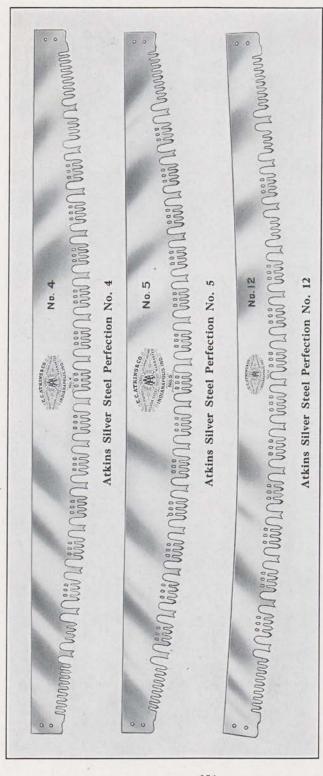
satisfaction wherever used; this saw is used for falling soft woods and for general purposes in small timber.

		41/2	22	5/2	9	6.72	7	71/2	8
rice, Nos. 1, 540 and 11.	\$6.45	\$7.25	\$8.10	\$9.50	\$10.90	\$12.80	\$13.85	\$16.50	\$18.15

Prices as given below do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS PERFECTION CROSS CUT SAWS SILVER STEEL—SEGMENT GROUND



Atkins Perfection Pattern Tooth is well known wherever cross cut saws are largely used. Designed for cutting yellow pine, hardwoods and resinous, knotty timber. Unsurpassed for speed and light running. Full description of general construction and methods of manufacture will be found on pages 149, 150, 151 and 175. These saws are used principally by expert timber cutters and woodsmen east of the Mississippi River and in the South.

Perfection style of tooth is supplied on several different types of blade as follows: No. 5, extra wide blade. No. 4, a somewhat narrower blade used for medium sized timber. No. 12, a narrow blade used principally for falling or in cutting small timber, also furnished on Nos. 551, 553, 556.

Length		 	 	 	T. T. T. T. T. T. T. T. T.	feet	Ť	41/2	.23	51/2	9	61/2	Ľ	71/2	00
Price, Nos. 4,	5, 12.	 	 	 ****		. each	\$6.45	\$7.25	\$8.10	89.50	\$10.90	\$12.80	\$13.85	\$16.50	\$18 15

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws see page 175.



Atkins Silver Steel Concave Tooth Dexter, No. 20 No.223 Atkins Lone Star, No. 223 Atkins Diamond, No. 222

ATKINS CROSS CUT SAWS

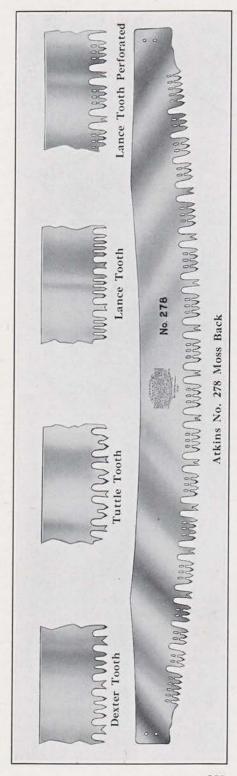
220 No. Atkins Concave Tooth Dexter Saw is Dixie's favorite. For the woods of the south it has no equal. Stands at the head of the list of easy, fast cutting saws. No. 219 thin back. extra thin back. Atkins Diamond is made in Silver Steel and special steel in No. 223. Atkins Lone Star 7-foot blades are 6 inches wide at center. 5 feet and under will be supplied with somewhat smaller tooth unless specified.

Longthfoet	4	41/2	2	572	9	61/2	7	73/2	89
18, Concave Tooth Dexter, Silver Steel, 14 x 16 gauge	\$6.45	\$7.25	\$8.10	\$9.50	\$10.90	\$12.80	\$13.85	\$16.50	\$18.15
 Concave Tooth Dexter, Silver Steel, 14 x 18 gauge. 	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
footh Dexter, Silver Steel, 14 x 19 gauge	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
18, Concave Tooth Dexter, Special Steel, 14 x 16 gauge.	5.45	6.25	6.95	7.70	8.30	9.00	9.70	10.40	11.10
 Concave Tooth Dexter, Special Steel, 14 x 18 gauge 	5.75	6.55	7.25	7.95	8.65	9.35	10.05	10.75	11.45
 Concave Tooth Dexter, Special Steel, 14 x 19 gauge. 	5.75	6.55	7.25	7.95	8.65	9.35	10.05	10.75	11.45
21, Diamond, Silver Steel, 14 x 16 gauge	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
22, Diamond, Silver Steel, 14 x 18 gauge	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
21, Diamond, Special Steel, 14 x 16 gauge	4.75	5.45	00.9	09.9	7.25	7.85	8.40	9.10	09.6
22, Diamond, Special Steel, 14 x 18 gauge	5.20	5.90	6.55	7.25	7.85	8.45	9.20	06.6	10.50
 Lone Star, Diamond Tooth, Special Steel, 14 x 18 gauge 	5.20	5.90	6.55	7.25	7.85	8.45	9.20	06.6	10.50
 same plate as No. 223, Lone Star, but with teeth same as Dexter No. 21 	5.20	2.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS MOSS BACK CROSS CUT SAWS 14 x 18 GAUGE



We make the Moss Back Blade as shown in the illustrations above, in connection with a number of the most popular styles of teeth, in sizes and at lists given below. Made of Atkins Silver Steel, tempered hard and tough, and known as Atkins No. 78 Moss Back.

We also supply this blade in Atkins High-Grade Special Steel, which is given a careful temper, to withstand ordinary usage in a satisfactory manner. In ordering, specify style of tooth, number and length, also whether Silver Steel or Special Steel.

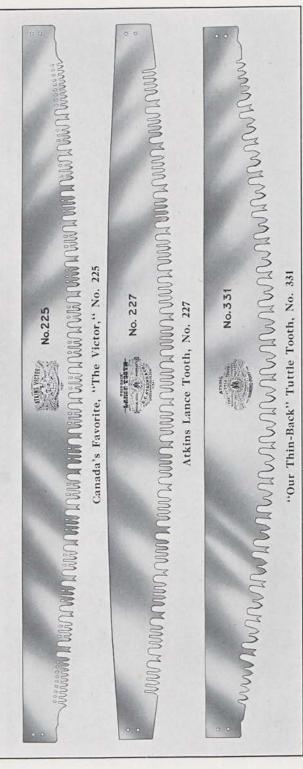
4	4	41/2	10	51/2	9	61/2	7	71/2	00
No. 78, Lance Tooth, perforated, Silver Steeleach	\$6.45	\$7.25	\$8.10	89.50	\$10.90	\$12.80	\$13.85	\$16.50	\$18.15
Special Steel	6.10	06.9	7.65	8.25	9.15	9.95	10.70	11.45	12.25
ance Tooth, not perforated, Silver Steel	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
ance Looth, not perforated, Special Steel.	5.80	6.50	7.20	7.95	8.65	9.35	10.10	10.80	11.55
uttle Tooth, not perforated, Silver Steel	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
not perforated, Special Steel.	5.80	6.50	7.20	7.95	8.65	9.35	10.10	10.80	11.55
uttle Tooth, perforated, Silver Steel	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
uttle Tooth, perforated, Special Steel	6.10	06.9	7.65	8.25	9.15	9.95	10.70	11.45	12.25
oncave Tooth Dexter, Silver Steel	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
teel	6.10	06.9	7.65	8.25	9.15	9.95	10.70	11.45	12.25

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.



ATKINS CROSS CUT SAWS



Atkins Victor, No. 225, is Canada's favorite; patented February 12, 1834. An excellent Cross Cut Saw. Atkins Lance Tooth, No. 227, is thin back, not perforated. Atkins Nos. 330, 331 and 332 are the original Tuttle Tooth, Diamond Point.

			2/2		2/2			
No. 225, Victor, perforated tooth, special steel, 14 x 18 gauge each \$6.20 \$7.00 No. 227, Lance Tooth, special steel, 14 x 18 gauge each 5.90 5.90 No. 330, Thin-Back Tuttle Tooth, special steel, 14 x 18 gauge each 4.25 4.70 No. 331, Thin-Back Tuttle Tooth, special steel, 14 x 18 gauge each 4.25 5.00 No. 331, Thin-Back Tuttle Tooth, special steel, 14 x 19 gauge each 4.35 5.50	20 \$7.00 22 5.90 25 4.70 26 5.90 20 5.90	\$7.75 6.55 5.20 6.10 6.55	\$8.45 7.25 5.75 6.70	\$9.25 7.85 7.35 7.85	\$10.05 8.45 6.80 7.95 8.45	\$10.85 9.20 7.35 8.55 9.20	\$11.55 9.90 7.85 9.20 9.20	\$12.35 10.50 8.40 9.80 10.50

We will furnish any of the saws listed above in Silver Steel if desired. Prices as given above do not include handles. Tuttle Tooth 5 feet long and under are made with a smaller tooth than shown above unless otherwise specified.

For complete specifications of above Cross Cut Saws see page 175.

\$8.40

\$7.85

\$7.35

\$6.80

\$6.25

\$5.75

\$5.20

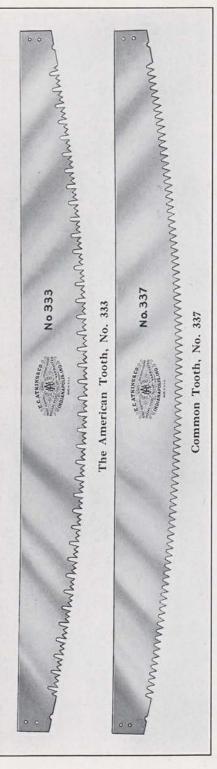
\$4.70

\$4.25

.....each

No. 335 special steel, 14 x 16 gauge

ATKINS CROSS CUT SAWS



ATKINS AMERICAN TOOTH, No. 333

engthfeet	4	41/2	2	$5\frac{1}{2}$	9	61/2	7	71/2	80
Vo. 333 special steel, 14 x 16 gauge.	\$5.05	\$5.65	\$6.35	\$7.00	\$7.60	\$8.20	\$8.80	\$9.55	\$10.15

ATKINS COMMON TOOTH, No. 337

No. 337 special steel, 14 x 16 gauge. No. 338 special steel, 14 x 18 gauge.	\$4.25	\$4.70	\$5.20	\$5.75	\$6.25	\$6.80	\$7.35 8.20	\$7.85	\$8.40
Distance from point to pointinches	8/2	8/2	82	34	25/4	-	1	11/4	114

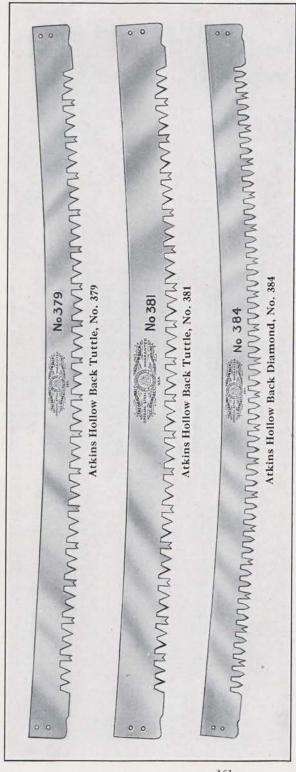
ATKINS HICKORY, No. 335 Same as No. 337, except fine teeth.

	 ***************************************	1		-	000			9	200000	
Vo. 336 special steel, 14 x 18 gange	(Jose	\$4.85	84.85 85.60 86.10 86.70 87.85 87.05 88.55 80.90 8	01.98	02.98	\$7.35	87.05	88 44	06.08	60.00

We will furnish the saws listed above in Silver Steel if desired. Regular gauge is 14 x 16. Thin-Back is 14 x 18 gauge. Prices do not include handles. For complete specifications of above Cross Cut Saws see page 175.



ATKINS HOLLOW BACK SAWS



Atkins Hollow Back Tuttle, No. 379, is 3¼ inches wide at ends and center in all lengths. No. 380 is 3¾ inches wide, 13 or 14 gauge, No. 381 is 3¾ inches wide, 14 x 16 or 13 x 15. Depth of raker gullet, 1 inch. Width of raker gullet, widest place, 7% inch. Depth of tooth gullet, 7% inch. Width of tooth gullet, widest place, 15 inch.

Atkins Hollow Back Diamond, No. 384, is 3¼ inches wide at ends and center in all lengths. Depth of raker gullet, 1¼ inches. Width of raker gullet, widest place, ¼ inches. All of the above saws are made in Atkins High-Grade Special Steel, carefully tempered for satisfactory service and nicely finished throughout.

\$5.65 5.90 6.55 5.90 315. \$5.30 5.55 6.10 5.55 280. \$4.95 5.20 5.65 5.20 215. 345.5 \$4.60 4.85 5.20 4.85 248.5 330. \$4.25 4.40 4.75 4.40 235. 315.5 \$3.90 4.05 4.35 4.05 222. 310. \$3.55 3.70 3.70 3.70 205. 271.5 10 \$3.20 3.35 3.55 3.55 3.35 1.87. 238.5 \$2.80 3.20 3.20 3.00 163.5 No. 379, Tuttle Tooth, 3¼ inches wide.

No. 380, Tuttle Tooth, 3¾ inches wide, 13 or 14 gauge. each
No. 381, Tuttle Tooth, 3¾ inches wide, 14 x 16 or 13 x 15 gauge. each
No. 384, Diamond Tooth, 3¼ inches wide.

Weight, Nos. 379 and 384, packed 50 saws in case. pounds
Weight, Nos. 380 and 381, packed 50 saws in case. Length......feet

Prices as given above do not include handles.

\$5.90 6.60 7.15 8.40 315. 435.

\$5.55 6.20 6.70 7.40 280.

\$5.20 5.80 6.25 6.25 6.55 345.5

\$4.85 5.40 5.75 6.00 243.5 330.

\$4.40 4.95 5.40 5.55 235.

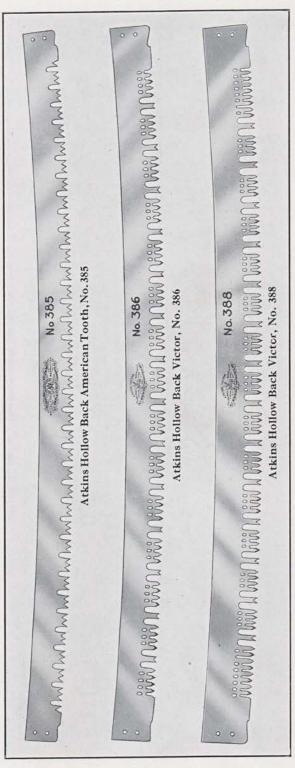
\$4.05 4.60 4.95 5.10 310.

\$3.70 4.15 4.50 4.70 205.

\$3.35 3.70 4.05 4.15 187.

..each

ATKINS HOLLOW BACK SAWS



Atkins Hollow Back American, No. 385, is made in one width only, 3¼ inches at both ends and centers in all lengths. The depth of raker gullet is 11/8 inches; width of raker gullet, widest place ½ inch; depth of tooth gullet ½ inch; width of tooth gullet, widest place ½ inch.

Atkins Hollow Back Victor, No. 386, is the well known Lance Tooth Pattern. It is 3¼ inches wide at ends and centers in all lengths. Depth of raker gullet, 1½ inch. Width of raker gullet, 1½ inch. Depth of tooth gullet, 1½ inches. Width of tooth gullet at widest point, 1½ inch.

No. 387 is 33% inches wide, 14 gauge. No. 388 is 3% inches wide, 14 x 16 gauge. The two latter saws have raker gullet with depth of 1 1 is inches; width of raker gullet widest place, 1 inch. Depth of tooth gullet, 1 is inches. Width of tooth gullet, widest place, 3 inch. All the above saws are made of Atkins High-Grade Special Steel and fully warranted.

\$3.00 3.35 3.60 3.70 172.5 227.5each Length......feet No. 385, American Tooth, 3¼ inches wide
No. 386, Victor, Lamee Tooth Pattern, 3¼ inches wide,
No. 387, Victor, Lamee Tooth Pattern, 3¾ inches wide, 14 gauge,
No. 388, Victor, Lamee Tooth Pattern, 3¾ inches wide, 14 x 16 gauge,
Weight, Nos. 385 and 386, packed 50 saws in a case.
Weight, Nos. 387 and 388, packed 50 saws in a case.

spunod Prices as given above do not include handles.

ATKINS ONE-MAN CROSS CUT SAWS

SEE ILLUSTRATIONS

ATKINS CEDAR KING, No. 389

The blade is of Atkins High-Grade Special Steel. The toothed edge is of even thickness, but the blade gradually tapers towards the point on the back. The teeth are same pattern as the No. 540 Cross Cut Saw on page 153. Skew back. An easy grip handle, finely carved, varnished edges, fastened to the blade with two brass screws and a medallion.

ATKINS ONE-MAN, No. 654

This saw, as illustrated, is the same pattern plate as Cedar King, taper ground. The blade has four cutting teeth and raker, perforated same as No. 741; handle is same as No. 741; it is 15 gauge on tooth edge and 17 gauge on the back at the point; the center is 18 gauge and at the butt near handle, 19 gauge.

ATKINS TAMARACK, No. 741

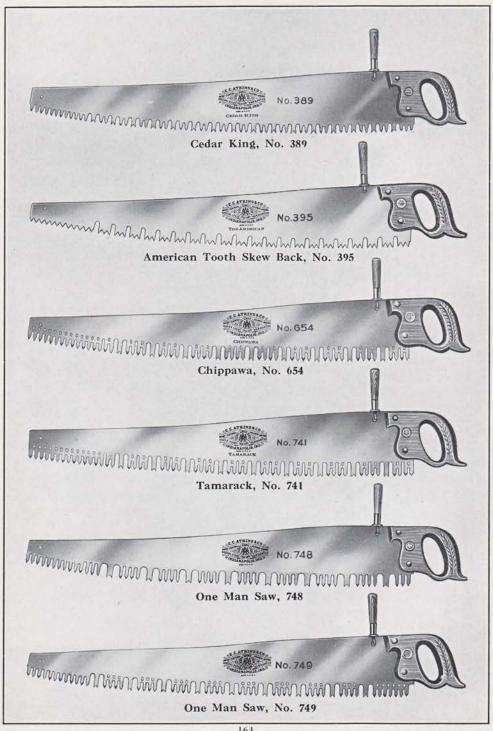
Extra heavy gauge. Taper ground. Lance tooth perforated. Perfection shape rakers. Extra large hand hold, for use with heavy gloves. Silver Steel. Two brass screws and medallion.

ATKINS ONE-MAN, No. 748

A very popular, medium priced saw. The teeth are similar in pattern to the Lance Tooth Victor Cross Cut Saw on page 162, but are smaller and not perforated. Blade of Atkins High-Grade Special Steel. Fully equal to any other maker's best quality. It is Taper Ground for clearance, being 15 gauge along the entire toothed edge, 18 gauge on back at butt, and 17 gauge on the point. The handle is extra large for use with gloves, if desired. Made of finely finished hardwood, varnished edges, and fastened to the blade with two brass screws and a medallion. No. 749 is the same except the teeth are perforated; see page 164.

Lengthfeet	21/2	3	31/2	4	41/2	5	51/2	6
Price, Nos. 389, Cedar King,	\$4.70 5.10 5.10	\$5.40 5.80 5.80	\$6.10 6.80 6.80	\$6.70 7.60 7.60	\$7.60 8.45 8.45	\$8.45 9.35 9.35	\$9.20 10.15 10.15	
Weight, packed 25 saws to case, Nos. 389, 748, 749, 741 and 654, each lbs.	110	135	150	185	220	250	280	310

ATKINS ONE-MAN CROSS CUT SAWS



ATKINS ONE-MAN CROSS CUT SAWS

SEE ILLUSTRATIONS

We devote quite as much care and attention to the manufacture of our One-Man Saws as to the

heavier types of Two-Men Cross Cut Saws shown on previous pages.

The saws illustrated on page 166 are all made of a very fine quality of Special Crucible Steel. This steel is given an exceedingly hard, tough temper in which process we use specially constructed furnaces heated by gas. This insures great uniformity throughout the entire blade and precludes hard and soft spots.

All blades are carefully ground, which produces uniform thickness, so that Atkins One-Man Saws

will of necessity run free and easy.

The handles are made of carefully selected air-dried beech and nicely finished. Varnished on the edges only. Atkins Easy Grip Pattern. Fastened to the blade with two brass screws and a brass screw medallion.

ATKINS No. 390

A general description of this saw is given below. It is made in lengths from 21/2 to 6 feet and has the same pattern tooth as found in the regular patterns of Tuttle Tooth, Nos. 330 and 379, but of somewhat smaller size.

ATKINS No. 391

Details in regard to the construction of this saw will be found at the bottom of this page. It is made in lengths from 2½ to 6 feet and the teeth are similar to the regular Diamond No. 221 on page 157, though smaller.

ATKINS No. 392

We have fully described the general construction of this saw at the bottom of this page. It is made in lengths from $2\frac{1}{2}$ to 6 feet and in both straight and skew back patterns. The straight back is No. 392 and skew back No. 394. Teeth are same as in the regular Victor No. 225 on page 159, but smaller.

ATKINS No. 393

This is one of our most popular patterns of One-Man Saws and the details in regard to its general construction will be found below. It is made in lengths from 2½ to 6 feet and the teeth are the same as used in the regular American No. 333 on page 160, but smaller.

ATKINS No. 395

This saw is exactly similar to No. 393, except it is made with a skew back, instead of a straight back.

No.	Length, feet	$2\frac{1}{2}$	3	31/2	4	41/2	5	51/2	6
390, Tuttle Too	th, special steel each	\$3.20	\$3.80	\$4.50	\$5.10	\$5.75	\$6.35	\$7.00	\$7.60
391, Diamond T	ooth, special steel each	3.45	4.15	4.85	5.45	6.20	6.90	7.60	8.30
392, Victor Toot 394, Victor Toot	th, special steeleach h, special steel.	3.55	4.25	4.95	5.65	6.35	7.05	7.75	8.45
	keach	3.60	4.40	5.10	5.80	6.60	7.35	8.05	8.80
	ooth, special steel, each ooth, special steel,	3.45	4.15	4.85	5.45	6.20	6.90	7.60	8.30
skew bac	keach ooth, special steel,	3.55	4.25	4.95	5.65	6.35	7.05	7.75	8.45
	oackeach	3.20	3.80	4.50	5.10	5.75	6.35	7.00	7.60
Weight, packed	25 saws to case pounds	88	95.5	106.25	120.75	143.25	163.25	183.75	210

ATKINS SILVER STEEL ONE-MAN SAWS

For those desiring an unusually high-grade One-Man Saw, we can furnish any pattern shown above in Atkins Silver Steel. The use of this high-grade material in connection with the scientific construction throughout insures One-Man Saws vastly superior to any other.

In order to introduce them, so that their advantages may be appreciated, we are selling them at an

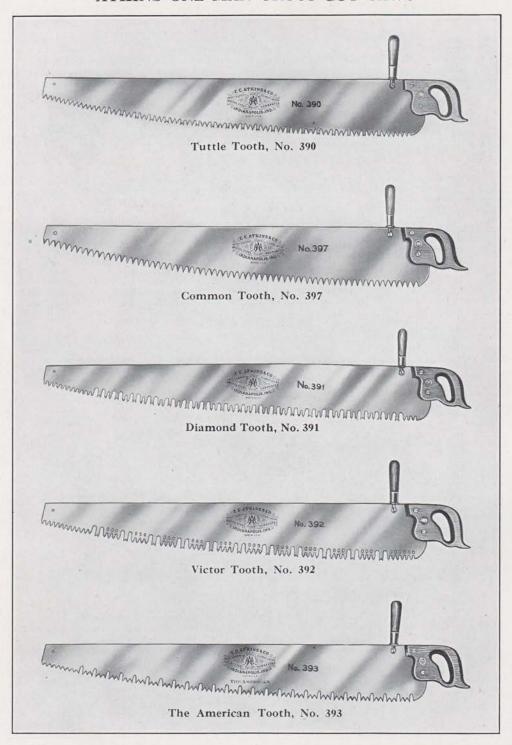
extremely low list.

We particularly recommend anyone desiring a strictly high-grade One-Man Saw which will receive an unusually keen, sharp cutting edge and hold it for the longest time to purchase the Silver Steel quality. SILVER STEEL, LIST PRICE

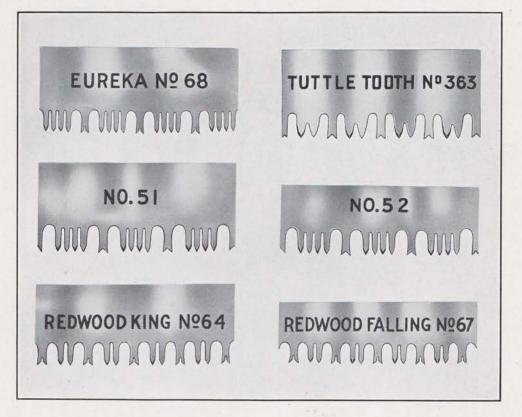
Lengthfeet	3	31/2	4	$4\frac{1}{2}$	5	51/2	6
Any pattern or style of tootheach	\$5.80	\$6.80	\$7.60	\$8.45	\$9.35	\$10.15	\$11.05



ATKINS ONE-MAN CROSS CUT SAWS



ATKINS PACIFIC COAST STYLES OF CROSS CUT TEETH



The character and large size of timber found in certain sections of the Pacific Coast have given rise to the use of several individual styles and shapes of teeth. The sections above illustrate patterns used in California, Oregon, Washington and the Inland Empire.

On the following pages we illustrate and fully describe all the various saws in use on the coast.

As it is difficult, however, in so small an illustration to give the exact construction of the teeth and rakers, we show above a few patterns in most general use. Our Cross Cut Saw Book will be mailed on request.

26.80

24.45

22.25

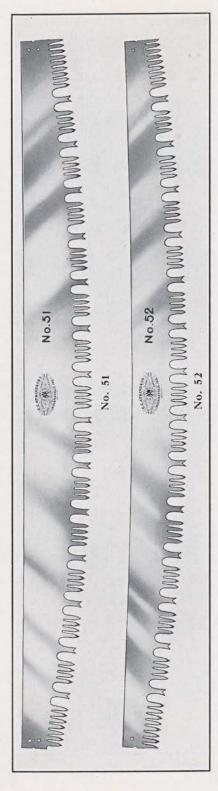
18.20

16.15

14.30

12.70

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS



ATKINS No. 51

This is a full width, heavy blade, toothed to the end. The teeth and rakers are extra long, with wide roomy gullets, for clearing the kerf of sawdust. They are particularly recommended for use in cutting fir, western pine and similar woods.

ATKINS No. 52

This saw has similar teeth to No. 51, but blade is considerably narrower and is recommended for falling purposes, in woods similar to those for which the No. 51 is best adapted.

Both the above saws are also made in Atkins High-Grade Special Steel at the following list prices. In special steel, the No. 51 is known as No. 251, and Both these saws are made of Atkins Silver Steel, which insures a maximum toughness and longest wear. They are also Segment Ground.

the No. 52 as No. 252.

24.00 \$24.00 20.05 29.30 \$20.05 No. 251, Special Steel, 13 x 17 gauge.

No. 252, Special Steel, 13 x 17 gauge.

No. 252, Special Steel, 13 x 17 gauge.

Ro. 252, Special Steel, 13 x 17 gauge. 26.80 16.50 18.20 24.45 13.70 15.10 22.25 20.20 18.20 10.85 16.15 14.30 51/2 12.70 Length.....feeteach No. 51, Silver Steel, 13 x 17 gauge.....cach No. 252, Special Steel, 13 x 17 gauge.....

Prices as given above do not include handles.

No. 52, Silver Steel, 13 x 17 gauge.....each

For complete specifications of above Cross Cut Saws, see page 175.



No. 363 No. 556 No. 361 Atkins Silver Steel Perfection, No. 556 Atkins Tuttle Tooth, No. 363 Atkins Lance Tooth, No. 361 LARIER TRUTH E CATKINS & CO

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

ATKINS PERFECTION TOOTH, No. 556-Same as No. 553 on page 155, excepting that it is toothed to the end. Made of Silver Steel, and a

fast-cutting, easy-running saw.

ATKINS LANCE TOOTH, No. 361—Similar to the Lance Tooth described on page 157, excepting that it is made without perforations.

ATKINS LANCE TOOTH, No. 363—This is the old original Tuttle Tooth. The best saw in the world for the money. Diamond point. Toothed to the end for Pacific coast use. No. 361 and 363 saws are made of Atkins High-Grade Special Steel highly tempered, carefully ground, finely finished, but can be furnished in Silver Steel when so ordered at Silver Steel price.

Lengthfeet	4	41/5	10	51/2	9	63/2	7	73/2	00
No. 556, Perfection Tooth, Silver Steel No. 361, Lance Tooth, thin back, not perforated, special steel No. 363, Tuttle Tooth, thin back, diamond point, special steel	\$6.45	\$7.25	\$8.10 7.15 3.80	\$9.50 7.95 4.20	\$10.90 8.65 4.55	\$12.80 9.35 4.95	\$13.85 10.05 5.50	\$16.50 10.75 5.70	\$18.15 11.55 6.10

For complete specifications of above Cross Cut Saws, see page 175. Prices as given above do not include handles.

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND

No. 64

Atkins Redwood King, No. 64

No. 67

Redwood Falling Saw, No. 67

ATKINS REDWOOD KING, No. 64

Atkins Redwood King, No. 64, as its name implies, is used almost exclusively in cutting redwood and woods of similar character. This saw is adapted especially for bucking and is a wide, heavy blade. Made in lengths from 6 to 20 feet, and in different gauges as listed below.

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No. 64, Standard, 13 gauge......each \$12.70 \$14.30 \$16.13 \$16.

ATKINS REDWOOD FALLING, No. 67

This is the companion saw to Redwood King, No. 64, but is designed particularly for falling purposes. Both the above saws are made of Atkins Silver Steel, and will therefore give the best results under heavy service. They are ground with the greatest care and smithed free from lumps, therefore they will run free and easy.

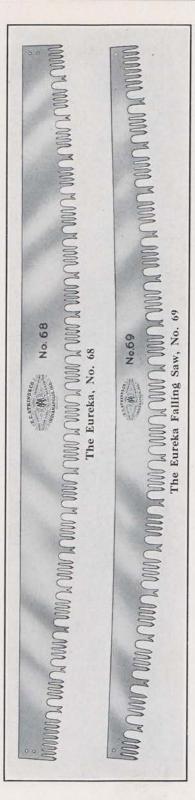
20	107.50
18	\$ 26.689
16	\$73.85
14	\$ 01.65
11 12 14	\$46.40
=	\$40.35
	34.50
91/2 10	.h \$12.70 \$14.30 \$16.15 \$18.20 \$20.20 \$22.25 \$24.45 \$26.80 \$29.30 \$31.90 \$34.50 \$40.35 \$46.40 \$59.10 \$73.85 \$89.95 \$107.50
6	\$29.30
87%	\$26.80
89	\$24.45
73/5	\$22.25
1.	\$20.20
67/2	\$18.20
9	\$16.15
51/2	\$14.30
10	\$12.70
taej	each
Length	No. 67, Standard, 12 gauge.

Prices as given above do not include handles. For complete specifications of above Cross Cut Saws, see page 175.



ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND



ATKINS EUREKA, No. 68

This saw was first designed for California trade, for use in cutting western redwood, pine, fir and other woods. Evenly ground, perfectly tempered and balanced. An extra wide, heavy blade, toothed to the end, and used for bucking.

ATKINS EUREKA FALLING, No. 69

Exactly similar to No. 68, except it is a narrower blade and is used for falling and cutting smaller timber. A favorite for California timber.

Both of the above saws are made of Atkins Silver Steel, and tempered in our gas furnaces to a very high degree of toughness and hardness. They will require very little re-fitting. They are also Segment Ground and will cut very fast and easy, needing but little set.

ATKINS EUREKA, No. 68 AND EUREKA FALLING, No. 69

Lengthfeet 5	2	51/2	9	61/2	7	71/2	00	81/2	6
No. 68, Eureka No. 69, Eureka Falling each \$12.70 \$14.30 \$16.15 \$18.20 \$22.25 \$24.45 \$26.80 \$29.30 No. 69, Eureka Falling	\$12.70	\$14.30	\$16.15	\$18.20	\$20.20	\$22.25	\$24.45	\$26.80	\$29.30

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

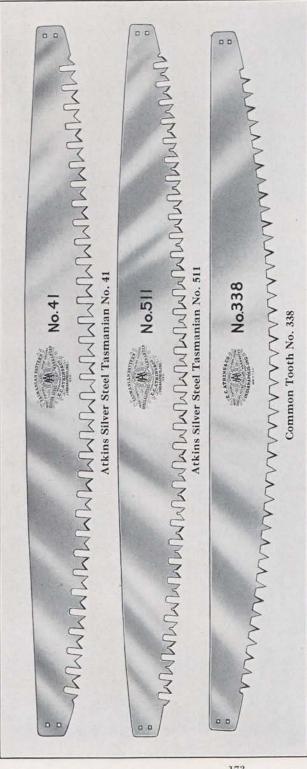


ATKINS CROSS CUT SAWS SILVER STEEL



Lengthfeet	4	$4\frac{1}{2}$	10	51/2	9	61/2	1	71/2	00
No. 551, Atkins Silver Steel Australian Perfectioneach		\$7.25	\$8.10	\$9.50	\$10.90	\$12.80	\$13.90	\$16.50	\$18.15
No. 552, Atkins Silver Steel Australian Rexeach	6,45	7.25	8.10	9.50	10.90	12.80	13.90	16.50	18.15
No. 542, Atkins Silver Steel.		7.25	8.10	9.50	10.90	12.80	13.90	16.50	18.15

All of above saws made with square holes in each end for Small Auckland Ears. NOTE—Prices of saws do not include ears or handles. For complete specifications of above Cross Cut Saws, see page 175.



ATKINS CROSS CUT SAWS

No. 511, Atkins Silver Steel Tasmanian Pattern with Filing Gullet. Width of gullets, 34 inch. Depth of gullets, 114 inches. Distance point to point of No. 41 Atkins Silver Steel Tasmanian Pattern. Width of gullets, 34 inch. Depth of gullets, 114 inches. Distance point to point of teeth, 113 inches. No. 241, same as above, but made out of high grade Special Steel.

No. 611, same as above, but made out of high grade Special Steel. teeth, 1 3 inches.

No. 338, Common Tooth Australian Pattern.

Lengthfeet	4	41/2	ıo	51/2	9	61/2	2	772	89
No. 41, Silver Steel Tasmanian. No. 241, Special Steel Tasmanian. No. 511, Special Steel Tasmanian. No. 611, Special Steel Tasmanian. No. 613, Special Steel Common Tooth.	\$6.45 5.20 6.45 5.20 4.70	\$7.25 5.90 7.25 5.90 5.30	\$8.10 6.55 8.10 6.55 5.90	\$9.50 7.25 9.50 7.25 6.45	\$10.90 7.85 10.90 7.85 7.05	\$12.80 8.45 12.80 8.45 7.70	\$13.85 9.20 13.90 9.20 8.20	\$16.50 9.90 16.50 8.80	\$18.15 10.50 18.15 10.50

All of above saws made with square holes in each end for Small Auckland Ears. NOTE—Prices of saws do not include ears or handles, For complete specifications of above Cross Cut Saws, see page 175.

MANUS MANUS MANUS Atkins Auckland Pattern, No. 8 Atkins Russian Pattern Swww

ATKINS CROSS CUT SAWS

Atkins No. 8 Auckland Pattern. Special Steel. Gauge, 14 x 17. Space of teeth in 6 foot and 6½ foot saws, 1 inch from point to point; in 7 to 10 foot saws, 114 inches. Space between sections of teeth, 2 inches.

gthfeet	2	51/2	9	61/2	2	73/2	00	81/2	6	91/2	10
8 Auckland Patterneach	\$7.65	\$8.25	\$9.15	\$9.95	\$10.70	\$11.50	\$12.25	\$13.25	\$14.25	\$15.35	\$16.50

Auckland Pattern Saws are made with square holes in one end for Small Auckland Ear, and other end slotted for Large Auckland Ear. NOTE—Prices of Auckland Pattern Saws do not include ears or handles.

Atkins Russian Pattern. Special Steel. Gauge—4 feet and under, 19 gauge; 4½ feet, 18 gauge; 5 feet, 17 gauge; 5½ feet and over, 16 gauge.

-engthfeet	31/2	4	41/2	5	51/2	9	61/2	2	71/2	80
ussian Patterneach	\$2.30	\$2.65	\$3.00	\$3.30	\$3.65	\$4.00	\$4.35	\$4.70	\$5.10	\$5.50

Above saws made with round holes in each end for Common Ears. NOTE—Prices of Russian Pattern Saws include ears but not handles. For complete specifications of above Cross Cut Saws, see page 175.

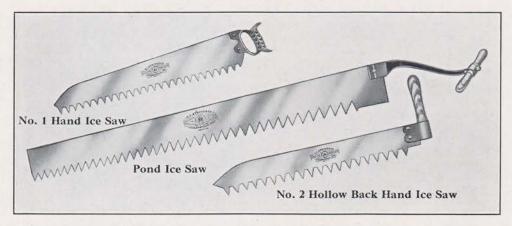


TABULATIONS OF APPROXIMATE WEIGHTS, DIMENSIONS AND GAUGES OF ATKINS CROSS CUT SAWS

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No.	KIND OF SAW	Weight per Saw, Lbs.	Tooth	Ends at Back	Center at Back	Width at Ends	Width at Center	Weight per Saw, Lbs.	Tooth Edge	Ends at Back	Center at Back	Width at Ends	Width at Center	Weight per Saw, Lbs.	Tooth Edge	Ends at Back	Center at Back	Width at Ends	Width
1	SILVER STEEL	43/	15	16	20	31/6	6%	51/4	15	16	20	31/8	63/8	7	14	16	20	31/8	7
2	SILVER STEEL Rex. Rex. Peerless Perfection. Perfection. Hemlock King Rex Falling Dexter, 14x16 Dexter, 14x18 Diamond, 14x16 Diamond, 14x18 Tasmanian	434	15	16 16	20 20	31/8 31/8 31/4	63/8 63/8 53/4	51/4 51/4 5 51/2 51/2	15 15	16 16	20 20	318	63%	7 7 6	14 14	16 16	20 20	31/4	6
3	Perfection	414	15 15	16	20	3 34	534	5	15	16	20	344	534 534	6	14	16	20 20	314	6
5	Perfection	5	15	16	20	31/8 31/4	63/8	51/2	15	16	20 20	100	0 9%	7	14	16 16	20	3 1/8	754477777
6	Hemlock King	41/2	14 14	16 16	20 17	314	416	416	14 14	16 16	17	316	5½ 4½	516	14 14	16	20 20 17	31/4	4
12	Perfection Falling	4	14	16	17	314	41/2	43/4	14	16	17	31/4 31/4 31/4 31/4	$\frac{41}{61}$	514	14	16	17	344	4
18	Dexter, 14x16	5	15	16	16 18	314	534 638 512 412 614 614	6	15 15	16 16	16 18	314	612	71/2	14 14	16 16	16 18	31/2	5
19	Dexter, 14x18	436	15 15	16 16	19	31/4 31/4 31/4 31/4	0.4	53/4 53/2	15	16	19	314 314	$\frac{6\frac{1}{2}}{6\frac{1}{2}}$	7	14	16	19	3½ 3½ 3½ 3½	1
20 21	Diamond, 14x16	5	15	16	16	314	614	6	15	16	16	344	01/2	71/2	14	16	16 18	3/2	1
22 41	Tasmanian	4%	15 15	16 16	18 17	314	614	51%	15 15	16 16	18 17	314	61/6	51/4 71/4 71/4 71/4 71/4 71/4	14	16 16	17	31/2	Color.
42	S. S. Jarrah	43/4	15	16	18	21/4	61/4	51/4	15	16	18	214	61/2	71/4	14	16	18	3½ 2½ 3¾ 3¾	3
72	M. B. Tuttle, N. P	414	15 15	16 16	18	21/4 31/2 31/2	512	5	15 15	16 16	18 18	3 %	534	634	14 14	16 16	18 18	33/4	18
42 72 73 76	M. B. Dexter	41/2	15	16	18	31/2	614 614 614 512 512 512 512	51/4	15	16	18	35%	534	63/4	14	16	18	3 2/4	666
77	M. B. Tuttle, N. P. M. B. Tuttle, Perf. M. B. Dexter M. B. Lance, N. P. M. B. Lance, Perf. Tasmanian F. G.	41/4	15 15	16 16	18 18	3.46	51/2	5 1/2 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	15 15	16 16	18 18	314 314 214 358 358 358 358 358	61/2 61/2 61/2 53/4 53/4 53/4 53/4	634	14 14	16 16	18 18	3¾ 3¾ 3½ 3¼	6
78 11	Tasmanian F. G	43/4	15	16	18	3½ 3¼	5½ 6¼ 5¾ 6¾	51/4	15	16	18	31/4	6½ 5¾	634 714 614	14	16	18	31/2	17
18		41/2	15	16	20 20	3 1/4	534	5	15 15	16 16	20 20	3 1/4	534	61/4	14	16 16	20 20	31/4 31/8	6
40		5 71/4	15 14	16 16	19	31/8	634	8	14	16	19	31/8	63/8	7 834	14	19	16	4	1
50		41/2	14	16	19	316	514	514	14	16	19	31/8	51/2	6	14	16 16	19 20	31%	
51		5 434	15 15	16 16	20 20	31/8	63%	51/2	15 15	16 16	20	3 1/8	63%	7	14 14	16	20	3 1/8 3 1/8 3 1/8	3
52 53		414	14	16	19	31/8 31/8 31/8	634 514 638 638 514	5	14	16	19	31/8 31/8 31/8 31/8	51/2 63/8 63/8 51/2	6 7 7 534	14	16	19	31/8	
	Pacific Coast Patterns 7', 7½', 8'	101/4	13	15	17	43/8	255 256	111/2	13	15	17	10000000000		1234	13	15	17	416	1
51 52	7', 716', 8'	0	12	15	17	31/	534	9	13	15	17	4½ 3¼ 4½ 4½ 3¾	7½ 5¾ 7	934	13	15	17	4½ 3¼ 4% 4%	Tana .
64	Redwood King, 7', 71/2', 8'.	101/2	11 10	14	16	41/2	7	12 15	11 10	14 13	16	41/2	7	13 18	11 10	14	16 15	416	1
65	Redwood King, 7, 172, 6 Redwood Falling, 8', 10', 12	71/2	12	13 15	15 17	4½ 3 %	6	81/2	12	15	15 17	334	61/4	91/0	12	15	17	41/8	1 6
68	Redwood King, 7', 7½', 8'. Redwood King, 7', 7½', 8 Redwood Falling, 8', 10', 12 Eureka, 7', 7½', 8' Eureka Falling 7', 7½', 8	12	12 12	15	17	43/8 31/4	71/4	15	12 12	-15 15	17	41/2	71/2	1.26	12 12	15 15	17 17	4 1/8 4 1/2 3 1/4	1
69	Eureka Faming 1, 172, 8	414	14	15 16	17	3 1/8	71/4 53/4 7 6 71/4 53/8 51/4	8½ 5	14	16	19	41/2 31/4 31/8	61/4 71/2 53/4 51/2	9½ 5¾	14	16	19	31/8	
	SPECIAL STEEL	-	1.4	10	2.00	-0.00	7	2000	14	16	17	-28	- 3753	7	14	16	17	35%	1
*8	SPECIAL STEEL Auckland Dexter, 14x16 Dexter, 14x18 Dexter, 14x19 Diamond, 14x16 Diamond, 14x16 Lone Star Diamond Lone Star Dexter Victor Lance Tooth Tasmanian Jarrah	5	14	16 16	17 16	3 1/4	614	5½ 6	15	16	16	3 5/8 3 1/4 3 1/4	766666556666555555	71/2		16	16	31/2	1
219	Dexter, 14x18	5 434	15	16	18	31/	614	534	15	16	18	31/4	61/2	734	14	16	18 19	31/2	
220	Dexter, 14x19	4½ 5	1 15	16 16	19 16	31/4	614	51/2	15 15	16	19 16	314	61/2	71/4 71/4 71/4 71/4 71/4 51/4 71/4 71/4 71/4 71/4 71/4 71/4 71/4	14	16 16	16	31/2 31/2 31/2 31/2	1
221	Diamond, 14x18	43/4 33/4 31/2	15	16	18	31/4	61/4	53/4	15	16	18	314	61/2	71/4	14	16	18	352	
223 224	Lone Star Diamond	3%4	14 14	16 16	18 18	3	5	4½ 4¼	14 14	16 16	18	3	516	51/2	14 14	16 16	18 18	3	
224	Victor	434	15	16	18	4	6	534 51/2	15	16	18	4	614	734	14	16	18	4	1
227	Lance Tooth	434	15 15	16	18	314	614 614 614	5½ 6¼	15 15	16 16	18	314	61/2	71/	14 14	16 16	18 17	31/2	
241	Jarrah	5 434	15	16 16	18	214	614	514	15	16	18	214	61/2	714	14	16	18	21/4 21/4 33/4	10.5
272	M. B. Tuttle, N. P	414	15	16	18	31/4 21/4 21/4 31/2 31/2	53.40	5 5 5 4 5	15	16	18	31/4 21/4 21/4 35/8 35/8 35/8 35/8 35/8	534	634	14 14	16 16	18	334	000
273 276	M. B. Tuttle, Perl	41/4	15 15	16 16	18 18	31/2	5½ 5½ 5½ 5½	51/4	15 15	16 16	18 18	35%	584	634 7 634	14	16	18	334 334 334 334 314	1
277	M. B. Lance, N. P	41/4	15	16	18	3½ 3½	51/2	5	15	16	18	35/8	534	634	14	16	18	334	1
278 330	M. B. Lance, Perf	4 434	15 15	16 16	18 16	31/2	51/2	5	15 15	16 16	18 16	3 %	534 614	634 71/2 71/4	14 14	16	18 16	314	1
331	Tuttle, 14x18	41/2	15	16	18	3	534	5½ 5¼	15	16	18	31/4 31/4	614	734	14	16	18	3/4	1
332	Tuttle, 14x19	434	15	16	19 16	3	534	51/4 61/4	15 15	16 16	19 16	3.34	614 614 614	6	14 14	16 16	19 16	31/4	
333	American, 14x16	43/4 41/2	15 15	16 16	18	3	534	6	15	16	18	314 314 314 314	614	81/4	14	16	18	31/4	1
335	Hickory	5	15	16	16	3	534	6	15	16	16	314		81/4	14	16	16	314	1
336	Common 14v16	43/4 5	15 15	16 16	18 16	3	534	5¾ 6	15 15	16 16	18 16	314	01/4	8 7	14 14	16 16	18 16	31/4	1
338	Common, 14x18	43/4	15	16	18	3	534	53/4	15	16	18	314	614	7 634	14	16	18	31/4	1
361	Lance Tooth, N. P	51/4 51/2	14	16	17	4	6	6 61/4	14 14	16 16	17	4	6	8	13	15 15	17	414	1
363	Tasmanian	434	14 15	16 16	18	21/4	61/4	51/4	15	16	18	21/4	6½ 6¾	81/4 71/4 8	14	16	18	21/4 33/4	
†	Tasmanian Jarrah M. B. Tuttle, N. P M. B. Tuttle, Perf M. B. Dexter M. B. Dexter M. B. Lance, N. P M. B. Lance, Perf Tuttle, 14x18 Tuttle, 14x18 Tuttle, 14x18 American, 14x16 American, 14x16 Common, 14x18 Common, 14x18 Lance Tooth, N. P. Tuttle Tooth, Dia. Point Tasmanian Russian Pattern	6	17	ŧ	1	21/4 33/4	$\frac{614}{612}$	51/4 7	16	1	1	3%4	634	8	16	1	‡	33/4	1
251	Pacific Coast Patterns 7', 71/2', 8'	101/4	13	15	17	43/8	714	111/4	13	15	17	416	73/6	1234	13	15	17	41/6	
252	7' 716' 8'	8	13	15	17	314	7½ 5¾	9	13	15	17	4½ 3¼	7½ 5¾	934	13	15	17	314	1

Note—SILVER STEEL Cross Cut Saws packed 25 in case. *Packed 25 in a case. †Packed 50 in a case. ‡Even Gauge. **Pacific Coast patterns, other lengths in proportion to saws listed.

ATKINS ICE SAWS



The frequent filing and sharpening of ice saws is unnecessary with Atkins Special Steel. The quality is so fine that they take an extremely hard, tough temper and their sharp cutting edges will, therefore, be retained for the longest possible time.

Pond ice saws are made in lengths from 3 to 6 feet and vary in gauge so that they can be operated in all thicknesses of ice. The teeth are sharpened, set and ready for use.

Atkins Tiller Handles are used with the above saws. These are made of malleable iron and can be securely fastened to the blade, but easily removed. The cross handle is of hardwood, shaped to fit the hands.

Atkins Hand Ice Saws are made in lengths from 24 to 36 inches. The blades are of high-grade special steel. The teeth are sharpened and set ready for use. The handle is large and roomy, made of malleable iron, tinned, and is practically unbreakable. Fastened to the blade with rivets.

Atkins Hollow Back Hand Ice Saws are made of high-grade crucible steel. The blades are somewhat narrower than the hand saws. Made in lengths from 24 to 36 inches. The teeth are sharpened and set ready for use. The handle is fitted to steel tab, which is riveted to saw.

Atkins Hollow Back and Hand Ice Saws are for wagon or store use, being set and sharpened.

ATKINS POND ICE SAWS WITHOUT TILLER

STANDARD LENGTH, 5 FEET

Width,	Inches	Thickness			Pi	исе, Елсн			C. c.
Butt	Point	Gauge	3 Feet	3½ Feet	4 Feet	4½ Feet	5 Feet	5½ Feet	6 Feet
8	6	10	\$4.60	\$5.40	\$6.20	\$6.90	\$7.65	\$8.45	\$9.20
8	6	11	4.35	4.95	5.80	6.55	7.15	7.95	8.75
7	5	10	4.15	4.85	5.45	6.00	6.90	7.60	8.20
7	5	11	3.45	4.50	5.20	5.90	6.55	7.25	7.75

Packed 25 saws in a case. Weight-4½ ft. length, 11 gauge, 9 pounds.

No. 2 ATKINS HOLLOW BACK HAND ICE SAWS

Lengthinches	24	26	28	30	32	34	36
Priceper dozen	\$16.05	\$17.65	\$19.15		\$22.25	\$23.75	\$25.35
Weightpounds per dozen	27	30	33	36	39	42	45
Packed 25 saws in a case.							

No. 1 ATKINS HAND ICE SAWS

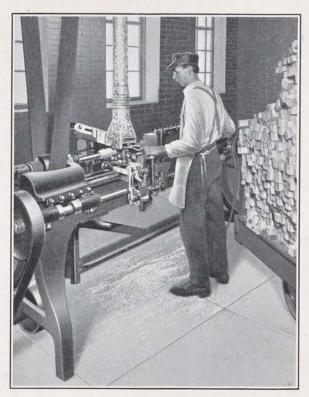
Lengthinches		26	28			34	36
Priceper dozen	\$33.20	\$34.95	\$36.70	\$38.50	\$40.25	\$42.00	\$43.75
Weightpounds per dozen	18	191/2	21	$22\frac{1}{2}$	24	251/2	27
Ice saws with beech handles sam	e price as	above.	Packed or	ne-half do	ozen in pa	ckage.	

TILLERS

Price	each \$2.30
Weight, per dozen	pounds 31/4
176	



ATKINS CROSS CUT SAW HANDLES



Every cross cut saw handle shown on the following pages is made in our own factory by experienced workmen, under our personal supervision, and we claim that the quality and finish can not be surpassed.

In all steel parts, we use a special high tensile strength cold drawn steel. This is very strong and tough, but light, thus giving the greatest strength with least weight.

All malleable parts are cast from carefully selected material and are exceedingly smooth and tough, which insures the greatest wear.

We are exclusive users of the Spot Electric Welded Process in the treatment of all steel loops. This gives the user a decided advantage, as the parts become as strong as if one solid piece and the weld cannot be broken.

Particular attention is given to the manner in which all threads are cut. The high quality of the metal parts enables us to use extra heavy dies, thus producing a thread which does not easily become worn or torn and on which the bolts, loop ends and turnbuckles will operate freely and withstand the most severe twists and strains.

We use nothing but carefully selected, thoroughly dried and seasoned hardwood stock. This is cut into proper specifications and manufactured throughout by use of the most improved appliances. Each operation is carefully inspected, to the end that only perfect handles are passed. Handles are sanded, waxed and polished and marked with hot die embossing.

They are packed in light and strong wire-bound boxes, which reduces the shipping weight to the minimum.

In the pages following you will find a wide range of handles, at various prices. Those shown cover original ideas as well as the old designs.

We invite you to make a careful comparison of Atkins Cross Cut Saw Handles with other brands so that you can see the superior quality of our product.

ATKINS CROSS CUT SAW HANDLES

No. 1

10 inches long irrespective of loops. Selected air-dried hardwood. Extra heavy spot electric welded steel loop, three welds. Malleable nuts. Castings black japanned. Capacity 3 to 4½ inches. Packed 50 pairs in wire-bound box weighing 108 pounds.

Price per pair \$0.70

No. 24

This Handle is especially adapted for the Pacific Coast trade. Fourteen inches in length, of thoroughly seasoned hardwood, nicely finished. Malleable Machine Made Bolt — carefully threaded—heavy Wing Nut. All other Metal Parts of Malleable Iron, japanned black. The Post and Guard are reversible for sawing either standing or felled timber. Packed 50 pairs in a box weighing 160 pounds.

Price.....per pair \$1.10

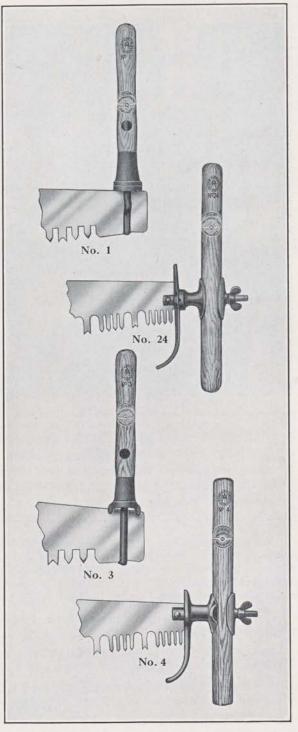
No. 3

10 inches long irrespective of loops. Malleable casting and swivel washer cast to socket. Spot electric welded loop of high tensile strength, cold drawn steel. Capacity 3 to 4½ inches. Japanned black. Packed 50 pairs in wire-bound box weighing 92 pounds.

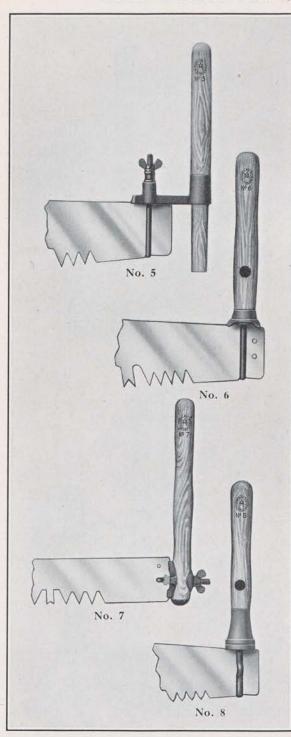
No. 4

This is the most popular pattern of Cross Cut Handle used on the Pacific Coast. Fourteen inches in length, of thoroughly seasoned hardwood.

Machine Made Steel Bolt—carefully threaded. Extra heavy malleable Wing Nut. All Metal Parts of Malleable Iron, japanned red. Reversible for use in either felled or standing timber. The deep thread and heavy Wing Nut facilitate removing or reversing the Handle. Packed 50 pairs in a wire-bound box weighing 170 pounds.



ATKINS CROSS CUT SAW HANDLES



No. 5

14 inches long. Used extensively on Pacific coast. Extra strong malleable bracket. Spot electric welded loop of high tensile strength, cold drawn steel. Castings japanned black. Capacity 3 to 41/4 inches. Packed 50 pairs in wire-bound box weighing 115 pounds.

Price.....per pair \$0.75

No. 6

10 inches long irrespective of Similar to No. 3 but loops. lighter castings. Steel loop spot electric welded. Capacity 3 to 41/4 inches. Specially selected air-dried hardwood stock. Packed 150 pairs in wire-bound box weighing 185 pounds.

Price per pair \$0.55

No. 7

14 inches long. Reversible. Best grade hardwood stock. Malleable bolt. Cast steel face plate and washers. Our exclusive pattern. Packed 100 pairs in wire-bound box weighing 140

Price.....per pair \$0.50

No. 8

10 inches long irrespective of Loop of extra strong high tensile strength steel. Spot electric welded. Japanned black. Malleable nuts. Packed 100 pairs in wire-bound box weighing 200 pounds.

Price per pair \$0.65

No. 8 SHORT PATTERN

Same as regular No. 8 only 7½ inches long. Packed 50 pairs in wire-bound box weighing 94 pounds.

ATKINS CROSS CUT SAW HANDLES

No. 9

No. 10

9½ inches long irrespective of loops. Selected hardwood stock. Cast steel socket and washer. Loop of high tensile strength, cold drawn steel. Spot electric welded. Packed 150 pairs in wooden box weighing 175 pounds.

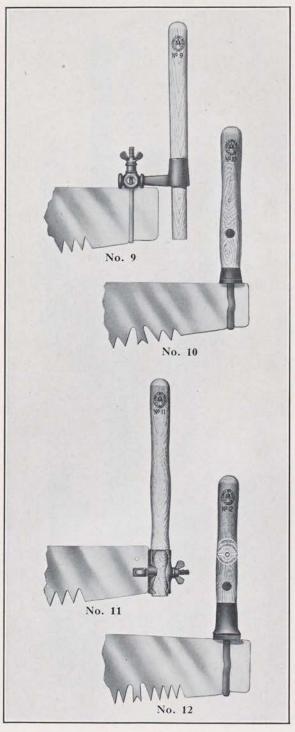
No. 11

14 inches long. Climax pattern. Reversible. Cast iron face plate and washer. High-grade malleable bolt with lock rivet feature, preventing rivet from becoming detached. Easily adjusted. Packed 100 pairs in wirebound box weighing 170 pounds. Price......per pair \$0.45

No. 12

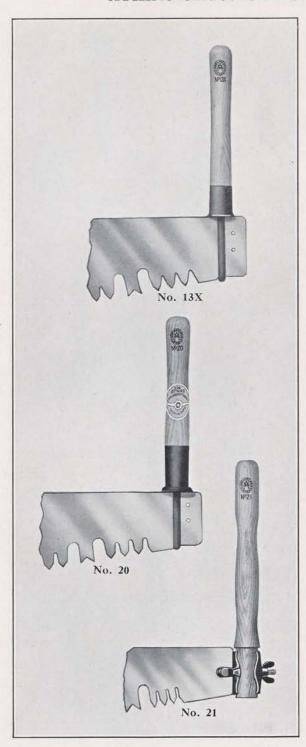
10 inches long irrespective of loops. High grade. Contains exclusive features. Non-breakable malleable socket, washer and nut. Spot electric welded steel loop. Selected clear white hardwood stock. Japanned red. Capacity 3 to 4½ inches. 50 pairs in wire-bound box weighing 98 pounds.

Price.....per pair \$0.75





ATKINS CROSS CUT SAW HANDLES



No. 13X

10 inches long irrespective of Malleable socket, case hardened face bearing on saw. Very light and strong. Loop of high tensile strength cold drawn steel. Spot electric welded. Japanned black. Capacity 3 to 4 inches. Packed 50 pairs in wirebound box weighing 70 pounds.

Price.....per pair \$0.60

No. 20

9 inches long irrespective of loops. Very strong and light. Socket of highest grade ferrule steel with patented swivel feature. Easily adjusted. Spot electric welded steel bolt. Japanned Capacity $2\frac{1}{2}$ to $3\frac{1}{2}$ black. inches. 50 pairs in wire-bound box weighing 75 pounds.

Price..... per pair \$0.65

No. 21

14 inches long. Climax Pat-Similar to No. 11 but tern. Reversible. lighter castings. Cast steel clasp and washer. Malleable bolt with lock rivet feature prevents rivet from becoming detached. 100 pairs in wire-bound box weighing 150 pounds.

Price..... per pair \$0.45

ATKINS CROSS CUT SAW HANDLES

No. 22

14 inches long. We recommend this pattern highly. Extra strong. Easily adjusted. Extra heavy malleable castings. Machine-made steel bolt, extra large "Big Bolt" Pattern. Extra large wings prevent castings from slipping. Japanned black. Packed 50 pairs in wire-bound box weighing 85 pounds.

Price.....per pair \$0.75

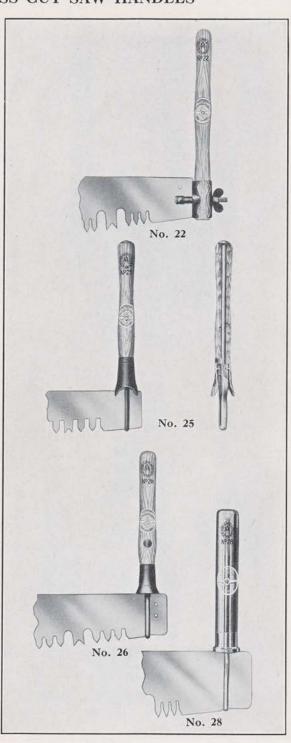
No. 25

12 inches long irrespective of loops. Reinforced by heavy machine steel bolt running through the entire center. Socket washer and loop extra high-grade malleable. Long ears prevent blade from slipping. Japanned red, loop black. Capacity 3 to 4½ inches. Packed 50 pairs in wirebound box weighing 135 pounds.

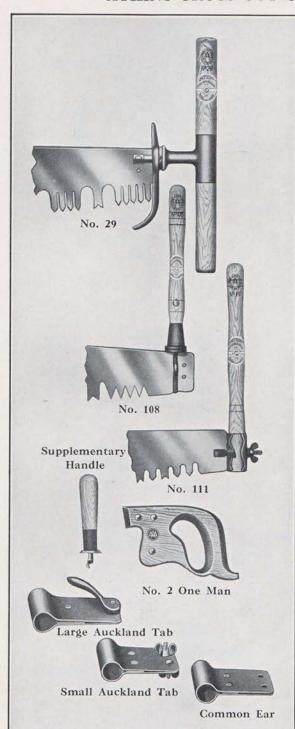
No. 26

Price per pair \$1.20

No. 28



ATKINS CROSS CUT SAW HANDLES



No. 29

14 inches long. New Pacific Coast pattern. Turned machine steel bolt, fastens to blade by rivet, opposite end screws into malleable socket. Saw fas-tened by revolving handle. Operated at horizontal or vertical position. Hardwood, finely finished. Packed 50 pairs in wire-bound box weighing 200 pounds. Price per pair \$1.65

No. 108

12½ inches long irrespective of loops. A strictly fancy handle. Best selected white hardwood stock. Fancy scoring. Extra heavy spot electric welded steel loop. Malleable castings. Japanned black. Packed 50 pairs in wire-bound box weighing 115 pounds.

Price per pair \$0.70

No. 111

151/4 inches long. High class in every particular. Specially selected white, air-seasoned hardwood. Fancy scoring. Malleable bolt and wing nut, tinned. Electric spot welded steel bolt. Castings japanned black. Packed 50 pairs in wire-bound box weighing 95 pounds.

Price per pair \$0.65

ONE-MAN, No. 2

This is made of carefully selected hardwood, thoroughly seasoned and dried. Varnished edge, well finished. Easy Grip pattern. Price does not include screws. Packed one dozen to a

Weight.....per dozen, 6¾ pounds Price.....per dozen \$4.05

SUPPLEMENTARY FOR ONE-MAN SAWS

Made of thoroughly seasoned airdried hardwood stock. Socket and washer of high-grade ferrule steel. Malleable iron bolt with locked rivet feature, preventing rivet from becoming detached. Packed one dozen to a car-

Weight.....per dozen, 3½ pounds Price.....per dozen \$3.55

TABS

FOR CROSS CUT SAWS

Large Auckland Tabs . . . per pair \$0.95 Small Auckland Tabs...per pair .35 Common ears.....per pair Handles for common ears, per pair .09

ATKINS PERFECTION SAW TOOLS

This set supplies a complete outfit of everything needed for properly refitting cross cut saws.

The combination tool shown at the top of this page may be used as a jointer, side file or for gauging the length of the raker teeth. These various operations are shown in the accompanying cuts.

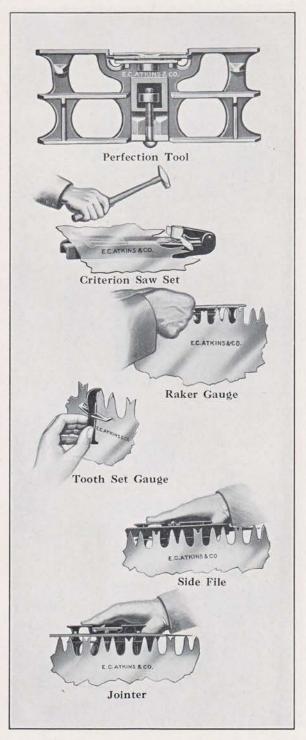
The tool includes a tooth gauge whereby the proper set of the teeth may be measured and either a broad or narrow set given.

An Atkins Criterion Saw Set is also included. This is one of the most improved tools for setting the teeth. It has a die which rests on the top of the tooth. The hammer blow comes in contact with this die instead of the tooth itself. This imparts a more even set and removes the liability of breakage. You can adjust this tool so as to secure any degree of set by raising or lowering the set screw on the opposite end.

A finely finished setting hammer completes the outfit. This hammer is made of refined cast steel, highly polished, and is fitted to a hardwood handle with a special attachment which prevents the hammer from working loose.

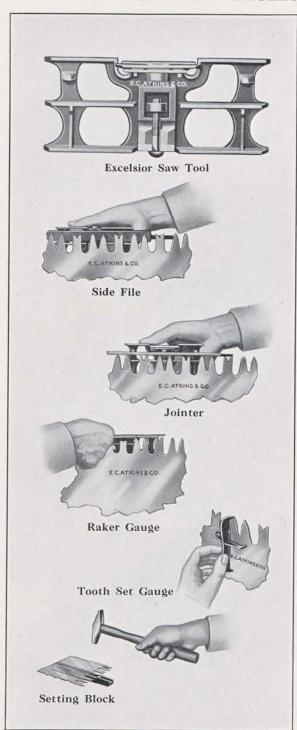
Each set put up in an individual box, accompanied by full instructions for using each of the tools. Packed in any quantity ordered.

Price..... per dozen sets \$28.60 Weight, pounds..... per set $2\frac{1}{2}$





ATKINS PATENT EXCELSIOR SAW TOOLS



No. 1

This is the old and original Excelsior Saw Tool. It is the first and most successful device ever invented for properly refitting cross cut saws. The complete set and the uses for which it is designed are fully shown in the accompanying illustrations.

The combined tool is shown at the top of the page. It is used as a jointer, as a raker gauge, and also as a side file.

An eight-inch flat file is fastened in the tool as shown in cut. The set screw slightly bends the file, giving it the proper curve. After jointing, the tool may be used for gauging proper length of raker teeth, after which, by readjusting the file, it can be used for side filing. See accompanying illustration.

A tooth set gauge is also included. This is made with long and short end, which by reversing, indicates a correspondingly light or heavy set, as desired.

The Atkins Improved Channeling Set Block completes the outfit. This block fastens to any flat surface, and the anvil, having a slight declivity, produces a concave on one side of the teeth thus insuring a more durable set and relieving the friction on the side of the teeth.

They are put up one complete set in an individual box, nicely labeled for shelf display. Full directions for operating accompany each set. Packed in any quantity ordered.

No. 2

Atkins Patent Excelsior Saw Tool, No. 2. This set is exactly similar to Excelsior No. 1, excepting that it is equipped with the ordinary setting block instead of the Improved Pattern used with No. 1.

No. 6

This tool is made for refitting One-Man Saws. It is similar to the Excelsior No. 2, excepting that the combination tool is a trifle smaller.

Weights, Nos. 1 and 2, lbs. per doz. 19

Weight, No. 6, pounds per dozen

ATKINS EXCELSIOR SAW TOOLS

ATKINS EXCELSIOR SAW TOOL, No. 5

This set consists of a special combination tool, which is so constructed that it may be used for either side filing, jointing or in gauging the proper height of the rakers.

It is similarly constructed to the regular Excelsior No. 1, as shown on page 185, excepting that it has an EXTRA HARD TOOL STEEL BAR which prevents the saw from wearing a groove on the under side of the bar when used as a raker gauge.

This feature more than trebles the life of this simple tool and makes it the most economical set.

Through the use of a set screw, a flat file may be fastened into the tool, enabling the user to operate it as a side file. This is shown in the accompanying illustration.

The same file may then be fastened to the device at another point and used as a jointer. This feature is illustrated in the accompanying picture.

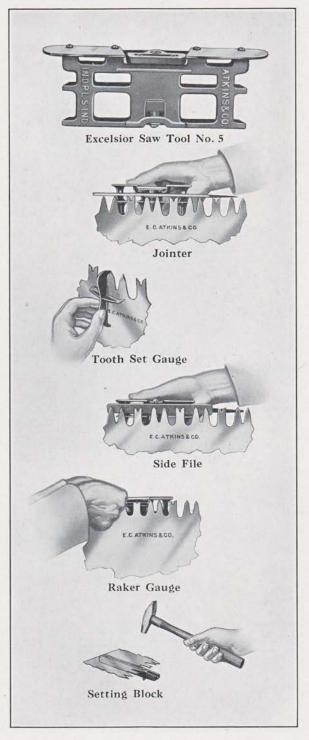
There is also a tooth gauge, one point of which being slightly longer than the other enables the user to gauge either a heavy or light set.

A set block is included. It consists of a tool which may be readily attached to any flat surface. At one end, there is an anyil arrangement which is slightly beveled. The hammer blow being directed at that point, the proper set is given, uniformly and without the likelihood of breaking teeth.

Atkins Excelsior Tool, No. 5, is adapted to any style of saw tooth.

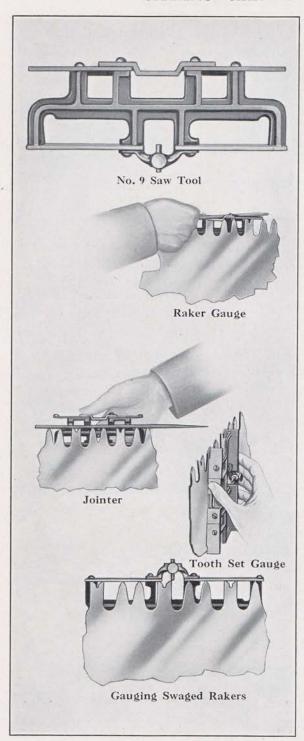
They are put up one complete set in a box, with an attractive label, and each box contains full instructions for operating. Packed in any quantity ordered.

Priceper dozen	\$14.90
Weight, poundseach	$1\frac{9}{16}$





ATKINS "AAA" SAW TOOLS



ATKINS No. 9 SAW TOOL

Atkins "AAA" Saw Tool No. 9 is a decided improvement over any other similar tool used for fitting cross cut saws.

It is 7 inches long by 13/8 inches wide and made of good substantial material throughout.

The Raker Gauge Plate is tempered file proof. The ends are beveled so that the depth of the gauge may be regulated by the use of the two screws.

For jointing, fasten a flat file by set screw, as shown in upper illustration, and pass same lightly over the points of the teeth until filed to a uniform height.

For jointing the rakers, place the tool over the raker teeth (see illustration). Turn thumb screws until the rakers protrude the desired distance through the gauge, then file them off to a level with top of gauge. This will render all raker teeth exactly the same length.

For gauging the rakers, reverse the tool and set gauge pin and tighten by use of thumb screw, then pass the tool along toothed edge, thus measuring the proper length for each raker. This will be indicated when the point of the raker tooth touches the gauge pin.

tooth touches the gauge pin.

The Bearing Plates of this tool are
the only parts touching the teeth points
and are made of smooth, hard, tool steel.

The extra length of the tool causes

The extra length of the tool causes it to cover more teeth at the same time and thus insures greater accuracy in operation.

Note the little cut-out on each end of the top bar of tool. This is to gauge the set of the cutting teeth and does away with the necessity of carrying an extra tooth gauge. The shallow gauge is for set of teeth in hard wood and the deep gauge is for set of teeth in soft wood.

Put up, one only in a handsome shelf box. Packed in any quantity ordered.

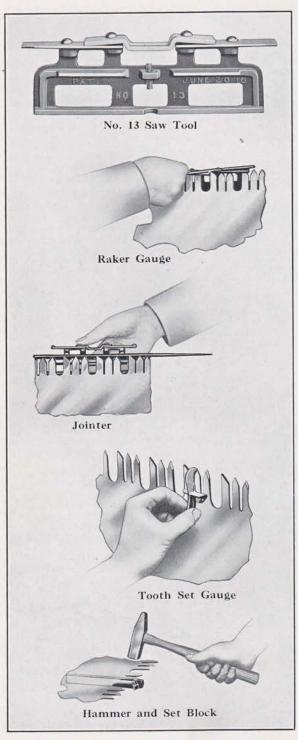
Price.....per dozen \$14.90 Weight.....ounces 11

ATKINS No. 13 SAW TOOL

This tool is similar to the No. 9 except that it is much smaller and is not furnished with Swaged Tooth Gauge.

Pricepe	er dozen	\$12.60
Weight		7

ATKINS "AAA" SAW TOOLS



ATKINS DRAG SAW TOOL SET No. 14

This set of tools for drag saws is made up of the parts of our No. 13 Saw Tool, a tooth set gauge, a 1½-pound hammer and setting block. Illustration shows the No. 13.

The Raker Gauge Plate is tempered file proof. The ends are beveled so that the depth of the gauge may be regulated by the use of two screws.

The Bearing Plates of this tool are the only parts touching the teeth points and are made of smooth, hard, tool steel.

This tool can also be used for a Raker Gauge and Jointer as shown in illustration.

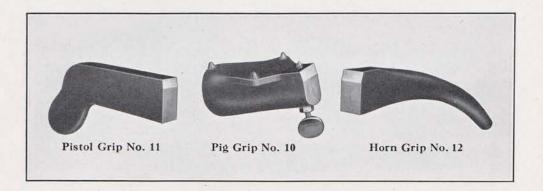
A drop-forged 1½-pound setting hammer makes a very good hammer for setting drag saws. Hardwood handle.

A tooth set gauge is also included. This is made with a long and short end, which, by reversing, indicates a correspondingly light or heavy set.

Packed one set to a box.

Price.....per dozen sets \$44.50 Weight, pounds...... per dozen sets 22

ATKINS HAMMER SAW SETS



We recommend the three styles of Cross Cut Saw Sets shown above.

These sets are all operated by fastening the saw in a vise, with the teeth upward. The set is held in the left hand, the flat surface bearing against the saw tooth with the point of the tooth just above the bevel on the set.

Place the right arm over the top of the saw. Strike the tooth a sharp blow with a hammer over the apex of the angle on the face of the set block.

These Grips are made of hard iron, and the working surfaces are chilled extra hard. This type of set is also used occasionally and successfully in setting small circular saws or other types of saws where the teeth are sufficiently large and the gauge thin enough to take a set well.

ATKINS PISTOL GRIP SAW SET, No. 11

 $5\frac{1}{2}$ inches long, $\frac{5}{8}$ inch thick, $1\frac{1}{2}$ inches wide. Grip rounded and shaped to fit the hand. Packed one-half dozen in a box. Weight each, 27 ounces.

ATKINS PIG GRIP SAW SET, No. 10

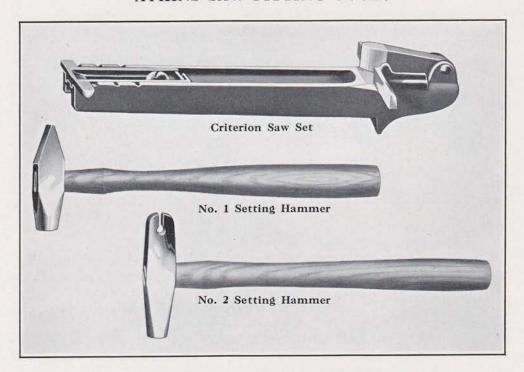
 $4\frac{1}{2}$ inches long, $1\frac{1}{2}$ inches thick. Fitted with a gauge, the length of which is regulated by a thumb screw and lock nut. The exact degree of set may thus be measured. Packed one in a box. Weight each, 2 pounds.

Price per dozen \$15.55

ATKINS HORN GRIP SAW SET, No. 12

 $6\frac{1}{4}$ inches long, $\frac{7}{8}$ inch thick, anvil $1\frac{1}{2}$ inches. Very easy on the hand. Packed one-half dozen in a box. Weight, 20 ounces.

ATKINS SAW FITTING TOOLS



ATKINS CRITERION SAW SET

Atkins Criterion Saw Set is used in setting all kinds of cross cut, hand, wood and other small saws. We recommend the use of a hammer set in preference to a lever set, not only on account of the ability to secure more uniform results, but because there is less likelihood of breaking the teeth in this operation.

The Criterion Set has a die which rests on the tooth. This die is struck by the hammer instead of

the blow coming in contact with the tooth itself.

A set screw on the opposite end makes the tool adjustable so that by raising or lowering, any desired degree of set may be secured. The pointed die makes the device adaptable to any size of tooth.

The Criterion Saw Set is made of the best refined malleable iron, lacquered a rich brown to prevent

rusting. The die and anvil are drop forged from the very finest tool steel and are properly hardened and tempered to give excellent service. Packed one-half dozen in a box.

Priceper dozen	\$15.55
Weight, per dozen	141/4

ATKINS SETTING HAMMERS

We show on this page two styles of setting hammers. These are made of a specially treated cast steel, nicely finished and of just the proper weight for the purpose.

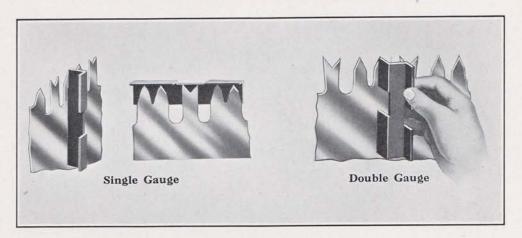
The handles are made of a good quality seasoned hardwood, and are fastened to the head by a

special wedge arrangement which makes them not liable to become loose.

No. 1 is made with a solid peen. No. 2 is slotted so that it may be used for setting purposes when desired. No. 3 is made of a special grade of tool steel, drop forged and strictly high grade, slotted same as No. 2. Packed one dozen in a box.

Number	1	2	3
Price	\$8.75	\$8.75	\$13.95
Weight, per dozenpounds		8	8

ATKINS SAW FITTING TOOLS



ATKINS TOOTH AND RAKER GAUGE

This very handy little tool is used for measuring and regulating the length of the raker teeth as compared with the cutting teeth. It also enables the operator to produce a perfect, uniform set in the teeth.

It is made in two styles. The single gauge regulates the length of the raker teeth and the double gauge combines a gauge for regulating the set, and is for use in both hard and soft wood.

The raker teeth of all cross cut saws should be somewhat shorter than the cutting teeth and of uniform length throughout. The flange of this gauge rests on the points of the cutting teeth, thus permitting the raker to project through the opening in the center. The edge of the gauge is tempered very hard and cannot be cut with the file. When the file comes in contact with the gauge, the proper length of the rakers is secured.

The gauge is moved from tooth to tooth and each point rapidly and correctly reduced to an even length.

Used also for gauging the set of the teeth as is shown in the illustration on this page. The ends of the gauge are differently bevelled and a heavy or light set may thus be secured by simply reversing the gauge. Packed one dozen in a box.

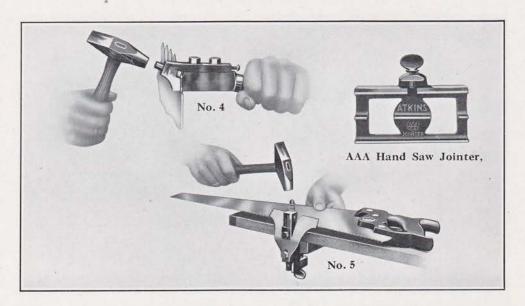
Price, single gauge per dozen Price, double gauge per dozen	\$1.50 2.05
Weight, single gauge, per dozen	$2\tfrac{3}{16}$
Weight, double gauge, per dozen	

ATKINS CHANNELING SET BLOCK

This is the set block that is used in connection with Excelsior No. 1 Saw Tool.

Price, regular quality chilled ironper dozen	\$7.05
Price old style	1.05
Price, set gauges as used in Excelsior Saw Toolsper dozen	1.05
Weight, per dozen pounds	71/4

ATKINS AAA SAW SETS



ATKINS AAA SAW SET, No. 4

FOR CROSS CUT SAWS

The action of this device is clearly shown in the above illustration. The hammer blow reaching the tooth through the plunger prevents the likelihood of breaking the saw teeth. The amount of set may be regulated by moving the top slide. Absolute uniformity is assured as well as maximum speed. Given the amount of bevel and the slide may be instantly set to proper position. By simply placing the tool over the point of the tooth, and striking the plunger one blow, a perfectly uniform set, located properly on the tooth, is secured.

Made of fine crucible steel, nicely finished. Weight 2 pounds. Packed one-half dozen in a box.

Price \$31.35

ATKINS AAA SAW SET, No. 5

FOR HAND SAWS

The above device operates on the same principle as the No. 4, the amount of set being regulated by moving the guide on the front, up or down. Its advantages are obvious, and it not only prevents the breaking of the saw teeth, but assures an absolutely uniform set, avoiding the possibility of setting the teeth too far down on the blade. After setting each alternate tooth, the saw is reversed, thus enabling the operator to complete the process without changing the position of the tool.

Weight $1\frac{1}{2}$ pounds. Packed one-half dozen in a box.

Price......per dozen \$31.35

ATKINS AAA HAND SAW JOINTER

Atk ins "AAA" Hard Saw Jointer is operated by placing a flat file in the jointer, which is held in place by the thumb screw. The file is then passed lightly along the top of the Saw Teeth until it touches each tooth. The teeth are then filed to a point, thus securing teeth of the same length and shape. An essential Saw Tool.

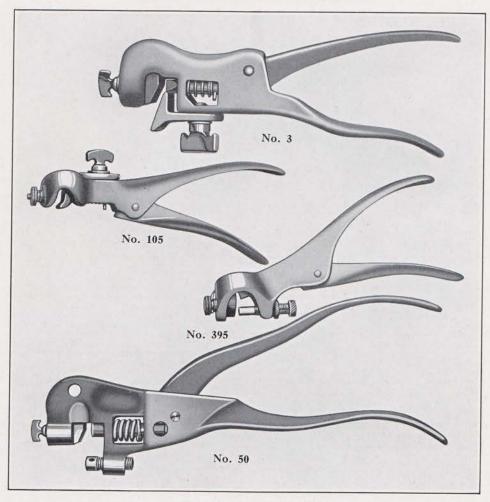
Priceper d	ozen	\$2.45
Weight, per dozenpo	ounds	31/2

ATKINS SILVER



STEEL SAWS

ATKINS LEVER SAW SETS



ATKINS Nos. 3 AND 104

These sets are specially designed for cross cut and circular saws. They will successfully set any tooth from 14 to 20 gauge. The depth of the set is regulated by a thumb screw and pressure is applied by merely clamping together. Anvil and plunger of hardened steel. The spring is of highly tempered steel. Finely finished and polished throughout. No. 3 for cross cut and circular saws, single tooth. No. 104 for cross cuts, American, Common and Tuttle Tooth. The No. 104 is the same style as No. 3.

ATKINS No. 105

For Hand and Small Saws. The lever is placed on the lower or under side where it is operated by merely moving the fingers, thus adding great rapidity with least effort. The anvil and plunger are hardened. The spring is of tempered steel. Heavily nickel-plated and buffed to a high finish.

ATKINS No. 395

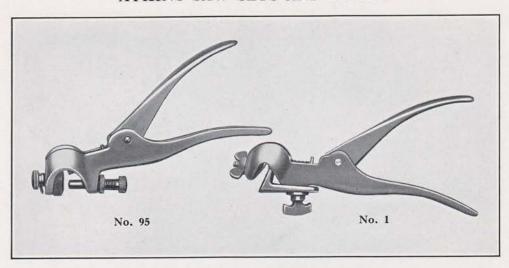
No. 395 revolving anvil with indicator dial. Lever placed below the body of set. Gauge screw has check nut, which prevents it from coming loose. The revolving anvil gives the required bevel and length of all saw teeth from 4 to 16 to the inch. Hardened anvil and plunger. Finely tempered steel spring. Highly polished.

ATKINS No. 50

For heavier saws from 6 to 14 gauge. Strong, accurate and durable. For hard usage.

Dozen			Price	Dozen	Case	Weight	Price
Nos. 3 and 104 No. 50	1/2			No. 105 No. 395	12 12	81/2	\$18.70 22.05

ATKINS SAW SETS AND FILERS



ATKINS LEVER SAW SETS

No. 95. For setting crosscut, rip and other similar styles of teeth. Atkins No. 95 Lever Set is one of our popular patterns. Revolving anvil and dial. It is very easily adjusted. The revolving eccentric anvil has the required bevel and length for all saw teeth, ranging from 4 to 16 to the inch.

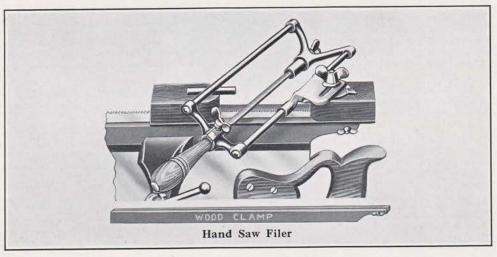
If it is desired to set a saw with six teeth to the inch, for instance, the indicator knob on the end of the set should be turned until the pointer is at the figure six, thus securing an exact set. Hardened anvil and plunger. Finely tempered steel spring. Heavily nickeled and buffed with a high finish. Packed six in a box

No. 1. For hand, band and jig saws, from the widest, down to one-half inch. The principle under which this set operates is apparent by referring to the accompanying illustration. A very simple construction, yet most effective. Hardened anvil and plunger. Highly tempered steel spring. Finely polished. Our No. 0 is same pattern as No. 1, except lighter. Packed six in a box.

Dozen	Box	Case	Weight	Price
No. 95	1/2	12	9	\$22.05
No. 1	1/2	12	81/2	10.60
No. 0	1/2	12	434	9.35

ATKINS HAND SAW FILERS. This saw filing device is the most perfect tool for the purpose ever produced. By following the directions accompanying each filer the most inexperienced boy can file a saw correctly, bringing each tooth to the same bevel and pitch. It can be used with wood clamp in any ordinary vise or with iron saw clamp. A favorite with carpenters. Packed one in a box.

Priceper dozer	\$36.70
Weight, each pounds	334





ATKINS "PERFECT" SAW SET

This device is so constructed that a uniform blow can be given to each tooth, thus assuring an accurate set without likelihood of breaking the teeth or points.

The thumb screw in the center of the set fastens same to the bench.

To regulate the amount of set, the screw which supports the blade is moved up or down. This changes the angle at which the tooth is presented to the setting hammer.

There is a guide in the center of the tool which must be adjusted in order to secure the proper set on both fine and coarse teeth. The exact pitch desired may be secured by moving this guide either forward or backward. The tooth should rest on the apex of the setting block, two-thirds distant from the point of the tooth.

This tool is also made with a vise attachment as shown in the accompanying illustration. It may thus be used for jointing and filing. The jaws of the vise are lined with rubber to prevent vibration. The combination set fastens to the bench by a thumb

Made of steel, malleable and gray iron castings. All wearing parts are reinforced. Simple, strong, durable and easily operated.

"PERFECT" SAW SET AND VISE COMBINED

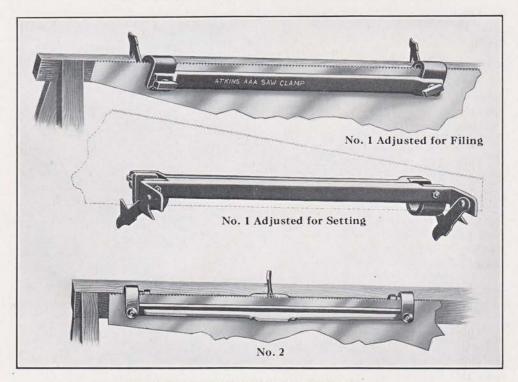
Price each	\$9.45
Weight, each pounds	8 9 16

"PERFECT" SAW SET

Priceeach	\$5.45
Weight each pounds	



ATKINS "AAA" HAND SAW CLAMPS



ATKINS "AAA" SAW CLAMP, No. 1

Atkins "AAA" Saw Clamps weigh unpacked but little over one pound each and occupy about the same space as an ordinary chisel. They can be used for jointing, setting and filing. May be instantly attached to or detached from any square edge surface. The clamp is seated close to the work, thus preventing vibration. Their extreme simplicity and the ease with which they may be operated is appreciated by the best mechanics everywhere. They are a favorite wherever used.

By referring to the accompanying illustration, you will note that the saw is placed in the clamp at the toothed edge for filing. The connecting arches are reversed for jointing and setting. For this purpose, the blade is clamped at the back,

which renders all teeth accessible.

The first illustration shows the clamp in use for filing and the second, for jointing and setting purposes. Note that the clamp does not have to be detached for these various operations after being fastened into place. Packed ¼ dozen in a box.

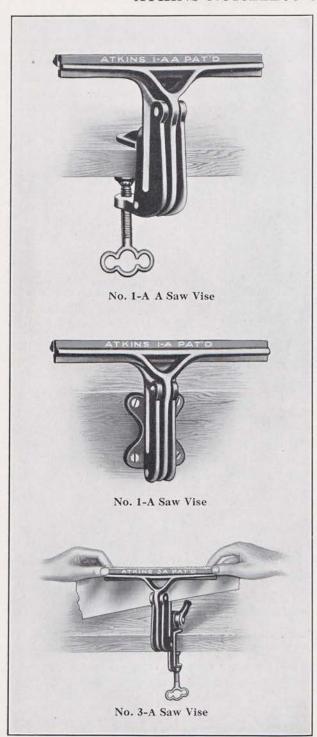
ATKINS "AAA" SAW CLAMP, No. 2

This clamp differs from No. 1 in that the saw is fastened by an eccentric roller running between the two connecting arches instead of thumb screws. It is attached by use of either a single wood screw or a loose lug which is driven into place at the center. One of "The Finest on Earth." Packed ½ dozen in a box.

Price, No. 1, japan finish per Price, No. 1, nickel finish per	dozen	\$26.80
Price, No. 1, nickel finish per	dozen	28.25
Price, No. 2, nickel finishper	dozen	29.80
Weight per dozen	nounds	20



ATKINS NOISELESS SAW VISES



Atkins Noiseless Saw Vises are made in four different patterns. While they vary in certain particulars, they are all designed to accomplish the same purpose.

The principal advantages lie in their easy adjustment, strong construction and satisfactory service. A slight pressure upon the outer jaw clamps the saw firmly into place. The vise operates on the lock lever principle, so that there is no chance of overstraining, as in the case where the screw is used.

The jaws of these vises are lined with rubber which makes them practically noiseless. The vise, setting as it does, close to the bench, does not vibrate, but is rigid. All wearing parts are reinforced. Made of the best malleable iron and finely finished throughout.

No. 1-AA

This vise has an 11-inch jaw. It is fastened to the bench by a malleable iron screw clamp and may be readily detached and carried from place to place.

No. 1-A

Similar to the 1-AA, excepting that it is fastened to the bench by the use of four wood screws, which may be easily removed for attachment wherever desired. It has an 11-inch jaw.

No. 2-A

Made with a 15-inch jaw, otherwise similar to No. 1-A.

No. 3-A

Length of jaws, 11 inches.

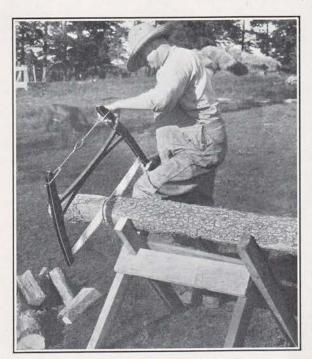
Fastened into place by use of a malleable iron screw clamp and may be readily attached to or detached from any bench, table or board.

The jaws are adjusted by the use of a lever which permits the vise to be tilted to any desired angle.

To clamp the saw into place, grasp the toothed edge with both hands, place the teeth at the desired height above the face of the jaws and clamp into position with the thumbs without removing hands.

Price, No. 1-AAper dozen	\$21.20
Price, No. 1-A per dozen	17.65
Price, No. 2-A per dozen	28.25
Price, No. 3-Aper dozen	19,25
Weight, No. 1-AA, each pounds	53/4
Weight, No. 1-A, each . pounds	51/4
Weight, No. 2-A, each pounds	81/4
Weight, No. 3-A, each, pounds	61/2

ATKINS WOOD SAWS



FRAMES

Made of carefully selected material, thoroughly seasoned; designed to produce the maximum of strength and rigidity; accurately and smoothly machined; beautifully finished in colors or the natural wood and highly varnished to resist moisture. Each piece is inspected after every process.

BLADES

Made of Atkins Silver Steel, Special Steel and Cast Steel; straight or breasted on the tooth edge and in various widths. In addition to the Standard Plain and Tuttle tooth, we make several Special patterns of our own exclusive design. Accurately

ground and polished and finished bright, blued or straw color. Set and filed ready for use.

RODS

High-Grade Frames are equipped with our Special "Jumbo" Rods-extra heavy and waterproofed. Regular Frames have the well-known "Clipper" pattern. All Rods have malleable turnbuckles, black japanned, with full screw-thread guaranteed not to strip.

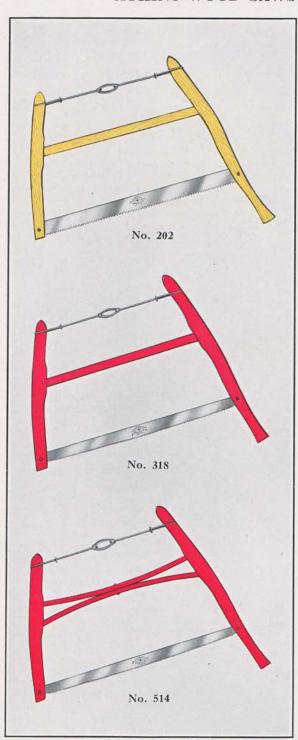
COMBINATIONS

The illustrations show the most popular combinations, but if other combinations are desired, the prices can be ascertained by adding the prices of the frames, blades and rods. The numbers of Wood Saws Complete are obtained by combining the Frame number with the Blade number—thus: Frame No. 500 with Blade No. 8 is No. 508 Wood Saw Complete.

PACKAGES

Wood Saws Complete are packed unassembled one-half dozen (or one dozen if preferred), in a wooden box, including Frames, Blades, Rods and Rivets. Frames only or Frames and Rods only packed in the same manner when so ordered. Frames in bulk (wood parts only), packed in half-gross crates if so desired.

ATKINS WOOD SAWS COMPLETE



No. 202

Combination of

No. 200 Frame

Hardwood, single brace, natural finish. A good serviceable outfit.

No. 2 Blade Clipper Rod

Number 202 Price, doz \$30.20			
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No. 318

Combination of

No. 300 Frame

Hardwood, single brace, painted red and varnished. A popular combination.

No. 18 Blade Clipper Rod

Number	302	318	393	313
Price, doz.				

No. 514

Combination of

No. 500 Frame

Selected hardwood, double brace, single riveted, frame nicely enameled red.

No. 14 Blade Jumbo Rod

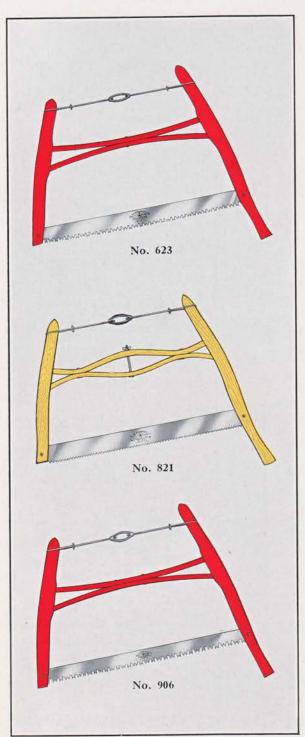
No. 500N, same as No. 500. Natural finish, varnished and nicely finished.

Number Price, doz			514 33.70	
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If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

 ${\bf Complete\ Blades\ Specifications\ See}$ Page 202.

ATKINS WOOD SAWS COMPLETE



No. 623 Combination of No. 600 Frame

Selected high grade hardwood, double brace, single riveted, enameled red.

No. 23 Blade Clipper Rod

No. 600N, same as No. 600. Natural finish, varnished all over.

Number Price, doz	602	618	623	642
Price, doz	\$31.70	32.30	34.30	33.10

No. 821 Combination of

No. 800 Frame

Patent "Cantilever" pattern, selected hardwood. Straight grain, natural finish, varnished all over.

No. 21 Blade Jumbo Rod

Number 8	09 817	821	823
Price, doz \$36	5.60 32.85	38.00	35.12

No. 906 Combination of

No. 900 Frame

Selected hardwood, straight grain, double riveted, frame enameled red.

No. 6 Blade Jumbo Rod

No. 900N. (Natural finish.)

No. 900B. (Blue.) No. 900W. (Walnut.)

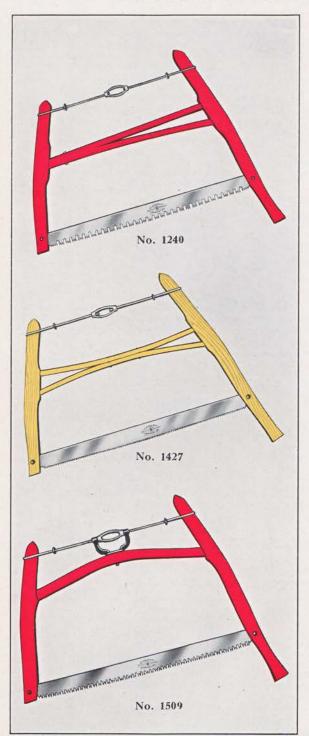
No. 900M. (Mahogany.)

Number	906	$\frac{909}{35.85}$	911	923
Price, doz	\$35.20		36.05	35.65

If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

 $\begin{array}{c} {\rm Complete\ Blades\ Specifications\ See} \\ {\rm Page\ 202.} \end{array}$

ATKINS WOOD SAWS COMPLETE



No. 1240

Combination of

No. 1200 Frame

"V" brace pattern, frame selected hardwood, straight grain, enameled red.

No. 40 Blade Jumbo Rod

Number	1204	1217	1221	1240
Price, doz	\$33.60	32.05	37.20	31.10

No. 1427

Combination of

No. 1400 Frame

Second growth hickory, straight grain, double riveted, natural finish. Varnished. Very high grade.

No. 27 Blade Jumbo Rod

Number	1408	1811	1423	1727
Price, doz	\$36.20	40.60	37.10	37.05

No. 1509

Combination of

No. 1500 Frame

Special high arm (patented) for extra large sticks. Selected hardwood. Straight grain. Red enameled frame.

No. 9 Blade Jumbo Rod

	 	 Lancas and the same
Number Price, doz		

No. 1500 Frame also made in 32, 36, 40, 42 and 48-inch lengths.

No. 1600

Same pattern as No. 1500. Made from Selected Hickory, Straight Grain, and finished either a Malachite Green or Natural. Varnished all over.

Price same as No. 1500 plus \$2.20 per dozen.

If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

Complete Blades Specifications See Page 202.



ATKINS WOOD SAWS

WOOD SAW FRAMES

No.	Descriptoin	Price Per Doz.	No.	Description	Price Per Doz.
finish, ur 300—Hard varnished 500—Select single riv 600—Select single riv 800—Canti wood, st varnishee	wood, single brace, natural nvarnished	\$ 9.60 10.50 11.45 9.20	double ri 1200—"V" wood, str 1400—Seco grain, do varnished 1500—Spec hardwood 1600—Same hickory, s	ted hardwood, straight grain, veted, enameled red	\$11.80 11.80 14.35 14.80

Note—Wood saw parts ordered separate will be packed in bulk.

RODS FOR WOOD SAW FRAMES

22-inch Clipper Rods, plain	ss \$	\$37.45
94 inch Clippor Rode plain	30	00.10
22-inch Clipper Rods, rustproof	SS	41.10
24 inch Clippor Rode ruetproof	33	12.00
99 inch Iumbo Rode rustproof	33	01.00
24-inch Jumbo Rods, rustproof	SS	52.15

ATKINS WOOD SAW BLADES

ATKINS SILVER STEEL—EXTRA THIN BACK—EXTRA POLISH—SPECIAL HAND FILED

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
21	Plain	Straight	$2\frac{3}{8}$ $2\frac{3}{8}$ $1\frac{3}{4}$	Straw	\$29.35
11	Tuttle	Breasted		Straw	29.90
6	Tuttle	Straight		Straw	29.85

ATKINS SILVER STEEL—SPECIAL THIN BACK—FINE POLISH—HAND FILED

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
1 8 4 9	Plain Plain Tuttle Tuttle Plain	Straight Breasted Straight Breasted Breasted	$2\frac{3}{8}$ $2\frac{3}{8}$ $2\frac{3}{8}$ $2\frac{3}{8}$ $2\frac{3}{8}$ $1\frac{3}{4}$	Bright Bright Bright Bright Blued	\$27.50 25.60 27.95 27.95 25.15

SHEFFIELD SAW WORKS-SPECIAL STEEL THIN BACK

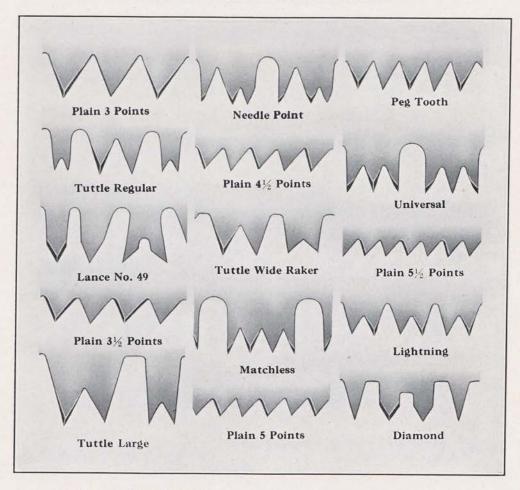
Number	Style of Tooth	Shape	Width Inches	Finish	List per Doze 30-inch
26 17 23 18 36	Plain Plain Tuttle Plain Plain	Straight Breasted Breasted Breasted Straight	$2\frac{1}{4}$ $2\frac{1}{4}$ $2\frac{1}{4}$ $1\frac{3}{4}$ $1\frac{1}{4}$	Bright Bright Bright Blued Blued	\$24.20 24.20 26.45 24.05 22.80

CAST STEEL

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
2	Plain	Straight	2	Bright	\$23.00
31	Plain	Breasted	2	Bright	23.00
42	Tuttle	Straight	2	Bright	24.40
43	Tuttle	Breasted	2	Bright	24.40
45	Plain	Breasted	2	Blued	23.20
38	Plain	Straight	1 ³ / ₄	Blued	22.55

For illustrations of above, see pages 203 and 204. Extra long length blades made on special orders. Prices on application.

ATKINS WOOD SAW BLADES



STYLES OF TEETH USED IN ATKINS WOOD SAW BLADES

CUTS SHOW ACTUAL SIZE OF TEETH

For lightning, coarse tuttle or 3-point common tooth, add to price of plain tooth of same specifications, per dozen, \$1.75.

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
40	Universal	Straight	1½	Bright	\$29.85
16	Needle-Point	Breasted	23/8	Bright	28.90
24	Matchless	Breasted	23/8	Bright	28.90
25	Lightning	Straight	23/8	Bright	28.90
27	Peg	Breasted	21/4	Bright	26.45
37	Large Tuttle	Straight	21/4	Bright	26.45
49	Lance	Breasted	21/4	Bright	27.95
*51	Plain	Straight	1	Bright	32 in. 27.55
*54	Tuttle	Straight	1	Bright	32 in. 29.05

Note—Blades 32 inches, advance respective lists \$1.10 per dozen. *Pulpwood blades made in 32, 36, 42 and 48-inch lengths. See illustrations foot of page 204.



ATKINS WOOD SAWS

WOOD SAW FRAMES

No.	Descriptoin	Price Per Doz.	No.	Description	Price Per Doz
finish, un 300—Hardy varnished 500—Select single rive 600—Select single riv 800—Cantil wood, str	vood, single brace, natural varnished	\$ 9.60 10.50 11.45 9.20	double r 1200—"V" wood, st 1400—Sec grain, o varnishe 1500—Spe hardwoo 1600—San hickory,	cted hardwood, straight grain, riveted, enameled red	\$11.80 11.80

Note—Wood saw parts ordered separate will be packed in bulk.

RODS FOR WOOD SAW FRAMES

22-inch Clipper Rods, plain per gross	\$37.45
24-inch Clipper Rods, plain per gross	38.75
22-inch Clipper Rods, rustproof per gross	41.10
24-inch Clipper Rods, rustproofper gross	42.05
22-inch Jumbo Rods, rustproof per gross	51.05
24-inch Jumbo Rods, rustproof	52.15

ATKINS WOOD SAW BLADES

ATKINS SILVER STEEL—EXTRA THIN BACK—EXTRA POLISH—SPECIAL HAND FILED

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
21	Plain	Straight	23/8	Straw	\$29.35 29.90
6	Tuttle Tuttle	Breasted Straight	$\frac{2\frac{3}{8}}{2\frac{3}{8}}$ $1\frac{3}{4}$	Straw Straw	29.85

ATKINS SILVER STEEL-SPECIAL THIN BACK-FINE POLISH-HAND FILED

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
1	Plain	Straight	23/8 23/8 23/8 23/8 23/8	Bright	\$27.50
8	Plain	Breasted	23/8	Bright	25.60
4	Tuttle	Straight	$2\frac{3}{8}$	Bright	27.95
9	Tuttle	Breasted	23/8	Bright	27.95
14	Plain	Breasted	13/4	Blued	25.15

SHEFFIELD SAW WORKS-SPECIAL STEEL THIN BACK

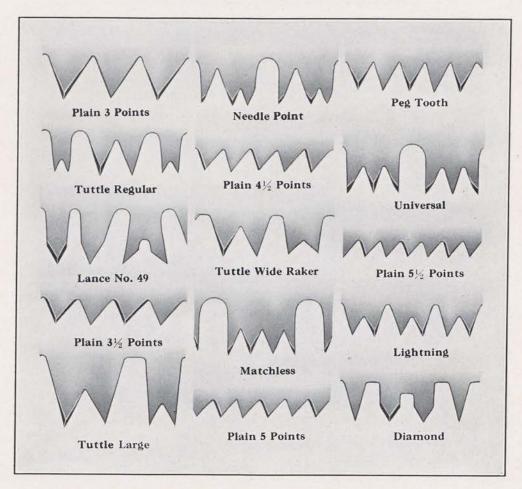
Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
26	Plain	Straight	21/4 21/4 21/4 13/4	Bright	\$24.20
17	Plain	Breasted	21/4	Bright	24.20
23	Tuttle	Breasted	21/4	Bright	26.45
18	Plain	Breasted	13/4	Blued	24.05
36	Plain	Straight	11/4	Blued	22.80

CAST STEEL

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozei 30-inch
9	Plain	Straight	2	Bright	\$23.00
31	Plain	Breasted	2	Bright	23.00
42	Tuttle	Straight	2	Bright	24.40
43	Tuttle	Breasted	2	Bright	24.40
45	Plain	Breasted	13/4	Blued	23.20
38	Plain	Straight	11/4	Blued	22.55

For illustrations of above, see pages 203 and 204. Extra long length blades made on special orders. Prices on application.

ATKINS WOOD SAW BLADES



STYLES OF TEETH USED IN ATKINS WOOD SAW BLADES

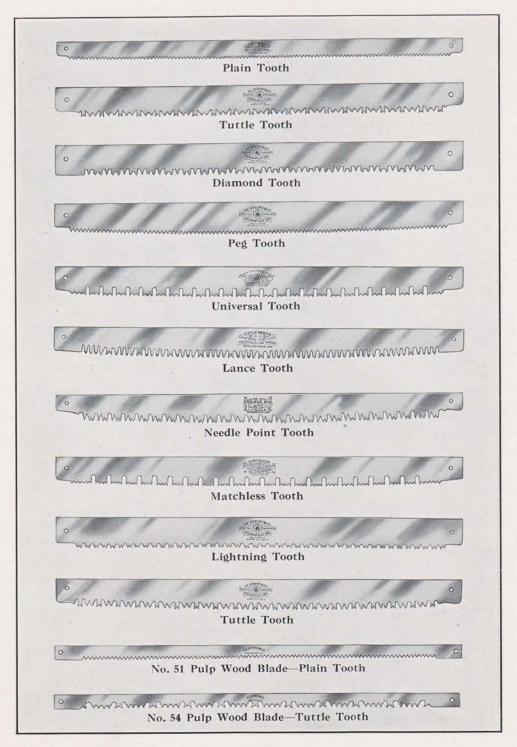
CUTS SHOW ACTUAL SIZE OF TEETH

For lightning, coarse tuttle or 3-point common tooth, add to price of plain tooth of same specifications, per dozen, \$1.75.

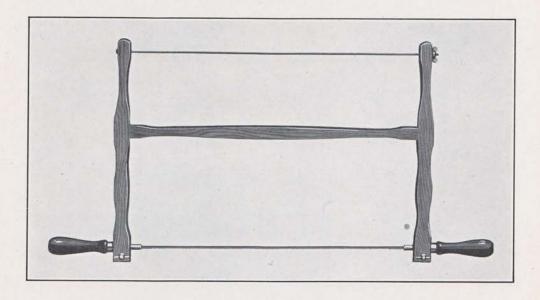
Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozer 30-inch
40	Universal	Straight	11/2	Bright	\$29.85
16	Needle-Point	Breasted	23%	Bright	28.90
24	Matchless	Breasted	$2\frac{37}{8}$ $2\frac{37}{8}$	Bright	28.90
25	Lightning	Straight	23/8	Bright	28.90
27	Peg	Breasted	21/4	Bright	26.45
37	Large Tuttle	Straight	21/4	Bright	26.45
49	Lance	Breasted	21/4	Bright	27.95
*51	Plain	Straight	1	Bright	32 in. 27.55
*54	Tuttle	Straight	1	Bright	32 in. 29.05

Note—Blades 32 inches, advance respective lists \$1.10 per dozen. *Pulpwood blades made in 32, 36, 42 and 48-inch lengths. See illustrations foot of page 204.

ATKINS CELEBRATED WOOD SAW BLADES



ATKINS "AAA" WEB SAW FRAME



A finely finished, high-grade frame, equipped with Silver Steel blade.

Made of selected hardwood stock, two coats of varnish, natural color. Arms 143/4 inches long by 7/8 inch thick, rounded and shaped.

Rod $\frac{3}{16}$ inch thick, with thumb nut for tension.

4-inch hardwood handle, finished red. A steel socket 1½ inches by 3/8 inch, slit $\frac{1}{2}$ inch by $\frac{1}{16}$ inch to receive blade, is driven into handle and fastened with a set pin. Steel ferrule, nickel plated.

Takes regularly punched Turning Web Blades, from 12 to 24 inches by $\frac{3}{16}$ inch. Blade may be turned to cut at any angle.

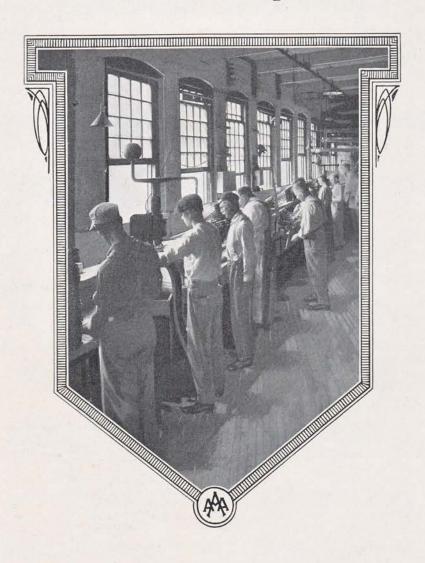
Packed one only in a pasteboard box, knocked down.

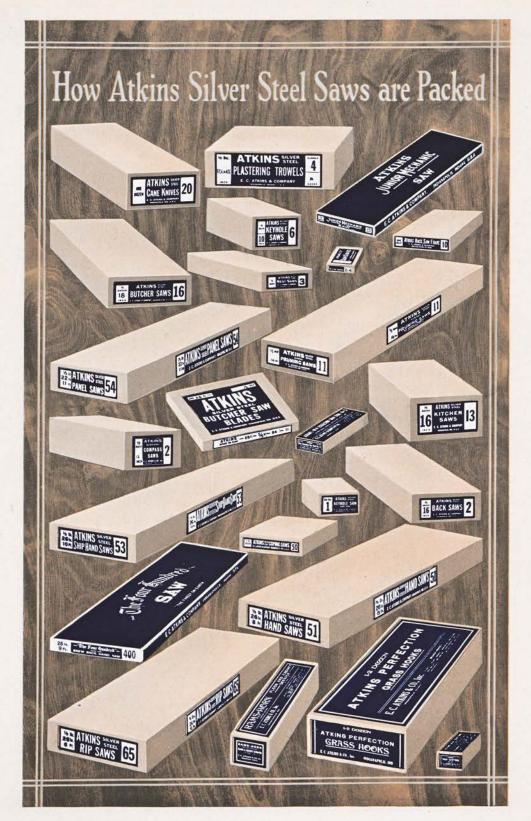
Length of Blade	Length Over All	Price, per Dozen Complete	Price, Blades Only per Dozen	Weight Pounds per Dozen
12	15	\$18.25	\$2.35	10
14	17	19.00	2.60	11
18	21	19.85	3.25	12
20	23	20.60	3.75	13
22	25	21.50	4.10	14
24	27	22.35	4.60	15

These frames will take a wider blade if desired. Above prices based on blades $\frac{3}{16}$ inch wide.

ATKINS HAND SAWS

Saw Tools and Specialties





ATKINS HAND, RIP AND PANEL SAWS

Atkins Silver Steel Hand, Rip and Panel Saws are original in design, distinctive in character and of scientific construction throughout.

Silver Steel, our exclusive formula, is the finest material that has ever been used in making saws.

The heat treatment is prescribed in the laboratory after careful analysis. We use gas in our tempering furnaces. This insures an even heat treatment. Through the use of patented machinery, the exact temperature specified by the laboratory is supplied which results in a certain and uniform hardness and toughness.

TAPER GRINDING

Atkins Silver Steel Saws are taper ground—that is, the tooth edge being the same gauge throughout and the remainder of the blade tapering evenly from the point to the butt and from the tooth edge to back. See illustration.

The picture shows the gauges or thicknesses of a typical Silver Steel Hand Saw. In studying it remember that the lower the number, the thicker the steel.

Note, also, that the cutting edge is the same thickness while the back tapers gradually from handle to point.



This grinding, exclusive with Silver Steel Saws, in connection with our method of cutting and setting the teeth insures Silver Steel Saws against binding or buckling.

SMITHING

All Silver Steel Saws are smithed by hand. This is a most important process, not apparent to the layman in the finished saw. It removes any unevenness which may have been produced in the tempering processes and insures a saw which will cut true to the line.

THE HANDLE

We make, with some slight variation, two styles of handles; the old style straight across shape and the Atkins Improved Perfection Pattern. Our Perfection Handle is individual and distinctively Atkins.



Nos. 50, 51, 52, 54, 64, 72, 82 and 93 are made with the old style straight across handle. Nos. 53, 65 and 400 are made with the Perfection Handle.

It will be seen that we can, therefore, furnish the genuine Silver Steel Blade, Taper Ground and with all the other distinctive and exclusive Atkins features, with the old style straight across handle, if preferred. We recommend, however, the Perfection Pattern for the reason that it is easier to operate.

If you will notice the illustration to the left and will follow the straight line in this picture, you will see that every ounce of power is primarily directed upon the cutting edge by using the Perfection Style Handle. But with the old style handle (shown by dotted line) the greatest force is applied upon the back of the saw, thus wasting the user's energy unnecessarily.

HOW PACKED

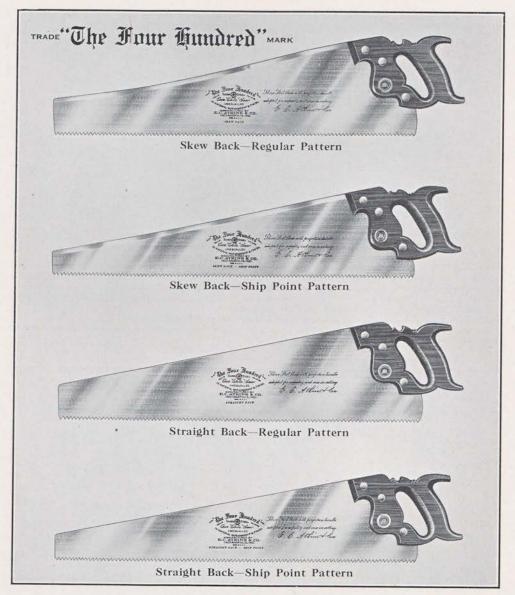
All Atkins Silver Steel Hand, Rip and Panel Saws are packed in standard packages of one-third dozen to box, each saw in individual moisture-proof bag and then placed in cardboard boxes. This renders them less liable to damage and insures a handsome uniform shelf package.

The Atkins label is blue and white and is easily distinguishable at a distance on account of its original and attractive appearance.

All Atkins Silver Steel Saws bear the signature "E. C. Atkins & Co." together with our "AAA" trade-mark, which is plainly etched on the blade. None others are genuine, nor are Atkins Silver Steel Saws ever sold under any other brand than Silver Steel, consequently they are important points to remember when ordering.

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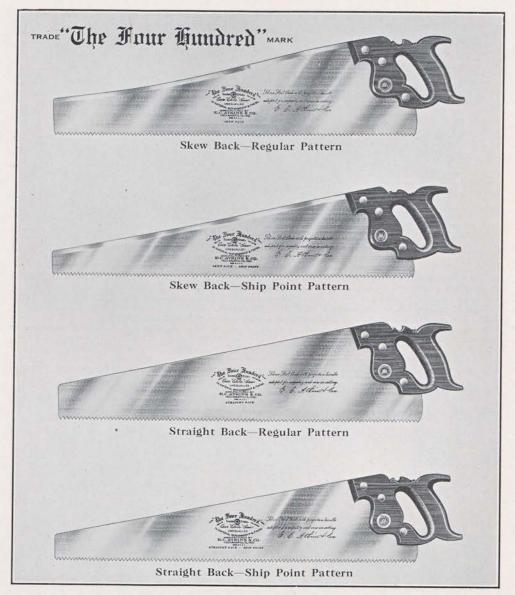
ATKINS HAND, RIP AND PANEL SAWS



This is our best saw. Master Carpenters and Builders prefer "The Four Hundred" because it is a saw extraordinary in quality and workmanship. The blade is of Genuine Silver Steel, and is given a perfect temper, which insures long wearing qualities to the sharp cutting teeth. It is made in Regular Pattern Skew Back; Ship Point Skew Back; Regular Pattern Straight Back; Ship Point Straight Back, as illustrated above. The Ship Point Saws are made in 26-inch lengths only. Ground full tapering four gauges and will, therefore, operate free and easy with very little set. Mirror Polish. The handle is of Rosewood, piano finish, Improved Perfection Pattern, which eliminates wrist strain; fastened to saw with three nickel-plated screws and medallion. No other saw maker is offering or manufacturing saws of the high quality of "The Four Hundred," and truly it is as our slogan implies, "The Finest on Earth."

			-		
Length inches	20	22	24	26	28
Price per flozen	859.50	863.55	\$68.10	872.65	\$83.20

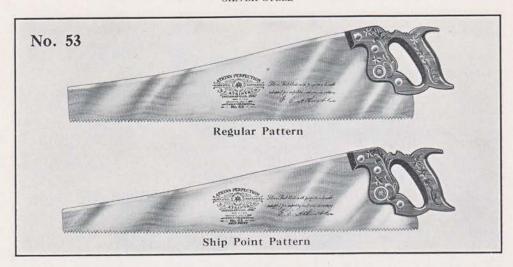
ATKINS HAND, RIP AND PANEL SAWS



This is our best saw. Master Carpenters and Builders prefer "The Four Hundred" because it is a saw extraordinary in quality and workmanship. The blade is of Genuine Silver Steel, and is given a perfect temper, which insures long wearing qualities to the sharp cutting teeth. It is made in Regular Pattern Skew Back; Ship Point Skew Back; Regular Pattern Straight Back; Ship Point Straight Back, as illustrated above. The Ship Point Saws are made in 26-inch lengths only. Ground full tapering four gauges and will, therefore, operate free and easy with very little set. Mirror Polish. The handle is of Rosewood, piano finish, Improved Perfection Pattern, which eliminates wrist strain; fastened to saw with three nickel-plated screws and medallion. No other saw maker is offering or manufacturing saws of the high quality of "The Four Hundred," and truly it is as our slogan implies, "The Finest on Earth."

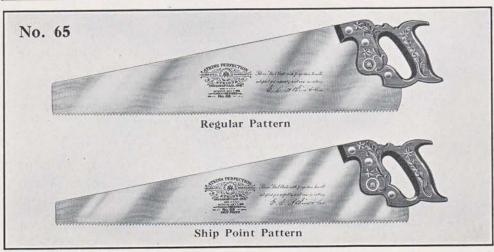
Lengthinches	20	22	24	26	28
Price per flozen	859.50	\$63.55	868 10	879.65	\$83.20

ATKINS HAND, RIP AND PANEL SAWS



This saw appeals to high-class mechanics for general carpentry work and is the most popular saw on the market today. The blade is of genuine SILVER STEEL, taper ground. It is given the Atkins Exclusive Damaskeen Finish. It has a skew back and is fitted with the ATKINS PERFECTION HANDLE, of applewood, embossed and highly polished. Fastened to blade with three nickeled screws and medallion. Made in both regular and ship patterns, as illustrated.

Lengthinches	16	18	20	22	24	26	28
Priceper dozen	\$29.05	\$32.45	\$36.70	\$39.55	\$42.70	\$44.55	\$50.45



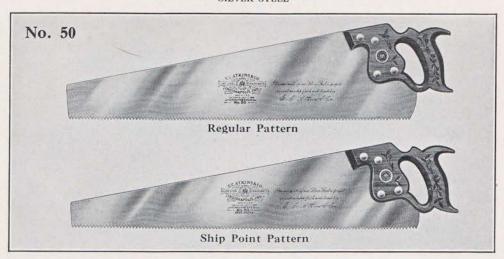
This is the companion saw to No. 53 illustrated on this page and is similar except that it is made with a straight back. The blade is of Atkins Silver Steel, and is given the exclusive Atkins Damaskeen Finish. Taper ground, tempered by Atkins exclusive process.

The handle is the Atkins Perfection Pattern; applewood, thoroughly seasoned, varnished all over, finely finished. The Atkins exclusive embossing instead of carving, gives it a beautiful appearance. Fastened to the handle with three nickeled screws and a medallion.

Lengthinches	16	18	20	22	24	26	28
Priceper dozen	\$29.05	\$32.45	\$36.70	\$39.55	\$42.70	\$44.55	\$50.45

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws. NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS HAND, RIP AND PANEL SAWS

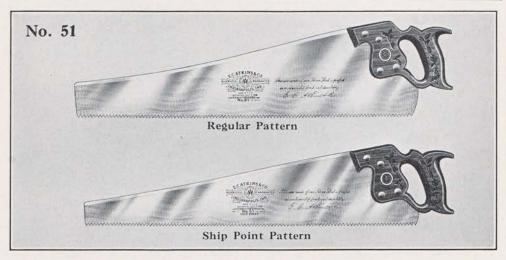


A very popular pattern. Strictly high grade. Designed for a general purpose saw. The Atkins scientific construction throughout. The blade is of genuine Atkins Silver Steel, the teeth will, therefore, hold their sharp cutting edge remarkably long. Straight back, as illustrated. Full taper ground. This insures rapid, accurate cutting. Hand smithed, Damaskeen finish.

The handles are made of genuine applewood, thoroughly seasoned. Old style straight across pattern, with Atkins exclusive embossing. Varnished all over. Fastened to the blade with four nick-

eled screws and a nickeled medallion.

Lengthinches	20	22	24	26
Priceper dozen	\$36.70	\$39.55	\$42.70	\$44.55



This saw is similar to No. 50 in general specifications, except that it is made skew back, ribbon edge. Applewood handle, old style block pattern, polished and embossed; attached with three nickeled screws and medallion. Made in both regular and ship patterns, as illustrated.

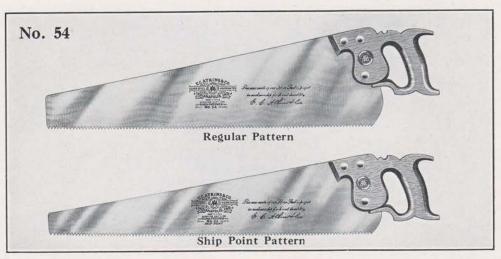
Lengthinches	16	18	20	22	24	26	28
Priceper dozen	\$29.05	\$32.45	\$36.70	\$39.55	\$42.70	\$44.55	\$50.45

Note—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws. Note—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

STEEL SAWS ATKINS SILVER

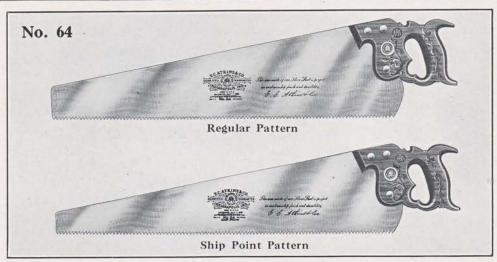
ATKINS HAND, RIP AND PANEL SAWS

SILVER STEEL



An extremely popular saw. The blade is of Atkins Silver Steel. Straight back. Damaskeen finish. Full taper ground. Tempered by Atkins exclusive process. Regular and ship point patterns. Old style handle thoroughly seasoned, extra fine quality beech. Smoothly finished. Varnished all over; polished, not carved. Fastened to the blade with three nickeled screws and a medallion.

Length No. 54inches	16	18	20	22	24	26	28
Priceper dozen	\$25.50	\$28.05	\$31.35	\$35.30	\$37.25	\$39.20	\$45.60



This is an extra heavy large blade, particularly adapted for all kinds of carpentry work where

fast and accurate cutting is required.

It is made of SILVER STEEL, straight back. Damaskeen finish. EMBOSSED and polished applewood handle, of the old style straight across pattern. Fastened to blade with three nickeled screws and medallion. Made in both regular and ship patterns.

Lengthinches	18	20	22	24	26	28
Priceper dozen	\$38.75	\$43.35	\$48.00	\$52.60	\$55.35	\$64.60

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws, NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SPECIAL SAWS

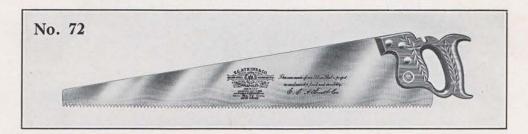
SILVER STEEL



This saw is made for fine cabinet work, where a very smooth cut is essential. It is given an extra fine hard temper, so that the teeth may be sharpened to an extremely keen cutting edge. It is ground five gauges with an extra thin taper back, also slightly hollow, which gives it ample clearance. The teeth are sharpened to a needle point. It runs without set. Blade skew back, Atkins Silver Steel, high polish.

The handle is of thoroughly seasoned air-dried applewood. Old style, straight across pattern. Atkins original exclusive embossing. Fastened to the blade with four nickeled screws and a nickeled medallion. Sizes under 26 inches, three nickeled screws and a medallion. Made in Hand, Rip and Panel.

Lengthinches	20	22	24	26	28
Priceper dozen	\$57.35	\$63.90	\$68.45	\$70.40	\$79.00



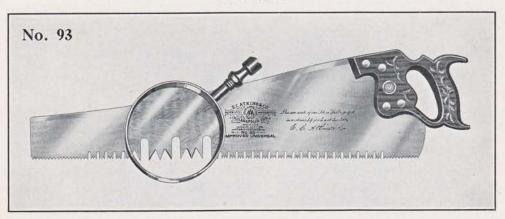
The No. 72 is a Narrow Ship Pattern Saw of Silver Steel, Damaskeened, carved apple handle, old style pattern. Fastened to blade with three nickeled screws and medallion. The blade is 5¾ inches wide at the butt, and 1¾ inches wide at the point. Made in 26-inch length only in Hand Saw (Cross Cut), not Rip.

Lengthincl	ies	26	
Priceper doz	en \$	344.55	;

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws. NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SPECIAL SAWS

SILVER STEEL



THE IMPROVED UNIVERSAL SAW

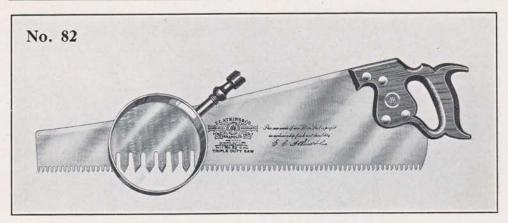
As an all around general utility saw, the Improved Universal is unequaled. Recommended for

farm use and for heavy framing purposes, such as concrete work, ship building, car repairing etc.

Made with a special patented tooth. Extra large gullet and raker tooth. It cross-cuts and rips equally well. Blade is made of genuine Silver Steel, skew back, embossed and polished old style handle attached with four nickeled screws and medallion; made in 26-inch length only.

Complete instructions for filing are packed with each No. 93 Universal Saw.

Lengthinches	26
Price per dozen	\$60.40



ATKINS TRIPLE DUTY SAW

This Saw is appropriately named from the fact that it cuts equally well in ripping, cross-cutting or mitering. It is made of Silver Steel, taper ground. Damaskeen polish, skew back with ribbon edge. Fitted with old style straight across handle of applewood, not carved, highly polished; attached with four nickeled screws and medallion. The teeth have been designed for fast cutting and ease of operation, and is intended for all kinds of timber, particularly for heavy work. Teeth can be kept in order with no more difficulty than one experiences with ordinary hand saw. Complete instructions for fitting accompanies each saw. Meda in 6.7 and 8 register and in 26-inch length only for fitting accompanies each saw. Made in 6, 7 and 8 points, and in 26-inch length only.

Lengthinches	26
Price per dozen	\$56.23

NOTE: See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws. NOTE: See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SILVER STEEL SAWS

ATKINS SPECIAL SAWS

SILVER STEEL



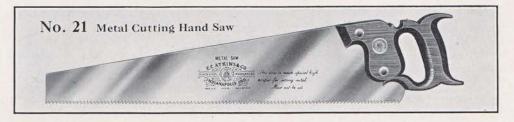
ATKINS JUNIOR MECHANIC

For the Boy's Tool Kit

This saw has been created to meet a long-felt demand of the trade, brought about by the increasing use of tools by boys, boy mechanics, Boy Scouts, etc., and it is also a practical saw to meet the requirements of every household.

The Junior Mechanic is a high grade saw in every respect. It will be found invaluable for home workshop use. It cuts clean, fast and easy, and it will encourage the boy to make things of permanent value for the household. It is sold at a very moderate price.

Made in 20-inch length only, skew back, nine point, taper ground blade, highly polished. Beech handle, coffee stained, full carved, with two nickel-plated screws and a medallion. Packed in attractive individual boxes.



METAL CUTTING HAND SAW

This blade is made of Silver Steel and will cut all classes of ordinary metal with ease.

The blade is straight breast and back. It is 18 gauge on the toothed edge, 20 gauge on the back and gradually tapers to 23 gauge on the point.

The teeth are specially milled, straight across, but are tempered for slow filing. 15 points to inch.

The handle is made of thoroughly seasoned beech, polished, fastened to the blade by medallion and two brass screws.

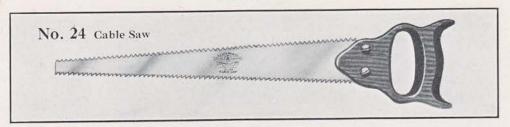
No. 22 same as No. 21, except with adjustable handle.

No. 21					No. 22						
Length , inches	18	20	22	24	26	Lengthinches	18	20	22	24	26
Priceper dozen	\$29.55	\$32.40	\$36.00	\$38.65	\$41.80	Priceper dozen	\$32.40	\$35.75	\$39.25	\$42.85	\$46.15

Saws 18 inches long will be furnished unless otherwise specified. For complete tabulation of weights, widths and dimensions see page 221.

ATKINS SPECIAL SAWS

SILVER STEEL



ATKINS CABLE SAWS

An essential saw for cutting cables, etc. Made of Silver Steel; equipped with beech handle, two brass screws. Blade 16 inches long, one side toothed 10 points to the inch and the other 13 points to the inch. Ground 17 x 19 gauge. 2½ inches wide at butt and 5% inch at point.

Priceper dozen \$15.20



ATKINS PLUMBERS' SAWS

A very useful saw for cutting flooring; top edge toothed $5\frac{1}{2}$ points rip teeth; bottom edge 8 points hand saw teeth. Beech handle, varnished edge, fitted to saw with three brass screws. Silver Steel, 18 gauge, flat ground. 12-inch blade is $2\frac{3}{4}$ inches wide at butt and 2 inches at point, increasing in proportion to $3\frac{1}{8}$ inches at butt by $2\frac{3}{8}$ inches at point for the 18-inch.

Lengthinches	12	14	16	18
Priceper dozen	\$17.10	\$18.25	\$19.40	\$20.90



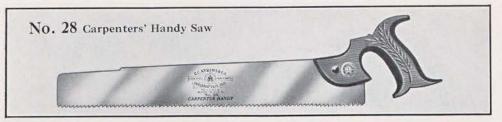
ATKINS FLOORING SAW

This saw is designed for sawing into flat surfaces, such as floors, without necessity of boring or using keyhole saw or chisel. The point is toothed on both edges so that out of the way spots may be reached with ease. It is made of Silver Steel, beautifully polished and etched. Genuine apple handle, polished, not carved. Three brass screws and medallion. Made in 18-inch only. 10 points to the inch.

Lengthinches	18
Priceper dozer	\$34.85

ATKINS SILVER STEEL SAWS

ATKINS SPECIAL SAWS



ATKINS CARPENTERS' HANDY SAW-SILVER STEEL

Silver Steel, apple handle, carved, varnished and polished. Put up one-third dozen in a box. A very popular saw, used by carpenters, stair builders, cabinet makers and good artisans. Made with 12 points to inch.

Lengthinche	17
Price	\$27.20



ATKINS No. 590 DOCKING SAW

A useful saw for rough, fast sawing around docks, ship yards, car shops, lumber yards, farms, and for bridge, mine, railroad and contractors' work. Full breasted blade, 18 gauge on toothed edge, taper ground to 20 gauge for clearance, bevel filed teeth, 4½ points to inch, peg shape. Handle, easy grip pattern, malleable iron, tinned and riveted. High-grade special steel. Each saw sharpened and set ready for use.

Lengthinches	30
List priceper dozen	
Width at buttinches	61/2
Width at point inches	21/2



ATKINS PLASTER SAW, No. 20-SPECIAL STEEL

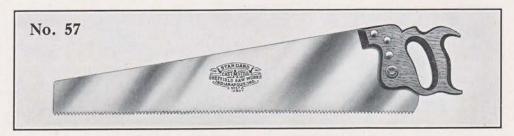
For cutting all types of hard wall plaster such as monolite, etc. The blade is of Atkins Special Steel and tempered hard. Three points to one inch. Ground same gauge on toothed edge and back.

Filed straight and set. Packed one-half dozen in a box.

Lengthinches	28
Price	

HAND, RIP AND PANEL SAWS

SHEFFIELD SAW WORKS



No. 57 is made of cast steel. The handle is of beech, varnished edge and fastened to blade with three brass screws and a medallion. Straight back.

Length inches	16	18	20	22	24	26	28
Price, No. 57 per dozen	\$12.60	\$13.70	\$14.75	\$15.80	\$16.85	\$19.00	\$22.15



No. 58 is made of a high quality cast steel, finely finished and warranted. Straight back. The handle is beech, varnished all over and fastened to the blade with three brass screws and a medallion.

Lengthinches	16	18	20	22	24	26	28
Price, No. 58 per dozen	\$18.35	\$19.85	\$21.25	\$22.65	\$24.10	\$26.05	\$30.00



No. 59 is a companion to the No. 58 except it is skew back, made of high quality cast steel fully warranted. The handle is of thoroughly seasoned beech, varnished and polished all over. Fastened to blade with three brass screws and a medallion.

Length inches	16	18	20	22	24	26	28
Price, No. 59 per dozen	\$20.90	\$22.25	\$23.45	\$24.80	\$26.30	\$28.05	\$31.95

NOTE - See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

HAND, RIP AND PANEL SAWS

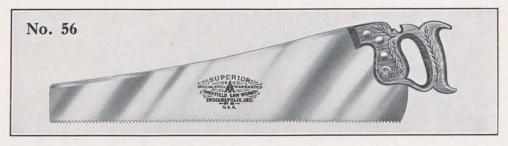
SHEFFIELD SAW WORKS



The No. 110 is a popular price Hand Saw made to meet the demand for a medium price, good quality saw. It is made from Crucible Steel, full width, high polish, skew back, ribbon edge, cherry handle; spindle carved, attached with four brass screws and medallion.

Our No. 111 is the same as above except it is Straight Back.

Lengthinches	16	18	20	22	24	26	28
Price per dozen	\$29.75	\$30.85	\$32.30	\$33.75	\$35.35	\$38.15	\$42.55



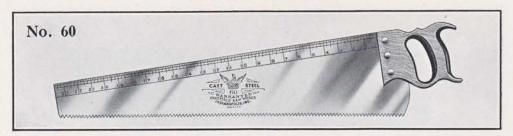
The illustration above shows our No. 56 Hand Saw. It is made of Sheffield Special Steel, skew back with ribbon edge, nicely polished; carved handle, beech, coffee stained, attached to saw with three brass screws and medallion. A good saw for household use.

Lengthinches	16	18	20	22	24	26	28
Priceper dozen	\$28.00	\$28.95	\$30.00	\$31.40	\$32.80	\$34.35	\$37.25

NOTE: See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

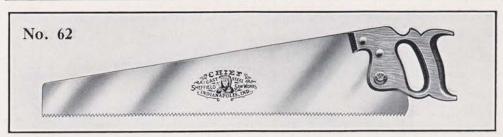
STEEL SAWS ATKINS SILVER

HAND, RIP AND PANEL SAWS SHEFFIELD SAW WORKS



No. 60 blade with combined rule and square is made of cast steel, polished. A two-foot rule is etched along the back of the blade. The handle, being at right angles to the straight edge back, forms a square. The handle is of beech, varnished edge, and fastened to the blade with three brass screws.

Lengthinches	26
Price, No. 60 per dozen	\$15.80



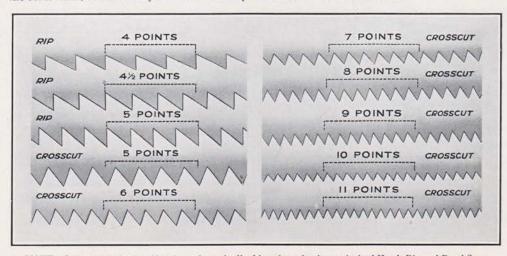
No. 62 is a good serviceable saw for the money. Blade is made of cast steel and polished. Beech handle, varnished on edge, fastened to blade with two brass screws and a medallion.

Lengthinches	16	18	20	22	24	26	28
Price, No. 62per dozen	\$12.30	\$13.50	\$14.70	\$15.85	\$17.20	\$18.40	\$20.55

NUMBER OF POINTS PER INCH IN HAND, RIP, PANEL, PRUNING AND SMALL SAWS

To prevent error in ordering, we illustrate below the various points of saw teeth from four to
eleven. Please note particularly that the term "points per inch" in saw teeth indicates the number of tooth points occurring Within a Space of One Inch.

It does not mean that in a four point saw, for instance, there are four entire teeth to each inch. On the other hand, there is always One Less Tooth per Inch Than There Are Points.



NOTE: See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.



TABULATIONS

OF

APPROXIMATE WEIGHTS, WIDTHS AND DIMENSIONS OF HAND, RIP AND PANEL SAWS AT POINT AND BUTT

		18 INCH			22 Inch			26 INCH			28 Inch	
NUMBER OF SAW	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches
Metal Cutting Metal Cutting Regular Pattern Shin Pattern	13. 13. 12.8	7.7.7.	440	18. 18.2	2777 28/8/8/	4 4 4 5 7 7 4 4 4 7 7 8 4 4 8 7 7 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	25.3	2 - 51 %4%474	20.00	30.	234	71%
Regular Pattern	12.7	15%		18.	17/8	578	24.7	57 24 74 75 75	2. C.	30.	234	7.1/2
52 Regular Pattern 53 Regular Pattern 53 Shin Pattern	13.	15.8	וס נס	19.	12%	57/8	26. 26.	그 e1 e1 4767년	0 1+1+ 4/8/8	31.	61 61 4 44	777
Regular Pattern	12.8	15%	514	18.7	17%	61/4	25.5	- 01 - 4/07	20 27,7	30.8	23,4	75%
64 Regular Pattern 64 Ship Pattern	12.8	158	53%	18.5	17/8	63/8	25.5	- 61 - 7-7: 4-7:	0 1-1 4 /sv	30.5	23,4	77%
65 Regular Pattern 65 Ship Pattern	12.8	15%	ıo	18.2	178	57/8	255.5	- e1 - - 	47%	29.5	234	71/2
72 Ship Pattern. 82 Triple Duty Pattern.							24.7	- L c - 2%%	4727			
	14.	15/8		22.	17/8	57%	31.3	(C) (C) (2) (C) (2) (C)	2/2/2	34.	23,4	71/2
00 Straight Back Reg. Pattern	15.	15%		23.	178	578	31.5	01 - 01 - 04 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	247%	34.6	23,4	71/2



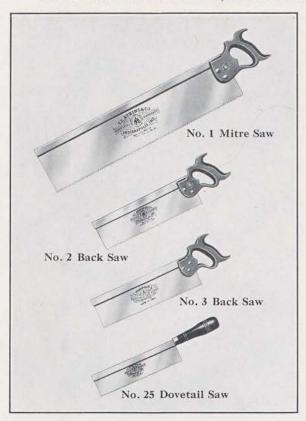
SPECIFICATIONS OF STANDARDIZED LENGTHS AND POINTS TO INCH OF HAND, RIP AND PANEL SAWS

COVERING HAND SAW SECTION, PAGE 206 TO PAGE 221

COTINETO	2	
Points	Points	Points
No. 50 CROSS CUT HAND SAWS	No. 54 SHIP POINT CROSS GUT	"THE FOUR HUNDRED" Straight Back Ship Point Cross Cut
20 inch9-10-11	HAND SAWS 26 inch	Hand Saws
24 " 7-8-9-10-11		26 inch
20 inch. 9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 7-8-9-10-11	No. 54 SHIP POINT RIP SAWS	"THE FOUR HUNDRED"
No. 50 RIP SAWS	26 inch5-5½-6	Straight Back Ship Point Rip Saws
26 inch 4½-5-5½-6	No. 61 CROSS CUT HAND SAWS	26 inch
26 inch	26 inch	ATKINS JUNIOR MECHANIC
No. 50 SHIP POINT CROSS CUT	No. 64 CROSS CUT HAND SAWS	20 inch9
HAND SAWS	18 inch	No. 93 HAND SAW
26 inch	22 " 8-9-10-11	26 inchPatented Tooth
No. 50 SHIP POINT RIP SAWS	24 "	No. 82 HAND SAW
26 inch5-5½-6	18 inch 10-11 20 " 8-9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 7-8-9-10-11 28 " 5-6-7	26 inch
No. 51 CROSS CUT HAND SAWS	28	No. 56 CROSS CUT HAND SAWS
16: 1 0.10	No. 64 RIP SAWS	
18 "9-10-11	24 inch5-5½-6-7	18 "9-10-11
18 " 9-10-11 20 " 8-9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 5-6-7-8-9-10-11 28 " 5-6-7-8	26 "	16 mch. 9-10-11 18 " 9-10-11 20 " 8-9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 6-7-8-9-10-11 28 " 5-6-7-8-9-10-11
24 "	No. 64 SHIP POINT CROSS CUT	22 "
26 " 5-6-7-8-9-10-11	HAND SAWS	26 #6-7-8-9-10-11
28 "	26 inch	28 " 5-6-7-8-9-10-11
No. 51 RIP SAWS	No. 64 SHIP POINT RIP SAWS	No. 57 CROSS CUT HAND SAWS
20 inch	26 inch	16 inch9-10
24 "	No. 65 CROSS CUT HAND SAWS	18 "9-10-11
24 "	16 inch 9-10	18 " 9-10-11 20 " 9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 6-7-8-9-10-11
28 "3½-4-4½-5-5½-6	18 " 9-10-11	24 "
No. 51 SHIP POINT CROSS CUT	00 # 0 0 10 11	26 " 6-7-8-9-10-11
HAND SAWS	22 "	No. 58 CROSS CUT HAND SAWS
26 inch	24 "	16 inch9-10
No. 51 SHIP POINT RIP SAWS	28 " 5-6-7-8	18 "
26 inch5-5½-6-7	No. 65 RIP SAWS	18 "
No. 52 CROSS CUT HAND SAWS	20 inch	22 "
20 inch	24 " 5-514-6-7	
24 "	26 " 4½-5-5½-6	No. 59 CROSS CUT HAND SAWS
22 " 10-11 24 " 9-10-11 26 "7-8-9-10-11	28 " 3½-4-4½-5-5½-6	16 inch9-10
No. 52 RIP SAWS	No. 65 SHIP POINT CROSS CUT	18 "9-10-11 20 "9-10-11 22 "8-9-10-11
26 inch	HAND SAWS	22 " 8-9-10-11
28 "5-5½-6	26 inch	22 "
No. 53 CROSS CUT HAND SAWS	No. 65 SHIP POINT RIP SAWS	
	26 inch	No. 60 CROSS CUT HAND SAWS
10 inch. 9-10 18 " 9-10-11 20 " 8-9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 5-6-7-8-9-10-11 28 " 5-6-7-8	No. 72 SHIP POINT CROSS CUT	26 inch6-7-8-9
22 "8-9-10-11	HAND SAWS	No. 62 CROSS CUT HAND SAWS
24 "	26 inch	16 inch
26 " 5-6-7-8-9-10-11	"THE FOUR HUNDRED"	18 " 8-9-10 20 " 8-9-10 22 " 7-8-9-10 24 " 7-8-9-10 26 " 6-7-8-9-10
20	Skew Back Cross Cut Hand Saws 20 inch	22 "
No. 53 RIP SAWS 20 inch	22 "	24 "
22 "	22 "	
22 " 7 24 " 5-5½-6-7 26 " 4½-5-5½-6-7 28 " 3½-4-4½-5-5½-6	26 "	No. 110 CROSS CUT HAND SAWS 16 inch9-10-11
26 " 4½-5-5½-6-7	"THE FOUR HUNDRED"	18 "9-10-11
	Skew Back Rip Saws	20 "8-9-10-11
No. 53 SHIP POINT CROSS CUT HAND SAWS	26 inch	24 4 7-8-9-10-11
26 inch	"THE FOUR HUNDRED"	26 "
	Skew Back Ship Point Cross Cut	18 " 9-10-11 20 " 8-9-10-11 22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 6-7-8-9-10-11 28 " 5-6-7-8-9-10-11
No. 53 SHIP POINT RIP SAWS 26 inch	Hand Saws	No. 111 CROSS CUT HAND SAWS
	26 inch	Made in same lengths and points as
No. 54 CROSS CUT HAND SAWS	"THE FOUR HUNDRED"	No. 110.
16 inch	Skew Back Ship Point Rip Saws 26 inch5-5½-6	Nos. 56, 58, 59, 110, 111
20 # 8_0_10_11		All of the above saws are made in the following lengths and points in
22 "	"THE FOUR HUNDRED"	RIP SAWS:
22 " 8-9-10-11 24 " 7-8-9-10-11 26 " 5-6-7-8-9-10	Straight Back Cross Cut Hand Saws 20 inch	20 inch7
28 "	22 4	22 "
No. 54 RIP SAWS	22 "	22 " 7 24 " 5-51/2-6 26 " 5-51/2-6 28 " 5-51/2-6
		28 "
22 "	"THE FOUR HUNDRED" Straight Back Rip Saws	No. 57 AND 62 RIP SAWS
26 "	26 inch	26 inch
20 inch	28 "	28 "5-6

ATKINS SILVER STEEL SAWS

ATKINS MITRE BOX, BACK AND DOVETAIL SAWS



Atkins No. 1 Mitre Box Saw and No. 2 Back Saw are made of Atkins Silver Steel, which is an assurance of quality. No. 3 Back Saw is made of standard cast steel, finely tempered, and will be found satisfactory for ordinary service.

Nos. 1 and 2 are made with genuine applewood handle, varnished and polished edges, fastened to the blade by two brass screws and a brass medallion No. 3 has a thoroughly seasoned beech handle, nicely finished polished edges, and fastened to the blade by three brass screws. The backs of these saws are blued.

The No. 1 Mitre Saw is toothed 12 points to the inch, in 16 and 18 inch lengths, all over are toothed 11 points to the inch. Back Saws are toothed 14 points to the inch in lengths of 14 inches and under.

Packed one-third dozen in a box. 8, 10, and 12-inch blades about 21 gauge. From 14 to 26-inch blades about 20 gauge. 28-inch and over about 19 gauge.

ATKINS No. 25 DOVETAIL SAWS

This Saw is made for light, fine work and in our Famous Silver Steel quality only. The steel back makes it rigid and strong, yet very light. They are recommended for fine cabinet work where a Back Saw is not practical.

These Saws are 1½ inches wide under the back, 26 gauge, and toothed 17 points to the inch. The blade is nicely polished and fitted with hardwood polished handle.

Each Saw is set and filed, and packed onethird dozen in a box

ATKINS MITRE BOX SAWS, No. 1

Lengthinches	18	20	22	24	26	28	30	32
Price, 4 inches under back, per dozen	\$48.20	\$52.40	\$56.65	\$61.00	\$65.30	\$69.55		
Price, 5 inches under back . per dozen			61.00	64.35	72.45	76.15	\$83.90	
Price, 6 inches under back per dozen			67.70	74.30	81.00	87.70	94.40	101.05
Weight, 4 inch, per dozen pounds	251/2	283/4	323/4	333/4	35	40	43	46
Weight, 5 inch, per dozen pounds	11111		38	391/2	401/4	431/2	48	54
Weight, 6 inch, per dozen pounds	1	144444	40	421/2	44	481/2	521/2	56

ATKINS SILVER STEEL BACK SAWS, No. 2

Lengthinches	8	10	12	14	16	18
Priceper dozen	\$28.60	\$30.55	\$34.25	\$38.10	\$42.90	\$47.65
Weight, per dozenpounds						

SHEFFIELD SAW WORKS BACK SAWS, No. 3

Lengthinches	8	10	12	14	16	18	20	22	24
Priceper dozen	\$19.60	\$21.90	\$25.75	\$30.10	\$34.35	\$38.65	\$43.35	\$48.20	\$52.95
Weight, per dozenpounds	101/2	12	14	1834	221/2	251/2	291/2	33	361/2

ATKINS No. 25 DOVETAIL SAWS

Lengthinch	ies	6	8	10	12
Priceper doz	en	\$15.90	\$18.20	\$20.45	\$22.80

ATKINS COMPASS SAWS

No. 2 SILVER STEEL

Attached with saw screw and medallion, carved and polished apple handle. 8 points per inch.

Price, per Dozen

Length Inches	No. 2 Saws Complete	Blades Only	No. 3 Saws Complete
10	\$8.75	\$5.30	\$8.05
12	9.25	5.55	8.65
14	9.80	5.90	9.20
16	10.40	6.35	9.90
18	11.45	6.90	

No. 3 SILVER STEEL

Attached with saw screw and medallion, carved and polished beech handle. Made in 10, 12, 14 and 16-inch lengths. 8 points per inch.

No. 4

Beech handle, two screws, varnished edge. Made in 10, 12, 14 and 16-inch lengths. Sheffield quality. 8 points per inch.

Price.....per dozen \$5.20

No. 7 SILVER STEEL

One screw and medallion, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths. 8 points per inch. Price......per dozen \$6.50

No. 8

Polished wood screws, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths. Sheffield quality. 8 points per inch.
Price......per dozen \$4.00

WEIGHTS Nos. 2, 3, 4, 7, 8 and 9

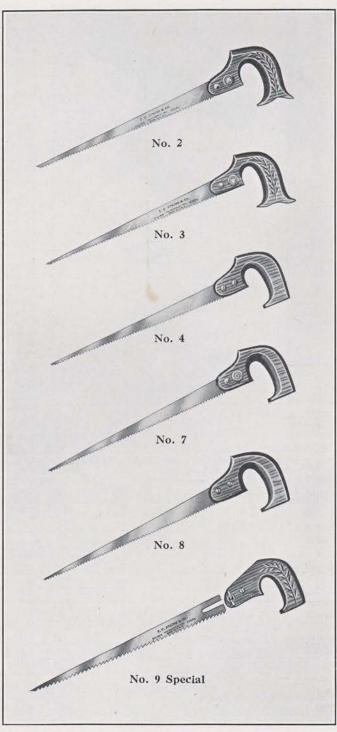
Lengt Inche	h															F	er Dozer Pounds
10.	Į,			Ų	V				4		4			4			.51/4
12.			Ü	Ĭ.			Ü	Û	Ü	Ü		Ú		Ü	ĺ.		.6
14.						Ŷ								*			.61/2
16.		į.	Ċ.	ļ,										-	×		.7
18.			4		ğ		Ġ.		Ž,	Š	ě.	6	¥	ě	Ü		.734

All the above put up half dozen in a box.

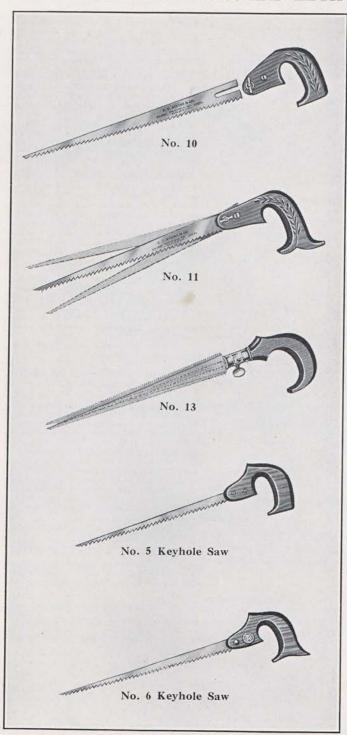
No. 9 SPECIAL SILVER STEEL

Length Inches	Saw Complete	Blades
10	\$10.40	\$6.35
12	10.85	6.30
14	11.30	7.25
16	11.75	7.70
18	12.20	8.15

Carved and varnished interchangeable beech handle, attached with nickeled wing nut and screw. Hole punched in blade for screw, not shown in illustration, to eliminate detachable feature if desired.



ATKINS COMPASS AND KEYHOLE SAWS



No. 10 INTERCHANGE-ABLE

Carved beech handle, var-nished and polished, wing nut and nickeled screw. 8 points per inch. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	\$9.00	\$5,30
12	9.35	5,55
14	9.70	5,90
16	10.05	6.35
18	10.50	6.90

No. 11 ADJUSTABLE

Apple handle, carved, var-nished and polished, wing nut and nickeled screw. 8 points per inch. Price, per dozen:

Length Inches	Saws Complete	Blades
10	\$10.50	\$5.30
12	11.40	5.55
14	12.10	5.90
16	13.00	6.35
18	13.85	6.90

Weights Nos. 10 and 11

	Per Doz. Lbs.	Length In.	Per Doz. Lbs.
10	6	16	. 73/
12	61/2	18	814
14	7	20	834

ATKINS No. 13—THE "FOUR WAY"

The "Four Way" Compass Saw is designed for cutting at four Saw is designed for cutting at four different angles, upward, downward or to the left or right as desired. The thumb screw is fitted with a casting on the end of handle. The blade is notched so that the thumb screw fits into same. The end of handle is also notched. Blade of Silver Steel. The handle of hardwood, varnished edges. Casting-japanned black. Packed half dozen in box. 8 points per inch. Weights same as Nos. 10 and 11. Price, per dozen:

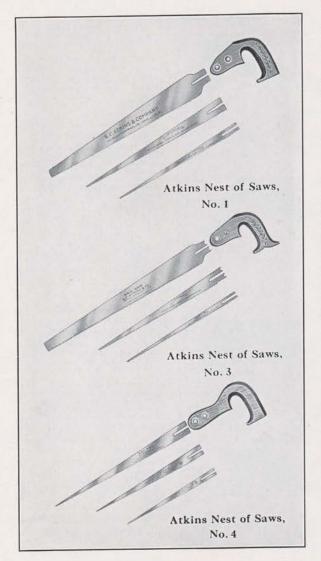
Length Inches	Saws Complete	Blades Only
10	\$10.75	\$5.30
12	11.05	5.55
14	11.55	5.90
16	12.00	6.35

KEYHOLE SAWS

No. 12 Same as No. 5 except that teeth are set but not filed. 10 points

STEEL SAWS ATKINS SILVER

ATKINS SILVER STEEL NESTS OF SAWS



No carpenter's kit is complete without a nest of saws. They virtually give the advantage of three saws within the space and weight of one.

We have carefully studied the requirements of the best mechanics and show herewith three of the most useful assortments. Handles fastened to blades with wing nuts.

ATKINS No. 1 NEST OF SAWS

We recommend this set for general purposes; made of Silver Steel. It consists of a keyhole, compass and pruning saw blade and adjustable handle as shown.

ATKINS No. 2 NEST OF SAWS

This combination comprises 2 sizes of compass saws and a keyhole blade, made of Silver Steel, in connection with the removable handle.

ATKINS No. 3 NEST OF SAWS

This set has been in great demand wherever shown. It includes a handle, which is detachable and adjustable at three different angles, a compass and a keyhole blade and a Metal Cutting Blade, made of Silver Steel, all of which are interchangeable. The nail cutting blade is tempered exceedingly hard for cutting nails, pipe or conduit; in fact, any kind of metal. It is Taper Ground from the toothed edge to the back, so that it clears itself readily.

No. 3 nest is equipped with an adjustable handle of the latest Improved Pattern, with a tightening adjustment consisting of a heavily nickel-plated screw, which may be operated from either side of the handle by reversing the screw, permitting the blade to be used at any

desired angle.

Packed one-quarter dozen in handsome box attractively labelled.

ATKINS PLUMBERS' NEST OF SAWS, No. 4

There is a great demand for a set of saws for use among plumbers, electricians and other similar trades or by the regular carpenter, that can be used in cases where metal obstructions, such as nails, screws, piping, etc., preclude the use of regular wood saws. The No. 4 Nest has been provided to take care of this demand.

The Nest consists of one 16-inch Compass Saw Blade; one 10-inch Keyhole Saw Blade and a 14-inch Nail or Metal Cutting Blade, made of Silver Steel, and an Adjustable Handle.

The handle is fitted with a wing nut and screw for removing or tightening blades in place. Varnished on edge only.

Nail cutting blade has milled teeth. 12 points. Very light set, not filed.

ATKINS No. 5 NEST OF SAWS

This set of saws consists of an interchangeable handle, a 14-inch compass saw and blade and a 10-inch keyhole blade, made of Silver Steel.

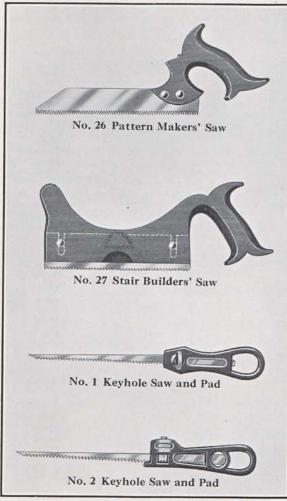
Price, per Dozen

	Description	No. 1	No. 2	No. 3	No. 4	No. 5
Handles and	screws	\$3.80	\$3.80	\$4.75	\$3.80	\$3.80
Length— Keyhole bl Keyhole bl	lades, 10 in	5.55	5.30	5.55	5.30	5.30
Compass b	olades, 12 inolades, 14 in	5.90	*********	5.90	7.40	5,90
Compass b	etal blade, 14 in olades, 16 in	11.65	0,35	23.20	6,35	
200000000000000000000000000000000000000	r nests	7,07533333131	\$20.75	\$39.20	\$22.85	\$15.00
Weight, per	dozen sets, pounds	1134	10	14	12	8



ATKINS SPECIAL SAWS

SILVER STEEL



ATKINS No. 26 PATTERN MAKERS' SAW

This saw is designed for very fine smooth work. The blade is 71/2 inches long and there are 14 sharp, pointed teeth to the inch. The handle is of sanded applewood, not varnished. Two brass screws. Packed one in a box.

Price per dozen \$13.00 Weight, per dozen....pounds 43/4

ATKINS No. 27 STAIR BUILDERS' SAW

Beech handle, varnished and polished edges. Length 6, 8 and 10 inches. Width of blade, 13/4 inches. Adjustable to different depths. 10 points to the inch.

Length...inches 6 Price. per dozen \$12.65 14.30 16.00 Weight, per doz.pounds 41/2 51/4

ATKINS KEYHOLE SAW AND PAD

No. 1

Handle, Grey Iron Casting, Japanned, Adjustable thumb screw, Silver Steel blade. Packed one dozen in box.

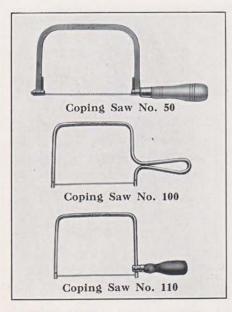
No. 2

Handle, Grey Iron Casting, Japanned, nicely finished, Knurled Brass adjusting screw, Silver Steel blade. Packed one dozen in box.

No. 1		No. 2				
Keyhole sawsper dozen	\$3.25	Keyhole sawsper dozen	\$3.25			
Handles per dozen			2.65			
Completeper dozen	4.95	Completeper dozen	5.90			
Weight, per dozenpounds	$2\frac{1}{2}$	Weight, per dozenpounds	21/2			



ATKINS COPING SAWS



COPING SAW, No. 50

This is a very durable and rigid coping saw, as the back is $\frac{3}{8}$ inch wide and $\frac{3}{16}$ inch thick and made of cold rolled steel, nickeled and buffed. Frame, 71/4

inches by $4\frac{5}{8}$ inches deep. Fastened to the handle by malleable iron threaded ferrule, thus producing the strongest attachment for

this purpose now in use.

All parts handsomely nickeled and buffed. The handle is of hardwood, carved and varnished.

Through the use of cap screws into which wires are inserted, the blade may be instantly adjusted to cut sharp or unusual angles with perfect ease and without strain on the blade. Packed two in a box.

Price, complete, with bladeper dozen	\$9.90
Price, blades only per dozen	
Weight, per dozen pounds	7

COPING SAW, No. 100

Frame of wire rod heavily nickel-plated, polished and buffed. 6-inch bent end blades. Depth from blade to back, 4 inches. Packed six in a box.

Price, complete with one doz. extra blades per doz.	
Price, extra blades per gross	
Weight, per dozenpounds	43/8

No. 101, not illustrated. Same as No. 100, except 8 inch under back......per dozen \$5.10

COPING SAW, No. 110

Wire rod frame, heavily nickel-plated, polished and buffed; black japanned wood handle. 6-inch bent end blades. Depth from blade to back, 4 inches. Packed six in a box.

Price, complete with one dozen extra blades	per dozen	\$5.50
Price, extra blades	.per gross	2.20
Weight, per dozen	pounds	*
No. 111, not illustrated. Same as No. 110, except 8 inch under back	per dozen	\$6.35
Weight, per dozen	pounds	5%8

ATKINS SPECIAL BLADES FOR COPING SAW FRAMES, No. 500

1/4 inch wide, .014 inch thick, 32 teeth per inch.

By using these blades a large variety of metal work can be done with our Coping Saw Frames. Furnished either straight or loop ends.



ATKINS HANDY TOOLS

A set of tools that consists of keyhole saw and pad, putty knife, chisel, screw driver and claw. Put up one set in a box. Just the tools for home use.

Price, handlesper dozen	\$0.90
Price, keyhole sawsper dozen	
Price, putty knives per dozen	
Price, chiselsper dozen	1.35
Price, screw drivers and tack claws, per dozen	1.35
Price, tools, complete set	7.60

Price for one set Handy Tools, 65 cents. If sent by mail, 8 cents additional.

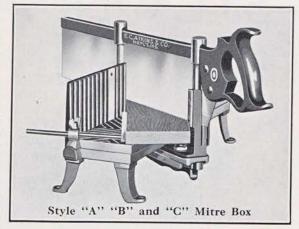
MARSH AYER MITRE BOXES

CAST IRON STYLES A, B AND C

These boxes are heavy and strong, being intended principally for shop use.

The bed and back are cast in one piece, affording a true and rigid base for work. Ribs are raised ½ inch on plates to give a sawdust clearance under work and prevent it from slipping.

The length gauges have a capacity up to 18 inches and the stock gauges on the back are swiveled, and swing behind box when not in use.



The degree scale is milled directly onto the frame and is clear and easily read. The saw guides have slotted pins to hold saw elevated while work is being adjusted.

The lock for fastening lever at any point is operated by the finger latch.

The cast iron parts are finished in dull nickel and the steel parts brightly polished.

These Mitre Boxes are preferred by master carpenters and wood-workers on account of their high quality and workmanship. They are indispensable in vocational and manual training schools and are now in use in the foremost schools in the United States and Canada.

ATKINS MITRE SAWS

Each saw that is supplied with the Mitre Box is made from Silver Steel, which assures you of their quality. The handle is made of applewood, varnished and polished edges, fastened to the blade with two nickeled screws and medallion.

Atkins Mitre Saws in 16 inch to 18 inch lengths are toothed 12 points to the inch; 20 inch and over 11 points to the inch.

The list shown below includes a saw of a length and size adapted to the Mitre Boxes of the styles as shown above.

2	Size	Saw	Capacity at Right Angles Inches	Capacity at Miter Inches	List Price Each with Saw
A24	Cast Iron	24 x 4	101/4	7	\$21.80
A26	Cast Iron	26 x 4	101/4	7	22.65
A28	Cast Iron	28 x 4	101/4	7	23.60
B26	Cast Iron	26 x 5	1014 1014	7	24.15
B28	Cast Iron	28 x 5	1014	÷	25.00
B30	Cast Iron	30 x 5	1014	7	
C30	Cast Iron	30 x 6	1014	7	25.85 30.00

ATKINS SILVER STEEL PRUNING SAWS



PRUNING PAYS!

It has not been many years since the well-pruned orchard was an exception. Winter revealed the condition—row after row of tall, toppy trees running to wood and not to fruit. Summer brought foliage on a mass of fine entangling limbs choking out air and needed sunlight. Today, in newer orchards, at least, things are changed. Trees are pruned to symmetrical proportions, not for looks, but for profit.

Periodical thinning-out and sensible heading-back have worked what to the old-school man would have seemed wonders, for this is the man who used to say that pruning was "loo much trouble" and "not worth the time it took!"

Today, lack of proper pruning is the mark of a shiftless orchardist, careless of his stock and insensible to the interests of his pocketbook.

For experience has proved that pruning pays! It returns big dividends in three ways:

FIRST: Through quicker bearing. SECOND: Through fuller bearing.

THIRD: Through a longer fruit-bearing life.

Don't get the idea that successful pruning is wrapped up in "deep" science or Black Magic. It is not. Common sense plus a season's experience will equip any man to prune his orchard with good results.

WHAT MAKES A GOOD PRUNING SAW?

Success in pruning can be greatly aided by giving the workman the right tools, without which even the best and most experienced man is handicapped.

Pruning a tree is not like sawing a log. In the latter case, a slip of the saw matters little, whereas a mishap in pruning may open up a large wound difficult indeed to heal up.

Therefore, adaptability-to-purpose is an important point in selecting a pruning saw. The proper shape, so as to be available for use in cramped places, and the correct balance, so as to make the saw easy to handle—both of these are important considerations.

Atkins AAA Silver Steel Saws illustrated on the following pages are among the most popular of our pruning saws. Nos. 7, 10, 11 and 15 are made with adjustable blades which can be placed at any desired angle in the frame, thus enabling the worker to saw close to the limbs, which is a very important point in careful pruning.

Numbers 13, 18 and 20, illustrated on page 234, are also popular styles, while Nos. 1 and 17, illustrated on page 233, are always old "stand-bys" and forever popular.

Numbers 4 and 44, shown on page 234, are simply modified forms of the hand saw and are found very useful in quickly taking off large and awkward limbs which the small pruning saws will not handle.

In addition to the saw equipment, a small pruning shears and perhaps a dehorning shear with about a three-foot handle are also desirable. It must be remembered, however, that the saw, especially those such as Nos. 7, 9, 10,11 and 15, are much less apt to injure the tree than the careless clipping of the ordinary shear, which accounts for the fact that you will find many experts using the saw in preference to the clipper, especially in work where care is needful.

ATKINS PRUNING SAWS

ATKINS No. 44

The blade is similar to No. 4. Made of high-grade special steel, tempered stiff, tough and hard, but not brittle. The handle is made of pressed steel, attached to the blade by four rivets. It has a wooden grip, fastened with four wood screws. Practically unbreakable. Extra large, easy grip. Plenty of room for use with gloves in cold weather. 7 to 10 points to the inch. (See page 234.)

No. 4

The blade is heavy-gauge and is of Atkins High-Grade Special Steel, tempered very tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade with three brass screws and a medallion. 7 to 10 points to the inch. (See page 234.) No. 12 PARAGON

This blade is made of Atkins Silver Steel with a hard, stiff temper. The concave edge is toothed for fine cutting and the opposite edge for coarse, heavy work. It tapers from $2\frac{1}{2}$ inches at the handle to 1 inch at the point. The handle is of thoroughly seasoned hardwood, finely finished, varnished on the edges and fastened to the blade with three saw screws. 8 points on outside curve. 6 points on inside curve. (See page 234.)

No. 13 CALIFORNIA
The blade is of Atkins Silver Steel. The handle is of highly finished applewood, edges varnished and polished; fastened to the blade with three brass screws. 8 points to the inch. Peg tooth with needle point. (See page 234.)

ATKINS No. 15 Length of frame over all, 17 inches. Depth at point from blade to back, ¾ inch. Depth at butt, 4 inches. Width of frame, 5% inch; thickness, ¾ inch. Polished.

Half-inch blued blade, 3 point, 14 inches from center of pins. Double swivel arrangement, to cut

at any angle. Blade tightened by turning handle, in which is a steel nut. Length of handle, 4½ inches. Finished red. 8 points to the inch. (See page 235.)

ATKINS No. 16

This Pruner consists of a strong casting, hollowed and bored for slipping on to a pole of any desired length, so that it may be operated to reach high limbs from the ground, avoiding the use of ladders. There is a hook on the casting for use in dislodging cut limbs or removing them, should they obstruct the cutting. Peg tooth with needle point. 8 points to the inch. (See page 233.)

ATKINS No. 17

The Blade is of Silver Steel and is 26 inches long, 1½ inches wide at point, 3¼ inches at butt. Being narrow, the blade cannot bind, and the wider butt adds stiffness. Three points to the inch gives large teeth that cut large or small limbs readily. Teeth are filed and set. The handle is of fine beech, varnished edges, extra large grip for use with gloves, if desired. Fastened to blade with three brass screws.

(See page 233.)

No. 18 PRUNER This is similar to No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of slipping in pocket. Made of Silver Steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Fleam filed. Plain sanded handle. Made of beech. Nickel screw. Peg tooth with needle point. 8 points to the inch. (See page 234.)

No. 20 CALIFORNIA Similar to the No. 13, excepting that the blade is made of Atkins High-Grade Special Steel. The handle is of thoroughly seasoned hardwood, nicely finished and fastened to the blade with three steel rivets. Peg tooth with needle point. 8 points to the inch. (See page 234.) No. 7 TAPERED

The frame is made of very fine crucible steel, $\frac{3}{4}$ inch wide, $\frac{3}{16}$ inch thick. The blade is of high quality special steel, blued, 8 points to the inch. Blade may be adjusted any angle to the back. Handle constructed to permit mounting on a pole, enabling the user to operate from the ground. 8 points to the inch. (See page 235.) No. 9 TAPERED

It is ½ inch wide, 5 inch thick, and accommodates a 20-inch blade. It is 1½ inches deep from blade to back on the point and 5 inches at the butt.

This blade is 3/4 inch wide, finished bright and is made of Atkins High-Grade Special Steel. The handle has an extra large grip making it comfortable where a glove is used by the operator. Fastened to frame with two nickeled screws. 8 points to the inch. (See page 235.)

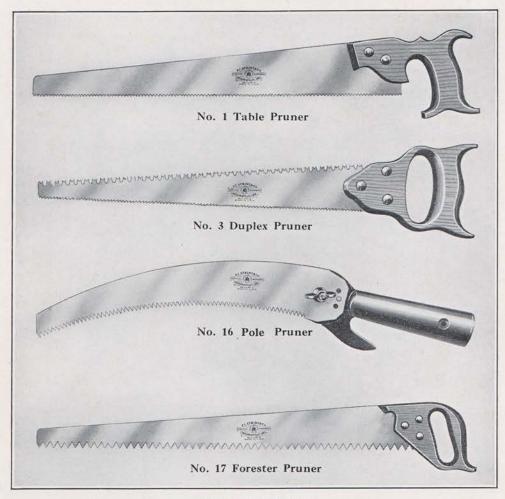
No. 10 TAPERED The frame is made of extra high quality spring steel, $\frac{5}{8}$ inch wide and $\frac{1}{4}$ inch thick. The blade is of our finest pruning saw steel, blued, 8 points to the inch. The handle is made of beech, thoroughly seasoned, highly finished and polished on the edges, fastened to the frame with two brass screws. Blade adjustable, will cut at any angle. 8 points to the inch. (See page 235.)

No. 11 TAPERED

Frame is of high-grade crucible steel, ¾ inch wide, ¾ inch thick. The blade may be used at any angle. Blued, 8 points to the inch. The handle is of our new Easy Grip Pattern, varnished on the edge, and fastened to the frame with three brass screws. 8 points to the inch. (See page 235.)

STEEL SAWS ATKINS SILVER

ATKINS PRUNING SAWS



No. 1 TABLE PRUNER

The blade is made of Atkins Silver Steel and, therefore, has unusual edge holding qualities. In 20-inch length, the blade is 25% inches at the handle and 1 inch at the point. Handle of fine hardwood, thoroughly seasoned. Varnished edge and fastened to blade with two brass screws. 8 points to the inch.

No. 3 DUPLEX PRUNER

Made of Atkins Silver Steel, specially hardened and tempered. Will require very little refiling. Toothed on one edge with tuttle shaped tooth for extra heavy coarse work and with fine tooth on the opposite edge for fine cutting. The handle is of thoroughly seasoned, air-dried applewood, finely finished, varnished edge, Easy Grip Pattern, fastened to the blade with three brass screws. 8 points to the inch on one side; tuttle tooth on other side. No. 2 is same pattern as No. 3 except Sheffield quality. Nos. 1, 2 and 3 saws packed one-third dozen in box.

Length,inches	12	14	16	18	20	22	24	26
Price, No. 1per dozen	\$18.85	\$19.30	\$20.30	\$21.60	\$23.60	\$25.50	\$27.35	\$29.35
Price, No. 2per dozen	12.55	13.25	13.80	14.80	15.80	17.20		
Price, No. 3per dozen	19.50	20.40	21.50	22.80	24.75	26.45		
Price, No. 16per dozen	26.90							
Price, No. 17 per dozen								24.00
Weight, No. 1, per dozenpounds	71/2	81/6	9	101/4	11	1134	121/4	13
Weight, No. 2, per dozenpounds	7 ~	8	9	10	111/6	13	141/2	
Weight, No. 3, per dozenpounds	71/2	8	.9	10	11	12		
Weight, No. 16, per dozenpounds	and the state of	name of Reservoir	12	Sec. 22.22				******
Weight, No. 17, per dozen pounds								12

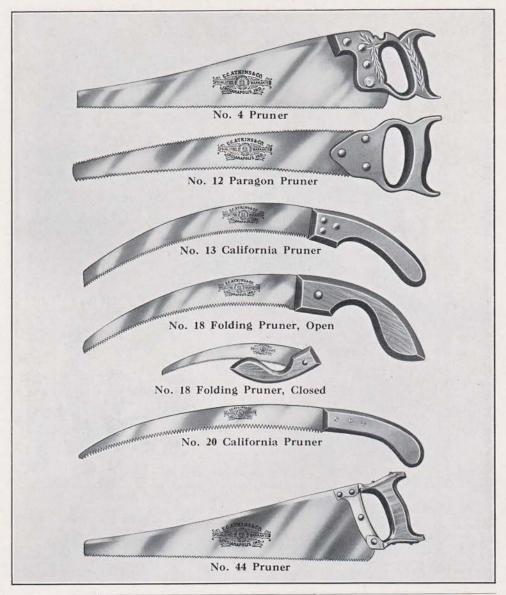
ATKINS No. 16 "AAA" POLE TREE PRUNER
A 16-inch curved blade with peg teeth, fastened to the casting by use of a 5-16 bolt and wing nut. Three holes in butt end of blade work in a peg, so that the blade may be changed to cut at any angle. Blade of Silver Steel.
Packed one-third dozen in a carton.

ATKINS FORESTER PRUNING SAW No. 17

A splendidly constructed Pruning Saw that sells on sight, because it appeals to the good judgment of buyer and user-Packed one-half dozen in a box.

ATKINS SILVER STEEL SAWS

ATKINS PRUNING SAWS



Lengthinches	12	14	16	18	20	22
Price, No. 44 per dozen Price, No. 4 per dozen Price, No. 12 per dozen Price, No. 13 per dozen Price, No. 18 per dozen Price, No. 20 per dozen	\$21.85 13.55 14.20 13.55	\$23.05 14.55 15.80 14.55	\$24.50	\$20.20 26.05	100000000000000000000000000000000000000	
Weight, No. 44, per dozen pounds Weight, No. 4, per dozen pounds geight, No. 12, per dozen pounds Weight, No. 13, per dozen pounds Weight, No. 18, per dozen pounds Weight, No. 19, per dozen pounds	8½ 8 6½ 5	1034 83½ 7 534	101/2	14	16 15 12¼	121/2

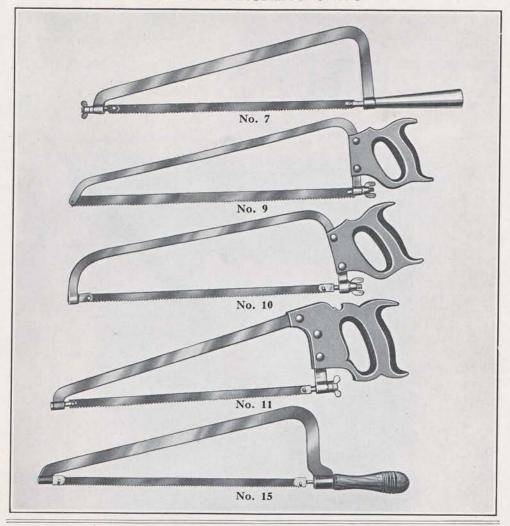
Nos. 12 and 13 saws packed one-third dozen in box. Nos. 4, 18, 44 and 20 saws packed one-half dozen in box.

ATKINS SILVER



STEEL SAW

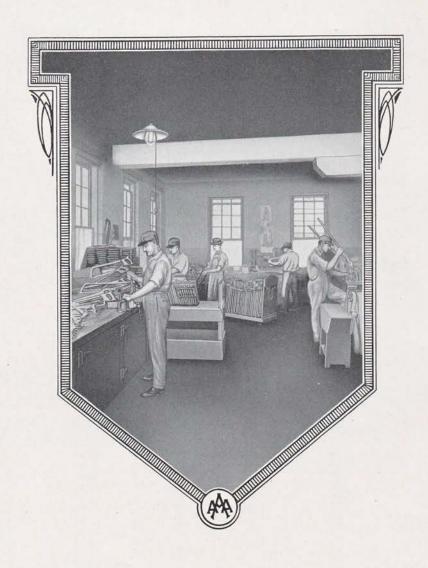
ATKINS PRUNING SAWS



16	1417			
	141/4	20	\$26.90	\$3.45
18	161/4	211/6	28.60	4.00
20	181/4	231/4	30.25	4.60
22	201/4	251/2		5.30
20	191/2	211/2		5.30
14	111/2	191/2		2.80
16	131/2	211/4		3.45
18	151/2			4.00
				4.60
				3.45
	(5) (2.6 m)			4.00
				4.60
				5.30
				3.45
	20 22 20 14	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

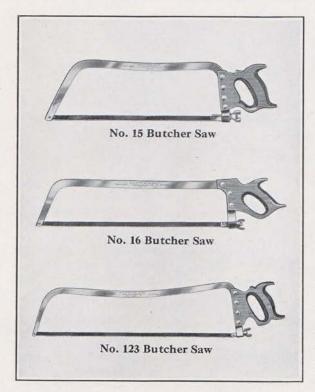
Nos. 7 and 15 saws packed one-sixth dozen in box. Nos. 9, 10 and 11 saws packed one-third dozen in box. Blade measurements are from center to center of holes.

ATKINS BUTCHER and KITCHEN SAWS





ATKINS BUTCHER SAWS



ATKINS No. 15

Frame of Special Spring Steel, in lengths of 16 inches to 20 inches; the dimensions are \(^{7}\epsilon\) inch wide and \(^{1}\epsilon\) inch thick, in lengths of 22 inches to 28 inches, 1 inch wide and \(^{1}\epsilon\) inch thick. Blade of blued Silver Steel. \(^{1}\epsilon\) inch wide and 13 points to the inch. Blade detachable, easily adjusted. Varnished hardwood handle fastened to blade with four nickel-plated screws.

ATKINS No. 16

Blade may be instantly removed by turning thumb screw. A most convenient adjustment. Frame 1 inch by ¼ inch, made of Spring Steel. Very rigid. Hardwood handle, not varnished, fastened to frame by three nickeled screws. ¾ inch pinned blades of Silver Steel, 11 points to the inch. Nicely finished throughout.

ATKINS No. 123 BUTCHER SAW

Frame of Special Spring Steel, $\frac{7}{8}$ inch wide and $\frac{1}{4}$ inch thick. Blade of Silver Steel, blued, $\frac{1}{2}$ inch wide. It will receive a very sharp cutting edge and will hold it for a remarkable length of time. 13 points to inch.

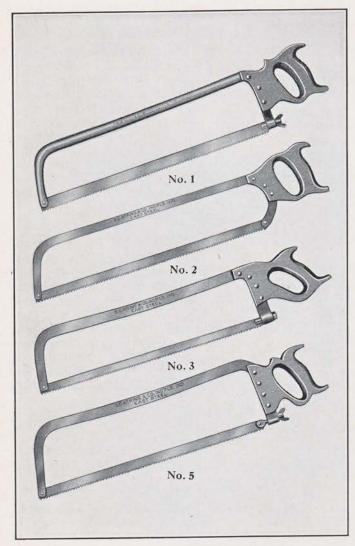
The handle is made of thoroughly seasoned beech with a varnished edge and is our easy grip pattern. It is fastened to the frame by four nickel-plated screws which make a very strong and rigid finish.

Lengthinches	14	16	18	20	22	24	26	28	30
Price, No. 15per dozen Price, No. 16per dozen Price, No. 123per dozen	\$23.95	\$25.50	\$27.25	\$29.00		32.45	\$43.60 34.20 48.65		\$37.65
Weight, No. 15, per doz., pounds Weight, No. 16, per doz., pounds Weight, No. 123, per doz., pounds	241/4	26	273/4	291/2		33½ 33 33	35 34¾ 34½	36¼ 36 36	

The above saws are packed one-third dozen in a box.

ATKINS SILVER STEEL SAWS

ATKINS BUTCHER SAWS



ATKINS No. 1

Frame is of Atkins Special Spring Steel. Finished oval, $\frac{3}{4}x\frac{3}{8}$ inch. Blade is of Atkins Silver Steel, finished bright. Handle is Easy Grip Pattern, made of seasoned beech, varnished edge, fastened to frame with three nickeled screws. 11 points per inch.

ATKINS No. 2

This is a flat frame, made of Atkins Special Spring Steel, 3% inch wide and 1/4 inch thick. Blade of Atkins Special Steel, 3/4 inch wide, finished bright. Beech handle, with varnished edge, fastened to frame with three blued wood screws. 11 points per inch.

ATKINS No. 3

Flat back, square edge, 1 inch wide and ½ inch thick. Blade of Atkins Silver Steels will hold its sharp cutting edge. Finished bright, ¾ inch wide. Handle of thoroughly seasoned beech, varnished edges, fastened to frame with four nickeled screws. The tension on blade is secured by use of a hexagon nut. 11 points per inch.

ATKINS No. 5

The frame is made of Atkins Special Spring Steel, square edge, 1 inch wide and

1/4 inch thick. The blade is of Atkins Silver Steel, blued, 3/4 inch wide. Thoroughly seasoned beech handle, Easy Grip Pattern, varnished edges, fastened to frame with four nickeled screws. 11 points per inch.

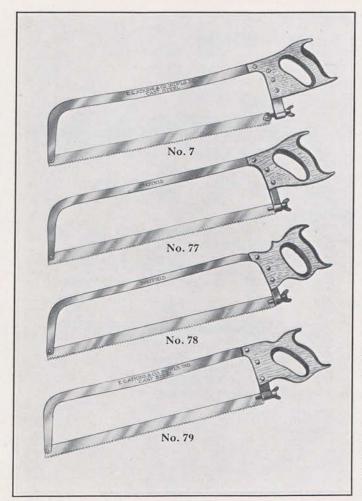
Lengthinches	14	16	18	20	22	24	26	28
Price, No. 1 per dozen	\$25.00	\$26.20	\$27.80	\$29.50	\$31.20	\$32.85		111111
Price, No. 2 per dozen	20.45	21.70	22.95	24.30	25.55	26.80		
Price, No. 3 per dozen	23.95	25.50	27.25	29.00	30.65	32.55	\$34.20	\$35.95
Price, No. 5 per dozen	211111		35.80	37.20	38.65	40.10	43.60	
Weight, No. 1, per dozen pounds	24	25	26	27	28	29	1000000	1000000000
Weight, No. 2, per dozen pounds	131/6	161/2	191/2	221/2	251/2	281/2	1555555	(8/20/8/20/20
Weight, No. 3, per dozen pounds	25	273/4	301/2	333/4	361/4	39	423/4	$45\frac{1}{2}$
Weight, No. 5, per dozen pounds			31	36	38	40	42	****

The above saws are packed one-third dozen in a box. Blade measurements are from center to center of holes.

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(AA)

ATKINS BUTCHER SAWS



ATKINS No. 7

Frame is Atkins Special Spring Steel, flat back, square edge, 1 inch wide and ¼ inch thick. Blade is Atkins Silver Steel, 5% inch wide, finished bright. Handle is thoroughly seasoned beech, varnished edges, fastened to frame with four nickeled screws.

ATKINS No. 77

Flat back frame square edge made of fine spring steel, ¾ inch wide, ¼ inch thick. The blade is Atkins Special Steel, finished either bright or blue, as specified, ¾ inch wide. Beech handle with sanded sides, varnished edges. Fastened to frame with three nickeled screws.

ATKINS No. 78

Frame is fine spring steel, flat back and square edge, ¾ inch wide and ¼ inch thick. Blade is of Atkins Special Spring Steel and blued finish,¾ inch wide. Handle is thoroughly sea-

soned beech. Easy Grip Pattern, varnished edges, fastened to the frame with three nickeled screws.

ATKINS No. 79

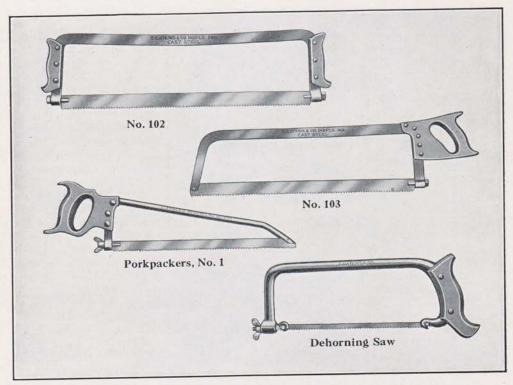
Fine quality spring steel, flat with square edges, frame 1 inch wide and ¼ inch thick. Blade is Atkins Silver Steel, ¾ inch wide, finished bright. Handle of beech, finely finished, Easy Grip, varnished edges, fastened to frame with three nickeled screws.

Lengthinches	14	16	18	20	22	24	26	28	30
Price, No. 7per dozen	\$23.95	\$25.50	\$27.25	\$29.00	\$30.65	\$32.45	\$34.20	\$35.90	
Price, No. 77 per dozen	16.70	17.70	18.85	20.10	21.30	22.50	23.70	24.90	\$26.00
Price, No. 78 per dozen	18.60	19.70	20.95	22.20	23.45	24.65	26.00	27.25	28.50
Price, No. 79per dozen	23.95	25.50	27.25	29.00	30.65	32.45	34.20	35.90	
Wt., No. 7, per doz., pounds	241/4	26	273/4	291/2	311/4	33	343/4	36	
Wt., No. 77, per doz., pounds	201/4	221/2	243/4	27	291/4	311/6	3334	36	381/4
Wt., No. 78, per doz., pounds	16	201/4	211/2	$25\frac{3}{4}$	30	341/4	381/2	423/4	47
Wt., No. 79, per doz., pounds	263/4	291/4	3134	341/4	3634	391/2	43	451/2	48

The above saws are packed one-third dozen in a box. All the above Butcher Saws have 11 points to the inch. Blade measurements are from center to center of holes.

STEEL SAW ATKINS SILVER

ATKINS BUTCHER SAWS—Silver Steel



ATKINS DOUBLE END BEEF SPLITTING SAW, No. 102

Flat steel back, square edge, $1\frac{1}{4}$ x $\frac{5}{16}$ inches. Heavy Silver Steel Blade, bright, $1\frac{3}{4}$ inches wide. 9 points to the inch. Three nickeled screws in each handle. Packed one in a box. Blade measurements are from center to center of holes.

Lengthinches		26	28	30	32	34	36
Length each Price, complete each Price, blades only per dozen		\$ 6.75 11.65	\$ 7.05 12.05	\$ 7.80 12.45	\$ 8.50 12.80	\$ 8.95 13.10	\$ 9.90 13.50
Price, blades onlypounds	6	6½	63/4	7	71/4	7½	81/2

ATKINS SINGLE HAND BEEF SPLITTING SAW, No. 103

Flat back, $1\frac{1}{4}$ x $\frac{5}{16}$ inches, square edge. Round eye, round tension spring, hexagon nut, Silver Steel Blade, $1\frac{1}{4}$ inches wide. 9 points to the inch. Beech handle. Five nickeled screws. Packed one-sixth dozen in a box. Blade measurements are from center to center of holes.

Length inches	24	26	28	30	32	34	36
Length		\$49.25 11.65	\$50.25 12.05	\$53.90 12.45	\$56.50 12.80	\$59.25 13.10	\$61.95 13.50
Weight, each pounds	51/4	51/4	61/4	63/4	71/4	73/4	81/4

ATKINS PORKPACKERS' SAW, No. 1

Oval steel back, $\frac{5}{8}$ x $\frac{3}{8}$ inch. Silver Steel, blued clock spring blade, $\frac{3}{4}$ inch wide. 11 points to the inch. Beech handles. Three nickeled screws. Packed one-third dozen in a box. Blade measurements are from center to center of holes.

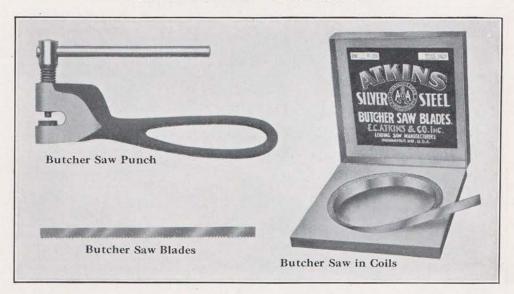
TROUGH ST.	inches	14	16	18
Length	per dozen	\$24.80	\$26.20	\$27.55
Price.	nounde	181/2	19	22
Weight, per dozen				

ATKINS DEHORNING SAWS

Japanned, malleable iron frame, beech handle, complete. Blade, ¼ inch wide. 12 points to the

inch.	Packed six in a box.	01/
	inches per dozen per dozen per dozen	
Price, o		
	only	374

ATKINS BUTCHER SUPPLIES



ATKINS BUTCHER SAW BLADES IN COILS

These blades in coils are made of Atkins Silver Steel—our exclusive formula. This steel is given an extremely high gas temper so that while it is flexible, it is at the same time sufficiently tough to withstand hard usage.

Atkins Butcher Saw Blades will take an exceedingly keen, sharp cutting edge and do not require frequent filing and setting. Blades are set and sharpened, and in perfect condition for use. Furnished either bright or blued, as specified.

They are packed in an attractive box, handsomely labeled. Shipped in coils of 25 feet, unless otherwise specified.

Widthinches	3/8	1/2	5/8	3/4	7/8	1	11/8	11/4	11/2
Gauge	25	24	24	23	23	23	23	23	22
Number of points	14	13	11	11	11	10	10	10	9 or 10
Priceper foot				\$0.25	\$0.28	\$0.30	\$0.34	\$0.37	\$0.45

ATKINS BUTCHER SAW BLADES

For convenience, we also furnish butcher saw blades cut standard lengths. These blades are of the same perfectly tempered Silver Steel as used in the coils and are finished either bright or blued, as desired. They are not punched on the end. Stock purchased in this way is punched by customer.

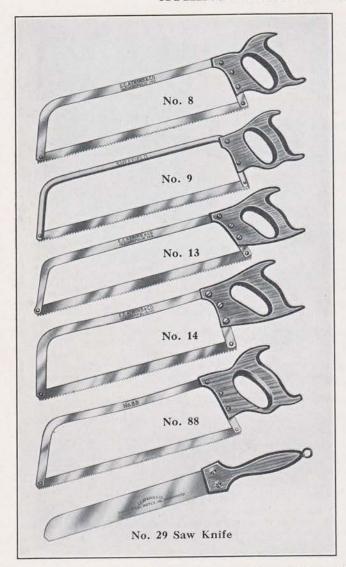
Packed one dozen in a box.

	3/4 TO	11/4 1	NCH	ES WI	DE, II	NCLU	SIVE				
Length								22 \$7.30	24 \$7.60		28 \$8.35
	1½ T	O 2 I	NCHI	ES WII	DE, IN	CLUS	IVE				
Length inches Price per dozen						28 5 \$9.7		30 .00 \$1	32 0.30	34 \$10.65	

ATKINS BUTCHER SAW PUNCH

On account of the variation in butcher saw frames, it is not practical to punch the blades prior to use. We, therefore, offer the Atkins Butcher Saw Punch, illustrated on this page.

ATKINS KITCHEN SAWS



No. 8 FLAT STEEL BACK

Flat back, $\frac{5}{8}$ x $\frac{3}{16}$ inch. Special steel blade, bright, $\frac{5}{8}$ inch wide. Beech handle, attached with three blued wood screws.

No. 9 OVAL STEEL BACK SHEFFIELD SAW WORKS

Oval back, ½ x ¼ inch. Special steel blade, bright, 5% inch wide. Beech handle, attached with two blued wood

No. 13 FLAT STEEL BACK

screws.

EXTRA HIGH GRADE

Flat back, $\frac{5}{8}$ x $\frac{3}{16}$ inch. Silver steel blade, bright, $\frac{3}{4}$ inch wide. Beech handle, attached with three nickeled wood screws.

No. 14 FLAT STEEL BACK

EXTRA HIGH GRADE

Flat back, ¾ x ¼ inch. Silver steel blade, bright, ¾ inch wide. Beech handle, attached with three nickeled wood screws.

No. 88

Atkins No. 88 Kitchen Saw, made of special steel, flat back. $\frac{1}{2}$ x $\frac{3}{16}$ inch. Supplied with a $\frac{5}{8}$ -inch bright blade. Handle is attached to back with three

blued screws.

Nos. 8, 9, 13, 14 and 88 packed one-half dozen in a box.

No. 29 SAW KNIFE

Blade of Silver Steel, toothed 10 points to the inch on one edge, other edge beveled for cutting. Applewood handle, varnished edges. A household necessity.

Packed one dozen in a box. Price, per dozen, \$10.75. Weight, per dozen, 5 pounds.

Length inches	12	14	16	18
Drice No 2 per dozen	\$ 6.80	\$ 7.05	\$ 7.40	
Price, No. 8. per dozen Price, No. 9. per dozen	6.55	6.90	7.15	****
Price, No. 13. per dozen	10.00	10.95	11.80	12.80
Price, No. 14 per dozen	13.85	14.75	15.70	16.60
Price, No. 88 per dozen	6.50	7.00	7.50	121777
Weight, No. 8, per dozen pounds	115/8	121/4	13½	10000
Weight, No. 9, per dozen pounds	10	11	12	
Weight, No. 13, per dozen pounds	12	135/8	15	16
Weight, No. 14, per dozenpounds	171/2	19	$20\frac{1}{2}$	213/4

KITCHEN SAW BLADES-5/8 INCH WIDE

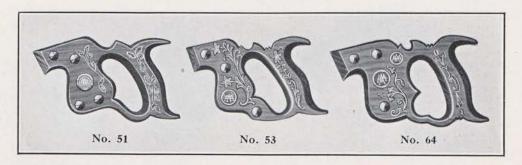
th. ...inches 12 14 16 18 20 22

...per dozen \$1.75 \$2.05 \$2.40 \$2.75 \$3.00 \$3.35

Above blades are set and sharpened, but not filed. They are ready for use. All have 11 points to the inch. Blade measurements are from center to center of holes. Length.

ATKINS HAND SAW HANDLES

PRICE DOES NOT INCLUDE SCREWS



Lengthinches	16, 18, 20	22, 24	26	28
Nos. 50, 51, apple per dozen	\$ 8.60	\$ 9.20	\$ 9.80	\$10.55
No. 64, apple per dozen	13.20	13.80	16.15	16.60
Nos. 52, 53, 65, 93, apple per dozen	10.05	10.80	12.50	13.10
No. 54, beech per dozen	5.70	5.70	6.20	6.90
No. 56, cherry per dozen	7.80	8.40	9.30	10.40
Nos. 57, 60, beech per dozen	3.05	3.20	3.60	4.00
No. 58, beech, varnished edgesper dozen			3.60	
No. 58, beech, unvarnished per dozen			3.15	
No. 59, beechper dozen	4.05	4.20	4.40	4.95
No. 62, beech per dozen	3.05	3.20	3.55	4.00
No. 400, rosewood per dozen	28.40	30.25	33.00	35.80

MITRE BOX SAW HANDLES

	18-24 in.	26-32 in.
No. 1, appleper dozen	\$9.20	\$10.05

BACK SAW HANDLES

	8-12 in.	14-18 in.	20-24 in.
No. 2, appleper dozen	\$6.55	\$7.05	
No. 3, beechper dozen		3.25	\$3.25

COMPASS SAW HANDLES

No. 2, apple per dozen	\$6.20
No. 3, beech. per dozen	3.40
No. 10, Interchangeable, beech per dozen	3.65
No. 10, Interchangeable, beech per dozen No. 8, beech, varnished edge per dozen	2.50

BUTCHER SAW HANDLES

No. 1, beech	\$3.90
No. 2, beech	3.75
No. 5, beech. per dozen	4.00
No. 7, beechper dozen	
No. 3, kitchen, beech per dozen	3.40

PRUNING SAW HANDLES

No. 1, beech.	per dozen	\$3.65
No. 2, beech.	per dozen	3.65

All handles furnished slotted for blade; not bored unless specified. Screws for all handles extra. Price, per gross, see page 244. Saw handles put up one dozen in a box.

ATKINS SAW SCREWS

BRASS

PRICES

No.	Description	Diam. Inches	Weight per Gross Lbs.	Price per Gross
21 11	AAA medallion	1	5 4	\$9.70 8.30
10 20 30	Eagle medallion *Iron raised head	$1\frac{1}{1/2}$	3½ 5 3¾	8.50 9.60 3.50
31 1 2	Oval head	1/2 1/2 9	3 23/4 31/4	6.30 5.30 6.05

^{*}The No. 30 is iron.

These screws are put up one dozen in small pasteboard boxes and one dozen of these boxes are packed in a large carton.

ASSORTMENTS

We also put up two assortments of screws in a most convenient and salable form, as follows:

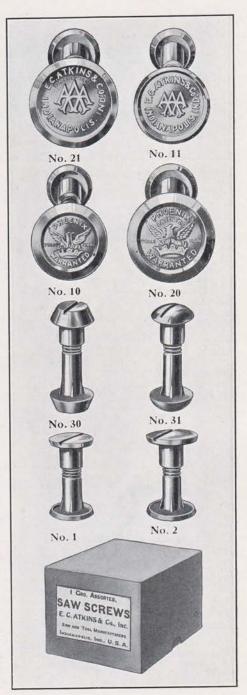
Assortment No. 1 consists of a carton containing 36 small boxes, each box containing three No. 1 and one No. 10 brass saw screws, and is adapted for the use of carpenters who want screws for panel saws and the cheaper grade of hand saws.

Assortment No. 2 consists of a carton containing 36 small boxes, each box containing three only No. 2 and one only No. 20 brass saw screws and is adapted for high-grade hand and rip saws.

Assortment No. 3: Three No. 1, three No. 2, and one each 30, 31, 20, 10, 21, 11.

LIST PRICES

No.	1 assortment, each carton containing one gross assorted as above $(36\ boxes)\ldots\$6.60$
No.	2 assortment, each carton containing one gross assorted as above $(36\ box{oxes})\dots\dots$ 6.90
No.	3 assortment, each carton containing 12 boxes (1 dozen in box)





ATKINS SILVER STEEL TROWELS

The quality of our famous Silver Steel, from which our saws are made, is particularly adapted for use in trowels. After the perfection of Silver Steel, we naturally looked about for other fields in which this extremely high-grade saw steel would give equally good service. An important tool, the trowel, was suggested. In this article we found just what we wanted, a tool that required a straight, true edge and a finely tempered, well balanced and perfectly finished blade that would stand the most severe usage.

A thorough study of trowel uses enabled our expert designers to construct Silver Steel trowels for various purposes. And they have no superior.

It is with pride that we offer this complete line of trowels for your selection.

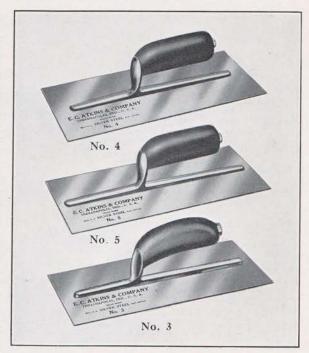
The designs are of improved patterns developed by years of experience.

The mountings are attached to the blade with perfect steel rivets of the best quality.

best quality.

The workmanship is as fine as skilled mechanics and clever mechanical ideas can make it.

The sizes and patterns of trowels shown in this catalog are standard, but they will be made in any length, width or gauge desired. Without a doubt they



or gauge desired. Without a doubt they are the "Finest on Earth," a worthy addition to the Atkins Silver Steel line.

No. 4 SILVER STEEL FINISHING—INDIANA PATTERN

Slightly tapered handle, natural finish. Mounting is cast steel, with 10 rivets.

Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen
10 10½	4½ 4½ 4½	5½ 5¾	\$27.90 29.00	12½ 13	514	71/4	\$34.40 37.30
11	434	6	30.25	14	6	814	40.85 43.60
$\frac{11}{11\frac{1}{2}}$	43/4 43/4 43/4-5	6 6 ¹ / ₄ 6 ³ / ₄	30.25 31.75 33.20	14 16	6	8½ 8¾ 8¾	

No. 5 SILVER STEEL BROWNING

21 GAUGE

Length	Width	Weight per	Price per	Length	Width	Weight per	Price per
Inches	Inches	Dozen, Pounds	Dozen	Inches	Inches	Dozen, Pounds	Dozen
11½ 11½	43/4	61/4	\$31.75 31.75	12 12	43/4	63/4	\$33.15 33.15

Same as No. 4, except heavier blade for browning.

No. 3 SILVER STEEL TROWEL

Width Inches	Weight per Dozen, Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen
4½ 4½	5½ 5¾	\$28.50 29.60	12½ 13	51/4 51/2	7½ 7¾ 7¾	\$35.00 37.95
43/4 43/4	6 61/4	30.90 32.40	14 16	6	8½ 8¾ 8¾	41.50 44.25
	Inches 4½ 4½ 4½ 4¾ 4¾	Inches Dozen, Pounds	Inches Dozen, Pounds Dozen	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Same as No. 4, excepting curved handle. Easy grip pattern.

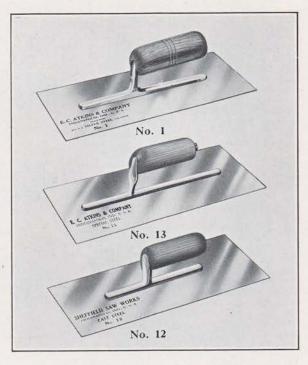
ATKINS PLASTERING TROWELS

No. 1

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	41/2	6	\$25.85
$10\frac{1}{2}$	$4\frac{1}{2}$	61/4	25.85
11	434	61/2	27.95
$\frac{11\frac{1}{2}}{12}$	43/4.5	63/4	29.55 31.15
121/2	51/	8	32.65
13	51/2	9	34.15
14	6	10	35.70
16	6	101/2	37.30

No. 13

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10 10½ 11 11½	4½ 4½ 4¾ 4¾ 4¾	5 ³ / ₄ 6 ¹ / ₂ 6 ³ / ₄ 7	\$18.60 18.60 19.85 21.20
$\frac{12}{12\frac{1}{2}}$ $\frac{13}{13}$	4%, 5 51/4 51/2	7½ 7½ 8	22.20 23.65 24.80



No. 12 CAST STEEL

Length, Inches	Width, Inches	Weight per Half Dozen, Lbs.	Price, per Dozer
$\begin{array}{c} 10 \\ 10\frac{1}{2} \\ 11 \\ 11\frac{1}{2} \\ 12 \end{array}$	4½ 4½ 4½ 4¾ 4¾ 4¾,5	6 6¼ 6½ 7 7¼	\$14.75 14.75 14.75 15.70 16.80

All above packed one-half dozen in a box.

No. 1 SILVER STEEL FINISHING

We make these in lengths of $10, 10\frac{1}{2}, 11, 11\frac{1}{2}, 12, 12\frac{1}{2}, 13, 14$ and 16 inches. Widths, $4\frac{1}{2}$, $4\frac{3}{4}$, 5, $5\frac{1}{4}$, $5\frac{1}{2}$, 6 and $6\frac{1}{2}$ inches. Handle, straight, natural wood finish. Malleable iron mounting, attached with 5 rivets.

No. 13 SPECIAL STEEL

This blade is nicely polished and of superior construction throughout. Lengths, 10, 10½, 11, 11½, 12, 12½ and 13 inches. Widths, 4½, 4¾, 5, 5¼ and 5½ inches. Stained, tapered handle. Malleable iron mounting, attached with 7 rivets.

No. 12 SHEFFIELD SAW WORKS

Made in lengths of 10 to 12 inches. Widths, 4½ to 5 inches. Sheffield quality. Handle, straight pattern, stained yellow. Malleable castings, 3 rivets.

ATKINS SILVER STEEL SAWS

ATKINS CEMENT TROWELS

No. 6 EDGING

SILVER STEEL WARRANTED

A special trowel for edging cement walks.

11½ inches long, 4¾ inches wide. Weight, 11¾ pounds per dozen.

Priceper dozen \$34.40
Packed one-half dozen in a box.

No. 7 CURBING

Silver Steel Blade, 10 inches long, 5 inches wide, 5 inches deep, 1½ inches radius. Weight, 36 pounds per dozen. Packed 2 in a box.

Price.....per dozen \$45.10

Other sizes made to order. Prices on application.

No. 8 RADIUS

Silver Steel Blade, 8 inches long, 2½ inches radius, ¼ round. Weight, 16½ pounds per dozen. 2 in a box.

Price.....per dozen \$45.10

Other sizes made to order. Prices on application.

No. 9 GUTTERING

Silver Steel Blade, 10 inches long, 5 inches wide, 5 inches deep, 1½ inches radius

This trowel will be furnished with either style handle.

Weight, 42 pounds per dozen. Packed 2 in a box.

Other sizes made to order Prices

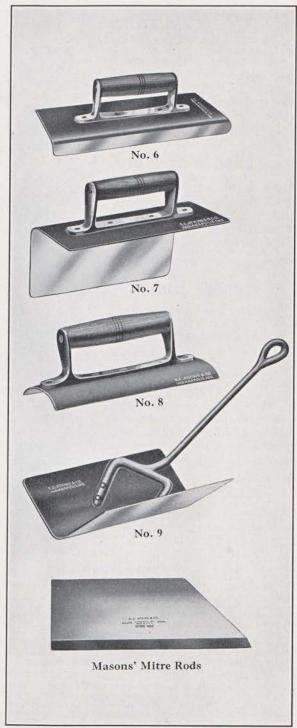
Other sizes made to order. Prices on application.

MASONS' MITRE ROD

Made of Silver Steel, tempered, highly polished. One straight edge, beveled and one end cut with 45-degree angle. Furnished in lengths of 4 to 24 inches, widths of 3½ to 5 inches, gauges of 16 to 13, width of bevel ½ to ¾ inch. Prices on application.

PLASTERERS' MITRE RODS

B/P No.	Lgth. In.	Wth. In.	Gauge	Wth. Bevel In.	Thick. Bevel In.
2 3	4	31/2	16065	1/2	1/2
4	8	31/2	16065 16065	1/2	32
5	10	31/2	16065 15072	5/8	32
7 8	14	4	15072 14083	34	32 32
9	18	414	14083	34	32 32
10	20 22	43/8	13095 13095	3/4	32
12	24	5	13095	3/4	37



ATKINS FLOOR SCRAPERS AND SPOKE SHAVES

No. 3 PERFECTION FLOOR SCRAPER

Patented Cam Blade adjustment. Sand blasted, maple handle, varnished and polished, 12 inches over all. Blade Silver Steel, beveled edges, 3 x 3 inches.

Price.....per dozen \$12.35

No. 4 RAMSHORN FLOOR SCRAPER

Scraper Block, white maple, varnished and polished, malleable face clamp, 12 inches over all. Blade, Silver Steel, beveled edges, 3 x 3 inches.

Price.....per dozen \$18.20

No. 5 FLOOR SCRAPER

Made of finest malleable, Japan finish, 11 inches over all. Blade, Silver Steel, beveled edges, $2\frac{3}{4}$ x $2\frac{1}{2}$ inches.

Price.....per dozen \$19.00

No. 6 SPOKE SHAVE

Made of finest malleable. Hand holds 1 inch wide, rounded and knurled. Other parts crucible steel, Japan finish, 11 inches over all. Blade, Silver Steel, beveled edges, 2½ x 1¾ inches.

Price.....per dozen \$5.75



CABINET SCRAPER BLADES ILLUSTRATED ON PAGE 249

Size		Price Si		Size	Price		Size	Price			
Gize	0	1	2		0	1	2		0	1	2
4 x 2 4 x 2½ 4 x 3 4 x 3½ 4 x 4	\$3.85 4.20 4.60 5.25 6.15	\$1.30 1.60 1.90 2.25 2.60	\$1.00 1.25 1.50 1.75 2.00	5 x 2 5 x 2½ 5 x 3 5 x 3 5 x 3½ 5 x 4 5 x 4½	\$4.35 4.70 5.10 5.80 7.10 7.65	\$1.60 2.00 2.40 2.80 3.20 3.60	\$1.25 1.60 1.90 2.20 2.50 2.80	6 x 2 6 x 2½ 6 x 3 6 x 3½ 6 x 4 6 x 4½ 6 x 5	\$5.00 5.40 5.70 6.70 7.70 8.55 9.40	\$1.90 2.40 2.90 3.40 3.80 4.30 4.75	\$1.50 1.90 2.25 2.65 3.00 3.40 3.75

No. 0 Silver Steel Cabinet Scraper Blades made in 18, 19 or 20 gauge with finished edges. Packed in individual glassine sacks to prevent scratching. No. 1 Special Steel sheared edges made 20 gauge only. No. 2 Common quality sheared edges made 19 gauge only. No. 0 Silver Steel Cabinet Scraper Blades, 19 gauge furnished unless otherwise specified.

 No. 0, price, for assortment.
 per dozen \$6.70

 No. 1, price, for assortment.
 per dozen 3.35

 No. 2, price, for assortment.
 per dozen 1.70

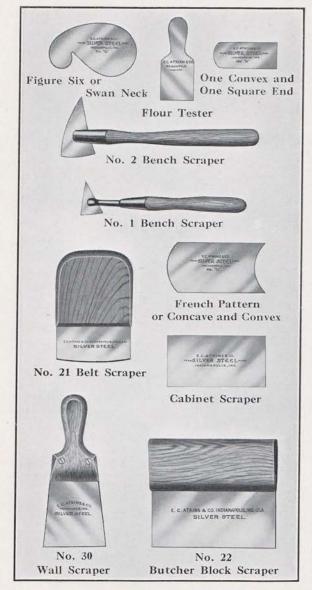
SPECIAL SCRAPER BLADES

SI EGI	The Court	
Perfection 3 x 3 in., 16 gauge per dozen	\$4.60	No. 12, 121/2-S, 21/8 x 51/8 in., 17 gauge per dozen \$4.85
refrection 3 1 3 In., 10 gauge per	4 00	No. 80-S, 2½ x 2¾ in., 18 gaugeper dozen 2.50
Ramshorn 3 x 3 in., 19 gauge per dozen	4.00	10. 60-5, 272 A 274 m., 10 gauge per dozen 2.55
Floor, No. 5 23/4 x 21/2 in., 16 gauge per dozen	3.10	No. 81-S, 21/2 x 4 in., 18 gaugeper dozen 3.50
Floor, 10. 5 274 1 272 m., 10 gauge per dozen	0.00	No. 83-S 21/2 x 3 1/8 in., 19 gauge per dozen 3.50
Spake Shave No 6 24 vist in 17 gauge per dozen	2.00	140. 00-0,

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ATKINS SCRAPERS



No. 1 BENCH SCRAPER

14 inches over all. Socket 6½ inches long, threaded for ¾-inch square nut. Handle finely finished beech, shaped, 1½ inches in diameter, 7½ inches long. Flat blade, of 14 gauge tempered steel, beveled on three edges. 3¾ inches from point to point. Packed one-half dozen in box. Weight, 1 pound. Price.....per dozen \$11.10 Price, extra blades...per dozen 4.45

No. 2 BENCH SCRAPER

 $16\frac{1}{2}$ inches over all. Socket $3\frac{3}{4}$ inches long. Threaded for $\frac{3}{8}$ -inch Finely finished, shaped square nut. beech handle, 1½ inches diameter, 12½ inches long. Blade concave, 14 gauge tempered steel. Beveled edges. 5 inches from point to point. Packed one-half dozen in box. Weight, 10 ounces.

Price.....per dozen \$11.10 Price, extra blades...per dozen 5.55 One Convex and One Square End

1½ x 4 inches.....per dozen \$5.50
Made only in No. 0 Silver Steel
Quality Hand Finished Edges. Packed
12 to a box. Weight, per dozen, ½ pound.

FRENCH PATTERN

Made only in No. 0 Silver Steel Quality Hand Finished Edges. 2½x5 in., 18, 19 or 20 gauge. .doz. \$5.70 3 x5 in., 18, 19 or 20 gauge. .doz. 6.90 2½x6 in., 18, 19 or 20 gauge .. doz. 6.90 3 x6 in., 18, 19 or 20 gauge .. doz. 8.55 Packed 12 to a box. Weight, per dozen, 3 x 6 in. size, 2¼ pounds.

FIGURE 6 OR SWAN NECK

Made only in No. 0 Silver Steel Quality Hand Finished Edges.

3 x 5 inches, 20 gauge . . per dozen \$5.20 Packed 12 to a box. Weight, per dozen, 3×5 in. size, $1\frac{7}{8}$ pounds.

No. 30 WALL SCRAPER

3½ inches over all. Blade 5 inches by 4 inches, 5 inches by 3½ inches. Fastened to handle by two wood screws. Handle of finely finished hardwood, varnished. Packed one-half dozen in box. Weight, per dozen, 3½ in. size, 4½ nounds.

| 1002en | 1003. | Weight, per dozen, 372 in. size, 4½ pounds. | Price, 3½ in. | dozen \$6.30 | Price, 4 in. | dozen 2.50 | Price, 4½ in., blades only. | dozen 2.50 | Price, 4 in., blades only. | dozen 2.85

No. 22 BUTCHER BLOCK SCRAPER

No. 21 BELT SCRAPER

Made of Silver Steel. Quality handle selected, seasoned hardwood, finely finished. Blade 3 inches long by 4 inches wide, 16 gauge. Beveled edge. Convex. Polished. Packed one-half dozen in a box. Weight, 634 pounds, per dozen. per dozen 2.45 Extra for turning edges.

For special shaped handles, prices on application.

FLOUR TESTER

A finely finished practical tool for testing the quality of flour. Made of fine steel. Highly polished. Made and stocked in three sizes. Size over all, No. 1, 6 x $2\frac{1}{2}$ inches; No. 2, $6\frac{3}{4}$ x $2\frac{1}{2}$ inches; No. 3, $7\frac{1}{2}$ x $2\frac{5}{4}$ inches. Extra charge for all other sizes. Prices on application.

STEEL SAWS ATKINS SILVER

ATKINS CORN KNIVES

No. 1 SILVER STEEL

Length of blade, 15½ inches. Width at end, 2⅓ inches. Length over all, 22 inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen \$7.95 Weight, per dozen...pounds 11

No. 2 SPECIAL STEEL

Length of blade, 15½ inches. Width at end, 2¾ inches. Length over all, 22 inches. Blade black. White unvarnished handle. Num-ber of rivets, 3.

Priceper dozen \$6.95 Weight, per dozen ...pounds 12

No. 3 SILVER STEEL

Length of blade, 17½ inches. Width at end, 1½ inches. Length over all, 23 inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen \$7.30 Weight, per dozen...pounds 9

No. 4 SILVER STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, pol-ished bright. Varnished handle. Number of rivets, 3.

Price per dozen \$7.95 Weight, per dozen . . . pounds 12

No. 6 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade polished. Hardwood handle, natural finish. Number of rivets, 3.

No. 7 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, black Self-colored. Varnished handle. Number of rivets, 3.

Price per dozen \$6.95 Weight, per dozen . . . pounds 13

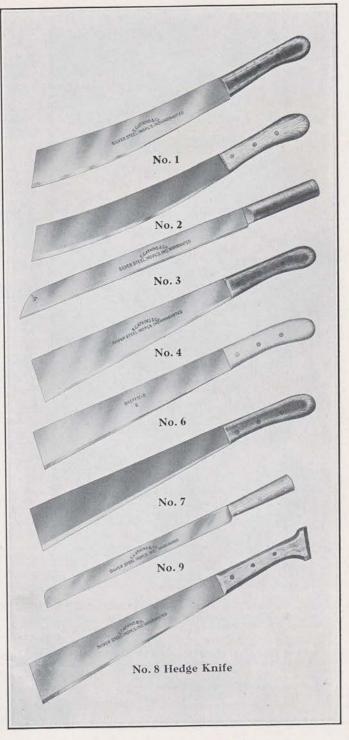
No. 9 SILVER STEEL

Length of blade, 1734 inches. Width at end, 1½ inches. Length over all, 24 inches. Blade, polished bright. Hardwood handle, natural finish. Number of rivets, 5.

Price.....per dozen \$9.20 Weight, per dozen...pounds 12

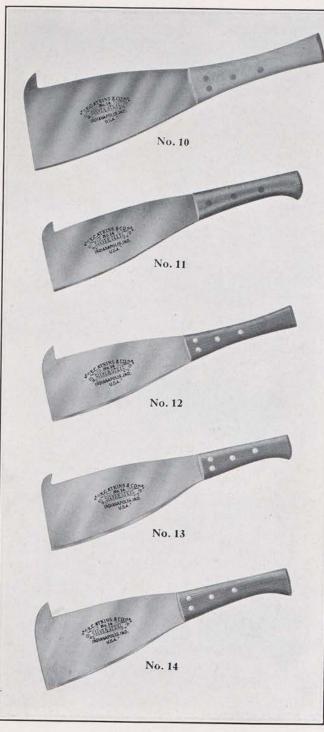
No. 8 HEDGE KNIFE SILVER STEEL

Length of blade, 15 inches.
Width at end, 3 inches. Length
over all, 21½ inches. Blade, polished bright. Handle, natural finish. Number of rivets, 3.
Price......per dozen \$8.80
Weight, per dozen - pounds 12
All above (excepting Nos. 3
and 9) are packed one-half dozen in
package. Nos. 3 and 9, one-half
dozen in pasteboard box.



ATKINS CANE KNIVES

SILVER STEEL



No. 10 CANE KNIFE

Length of blade, 11½ inches. Width at end, 6 inches. Width at handle, 2½ inches. Length over all, 20¼ inches. Number of rivets, 4. Weight, unpacked, per dozen, 13 pounds. 19 gauge.

Price.....per dozen \$11.75 Furnished with either straight or curved hook.

No. 11 CANE KNIFE

Length of blade, 10³4 inches. Width at end, 4¹/₂ inches. Width at handle, 1³/₄ inches. Length over all, 17³/₄ inches. Beech handle. Number of rivets, 3. Weight, per dozen, 9 pounds. 19 gauge. Price.....per dozen \$11.75

Furnished with either straight or curved hook.

No. 12 CANE KNIFE

Length of blade, 11½ inches. Width at end, 5½ inches. Width at handle, 2½ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 12 pounds. 19 gauge.

Price.....per dozen \$11.75

No. 13 CANE KNIFE

Length of blade, 12¾ inches. Width at end, 5⅓ inches. Width at handle, 2¼ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds. 17 gauge.

Price.....per dozen \$13.90

No. 14 CANE KNIFE

Length of blade, 11¾ inches. Width at end, 6¾ inches. Width at handle, 2½ inches. Length over all, 20¼ inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds. 18 gauge.

Price..... per dozen \$13.90 Above packed one dozen in box.

STEEL SAWS ATKINS SILVER

ATKINS CANE KNIVES

No. 15 CANE KNIFE

Length of blade, 141/4 inches. Width at end, 41/4 inches. Width at handle, 27% inches. Length over all, 213% inches. Hardwood handle. Number of rivets, 5. 17 gauge.

Price per dozen \$13.90
Weight, per doz pounds 20
If wanted 16 or 17 gauge
deduct 50 cents from list. If
wanted 18 or 19 gauge, deduct
\$1.00 from list.

No. 16 CANE KNIFE

Length of blade, 141/4 inches. Width at handle, 2½ inches. Length over all, 21½ inches. Hard wood handle. Number of rivets, 4. 15 gauge.

4. 15 gauge. Price.....per dozen \$13.90 Weight, per doz...pounds 18

No. 17 CANE KNIFE

Length of blade, 141/4 inches. Width at end, 6 inches. Width at handle, 21/4 inches. Length over all, 211/2 inches. Hardwood handle. Number of rivets, 4. 15 gauge.

Price per dozen \$13.90 Weight, per doz... pounds 18

No. 18 CANE KNIFE

Length of blade, 111/2 inches. Width at end, 5¼ inches. Width at handle, 2½ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. 19 gauge. No polish.
Price. per dozen \$10.49
Weight, per doz. . . pounds 14

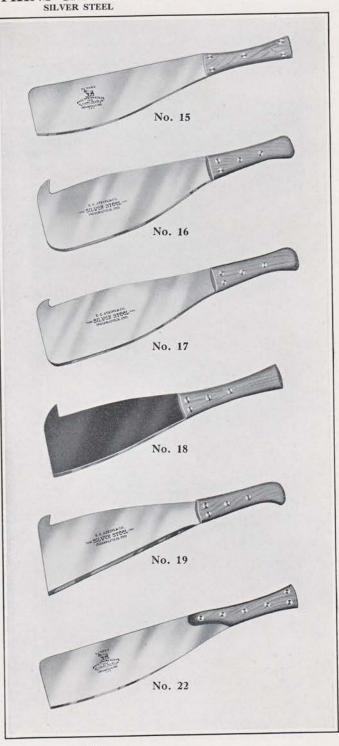
No. 19 CANE KNIFE

Length of blade, 131/4 inches. Width at end, 6 inches. Width at handle, inches. 2½ inches. Length over all, 20¼ inches. Hardwood handle. Number of rivets. 4. 17 gauge.

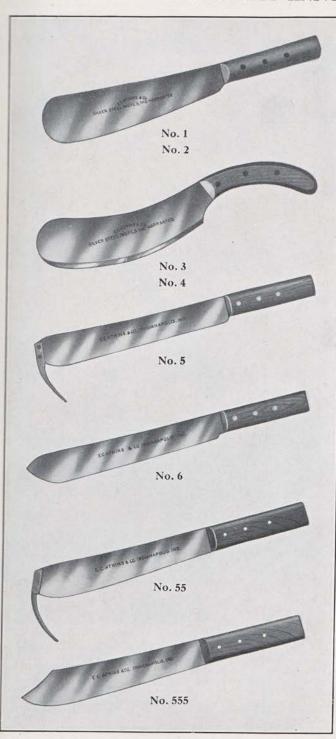
Weight, per doz...punds 17
Above packed one dozen in

No. 22 CANE KNIFE

Length of blade, 123/4 inches. Width at end, 4½ inches. Width at handle, 27% inches. Length over all, 213% inches. Hardwood sheep-nose handle. Number of rivets, 6. 17 gauge.
Price......per dozen \$14.70
Weight, per doz...pounds 20



ATKINS BEET KNIVES



No. 1 BEET KNIFE Silver Steel

Length of blade, 11½ inches. Width at widest part, 2¾ inches. Length over all, 17 inches. Straight blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3. Price, with hook... per doz. \$13.40 Price, without hook. per doz. 10.40 Weight, per doz.... pounds 10

No. 2 BEET KNIFE Silver Steel

11 gauge, otherwise the same as No. 1 Beet Knife. Price, with hook...per doz. \$14.45 Price, without hook.per doz. 11.45

No. 3 BEET KNIFE Silver Steel

Length of blade, 914 inches. Width at widest part, 234 inches. Length over all, 1515 inches. Curved blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.

Price, with hook...per doz. \$12.90 Price, without hook.per doz. 9.95 Weight, per doz....pounds 10

No. 4 BEET KNIFE Silver Steel

11 gauge, otherwise the same as No. 3 Beet Knife.
Price, with hook...per doz. \$13.90
Price, without hook.per doz. 10.90

No. 5 BEET KNIFE Special Steel

Length of blade, 1134 inches.
Width at widest part, 2 inches.
Length over all, 1834 inches.
Straight blade, 15 gauge. Hardwood handle, natural finish.
Der of rivets, 3.
Price, with hook...per doz. \$12.40
Price, without hook. per doz. 9.45
Weight, per doz....pounds

No. 6 BEET KNIFE Special Steel

Length of blade, 11½ inches. Width at widest part, 2 inches. Length over all, 18½ inches. Pointed curved blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3. Price, with hook. . . per doz. \$12.40 Price, without hook per doz. Weight, per doz. . . . pounds 9½

No. 55 BEET KNIFE Special Steel

Length of blade, 9½ inches. Width at widest part, 1½ inches. Length over all, 15 inches. Straight blade with prong, 15 gauge. Hardwood handle, natural finish. Wumber of rivets, 3. Price, with hook. . . per doz. \$11.40 Price, without hook. per doz. 8.45 Weight, per doz. . . . pounds

No. 555 BEET KNIFE Special Steel

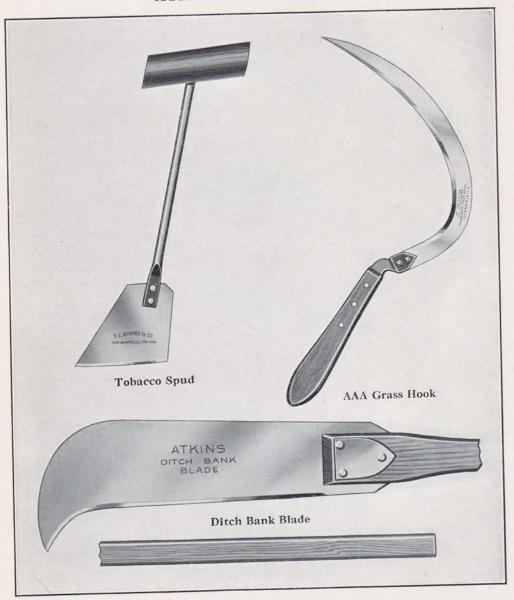
Special Steel

Length of blade, 9½ inches. Width at widest part, 1½ inches. Length over all, 15 inches. Pointed, straight blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.

Price, with hook...per doz. \$11.40 Price, without hook.per doz. 8.45 Weight, per doz....pounds 7 All above packed one-half dozen in box.

STEEL SAWS ATKINS SILVER

ATKINS SPECIALTIES



TOBACCO SPUDS, Crucible Steel Blades

No. 1. With angular blade, complete........per dozen \$7.15

Length over all 14½ inches, length of handle 10 inches. Width of blade at cutting edge 4 inches. Weight per dozen, 7 pounds. Packed ½ doz. in box.

ATKINS PERFECTION GRASS HOOK

ATKINS DITCH BANK BLADES

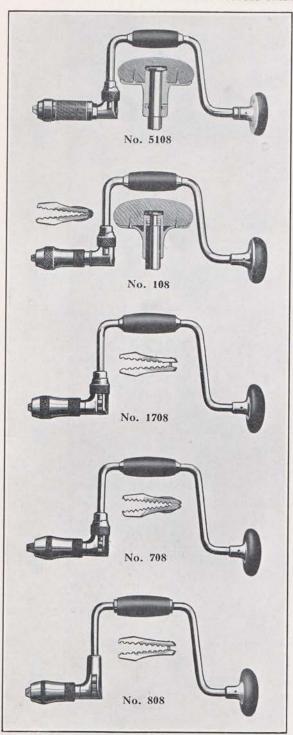
Made of Silver Steel—Atkins exclusive formula. Sharp cutting edge. An essential blade, designed for cleaning ditch banks of weeds, for plantation work, destroying hedges, brush on railroad rights-of-way, etc. Polished. Furnished with 4-foot handles if desired. Supplied with metal plate and rivets for handle. Specifications: Length, 21½ inches; width, 7½ inches; cutting edge, 18 inches; gauge 15.

Weight, per dozen blades, without handles....pounds 22 Packed, blades, plates and rivets only, one dozen in box. Packed complete with handles, one dozen in case.



ATKINS RATCHET BIT BRACES

ENCLOSED FRAME



These are in every sense high-grade, and exceptionally well made Bit Braces. All metal parts except the Jaws and Pawls are highly polished and nickel-plated. They have ball-bearing metal-clad Heads and both the Heads and Handles are of hardwood, neatly finished. The Chuck, Ratchet, and Quill are of carefully selected steel. The Sweep, of finished cold drawn steel. The Chuck is of an improved design, very strong, and is ball-bearing. It is fitted with forged steel Alligator Jaws, fastened together with a Spring, which will hold round shank drills from ½ to ½ inch, as well as regular bits with square taper shanks. In the Nos. 5112 and 5114, the Ratchet construction is especially heavy.

Sizes and Prices, Nos. 5108-5114

No. 5108, 8-inch sweepper dozen	\$73.60
No. 5110, 10-inch sweepper dozen	76.00
No. 5112, 12-inch sweepper dozen	78.35
No. 5114, 14-inch sweep per dozen	80.75
Packed one-sixth dozen in a box. A	pproxi-

mate weight, 10-inch size, 36 pounds per dozen.

Sizes and Prices, Nos. 108-114

No. 108, 8-inch sweepper dozen	\$57.20
No. 110, 10-inch sweepper dozen	58.75
No. 112, 12-inch sweepper dozen	61.15
No. 114, 14-inch sweepper dozen	63.50
Packed one-sixth dozen in a box. A	pproxi-
mate weight, 10-inch size 26 nounds nor	dozon

ATKINS RATCHET BIT BRACES EXPOSED GEARS

BRACES 1708, 708 AND 508

These Braces are well made, low priced tools, having the Ring Ratchet form of ratchet end. They are polished and nickel-plated, or aluminum finished. Heads and Handles of hardwood, ebonized. The Quill is fastened to the Head with screws. Fitted with cast steel Alligator Jaws which will hold all sizes of bits.

Sizes and Prices

No.	1708,	8-inch	sweepper	r dozen	\$37.30
No.	1710,	10-inch	sweepper	r dozen	37.85
No.	1712,	12-inch	sweepper	r dozen	38.65
			half dozen in a		
mate	e weig	ht, 10-ir	ich size, 28 pou	nds per	dozen.

No. 508 RATCHET BIT BRACES

Heavily nickeled. Ebonized or mahogany stained and polished hardwood head and handle. Metal-clad head. Not ball-bearing.

Sizes and Prices

No. 508, 8-inch sweepper dozen	\$41.30
No. 510, 10-inch sweepper dozen	41.55
No. 512, 12-inch sweepper dozen	
Packed one-sixth dozen in a box. A	pproxi-
mate weight, 10-inch size, 24 pounds per	dozen.

No. 708 RATCHET BIT BRACES Similar to Above but not Nickel-plated Sizes and Prices

No. 708, 8-inch sweepper dozen \$32.80
No. 710, 10-inch sweepper dozen 33.35
No. 712, 12-inch sweepper dozen 34.15
Packed one-half dozen in a box. Approxi-
mate weight, 10-inch size, 28 pounds per dozen.

ATKINS RATCHET BIT BRACES, No. 808

These Braces have the latch pawl style of ratchet ends. The sweep is of cold drawn steel. Hardwood head and handle, mahoganized. Blued finish pawls and cast steel alligator jaws. The head is screwed on and cemented in place. All metal parts polished.

No. 505, 5-inch sweepper dozen	\$23.80
No. 810, 10-inch sweepper dozen	24.35
No. 812, 12-inch sweepper dozen	
Packed one-half dozen in a box. A	pproxi-
mate weight, 10-inch size, 28 pounds per	dozen

ATKINS RATCHET BIT BRACES

EXPOSED AND ENCLOSED GEARS

ATKINS RATCHET BIT BRACES, No. 3408

These Braces are designed to meet the requirements of the trade for a Chuck which has the combination of a square taper socket in which the shank of the bit can be securely held while the pattern of jaws here shown serve to lock the bit firmly into the socket and center it. Head and Handle hardwood. Hardened steel Pawls. Full nickel-plated. Ball-bearing metal-clad head.

ATKINS RATCHET BIT BRACES, No. 3108 WITH ENCLOSED GEARS

Same as No. 3408 except that they have enclosed form of Ratchet construction, which makes it a superior tool.

No. 3408

140. 3400			
No. 3406, 6-inch sweep per dozen No. 3408, 8-inch sweep per dozen No. 3410, 10-inch sweep per dozen No. 3412, 12-inch sweep per dozen No. 3414, 14-inch sweep per dozen	56.15 58.25		

No. 3108

_		777	- CONTRIVEY
No. 3106,	6-inch sweepper	dozen	\$62.20
	8-inch sweepper	dozen	62.20
No. 3108,	8-men sweep Per	l'onon	63.80
No 3110	10-inch sweep per	dozen	
NI- 9119	12-inch sweep per	dozen	
NO. 3112,	14-inch sweep per	dogon	68.60

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 28 pounds per dozen.

ATKINS PLAIN OR SLEEVE BIT BRACES, No. 1908

These Braces are similar in design to the No. 1708 and No. 708 lines, but the Chuck is shorter and they are not quite so highly finished. The Heads and Handles are of hardwood, mahoganized. The Head is screwed on and cemented in place. Cast steel Alligator Jaws. Polished and nickel-plated.

Sizes and Prices, Nos. 1908-1912

No.	1908,	8-inch	sweepper	dozen	\$32.00 32.60
No.	1910,	10-inch	sweepper	dozen	33.35

Sizes and Prices, Nos. 68-72

No. 68, 8-inch sweep. No. 70, 10-inch sweep. No. 72, 12-inch sweep.	.,per dozen 21.00
---	-------------------

Similar to Nos. 1908-1912, but not nickel-plated. Packed one-half dozen in a box. Approxi-mate weight, 10-inch size, 28 pounds per dozen.

ATKINS PLAIN OR SLEEVE BIT BRACES, No. 34

Heavily nickel-plated. Plain, hardwood head and handle, ebonized. Not ball-bearing. A good, low priced brace.

Sizes and Prices, Nos. 34-39

No. 34, 8-inch sweep per dozen	\$23.85
No. 35, 10-inch sweep per dozen	24.00
No. 36, 12-inch sweep per dozen	23.13
No. 37, same, finely polished per dozen	18.80
No. 38 same, finely polished, per dozen	19.00
No. 39, same, finely polished per dozen	

Packed one-half dozen in a box. Approximate weight, 10-inch size, 24 pounds per dozen.

ATKINS PLAIN BRACES, No. 08

Low Price Plain or Sleeve Bit Braces

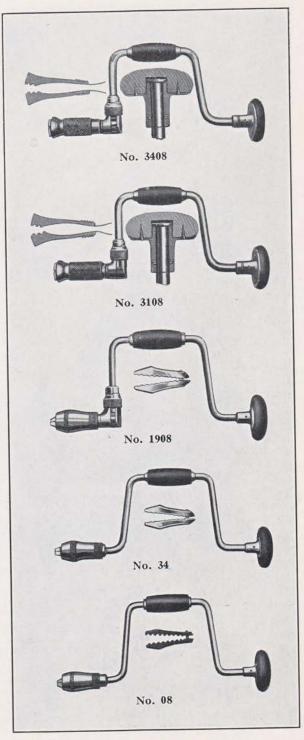
Polished. Cold drawn steel sweep. Head and handle, mahoganized. These are practical, low priced braces.

No. 08, 8-inch sweep. . . . per dozen \$13.50

No. 010, 10-inch sweep per dozen 13.75

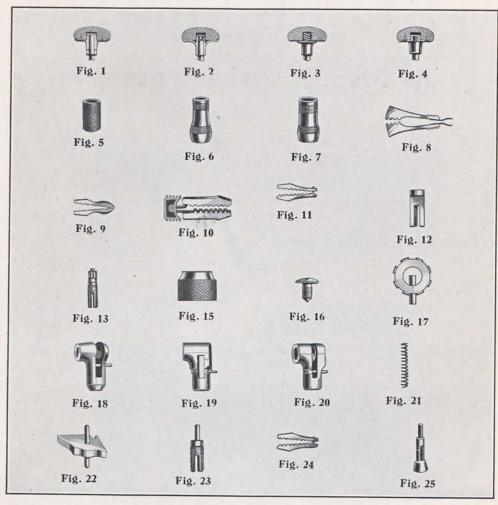
No. 012, 12-inch sweep per dozen 14.30

Packed one-half dozen in a box. Approximate weight, 10-inch size, 22 pounds per dozen.



REPAIR PARTS FOR ATKINS BRACES

FOR SERIAL NUMBERS LISTED IN PRICE LIST



- Fig. 1. Steel Clad Head Ball Bearing
 For Series 3100, 5100, 3400.

 Fig. 2. Steel Clad Head
 For Series 500, 100.

 Fig. 3. Quill and Head
 For Series 500, 100.

 Fig. 4. Plain Head
 For Series 30, 1700, 700.

 Fig. 5. Cylindrical Sleeve
 For Series 3100, 5100, 3400.

 Fig. 6. Best Turned Sleeve
 For Series 100, 30, 1700, 500, 700.

 Fig. 7. Medium Sleeve
 For Series 1900, 800, 00.

 Fig. 8. Forged Steel Jaws Spring Attachment
 For Series 3100, 3400.

 Fig. 9. Cast Steel Jaws Spring Attachment
 For Series 100.

 Fig. 10. Forged Steel Jaws Spring Attachment
 For Series 5100.

 Fig. 11. Cast Steel Jaws
 For Series 5100.

 Fig. 12. Plain Brace Socket
 For Series 00, 30.

 Fig. 13. Closed Frame Socket
 For Series 100, 3100.

- Fig. 15. Large Frame Ring
 For Series 1900, 700, 3400, 3100, 500, 100, 5100, 1700.
 Fig. 16. Ratchet Frame Screw
 For Series 3100, 100, 5100.
 Fig. 17. Ratchet Gear
 For Series 500, 700, 1900, 800, 1700, 3400.

- For Series 300, 700, 1900, 300, 1700, 3400.
 Fig. 18. Pawl Ratchet Frame
 For Series 300.
 Fig. 19. Closed Ratchet Frame
 For Series 3100, 5100, 100.
 Fig. 20. Open Ratchet Frame
 For Series 1900, 1700, 3400, 700, 500.
 Fig. 21. Brass Pawl Spring
 For Series 3100, 100, 1900, 5100, 300, 1700, 3400, 500, 700. 700.
- Fig. 22. Ratchet Pawl For Series 3100, 100, 1900, 800, 5100, 1700, 3400, 500,
- For Series 3100, 106, 156, 700.
 Fig. 23. Ratchet Frame Socket
 For Series 1900, 300, 1700, 700, 500.
 Fig. 24. Forged Steel Jaws
 For Series 1700, 700, 500.
 Fig. 25. Square Taper Socket
 For Series 5100, 3400, 3100.
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For Manual Training Schools



ATKINS MANUAL TRAINING SCHOOL SAWS AND TOOLS

FOR WOOD AND METAL WORKING

Atkins Silver Steel Saws are particularly desirable for use in Manual Training Schools, where the finest equipment is essential. We realize fully the importance of supplying the younger generation with strictly high-grade saws. Our Manual Training Saws are made with this idea in view.

The material used in and the general construction of Atkins Manual Training Saws is similar to the regular line.

We particularly solicit the opportunity of submitting samples of Manual Training Saws, for comparative test, and shall be pleased to hear from any one who contemplates the purchase of an outfit.

On the following page, will be found illustrations of the general Manual Training line, followed by a page listing these various saws.

Atkins Silver Steel Manual Training Saws have been adopted by many of the largest institutions in the country. We have most convincing letters of endorsement from many of the most prominent instructors, which we will furnish upon request.

To those interested we will gladly send our complete catalog of Manual Training Saws, Tools, Machine Knives, Hack Saw Blades and Metal Cutting Machinery.

We are also in a position to furnish necessary saws to be used in connection with a power equipment, such as Bands, Circular Saws, Felloe Webs, Scroll Saws, Machine Knives.

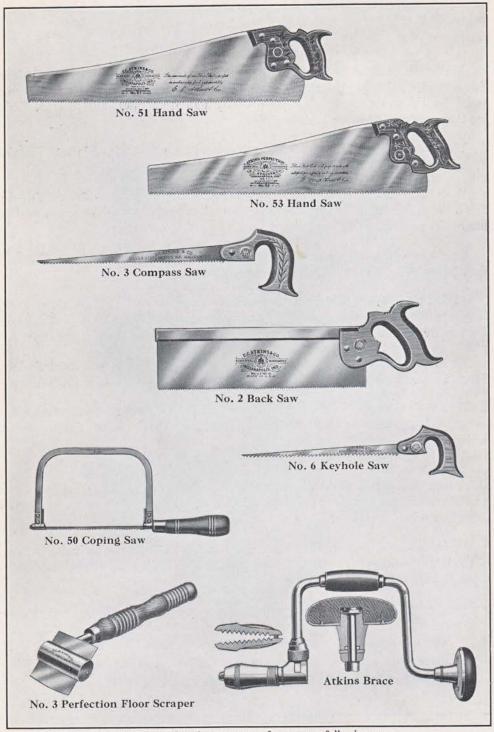
For the metal working departments, Atkins AAA Non-Breakable and Power Hack Saw Blades will be found admirably fitted. These, used in connection with any of the improved patterns of Atkins Hack Saw Frames, will insure most satisfactory service.

Atkins Kwik-Kut Metal Cutting and Metal Band Machines are in use in many of the largest equipments. Our circular metal saws should also be considered as we make them for all types of machines.

We have specialists who reach every city in the United States, and can arrange with any Manual Training Institution to have our experts deliver an address to their students on "Manufacture and Use of Saws."



ATKINS MANUAL TRAINING SAWS AND TOOLS



For prices on these saws and tools, see page references on following page.

ATKINS MANUAL TRAINING SAWS AND TOOLS

The following prices cover the various saws shown on the previous page, and are worthy of your serious consideration.

Other items manufactured by us and used in Manual Training work will be found in their proper departments throughout this book.

No. 53

This saw is fully described on page	210.	Lengths	s from	16 to	28 inc	hes.inc	lusive.
Length inches Price per dozen	16	18	20	22	24	26	98

No. 51

For description, see page 211. Le	ngths i	from 1	6 to 28	inches	inclus	ive.	
Length inches Price	-16	18	20	22	24	26	28 \$50.45

No. 3 COMPASS

For details, see page 224.	Other styles shown on that page	e, also	on pa	age 22	5.
Length	inches	10	12	14	16
Price	per dozen	\$8.05	\$8.65	\$9.20	\$9.90

No. 6 KEYHOLE

This saw is shown together with other patterns on page	e 225. Made 10 and 12 inch.
Price	per dozen \$6.30

No. 2 BACK SAW

A complete line of back, mitre box and do	vetail	saws is	shown	on pag	e 223.	
Lengthinches	8	10	12	14		18
Priceper dozen	\$28.60	\$30.55	\$34.25	\$38.10	\$42.90	\$47.65

No. 50 COPING SAW

This and other styles of coping saws will be found on page 228.	
No. 50, complete with blade	\$9.90
Blades only	.50

PERFECTION FLOOR SCRAPER

This with several other patterns of scrapers and scraper blades is fully listed described on pages 248 and 249.	ed and
Price	\$12.35 4.60

ATKINS BRACES

We manufacture a very complete line of braces of all kinds, suitable for Manual Training purposes. They will be found fully illustrated, described and listed on pages 255 to 257, inclusive.

PRICE LIST OF FILES AND RASPS PRICE PER DOZEN

MILL			MILL	1 R.E.	MILL	2 R. E.	MILL	BLUNT	
Inch	Bast.	2d Cut	Smooth	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut
3	\$3.00								
4	3.00	\$3.50 3.80							
5	3.20 3.50	4.00	\$4.50	\$3.90	\$4.50	\$4.40	\$5.00	\$3.90	\$4.60
7	3.90	4.60	V1.00	4.40	5.20	4.90		4.30	4.90
R	4.30	4.90	5.40	4.80	5.50	5.40	6.10	4.90	5.80
8	4.90	5.80		5.50	6.50	6.10			7.80
10	5.60	6.40	7.00	6.30	7.20	7.00	8.00	6.70	7.80
12	7.50	8.60	9.40	8.40	9.70	9.40	10.80	*******	
10 12 14 16 18	10.70	12.20	13.10	12.00					
16	14.70	16.80	17.90			*******		1111111111	
18	20.20	********					********		

Inch	TAI	TAPERS		Extra Slim	Double Extra	Hand- saw	BANI BLUNT AN	OSAW ND TAPER	Pitsaw
	Sgl. Cut	Dbl. Cut	Tapers	Tapers	Slim Tapers	Blunt	Regular	Slim	30 East 11 (2012)
3 3½ 4 4½ 5 5½ 6 7 8 10 12	\$2.10 2.10 2.20 2.40 2.60 3.00 3.40 4.30 5.40 8.10 12.50	\$2.90 3.10 3.50 4.70 5.60 6.70	\$2.10 2.10 2.20 2.30 2.50 2.90 3.10 3.80 4.50 6.40 9.50	\$2.20 2.30 2.50 2.90 3.10 3.80 4.50	\$2.20 2.30 2.50 2.90 3.10 3.80 4.50	\$2.60 3.00 3.40 4.30 5.40 6.60	\$2.90 3.10 3.50 4.70 5.60 6.70 9.70	\$3.90 5.30	\$4.80 5.40 5.40 6.10 6.10 7.00 7.50

		FLAT			HAND		SQUARE		
Inch	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	\$3,70	\$4.30	\$4.70	\$3.70	\$4.30	\$4.80	\$3.80	\$4.60	\$4.90
5	3.90	4.60	4.90	3.90	4.70	5.30	4.10	4.80	5.30
6	4.30	4.80	5,30	4.30	5.10	5.60	4.60	5.10	5.50
7	4.80	5.50	6.10	4.90	5.80	6.30	5.10	5.80	6.30
8	5.30	6.10	6.60	5.40	6.30	6.70	5.50	6.30	7.00
	6.30	7.20	7.90	6.70	7.80	8.30		*******	
10	7.00	8.10	8.70	7.50	8.70	9.40	7.40	8.50	9.10
12	9.70	11.00	12.10	10.70	12.30	13.50	10.20	11.50	12.80
14	13,30	15.30	16,70	15.00	17.00	18.20	13.90	16.10	17.50
16	17.80	20.10	22,30	20.10	22.80	24.20	18.70	21.20	23.30
18	23,90	26.80	29.20	26.80	29.90	31.50	25,10	28.20	30.40
9 10 12 14 16 18 20	31.50	20.00		35.10			32.80		

	THE	THREE SQUARE			LF ROUNI	D	ROUND		
Inch	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	\$4.80	\$5.60	\$6.10	\$4.80	\$5.60	\$6.10	\$3.00	\$3.50	\$3.90
5	5.40	6.10	6.40	5.40	6.10	6.40	3.20	3.80	4.10
6	6.10	6.70	7.10	6.10	6.70	7.10	3.50	4.00	4.50
7	7.00	7.70	8.20	7.00	7.70	8.20	3.90	4.60	4.90
8	7.50	8.30	8,90	7.50	8.30	8.90	4.30	4.90	5.40
8 9			more and a second				4.90	5.80	6.30
10	9.10	10.10	10.70	9.10	10.10	10.70	5.60	6.40	7.00
10 12 14	11.80	13.00	13.90	11.80	13.00	13.90	7.50	8.60	9.40
14	15,50	17.00	18.30	15.50	17.00	18.30	10.70	12.20	13.10
16	20,60	22.50	24.20	20.60	22.50	24.20	14.70	16.80	17.90
10	27.50	29.90	32.00	27,50	29.90	32.00	20.20	22.70	24.30
18 20	21.00	-2.50	2000				27.40		

PRICE LIST OF FILES AND RASPS

(CONTINUED)

PRICE, PER DOZEN

Inch		WARDING			KNIFE	
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
5	\$4.00 4.50	\$4.80 5.30	\$5.40 5.80	\$5.40 6.10	\$6.10 6.70	\$6.40 7.10 7.90 9.50
8	4.90 6.40	5.90 7.50	6.40 8.20	6.90 8.50	7.50 9.10	7.90 9.50
10 12	8.70	10.10	11.00	10.10 13.70	11.50 15.20	12.30 16.10

Inch		PILLAR		Square	Round	LEAD FLOAT AND WOOD FILES	
riicii	Bast.	2d Cut	Smooth	Blunt Bast.	Blunt Bast.	Flat	Hlf. Rd
6	\$4.30 5.40	\$5.10 6.30	\$5.60 6.70	\$7.40		\$4.80	\$7.00
10	7.50	8.70	9.40	10.20	\$5.60 7.50	6.30 8.60	8.50 10.70
12	10.70	12.30	13.50	13.90	10.70	11.80	14.10
14	15.00			18.70	14.70	16.00	18.50
16 18	20.10			25.10 32.80		21.50	24.70

Inch	Handsaw, Blunt, Slim	Double Ender	Cant Saw
4 5 6 7 8 9 10 12	\$2.50 3.10 3.80 5.40	\$3.50 3.90 4.40 4.90 6.00	\$4.70 5.40 6.10 6.40 8.70 11.40

Inch	Cabinet Files	Cab Ra	inet sps		Rd. Rasps	Flat V Ras			and shing
Inch	rnes	2d Cut	Smooth	Bast.	Smooth	Bast.	Smooth	2d Cut	Smooth
6	\$8.10	\$10.10	\$11.70	\$8.10	\$10.10				
8	10.10	12.80	15.50	10.10	13.70	\$9.40	\$12.80		
10	13.70	17.50	20.70	13.70	18.70	12.80	17.50		Name of the last
12	18.70	22.80	26.80	18.70	24.80	17.50	23.20	\$15.20	\$16.20
14	24.80	29,60	33.90	24.80	32.90	23.20	30.80	20.60	21.70
16				32.90	43.60	30.80	40.90		

	SHOE R	ASPS	Planer		Special Cross Cut
Inch	Flat	Hf. Rd.	Knife	Cross Cut	Cross Cut
6 7 8	\$10.10	\$10.10	\$6.40	\$6.10 7.50	\$3.90 4.30 4.90
9 10 12	12.20 13.70	\$10.10 12.20 13.70	8.60	8.50 9.10 11.80	6.70

Inch	HORS	E RASPS, PLAIN		HORSE RASPS	, TANGED
LIICH	½ File	Slim, ½ File	Regular	Slim	Thin
12 13 14 15 16 18 20	\$12.80 	14" Stock \$21.50 15" Stock 25.90 16" Stock 32.90	\$16.80 19.60 23.10 27.30 32.20	13" Stock \$21.90 13" Stock 25.20 14" Stock 29.70	1.531" x .270" \$16.00 1.594" x .275" 18.20 1.750" x .280" 21.90 1.812" x .285" 25.20 1.875" x .290" 29.70

The above list comprises all of the kinds, sizes and cuts of files regularly made. Anything differing from these files will be considered as special and will not be manufactured except in case of urgent necessity and when manufactured price will be based strictly upon cost of material and cost of manufacture at time goods are made.



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