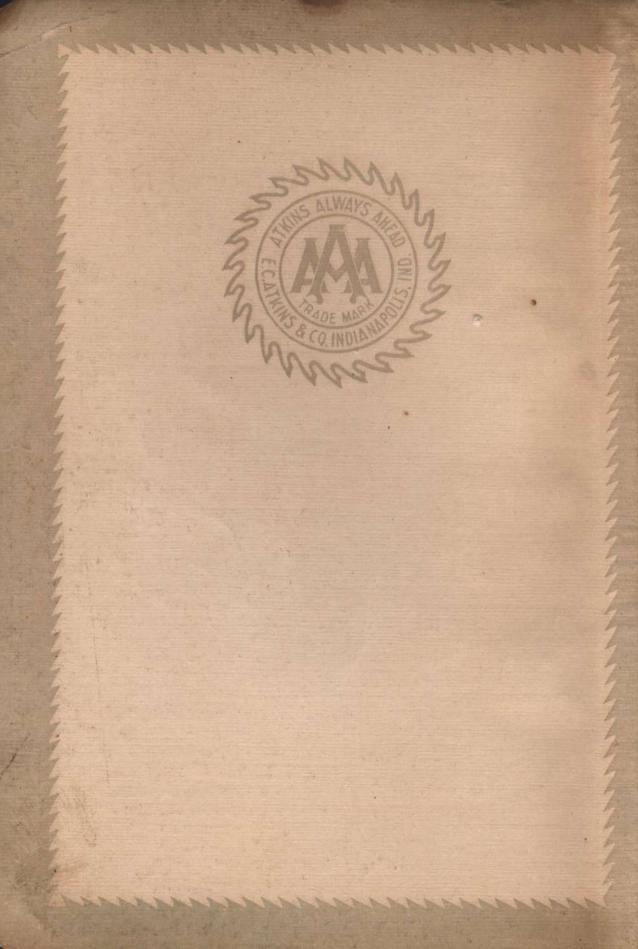
E.C.ATKINS & COMPANY

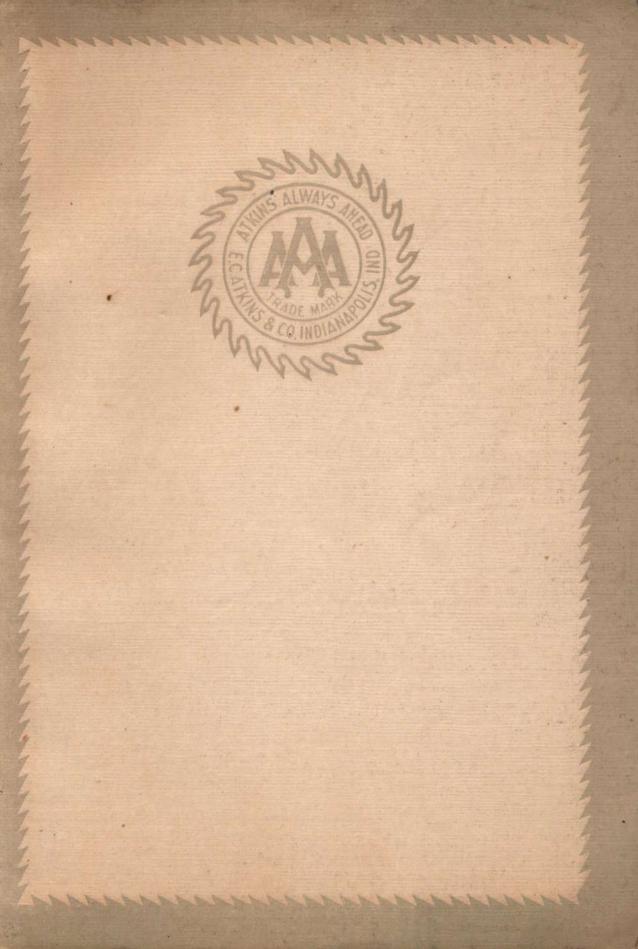
INC

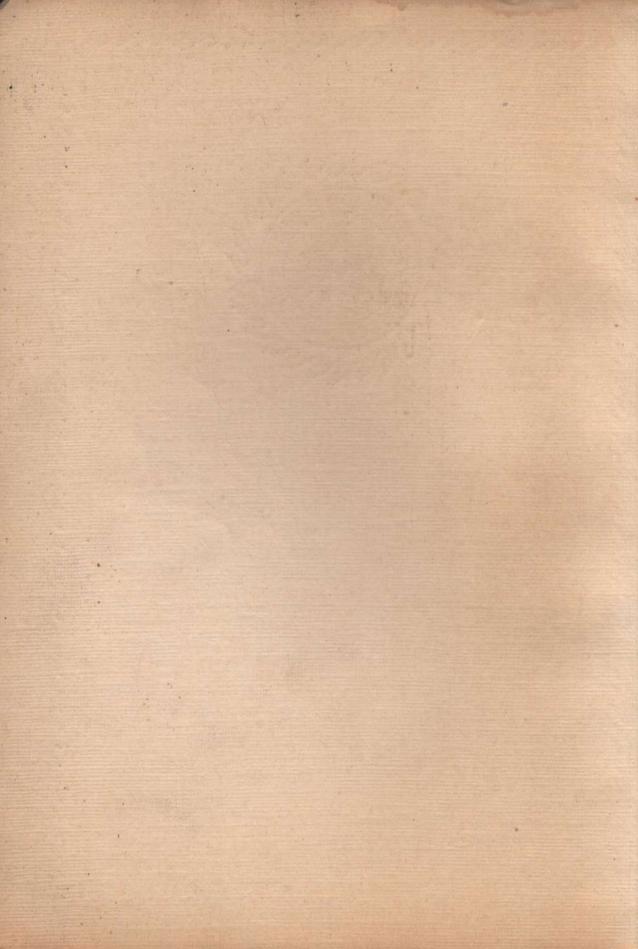
SAWS AND SAW TOOLS



INDIANAPOLISM SZ







E.C. ATKINS & @ SAWS SAW TOOLS MILL

SPECIALTIES

No. 18

INDIANAPOLIS, INDIANA, U.S.A.

BRANCH HOUSES

CHICAGO, ILL. MEMPHIS, TENN. SEATTLE, WASH. NEW ORLEANS, LA. NEW YORK CITY. ATLANTA, GA. MINNEAPOLIS, MINN. PORTLAND, ORE.

SAN FRANCISCO, CALIF. SYDNEY, N. S. W. VANCOUVER, B. C.

10 RUE GUSTAVE FLAUBERT, PARIS, FRANCE.

MACHINE KNIFE FACTORY, LANCASTER, NEW YORK CANADIAN FACTORY, HAMILTON, ONTARIO

Entered according to Act of Congress, in the year 1919, by

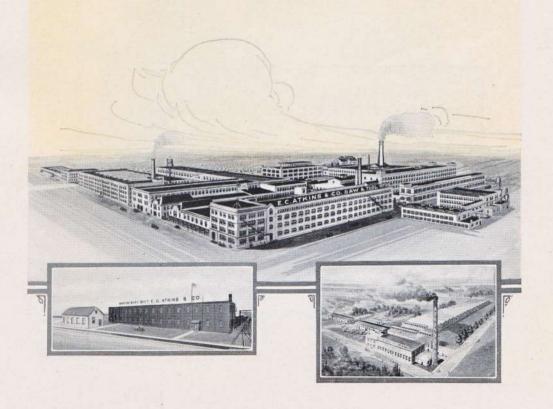
E. C. Atkins & Co., Inc., Sheffield Saw Works, Indianapolis, Indiana,

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

OUR BRANCHES

Our Branch Houses at Atlanta, Chicago, Memphis, Minneapolis, New Orleans, New York City, Portland, Oregon, San Francisco, Seattle, Vancouver, B. C., Sydney, N. S. W., and our Canadian factory at Hamilton, Ont., as well as numerous distributing agents throughout the world, place the Atkins line within easy reach of the users of saws everywhere.

Below are views of the Atkins factories at Indianapolis, Ind., Lancaster, N. Y. and Hamilton, Ontario.







MINNEAPOLIS



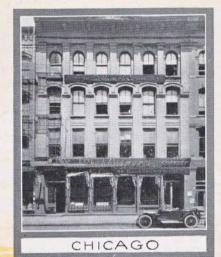
SEATTLE

















Introductory



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.

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 this, the latest word in Saw Making.

Just as we believe this to be the finest and most comprehensive book that has ever been published on this subject, so we 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 and Tools.

OUR DEPARTMENTS

Owing to the varied uses for Saws and other tools 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, Pit Saws, Whip Saws, Barrel Saws, Dado Heads, Felloe Webs and Scroll Saws, etc., etc.

ATKINS SILVER A 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.

Cross Cut Saws—Two-Man Wide, Narrow and One-Man Cross Cut Saws, and Handles.

The Hardware Line—Hand Saws, Cross Cut Saws, 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, Braces, Grass Hooks, Floor Scrapers, Bench, Wall and Belt Scrapers, Cabinet Scrapers, Corn Knives, Cane Knives, 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, 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.

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.

Special Work—Our equipment and facilities enable us to 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 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, all shipments will be made C. O. D. or by the sending of cash bills for the 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.

Quotations are subject to change without notice and goods 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.

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 is 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 will 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 slight 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 will 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 facts. Careful investigation will be made and if a saw has proven defective, it will be replaced by a new saw.

ATKINS CROSS CUT SAWS

Any Atkins Silver Steel Cross Cut Saw which fails to 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

We absolutely guarantee the above saws to give satisfaction in every particular. 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.

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

Express at once. Freight at once. Abaft

Abash Express as soon as possible. Abate

Freight as soon as possible. Answer, saying when you can ship. Abbey

Order confirmed by mail. Abeam...

When will you ship order?

If you cannot ship at once, advise us by wire.

Customer in great hurry.

Customer will cancel if not shipped at once. Abide.

Abvss.

SHIPMENT OUESTIONS

Shall we ship via rail? Abuse.

Acorn Acrid Actor

Acute Adage

Adapt

Adder Admix

Shall we ship via rail?
Shall we ship via rail and lakes?
Shall we ship via steamer?
Shall we ship via express?
Shall we ship via asiling vessel?
Shall we ship via asiling vessel?
Shall we ship via cheapest route?
Shall we ship via quickest route (freight)?
When will you ship?
When can you ship?
Can you ship us promptly?
Can you ship today?
Can you make shipment by the
Can you ship on receipt of order?
Can you furnish within
When can you ship us partial shipment? Adult Agape

Agate Agast Agile

Agone.

When can you make complete shipment of our Aneal ...

order

Abear Angel Anger

Angle Anile

Anise. Ankle Annal

order?
When will you complete our order?
When and how did you make shipment?
Where did you make shipments?
Shall we get through rate of freight?
Shall we prepay freight?
Shall we prepay express?
Shall we send wire tracer after shipment?
Shall we cancel unfilled portion of order?
Shall we hold for shipping instructions?
Shall we make partial shipment, balance later?
Shall we enter order to be shipped at earliest date possible? Annex Annoy Antic

SHIPMENT ANSWERS

Ship via rail. Ship via rail and lakes. Ship via steamer. Apace Apeak Apery

Ship via express.
Ship via sailing vessel.
Ship via cheapest route.
Ship via quickest route (freight). Apian Apish Aport

Appal Apron Araby

Ship via quickest route (freight).
We can ship
We can ship at once.
We expect to ship today.
We expect to ship order complete
We expect to make partial shipment
We expect to make partial shipment
We expect to ship balance of order
We made you shipment
We completed your order
Shipment was made to Ardor Arear Areek Arena

Argon Argot Shipment was made to Shipment was made by Argue Argus Arian

Shipment was made on
We will ship as soon as possible.
We can make shipment on receipt of order.
We cannot promise definitely.
Impossible for us to fill your order in time Ariel Arise Armed Armor

Arose

specified.

If ordered immediately, can ship
If ordered today, can ship

Will do our best to ship earlier.

Will try to ship in 1 day.

Will try to ship in 2 days.

Will try to ship in 3 days.

Will try to ship in 3 days.

Will try to ship in 5 days.

Will try to ship in 6 days.

Will try to ship in 7 days.

Will try to ship in 8 days.

Will try to ship in 10 days.

Will try to ship in 10 days.

Will try to ship in 10 days.

Will try to ship in 3 weeks.

Will try to ship in 5 weeks.

Will try to ship in 6 weeks.

Will try to ship in 6 weeks.

Will try to ship in 6 weeks.

Will try to ship in 60 days.

Will try to ship in 60 days.

Will try to ship in 60 days.

Will try to ship in 10 days.

Will try to ship in 10 days to 2 weeks.

Will try to ship in 10 days to 2 weeks.

Will try to ship in 10 days to 2 weeks.

Will try to ship in 2 to 3 weeks.

Will try to ship in 3 to 4 weeks.

Will try to ship in 3 to 4 weeks.

Will try to ship in 4 to 5 weeks.

Will try to ship in 5 to 6 weeks.

Will try to ship in 5 to 6 weeks.

Will try to ship in 6 to 8 weeks. Will do our best to ship earlier. Arrow ... Aside. Aspen Aspic. Assav Astel Astun Asure Atilt... Atjar Atluk Atman Atoll . Atone Attic Attus Brand

Bride. Beeze . Booze . Brade Broad Brace.

SHIPMENT INSTRUCTIONS

Please send shipping instructions Audit

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. Cancel balance of order. Avoke.

Awake.

Cancel balance of order unless shipped by We are entirely out of We are urgently in need of Send wire tracer after shipment. Awful Awned Axiom

Get through rate of freight. Prepay freight. Prepay express. Axmon.. Aziam... Azale . . .

PRICES

Bacon. At what prices can you furnish?
Badge. At what price and how soon can you furnish?
Bafta. Prices are subject to change without notice.
Baggy. We quote you
Bairn. We can not furnish
Baize. Not less than
Baked. Delivery in your city.

Baken.... Baler.

Free on board at Less freight allowance per 100 pounds of Please send specifications in detail. We cannot accept offer

Balky Balmy Balsa . Basop

You can quote
We have not quoted.
If necessary to meet competition, you can quote.

ORDERS

We have entered your order for Enter our order at prices named. Will you accept order? Banal. Bandy Banjo.

Banns.... We accept your order. Banty.... Duplicate our order

Enter our order for Send detail specifications. We cannot accept your order. Order confirmed by mail. Baron Basal. Basic.

CANCELLATIONS

GENERAL

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

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

DISCOUNTS

Per Cent	Per Cent	Per Cent	Per Cent
Batch 2	Belay25	Bites45	Bloat 65
Bathe 21/6	Belie30	Blame 50	Boast
Baton 3	Belle30-5	Bland	Bogle
Bazar 5	Berob30-10	Blare	Bogus
Beaky 7 1/2	Berry30-10-5	Blast50-10-5	Boost
Beamy10	Berth30-10-10	Blaze	Boots
Beard	Beryl35	Bleak	Booty
Beast	Beset 40	Blear 60	Borne80
Bedew20-5	Bight40-5	Bless 60-5	Bossy80-5
Beeve20-10	Bigot 40-10	Blind60-10	Bower80-10
Befit20-10-5	Biped40-10-5	Blink	Boxer80-10-5
Befog 20-10-10	Bison	Bliss	Braid 80-10-10

TERMS

Brain	BreedSpecial terms per contract
Brash30 days net	Bribe 2 per cent cash in 10 days
Bravo 60 days net	or 60 days net
Brawl	Brier3 per cent cash in 30 days
Drawy 4 months not	

CIRCULAR AND MILL SAWS

Cabal Circular saws, solid tooth rip	Carve Circular saws, metal
Cabby Circular saws, solid tooth cross cut	Caste Circular saws, milling saws for Bryant Machine
	Catch Circular saws, milling saws for Higley Machine
Cache Circular saws, solid tooth shingle or heading saws	Cater Circular saws, lathe
Caddy Circular saws, inserted chisel tooth (style tooth	Catty Circular saws, Tindel High Duty
No. 5)	CavilBand saws (mill)
Cadet Circular saws, inserted chisel tooth (style tooth	ChafeBand saws (scroll)
No. 4)	Chalk Mulay saws
Cadge Circular saws, inserted chisel tooth (style tooth No. 3)	ChantMulay saws, special pattern for Chandler & Taylor Mill
Calix Circular saws, inserted chisel tooth (style tooth	CharmGang saws
No. 216)	ChasmRift saws
Calla Circular saws, inserted chisel tooth (style tooth	Chaty Drag saws, tapered 6 x 4 inches
No. 2)	CheerDrag saws, tapered 8 x 6 inches
Camel Gircular saws, inserted chisel tooth (style tooth	Chide Drag saws, tapered 7 x 5 inches
No. 30)	ChumpDrag saws, tapered 7 1/2 x 4 1/6 inches
Canal Circular saws, inserted chisel tooth (short holder	ChurnDrag saws, equal width, 10 inches
battern)	Cider Drag saws, equal width, 10 linches
Canbo Atkins inserted tooth cut-off saw	Cinch Drag saws, lance tooth
	Clash Drag saws, tuttle tooth
Candy Circular saws, solid tooth, edgers	
CanedCircular saws, solid tooth, re-saws	Cleft Drag saws, mill tooth
Canny Circular saws, solid tooth, top saws	Cleve Drag saws, single hook tooth
Canoe Circular saws, veneering saws in segments	Click Drag saws, diamond tooth
CantoCircular saws, slate	Cliff Whip saws
CaperCircular saws, McKam Tooth	ClimbPit saws
CaribCircular saws, wabble	ClinkCylinder saws
Carol Circular saws, lock corner box cutters	CloakBilge saws
CaromCircular knives	



SPEED, REVOLUTIONS PER MINUTE

Clerk	Cocoa	Comus	Cowan
Clest	Codex	Coney	Coxal 3500
Clipp		Conid	Cozen
	Cohog	Conne	Crake 4000
Clina	Coind	Cooky	Cramp 4500
Clipt	Covne 825	Coomb	Crash
	Cokes 850	Cooth	Crawl
Closh	Colic 875	Сорру	Craze
Cloud	Colly	Copsy	Cream 6500
Clove	Colon	Coque	Credo 7000
Clown	Colza	Coral	Creel
Clubs	Comal	Corme	Crisp 8000
Clump	Combs	Cosey	Croak 8500
Coach	Comet	Cough	Crone 9000
Coact	Comic	Count	Crust
Coaly	Comma	Coury2500	Cyrer
Coats	Compo	Cover	

DIAMETER

Daffy 1 inch	Defer	Dicky	Drama	74 inch 76 inch
Dairy 2 inch	Deify	Digit	Drape	78 inch
Daisy 3 inch	Deign	Dingy	Drawl	
Dally 4 inch	Deity	Dirge	Dread	80 inch
Dance 5 inch	Delve	Dirty48 inch	Dream	82 inch
Dandy 6 inch	Demit	Doggy	Drego	84 inch
Darby 7 inch	Demon	Dolce		86 inch
Daunt 8 inch	Demur	Dolly54 inch	Drier	88 inch
Davit 9 inch	Denim	Dolor 56 inch	Drift	90 inch
Dawdy10 inch	Dense 27 inch	Donor	Drink	92 inch
Dazed	Derby 28 inch	Doric	Droll	94 inch
Death	Deter 29 inch	Dotty	Drone	96 inch
Debar	Deuce	Doubt 64 inch	Droop	98 inch
Debut	Devil	Dough	Dross	100 inch
Decay	Devon34 inch	Douse 68 inch		
Decoy	Diana 36 inch	Dower		
Decry	Diary	Downy		
Decity	The state of the s			

GAUGE

Eager30	Elemi 4	Enarm 7 x 15	Erect
Parel 90	Elfin 3	Endew 7 x 16	Ergal
Easel29		Endie 7 x 17	Ergon
Eaves	Elide 2	Eneid 8 x 8	Erica
Ebrew27	Elmes 1	Energa 8 x 9	Ermin 10 x 16
Eburn		Enemy 8 x 10	Erose
Eccle	Eloge 5 x 6	Enemy O A 10	Erump 10 x 18
Echin	Eloin	Enerd 8 x 11	Ervum
Eclat	Elong	Engin 8 x 12	Ervum
Ecole	Elope	Engle 8 x 13	Escar
Ectal	Elsen	Ensky 8 x 14	Esmal
Edder	Elute	Ensue 8 x 15	Essay
Edict	Elver 6 x 10	Entad 8 x 16	Estat
Edify	Email 6 x 11	Entry 8 x 17	Ester
Edile	Emang	Envoy 8 x 18	Estoc
Educt	Embar 6 x 13	Enzym 9 x 9	Estre
Efagg	Embla	Eosin 9 x 10	Etaac
Egret	Embog 6 x 15	Epact 9 x 11	Ethal11 x 20
Eisel	Embry 6 x 16	Ephah 9 x 12	Ether
Ejido	Emeer 7 x 7	Ephor 9 x 13	Ethic
	Emend7 x 8	Epoch 9 x 14	Ethos
Eking	Emmet7 x 9	Epode 9 x 15	Etite
Elaic	Emmet	Epure 9 x 16	Etude
Elamp 9	Emony	Erack 9 x 17	Eurus
Elate 8	Empty7 x 11	Erato 9 x 18	Evade
Elder 7	Emrod	Erato 3 x 10	Event
Elect 6	Enact	Erber	Eviet
Elegy 5	Enage	Erbia	EVICE



HAND OF SAWS

	HAND (OF SAWS		
Facer	Left Hand	Fable Ri	ght Hand	
	NUMBER O	F TEETH		
Facie 4 teeth Fadge 6 teeth Faggy 8 teeth Faggot 10 teeth Fagus 12 teeth Faham 14 teeth Fairt 18 teeth Fairy 18 teeth Fair 20 teeth False 22 teeth Fancy 24 teeth Fanon 26 teeth Farad 28 teeth Farce 30 teeth Faren 32 teeth Fasel 34 teeth Fatal 36 teeth Fauld 38 teeth Favel 40 teeth	Feast 42 teeth Feces 44 teeth Feign 46 teeth Felon 48 teeth Felon 50 teeth Fenks 50 teeth Ferny 54 teeth Fetal 56 teeth Fetch 58 teeth Fetor 60 teeth Fever 62 teeth Fibre 64 teeth Fiery 68 teeth Filch 70 teeth Fillt 72 teeth Filly 74 teeth Filum 76 teeth Final 78 teeth	Finch 80 teeth Finis 82 teeth Finit 84 teeth Finny 86 teeth Firth 88 teeth Fitab 90 teeth Flail 92 teeth Flake 94 teeth Flank 96 teeth Flaxy 100 teeth Fleax 110 teeth Fletz 120 teeth Flier 130 teeth Fling 140 teeth Flint 150 teeth Float 160 teeth Flock 170 teeth Flown 180 teeth	Fluff 30 to 36 Fluid 32 to 38 Flush 34 to 40 Flute 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	
	POINT T	O POINT		
Frill 14 inch Frisk 15 inch Frith 34 inch Fudge 1 inch	Fugie	$\begin{array}{cccc} \text{Funny} & & 1\sqrt[3]{4} \text{ inches} \\ \text{Funge} & & 2 & \text{inches} \\ \text{Furil} & & 2\sqrt[1]{4} \text{ inches} \end{array}$	$\begin{array}{ccc} \text{Futsy} & 2 \frac{1}{2} \text{ inches} \\ \text{Fyord} & 2 \frac{3}{4} \text{ inches} \\ \text{Fylde} & 3 & \text{inches} \end{array}$	
	DIAMETER	OF HOLES		
	Gabby Stan	dard mandrel and pin holes.		
	MANDRE	L HOLES		
Gadhi ¼ inch Gaily ¾ inch Galea ½ inch Gamba ¾ inch Garum ¾ inch Gaudy ¼ inch Gavel ¼ inch Gawky 1 inch Geist 1¼ inches Gelid 1½ inches Gemel 1¼ inches Gemma 1¼ inches	Gemot	Glint 2 in. full Globy 2 in. scant Glare 2 \(\frac{1}{16} \) inches Glory 2 \(\frac{1}{5} \) inches Glove 2 \(\frac{1}{16} \) inches Glove 2 \(\frac{1}{16} \) inches Glump 2 \(\frac{1}{3} \) inches Gnasp 2 \(\frac{1}{16} \) inches Gnome 2 \(\frac{1}{3} \) inches Graff 2 \(\frac{1}{16} \) inches Grail 2 \(\frac{1}{26} \) inches Grape 2 \(\frac{1}{16} \) inches Greet 2 \(\frac{1}{26} \) inches Greet Gree	Gride 2 ¼ inches Grief 2 ¾ inches Grill 2 ¼ inches Grive 2 ¼ inches Groon 2 ¼ inches Groope 3 inches Groom 3 ½ inches Growl 4 inches Guara 4 ½ inches Guile 5 inches Guird 5 ½ inches Gumps 6 inches	
	PIN H	OLES		
Habit 1/8 inch Haler 1/6 inch Hamal 1/4 inch	Hanse $\frac{3}{16}$ inch Hatch $\frac{3}{16}$ inch Haulm $\frac{1}{16}$ inch Haten Distance from c	Haust 1/2 inch Haven 5/4 inch Hawse 3/4 inch enter to center, inches.	Hazel 78 inch Heave 18 inch Heazy 1 inch	
CHISEL BIT HOLDERS AND TEETH				
Pattern Hedge No. A Heigh No. B Hemic No. C	Pattern Hewer No. D Hinch No. 30 Hoard No. 2 ½	Hobby Roscer Hodge No. 5 Hoker No. 4	Holly No. 3 Honey No. 2 Hooch Short Holder	
WID	TH OF POINT OF	CHISEL BIT TER	СТН	
Icche 1/4 inch Ichor 1/4 inch Ictus 1/7 inch Ideal 1/4 inch Idiot 1/4 inch Idler 1/4 inch Igloo 1/2 inch	The control of the	Index	Iniad	

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 Columbia Jaunt 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
---	---

DIAMETER OF FLANGES

Kalan 16 inches Kapok 21½ inches Ke Kalpa 18 inches Karat 22 inches Kel Kambu 20 inches Kedge 24 inches	ch
---	----

FEED

Keyel 1 inch Keyed 1½ inch Kiack 2 inches	Kinch3½ inches	Kitty6 inches	Knack 10 inches Knave 11 inches
---	----------------	---------------	------------------------------------

KIND OF DRESS

Knick....Spring Set

Knoll....Spread or Swage Set

KIND OF TIMBER

Knout Hardwood Knowl Softwood Knuff Norway Pine	KnurlYellow Pine KokilHickory KotowHemlock	Kreel Fir Krore Redwood Kukri All Kinds of Timber
---	--	---

LENGTHS, FEET

Takin 1 foot	Lemma 19 feet	Linch45 feet	Logan71 feet	Lulla 97 feet
Liebini	Lends20 feet	Linen 46 feet	Logic72 feet	Lummy 98 feet
THEIRING	Lente 21 feet	Lingo47 feet	Lokao73 feet	Lumps 99 feet
Lanky 3 feet	***************************************	Lippy48 feet	Lolly74 feet	Lunar 100 feet
Lapis 3 ½ feet		Lisps49 feet	Looby 75 feet	Lunch 105 feet
Larch 4 feet		Lisse50 feet	Looer 76 feet	Lunda 110 feet
Lardy 4 1/2 feet		Litel 51 feet	Loony77 feet	Lunet 115 feet
Larix 5 feet	Leste 25 feet		Lourd78 feet	Lunge 120 feet
Laser 5 1/2 feet	Letch26 feet		Loppy79 feet	Lupin 125 feet
Lasso 6 feet	Leton27 feet	Litui53 feet	Loral 80 feet	Luppa 130 feet
Lates 61/2 feet	Leuch 28 feet	Lived 54 feet		Lupus 135 feet
Lause 7 feet	Leute29 feet	Livar55 feet	Lorer 81 feet Loris 82 feet	
Lavic 7½ feet	Leafy 30 feet	Livid56 feet		
Lawny 8 feet	Levee 31 feet	Loach57 feet	Lorry 83 feet	
Lazar 81/2 feet	Levin 32 feet	Loans58 feet	Lorum 84 feet	
Leach 9 feet	Lewan 33 feet	Loath59 feet	Loser 85 feet	Lutes 200 feet
Leaky 9 1/2 feet	Lewth 34 feet	Lobar60 feet	Lotah86 feet	Lyart 300 feet
Learn10 feet	Libel35 feet	Lobby 61 feet	Loter 87 feet	Lycee 400 feet
Lease 10 ½ feet	Lichi36 feet	Lobed 62 feet	Lothe 88 feet	Lycin 500 feet
Leddy 11 feet	Licit37 feet	Lobus63 feet	Loupe89 feet	Lyden 600 feet
	Lifen38 feet	Local 64 feet	Loves90 feet	Lymph 700 feet
	Ligan 39 feet	Locks65 feet	Lowan 91 feet	Lynch 800 feet
The same of the sa	Likes40 feet	Locus66 feet	Lowly92 feet	Lynde 900 feet
	Liman 41 feet	Lodge 67 feet	Lozel 93 feet	Lyric1000 feet
Linguis and A.	Limbo 42 feet	Loess 68 feet	Lucid 94 feet	
Lichert		Loffe69 feet	Lucky 95 feet	
Leggy17 feet		Lofty70 feet	Lucre96 feet	
Leman18 feet	Limps44 feet	Lordy		

LENGTHS, INCHES

Lallo 1 inch Lalba 2 inches Laply 3 inches Lapbo 4 inches Lapne 5 inches Lappy 6 inches	Lavod 7 inches Laber 8 inches Lamty 9 inches Lamus 10 inches Laped 11 inches Lapba 12 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
	FRAC	TIONS	

Maaba 11 inch Mabby 1/8 inch Macaw 11 inch Macaw 1/4 inch	Macfy % inch Macle 3% inch Macty ¼ inch Macho ½ inch	Maddy † inch Madam % inch Madbo † inch Madge % inch	Madst. †† inch Madly ½ inch Madpa †† inch
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WIDTH

Mahoe 1	Marum 5	Medal14	Mirth30	Moton46
Maize11/4	Marry 51/4	Media	Mitty31	Motto
Major	Masha 5 1/2	Melee	Mizer32	Mound
Makwa	Mason 534	Melon	Molar33	Mourn49
Malty2	Massy 6	Merge	Molly34	Mouse
Malwa	Matai 61/2	Merit	Monad	Mover51
Mammy	Mates 7	Mesad 20	Monte	Mucin
Manas 234	Matsu 736	Meshy	Moody37	Mucus53
Maneh	Matte 8	Metif22	Moose	Muggy54
Mango	Maund 81/2	Metra23	Mopus39	Mulse55
Mania	Mauve 9	Midst	Moral40	Mumps56
Manse	Mawky 9 1/2	Milky	Morai	Mural57
Manor4	Maxim10	Mimic26	Morse	Murex
Manta4 1/4	Mazer	Mince27	Mosca43	Musad 59
Marge 4 1/2	Meach12	Minor	Mossy	Music
Marsh	Mealy	Minus	Mothy45	

NUMBER

Nabob 1 Nacre 2 Nader 3 Naggy 4 Naive 5 Naked 6	Namaz 8 Namer 9 Nanga 10 Nanmu 11 Napal 12 Nappy 13 Nares 14 Narre 15	Nasus 17 Nates 18 Nauch 19 Naval 20 Nazir 21 Nebby 22	Neigh 25 Nerve 26 Newly 27 Nexal 28 Niata 29 Nihil 30	Nomic
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QUANTITY

Paard 1	Party 30	Peggy 175	Physy 1,800	Plebs 10 dozen
Pacer 2	Pasan	Peine 200	Piaga 1.900	Pleon 11 dozen
Pacha 3	Pasch	Pekoe	Piano 2,000	Pluck 12 dozen
Padat 4	Pasha	Pelts 250	Picot 2,500	Plume 14 dozen
Paddy 5	Paspy34	Pelma 275	Picra 3,000	Plyer 16 dozen
		Penal 300	Piend 3,500	Poach 18 dozen
Pagan 6				
Pages 7		Pence 325	Pilar 4,000	Poddy 20 dozen
Pagle 8	Patas 37	Penna 350	Piles 4,500	Poise 25 dozen
Paint 9	Paten 38	Peony 375	Pilot 5,000	Poker 30 dozen
Palas,10	Patio 39	Perch 400	Pilum 5,500	Polar 35 dozen
Palet	Patly 40	Perdu 450	Pimel 6,000	Polly 40 dozen
Palla	Patno 41	Perge 500	Pinax 6,500	Pombe 45 dozen
Palms13	Pause 42	Peril 550	Pinch 7,000	Pongo 50 dozen
Palpi	Pavas	Pesky 600	Piney 7,500	Popit 60 dozen
Palsv	Pavon 44	Petal 650	Pinky 8,000	Poppy 70 dozen
Panee	Pawed 45	Peter 700	Pinna 8,500	Porro 75 dozen
Pandy	Payer 46	Peths 750	Pinto 9,000	Posca 80 dozen
Paned	Peach 47	Petit 800	Pipal 9,500	Posse 90 dozen
Pangs19	Pearl	Petty 850	Pipet10,000	Pouch 100 dozen
Panic20	Pease 49	Pewit 900	Pique1 dozen	Prank150 dozen
Pants 21	Peaty50	Phase 950	Pirol 2 dozen	Prays200 dozen
	Pecan	Pheer 1,000	Pirry 3 dozen	Press250 dozen
			Pisky 4 dozen	
Pappy23				
Parch24	Pedal 75	Phial1,200	Plaga 5 dozen	Prime350 dozen
Parel	Pedes 80	Phoca1,300	Plaid 6 dozen	Prink400 dozen
Parka26	Pedro 90	Phone1,400	Plash7 dozen	Prior450 dozen
Parle27	Pedum100	Photo1,500	Plaza8 dozen	Probe500 dozen
Parry28	Peeps	Phren1,600	Plead 9 dozen	Proem750 dozen
Paret 29	Peerv	Phyla 1.700		

CROSS CUT SAW HANDLES

Saber No. 1 pattern Sable No. 2 pattern Sabot No. 3 pattern Sacar No. 4 pattern Saffo No. 5 pattern Saffo No. 6 pattern Saiga No. 7 pattern Sairy No. 8 pattern Salad No. 9 pattern Salin No. 10 pattern Salin No. 10 pattern Salop No. 11 pattern	Salse No. 12 pattern Salty No. 13 pattern Sambo No. 13x pattern Sanat No. 14 pattern Sandy No. 15 pattern Sangu No. 16 pattern Sapor No. 17 pattern Sargo No. 18 pattern Sarre No. 19 pattern Sasin No. 20 pattern	Sauce No. 22 pattern Savey No. 23 pattern Savor No. 24 pattern Saxon No. 25 pattern Sebol No. 26 pattern Sogon No. 28 pattern Sokol No. 29 pattern Sogud No. 108 pattern
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CROSS CUT SAWS

Prosy Pacific Coast pat	ut to ends Psalm Special Steel Puffy Segment Ground
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STYLES OF TEETH

Rabgo. No. 1 Rex Rabny No. 2 Rex Radad No. 3 Peerless Rapad No. 4 Perfection Rache No. 5 Perfection Rabat No. 21 Diamond Rabol No. 22 Diamond Rabbi No. 18 Dexter Rabif No. 19 Dexter Rably No. 20 Dexter Rably No. 20 Dexter Radix No. 6 Hemlock King Rainy No. 218 Dexter Rally No. 219 Dexter Rampe No. 220 Dexter Raspe No. 77 Moss Back Rarry No. 277 Moss Back	Rater. No. 78 Moss Back Ratob No. 278 Moss Back Razor No. 72 Moss Back Razsy No. 272 Moss Back Ravel No. 73 Moss Back Ravol No. 73 Moss Back Razon No. 76 Moss Back Razno No. 76 Moss Back Razno No. 276 Moss Back Razna No. 276 Moss Back React No. 225 Victor Reaks No. 227 Lance Realm No. 221 Diamond Rebel No. 222 Diamond Rebel No. 222 Diamond Rebus No. 233 Lone Star Redan No. 330 Tuttle Redif No. 331 Tuttle Redif No. 332 Tuttle	Reefy No. 317 Matchless Reesk No. 709 Matchless Reetu No. 316 Improved Universa Reevy No. 710 Improved Universal Reina. No. 333 American Relax No. 334 American Relet No. 337 Common Relic No. 338 Common Renne No. 336 Feather Edge Repel No. 335 Hickory Ripen No. 11 Rex Falling Risel No. 12 Perfection Falling Rinst No. 518 Rinst No. 518 Rinst No. 550 Rench No. 553

HOLLOW BACK SAWS

Regal No. 383 Hollow Back Improved Universal	Relpo No. 384 Hollow Back Diamond
Rekly No. 382 Hollow Back Matchless	Risky No. 385 Hollow Back American
Regop No. 379 Hollow Back Tuttle	Risus No. 386 Hollow Back Victor
Regby No. 380 Hollow Back Tuttle	Rispy No. 387 Hollow Back Victor
Relly No. 381 Hollow Back Tuttle	Rizza No. 388 Hollow Back Victor

ONE-MAN SAWS

Rithe No. 389 One-Man Cedar King	Rocta No. 391 One-Man Diamond
Roach No. 390 One-Man Tuttle	Rocky No. 392 One-Man Victor
Roams . No. 393 One-Man American	Rocob No. 394 One-Man Victor
Robin No. 395 One-Man American	Roddy One-Man Saws, Silver Steel
Robeg . No. 741 One-Man Tamarack	Romac No. 654 One-Man

PACIFIC COAST PATTERNS

Roody No. 51 Tyee Rowdy No. 52 Howatson Rumly No. 251 Tyee Rupgo No. 252 Howatson Rough No. 64 Redwood King Rovty No. 65 Redwood King Rovza No. 66 Redwood King	Rabby No. 68 Eureka Racno No. 69 Eureka Falling Rowel No. 55 Perfection Roost No. 259 Dexter Rotta No. 605 Dexter Rowme No. 360 Victor Rowby No. 703 Victor	Rubly. No. 704 Lance Rubin. No. 362 Diamond Rudbo. No. 706 Diamond Ruble. No. 263 Tuttle Rubna. No. 708 Tuttle Rugby. No. 707 Tuttle Ruter. No. 544 Inland Empire
Royle No. 67 Redwood Falling	RuachNo. 361 Lance	Ratta No. 545 Acme

AUSTRALASIAN PATTERNS

Rugso No. 47 Auckland Ruche No. 15 Auckland R	umal No. 241 Tasmanian umpy No. 41 Tasmanian upco No. 242 Jarrah usly No. 42 Jarrah ummy Russian
---	--

HAND SAWS

Seely No. 51 Serin Segue No. 52 Serry Seity No. 53 Sessa Sendo No. 54 Setee Sense No. 55 Sewer Sepia No. 56 Shade Serge No. 57 Shail	No. 58 No. 59 No. 60 No. 61 No. 62 No. 63 No. 64	Shaky No. 65 Shama No. 66 Shand No. 67 Shark No. 68 Shawl No. 69 Shear No. 70 Sheek No. 71	Shiel No. 72 Shift No. 73 Shine No. 74 Shirl No. 76 Shoal No. 83 Shock No. 84 Shole No. 86	Shute No. 93 Shure No. 94 Shupy No. 96 Shust No. 99 Shoot No. 400 Showy No. 401
Shrew. 32-inch Rip Saw Shrub. 30-inch Rip Saw Shurf. 28-inch Rip Saw Silor. 26-inch Rip Saw Siege. 26-inch Hand Saw	Silky Sinew Singe Sipid Sipol	28-inch Hand 30-inch Hand 24-inch Panel 22-inch Panel Silver	Saw Sirup Saw Sissy Saw Skein	20-inch Panel Saw 18-inch Panel Saw 16-inch Panel Saw 14-inch Panel Saw Hand, Rip and Panel

POINTS TO THE INCH

Skink 1 point to inch Skirt 2 points to inch (1 tooth to thei nch) Slack 3 points to inch (2 teeth to the inch) Slave 4 points to inch (3 teeth to the inch) Sleds 5 points to inch (4 teeth to the inch) Sleep 6 points to inch (5 teeth to the inch)	Slime. 7 points to inch (6 teeth to the inch) Slirt. 8 points to inch (7 teeth to the inch) Slued. 9 points to inch (8 teeth to the inch) Slump. 10 points to inch (9 teeth to the inch) Slush. 11 points to inch (10 teeth to the inch) Slyly. 12 points to inch (11 teeth to the inch)
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CROSS CUT AND HAND SAW TOOLS

Excelsior No. 1 Excelsior No. 2 Excelsior No. 5 Perfection Sayon. Scala. Skido Scalp Scamp Scant . . Rex Dexter

Scars... Single Raker Gauges

Scaup ... Double Raker Gauges Scene ... Improved Criterion Saw Set Scion ... Criterion Band Saw Set Scoff ... Hammer for Setting Saws

Sculp ... Raker Swage Scurf ... Perfect Saw Set Seary ... Perfect Saw Set and Vise Sebum... Atkins Saw Filer No. 4 Saw Set No. 5 Saw Set No. 1 AAA Clamp No. 2 AAA Clamp Sebty.... Senty.. Senso

ATKINS SPECIALTIES

No. 7 Kwik-Kut
No. 7 Kwik-Kut Motor Drive
No. 14 Kwik-Kut
No. 12 Kwik-Kut
No. 00 Ideal Swage
No. 0 Ideal Swage
No. 1 Ideal Swage
No. 1 Ideal Swage
No. 2 Ideal Swage Vabar Vabes Vabby Vabut Vebal . . . Vebor . . . Vecac. Veces .

No. 3 Ideal Swage No. 4 Ideal Swage No. 5 Ideal Swage No. 6 Ideal Swage No. 7 Ideal Swage No. 8 Ideal Swage No. 9 Ideal Swage No. 1 Pribnow Shaper Vecby. Vedgo... Vedka... Venet... Veppy Vibba Vicco . Vidab . Veder ... AAA Saw Guard

No. 2 Pribnow Shaper No. 17 Pribnow Shaper No. 28 Pribnow Shaper Viddy . . Viddy. Vigga. Vikob. Vobby Vocar Vikob. No. 28 Fribnow Shaper Vobby Hamlet Dimension Gauge Vocar O. K. Saw Guard Vodan AAA Car Mover Vodor Rogers Belt Punch Vogab Goodyear Load Binder

CENTS

Watly\$	0 01	Warot \$	0.26	Wesit	0.51	Wondo \$	0.76
Wadlo	.02	Waspy	.27	Wesdo	. 52	Wonso	.77
Waber	03	Wasgo	.28	Wesky	. 53	Wonty	.78
Wably	04	Waxor	.29	Whade	.54	Wopab	.79
Wadam	05	Waxol	.30	Whady	. 55	Wopel	.80
Wadoo	.06	Waxin	.31	Whole	. 56	Wopfy	.81
Wadby	.07	Webel	.32	Widmy	.57	Wopia	. 82
Wadky	.08	Webon	.33	Widar	.58	Wrant	.83
Wafbu	09	Webly	.34	Widuk	. 59	Wrink."	.84
Wafby	.10	Webia	.35	Widan	. 60	Wroby	. 85
Wagba	11	Weber	.36	Wilus	.61	Wunat	.86
Wagno	.12	Wecma	.37	Wilde	. 62	Wunor	.87
Wagbu	13	Wedin	.38	Wilze	. 63	Wungo	. 88
Wagso	.14	Wedal	.39	Wilit	. 64	Wurra	.89
Walfu	15	Wedme	40	Winty	. 65	Wurte	.90
Walbo	.16	Wedly	.41	Winal	. 66	Wutly	.91
Walit	.17	Welky	.42	Winke	. 67	Wutbo	.92
Walus	.18	Welet	.43	Witty	.68	Wutse	.93
Wamky	.19	Welan	.44	Witon	. 69	Wutky	.94
Wamut	20	Welba	.45	Witgy	.70	Wutne	.95
Wamma	21	Wenso	.46	Wobey	.71	Wuyer	.96
Wamfy	.22	Wenic	.47	Wobal	.72	Wuymo	.97
Waney	23	Wenny	.48	Wobby	.73	Wuyly	.98
Wapga	24	Werry	.49	Wobjo	.74	Wuyin	.99
Waper	25	Werdy	.50	Wobie	.75		
11 100000000000000000000000000000000000	- AP ()	TE	100000000000000000000000000000000000000				

DOLLARS

Tabby	\$ 1.00	Taunt\$26	6.00	Thole	\$51.00	Trabs \$	76.00
Tabes	2.00	Tawny 27		Thyme		Track	77.00
Taboo	3.00	Taxis 28		Tibia		Traik	78.00
Tabut	4.00	Tazel 29	9.00	Tidal	54.00	Tramp	79.00
Tache	5.00	Teach 30	0.00	Tiddy	55.00	Trash	80.00
Tacit	6.00	Teals 31		Tiler	56.00	Trays	81.00
Tacky	7.00			Tinca	57.00	Tread	82.00
Taffy	8.00	Tecum 33		Tinea	58.00	Treen	83.00
Tagma		Teens 34		Tinge	59.00		84.00
Taint	10.00				60.00	Trick	85.00
Talen					61.00	Trims	86.00
Talky		Temse 37			62.00	Trist	87,00
Talou		Tench 38			63.00	Troll	88.00
Talus		Tendo 39			64.00		89.00
Tambo		Tenet 40		Tonga		Truss	90.00
Tamer		Tenia 41			66.00	Truth	91.00
Tamus		Tenor 42	2.00	Горіа	67.00	Tufty	92.00
Tangy				rorso		Tumid	93.00
Tanha		Terin 44		Torus			94.00
Tapis	20.00				70.00		95.00
Tardy		Terza 46			71.00		96.00
		Testa 47		Touch			97.00
Tarse	23.00	Teyne 48		Towar		Twang	
	24.00	Theak 49		Towse		Twill	
Tauga	25.00	Thein 50	0.00	Toyon	75.00	Twine 1	.00.00

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:

```
For numbers from 2001 to
For numbers from 3001 to
For numbers from 4001 to
For numbers from 5001 to
For numbers from 5001 to
For numbers from 5001 to
For numbers from 6001 to
For numbers from 7001 to
For numbers from 8001 to
For numbers from 8001 to
For numbers from 8001 to
For numbers from 9001 to
```

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 Radki.	For No. 7795 the word would be Wamug.
For No. 4444 the word would be Sahft.	For No. 8905 the word would be Yaqag.
For No. 9999 the word	would be Zaqux.

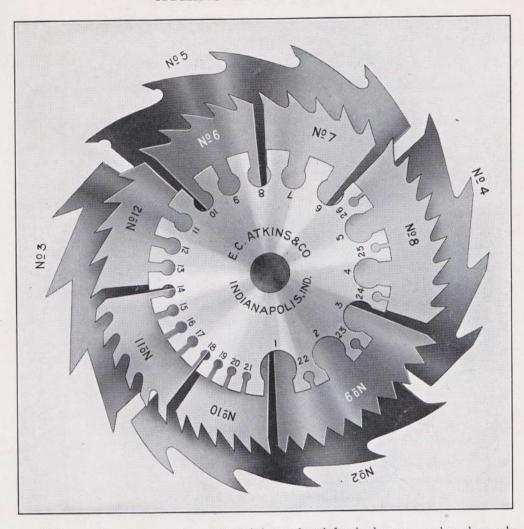
1 Mabab	o danaman		*** ** *	100 15 1	229 Mafdi	286 Mafox	343 Magfr
Mabar	1 Mabab	58 Mabik	115 Madas	172 Madma			
Natabar							
4 Mabad 52 Mabig 119 Madaw 176 Madns 233 Mafel 290 Mafrm 347 Maggm 7 Mabad 63 Mabis 120 Madax 177 Madnu 234 Mafee 291 Mafra 348 Maggn 7 Mabad 64 Mabit 121 Maday 178 Madnu 235 Mafee 292 Mafas 349 Maggu 9 Mabal 66 Mabit 122 Madaz 179 Madog 236 Mafee 293 Mafue 350 Maggy 10 Mabam 67 Mabix 124 Madee 180 Madon 238 Mafee 294 Mafud 351 Magli 11 Mabam 68 Mabk 125 Madek 182 Madon 238 Mafee 295 Mafu 352 Maglb 12 Mabap 69 Mabko 126 Madee 184 Madon 238 Mafee 296 Mafu 354 Maglf 13 Mabaq 70 Mabku 127 Madee 184 Mados 241 Mafa 299 Mafu 354 Maglf 14 Mabar 71 Mabku 127 Madee 185 Madoo 224 Maffr 300 Mafuy 355 Maglf 15 Mabas 72 Mabma 129 Madee 189 Madoo 224 Maffr 301 Magad 368 Magin							
5 Mabal 63 Mabis 120 Madax 177 Madnu 234 Mafek 291 Mafru 348 Maggu 84 Mabal 64 Mabis 121 Maday 178 Madonx 235 Mafee 292 Mafsa 349 Maggu 85 Mabal 66 Mabiw 122 Madax 179 Madog 236 Mafee 293 Mafue 350 Maggy 94 Mabal 66 Mabiw 122 Madax 179 Madog 236 Mafee 293 Mafue 350 Maggy 100 Mabam 67 Mabix 124 Madee 181 Madon 238 Mafees 295 Mafug 352 Maglu 10 Mabam 68 Mabk 125 Madee 181 Madon 238 Mafees 296 Mafun 353 Maglu 12 Mabap 69 Mabko 126 Madeem 183 Mador 240 Mafex 297 Mafur 344 Maglu 12 Mabap 69 Mabko 126 Madeem 183 Mador 240 Mafex 297 Mafur 344 Maglu 14 Mabar 71 Mabky 128 Madeu 185 Madou 242 Mafin 298 Mafux 356 Maglu 14 Mabar 71 Mabky 128 Madeu 185 Madou 242 Mafin 298 Mafux 366 Maglu 16 Mabat 73 Mabmu 131 Madds 188 Madra 244 Mafin 299 Mafux 366 Maglu 17 Mabau 74 Mabmu 131 Madds 188 Madra 244 Mafin 300 Mague 357 Maglu 18 Mabaw 76 Mabns 133 Maded 188 Madra 245 Mafur 301 Magad 360 Magin 180 Mabaw 76 Mabns 133 Maded 180 Madru 247 Mafur 303 Magad 360 Magin 180 Mabaw 76 Mabns 133 Madeel 191 Mafur 248 Mafur 304 Magaf 361 Magin 200 Mabax 77 Mabons 133 Madeel 192 Mados 249 Mafur 304 Magaf 361 Magin 200 Mabaw 76 Mabns 133 Madeel 192 Mados 249 Mafur 304 Magaf 361 Magin 200 Mabaw 76 Mabns 133 Madeel 192 Mados 249 Mafur 304 Magaf 364 Magin 200 Mabaw 76 Mabon 137 Mader 194 Madu 251 Mafia 309 Magad 366 Magin 200 Mabaw 77 Mabon 133 Madeel 192 Mados 249 Mafur 300 Magad 366 Magin 200 Mabaw 77 Mabon 134 Mader 194 Madu 251 Mafia 309 Magad 366 Magin 200 Mabaw 360 Mabon 137 Mader 194 Madu 251 Mafia 309 Magad 366 Magin 200 Mabaw 360 Mabon 137 Mader 194 Madu 251 Mafia 309 Magad 366 Magin 200 Mabaw 360 Magad 360 Magin 360 Magad 360 Magin 360 Magad 360 Magin 360 Magad 360 Magin 360 Magad 360 Magad 360 Magin 360							
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8 Mabak 65 Mabiw 122 Madaz 179 Madog 236 Mafec 293 Mafuc 350 Maggy 9 Mabal 66 Mabiw 123 Madoc 181 Madon 237 Mafec 295 Mafug 352 Magib 110 Mabam 66 Mabix 124 Madoc 181 Madon 238 Mafec 295 Mafug 352 Magib 110 Mabam 66 Mabix 124 Madoc 181 Madon 238 Mafec 295 Mafug 352 Magib 110 Mabam 67 Mabix 125 Madoc 181 Madon 238 Mafec 296 Mafug 352 Magib 110 Mabam 67 Mabku 125 Madoc 181 Madon 238 Mafec 296 Mafug 352 Magib 110 Mabam 67 Mabku 126 Madom 183 Mador 240 Mafex 297 Mafur 354 Magid 110 Mabam 77 Mabku 127 Madoc 181 Mados 241 Maffa 298 Mafux 355 Magig 141 Mabam 77 Mabku 128 Madou 185 Madou 242 Maffn 299 Mafux 356 Magib 150 Mabam 77 Mabhm 130 Maddo 187 Madoa 244 Mafft 301 Magab 355 Magib 16 Mabat 73 Mabom 130 Maddo 187 Madoa 244 Mafft 301 Magab 358 Magil 17 Mabau 74 Mabom 131 Madds 188 Madra 245 Maffu 302 Magad 360 Magin 180 Mabaw 75 Mabon 132 Madod 189 Madrm 246 Maffy 302 Magad 360 Magin 180 Mabaw 76 Mabon 133 Madej 190 Madru 247 Mafgm 304 Magad 360 Magin 190 Mabaw 76 Mabon 134 Madok 191 Madru 248 Mafgr 304 Magad 360 Magin 201 Mabaw 77 Mabon 134 Madod 191 Madru 248 Mafgn 305 Magag 362 Magig 21 Mabay 78 Mabon 137 Madoc 192 Madoa 250 Mafgy 307 Magag 362 Magig 22 Mabaz 79 Mabog 136 Madoq 193 Maduc 250 Mafgy 307 Magaj 364 Magus 22 Mabaw 78 Mabon 138 Madoe 193 Maduc 250 Mafgy 307 Magaj 366 Magis 237 Maboc 80 Mabom 138 Mados 195 Maduu 255 Mafib 309 Magaj 366 Magis 257 Mabok 82 Mabon 138 Mados 195 Maduu 256 Mafgy 307 Magaj 366 Magis 257 Mabok 82 Mabon 138 Mados 195 Maduu 256 Mafib 309 Magaj 366 Magis 257 Mabok 82 Mabon 144 Madfu 199 Maduu 256 Mafib 301 Magam 367 Magix 257 Mabok 88 Mabor 140 Madox 197 Maduu 256 Mafib 301 Magam 367 Magix 301 Magad 377 Magin 301 Magam 377 Magin 301 Magam 377 Magin 301 Magam 378 Magun 301 Magam 378 Magin							
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197 Maber 94 Mabug 152 Madib 209 Mafal 266 Mafiw 323 Magca 380 Magon 380 Mabew 96 Mabun 153 Madid 210 Mafam 267 Mafix 324 Magce 381 Magon 40 Mabex 97 Mabur 154 Madif 211 Mafan 268 Mafkf 325 Magck 382 Magon 41 Mabfa 98 Mabus 155 Madig 212 Mafap 269 Mafko 326 Magcm 383 Magon 42 Mabfn 99 Mabux 156 Madih 213 Mafaq 270 Mafku 237 Magcs 384 Magon 42 Mabfr 100 Mabuy 157 Madij 214 Mafar 271 Mafku 237 Magcs 384 Magos 44 Mabfr 101 Madab 158 Madik 215 Mafas 272 Mafku 328 Magcu 385 Magou 44 Mabfr 101 Madab 158 Madik 215 Mafas 273 Mafmn 330 Magdo 387 Magos 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 Magra 49 Mabgu 106 Madah 163 Madis 220 Mafax 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 235 Magen 392 Magru 50 Mabgu 108 Madak 165 Madiw 222 Mafaz 279 Mafos 336 Mageq 393 Magus 52 Mabib 109 Madal 166 Madiw 222 Mafaz 279 Mafos 336 Mages 395 Magus 53 Mabid 110 Madam 167 Madik 222 Mafec 281 Mafon 338 Mages 395 Magus 54 Mabif 111 Madan 168 Madik 225 Mafek 282 Mafon 339 Magew 396 Magus 54 Mabil 113 Madaq 170 Madku 227 Mafes 224 Mafes 224 Mafes 224 Mafes 224 Mafes 234 Mafes 341 Magfa 339 Magus 340 Magus							
38 Mabes							
Mabex 97 Mabur 154 Madif 211 Mafan 268 Mafkf 325 Magck 382 Magor 41 Mabfa 98 Mabus 155 Madig 212 Mafap 269 Mafko 326 Magcm 383 Magor 384 Magor 384 Magor 384 Magor 385 Magor 384 Magor 385 Mabfr 100 Mabuy 157 Madij 214 Mafar 271 Mafku 237 Magcs 384 Magos 385 Magor							
40 Mabra 98 Mabus 155 Madig 212 Malap 269 Mafko 326 Magcm 383 Magor 42 Mabra 99 Mabux 156 Madih 213 Mafaq 270 Mafku 237 Magcs 384 Magos 484 Mabra 100 Mabuy 157 Madij 214 Mafar 271 Mafky 328 Magcu 385 Magou 484 Mabra 101 Madab 158 Madik 215 Mafas 272 Mafma 329 Magdi 386 Magou 485 Mabra 102 Madac 159 Madim 216 Mafat 273 Mafma 329 Magdi 386 Magou 486 Mabry 103 Madad 160 Madin 217 Mafau 274 Mafma 331 Magds 388 Magra 47 Mabra 105 Madag 161 Madip 218 Mafav 275 Mafma 332 Maged 389 Magra 48 Mabra 105 Madag 162 Madia 219 Mafaw 276 Mafma 333 Maged 389 Magra 49 Mabra 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 49 Mabra 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 50 Mabra 108 Madak 165 Madiu 222 Mafax 277 Mafnu 334 Magek 391 Magra 50 Mabra 108 Madak 165 Madiu 222 Mafax 279 Mafou 336 Mageq 399 Magra 52 Mabib 109 Madal 166 Madiw 223 Mafca 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madik 224 Mafee 281 Mafon 338 Magew 395 Magun 54 Mabif 111 Madan 168 Madkf 225 Mafee 281 Mafon 339 Magew 396 Magun 550 Mabil 112 Madap 169 Madku 226 Mafem 281 Mafon 339 Magew 396 Magun 550 Mabil 113 Madaq 170 Madku 227 Mafee 281 Mafon 339 Magew 396 Magun 550 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 340 Magex 397 Magun 550 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magfa 398 Magus 550 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magfa 398 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 399 Magus 356 Mabih 113 Madaq 170 Madku 227 Mafee 284 Mafor 344 Magra 349 Magus 344 Magra							
42 Mabfn 99 Mabux 156 Madih 213 Mafaq 270 Mafku 237 Mages 384 Magos 48 Mabfr 100 Mabuy 157 Madij 214 Mafar 271 Mafky 328 Mageu 385 Magou 44 Mabfr 101 Madab 158 Madik 215 Mafas 272 Mafma 329 Magdi 386 Magox 45 Mabfu 102 Madac 159 Madim 216 Mafat 273 Mafma 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 Mafmg 332 Maged 389 Magra 48 Mabgn 105 Madag 162 Madiq 219 Mafaw 276 Mafng 332 Maged 389 Magra 49 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 49 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 50 Mabgy 107 Madaj 164 Madit 221 Mafay 278 Mafnx 235 Magen 392 Magsa 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafox 336 Mageq 393 Maguc 52 Mabib 109 Madal 166 Madiw 223 Mafca 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magun 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabid 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabid 111 Madan 168 Madkf 226 Mafem 283 Mafor 340 Magex 397 Magur 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafor 349 Magus 349 Magus 356 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 356 Magus 366 Magin 370 Magur 370 Ma							
42 Mabhr 100 Mabuy 157 Madij 214 Mafar 271 Mafky 328 Mageu 385 Magou 44 Mabhr 101 Madab 158 Madik 215 Mafas 272 Mafma 329 Magdi 386 Magox 45 Mabhr 102 Madac 159 Madim 216 Mafat 273 Mafmn 330 Magdo 387 Magpa 46 Mabhy 103 Madad 160 Madin 217 Mafau 274 Mafmu 331 Magds 388 Magra 47 Mabm 104 Madaf 161 Madip 218 Mafav 275 Mafm 332 Maged 389 Magra 48 Mabm 105 Madag 162 Madiq 219 Mafaw 276 Mahms 333 Magej 390 Magra 49 Mabm 104 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 381 Magra 49 Mabm 105 Madah 163 Madis 220 Mafax 277 Mahm 334 Magek 391 Magra 50 Mabm 107 Madaj 164 Madit 221 Mafay 278 Mahm 235 Magen 392 Magra 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafox 336 Mageq 393 Magus 52 Mabib 109 Madal 166 Madiw 223 Mafac 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafor 344 Magfa 398 Magus 55 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafor 344 Magfa 398 Magus 356 Magus 375 Magur 378 Magur 37							
44 Mabít 101 Madab 158 Madik 215 Mafas 272 Mafma 329 Magdi 386 Magox 45 Mabít 102 Madac 159 Madim 216 Mafat 273 Mafma 330 Magdo 387 Magpa 46 Mabíy 103 Madad 160 Madin 217 Mafau 274 Mafmu 331 Magds 388 Magra 47 Mabgm 104 Madaf 161 Madip 218 Mafav 275 Mafma 332 Maged 388 Magra 48 Mabgn 105 Madag 162 Madiq 219 Mafaw 276 Mafns 333 Maged 389 Magra 48 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 49 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magra 50 Mabgy 107 Madaj 164 Madit 221 Mafay 278 Mafnx 235 Magen 392 Magsa 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafox 336 Mageq 393 Maguc 52 Mabib 109 Madal 166 Madiw 223 Mafca 280 Mafox 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafon 339 Magew 396 Magun 55 Mabig 112 Madap 169 Madku 226 Mafee 281 Mafor 340 Magex 397 Magur 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafor 349 Magus 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafor 341 Magfa 398 Magus 396 Magus 396 Magus 396 Magus 396 Magus 396 Magus 396 Magus 398 Magus 3							
44 Mabfu 102 Madac 159 Madim 216 Mafat 273 Mafmu 330 Magdo 387 Magpa 46 Mabfu 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 Magra 48 Mabgn 105 Madag 162 Madiq 219 Mafaw 276 Mafng 333 Magej 389 Magra 49 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magru 49 Mabgu 107 Madaj 164 Madit 221 Mafay 278 Mafnu 334 Magek 391 Magru 50 Mabag 108 Madak 165 Madiu 222 Mafaz 279 Mafnu 336 Mageq 393 Magra 52 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafnu 336 Mageq 393 Magus 52 Mabib 109 Madal 166 Madiu 222 Mafaz 279 Mafog 336 Mageq 393 Magus 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 Mafck 282 Mafop 339 Magew 396 Magus 55 Mabid 110 Madap 169 Madku 226 Mafcm 338 Mages 395 Magug 55 Mabil 113 Madaq 170 Madku 227 Mafcs 284 Mafop 339 Magew 396 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafcs 284 Mafos 341 Magfa 398 Magus 396 Magus 397 Magur 399 Magus 398 Magus 3							
46 Mably 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 235 Magen 392 Magra 50 Mabgu 108 Madak 165 Madiu 222 Mafax 279 Mafnu 334 Magek 391 Magru 51 Mabia 108 Madak 165 Madiu 222 Mafax 279 Mafnu 336 Mageq 393 Magus 52 Mabib 109 Madal 166 Madiu 222 Mafax 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafon 339 Magew 396 Magun 55 Mabif 111 Madan 168 Madkf 225 Mafee 281 Mafon 339 Magew 396 Magun 55 Mabid 110 Madap 169 Madku 226 Mafem 283 Mafor 340 Magex 397 Magur 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 396 Magus 397 Magus 398 Magus							
46 Mably 103 Madad 160 Madin 211 Mafav 275 Mafng 332 Maged 389 Magrm 48 Mabgn 105 Madag 162 Madiq 219 Mafaw 276 Mafng 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 235 Magen 392 Magra 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafng 336 Mageq 393 Mague 52 Mabib 109 Madal 166 Madiw 222 Mafaz 279 Mafog 336 Mageq 393 Mague 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magus 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabid 112 Madap 169 Madku 226 Mafem 283 Mafor 339 Magew 396 Magun 55 Mabid 112 Madap 169 Madku 226 Mafem 283 Mafor 340 Magex 397 Magur 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 285 Mafes 344 Magfa 398 Magus 396 Magus 397 Magus 397 Magus 398 Magus 399 Magus 39							
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 235 Magen 392 Magsa 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafog 336 Mageq 393 Magus 52 Mabib 109 Madal 166 Madiw 223 Mafca 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Magew 396 Magun 55 Mabif 112 Madap 169 Madko 226 Mafem 283 Mafor 340 Magex 397 Magur 55 Mabil 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 396 Magus 396 Magus 396 Magus 396 Magus 397 Magur 398 Magus 398 Ma							
48 Mabgu 106 Madah 163 Madis 220 Mafax 277 Mafnu 334 Magek 391 Magru 50 Mabgu 107 Madaj 164 Madit 221 Mafay 278 Mafnu 235 Magen 392 Magsa 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafog 336 Mageq 393 Maguc 52 Mabib 109 Madal 166 Madiw 223 Mafea 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magud 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 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 388 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 389 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 389 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 389 Magus 389 Magus 389 Magus 380 Mag							
49 Mabgu 106 Madar 163 Madis 225 Mafax 278 Mafinx 235 Magen 392 Magsa 50 Mabis 107 Madaj 164 Madit 221 Mafay 278 Mafinx 235 Magen 392 Magsa 51 Mabia 108 Madak 165 Madiu 222 Mafaz 279 Mafog 336 Mageq 393 Mague 52 Mabib 109 Madal 166 Madiw 223 Mafea 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 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 Madaq 170 Madku 227 Mafes 224 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 224 Mafos 341 Magfa 398 Magus 396 Magus 396 Magus 397 Magur 399 Magus 398							
50 Maby 107 Mada 164 Madic 222 Madic 279 Mafog 336 Mageq 393 Mague 51 Mabia 108 Madak 165 Madiu 222 Mafac 280 Mafom 337 Mager 394 Magud 52 Mabib 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafop 339 Mageew 396 Magun 55 Mabig 112 Madap 169 Madku 226 Mafem 283 Mafor 340 Magex 397 Magur 56 Mabih 113 Madaq 170 Madku 227 Mafes 224 Mafos 341 Magfa 398 Magus							
51 Mabia 108 Madal 166 Madiw 222 Mafea 280 Mafom 337 Mager 394 Magud 52 Mabib 109 Madal 166 Madiw 223 Mafee 280 Mafom 337 Mager 394 Magud 53 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magud 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 Madaq 170 Madku 227 Mafes 224 Mafos 341 Magfa 389 Magus 36 Magux 395 Magus 390 Magux 390 Magux 390 Magux							
52 Mabid 110 Madam 167 Madix 224 Mafee 281 Mafon 338 Mages 395 Magug 54 Mabif 111 Madan 168 Madkf 225 Mafek 282 Mafon 339 Magew 396 Magun 55 Mabig 112 Madap 169 Madko 226 Mafem 283 Mafor 340 Magex 397 Magur 56 Mabih 113 Madaq 170 Madku 227 Mafes 224 Mafos 341 Magfa 398 Magus 360 Magun 370 Magun							
54 Mabif 111 Madan 168 Madki 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 Madaq 170 Madku 227 Mafes 284 Mafor 341 Magfa 398 Magus 366 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafor 341 Magfa 398 Magus 342 Magfa 399 Magus 365 Magus							
55 Mabig 112 Madap 169 Madko 226 Mafcm 283 Mafor 340 Magex 397 Magur 56 Mabih 113 Madaq 170 Madku 227 Mafcs 284 Mafor 341 Magfa 388 Magus 364 Magfa 389 Magus 375 Mafor 375 Mafo							
55 Mabig 112 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 398 Magus 56 Mabih 113 Madaq 170 Madku 227 Mafes 284 Mafos 341 Magfa 399 Magus							
56 Mabih 113 Madaq 170 Madku 221 Mates 205 Mafey 342 Magfn 399 Magux							
57 Mabij 114 Madar 171 Madky 226 Maicu 265 Maiou 542 Magin 666 Magin							
	57 Mabij	114 Madar	111 Madky	220 Maica	200 Maiou		



NUMERICAL CODE—Continued

100 35	ACC Makes	ETO Maima	658 Makik	744 Mamft	830 Mando	916 Maqat
400 Maguy	486 Mahox	572 Majma				
401 Mahab	487 Mahpa	573 Majmn	659 Makim	745 Mamfu	831 Mandu	917 Maqau
402 Mahac	488 Mahra	574 Majmu	660 Makin	746 Mamfy	832 Maned	918 Magav
403 Mahad	489 Mahrm	575 Majng	661 Makip	747 Mamgm	833 Manej	919 Magaw
404 Mahaf	490 Mahrn	576 Majns	662 Makiq	748 Mamgn	834 Manek	920 Magax
405 Mahag	491 Mahru	577 Majnu	663 Makis	749 Mamgu	835 Manen	921 Maqay
406 Mahah	492 Mahsa	578 Majnx	664 Makit	750 Mamgy	836 Maneq	922 Maqaz
			665 Makiu	751 Mamia	837 Maner	923 Maqca
407 Mara	493 Mahue					
408 Mahak	494 Mahud	580 Majom	666 Makiw	752 Mamib	838 Manew	924 Maqce
409 Mahal	495 Mahug	581 Majon	667 Makix	753 Mamid	839 Manex	925 Maqek
	496 Mahun	582 Majop	668 Makkf	754 Mamif	840 Manez	926 Magem
410 Maham						
411 Mahan	497 Mahur	583 Majoq	669 Makko	755 Mamig	841 Manfa	927 Mages
412 Mahap	498 Mahus	584 Majos	670 Makku	756 Mamih	842 Manfn	928 Maqeu
413 Mahaq	499 Mahux	585 Majou	671 Makky	757 Mamij	843 Manfr	929 Maqdi
			672 Makma	758 Mamik	844 Manft	930 Magdo
414 Mahar	500 Mahuy	586 Majox				
415 Mahas	501 Majab	587 Majpa	673 Makmn	759 Mamim	845 Manfu	931 Maqdu
416 Mahat	502 Majac	588 Majra	674 Makmu	760 Mamin	846 Manfy	932 Maqed
	503 Majad	589 Majrm	675 Makng	761 Mamio	847 Mangm	933 Maqej
417 Mahau						
418 Mahay	504 Majai	590 Majrn			848 Mangn	934 Maqek
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 Mageq
		593 Majuc	679 Makog	765 Mamiu	851 Mania	937 Mager
421 Mahay	507 Majaj					
422 Mahaz	508 Majak	594 Majud	680 Makom	766 Mamiw	852 Manib	938 Maqes
423 Mahca	509 Majal	595 Majug	681 Makon	767 Mamix	853 Manid	939 Magew
	510 Majam	596 Majun	682 Makop	768 Mamkf	854 Manif	940 Magex
424 Mahce			683 Makor	769 Mamko	855 Manig	
425 Mahck	511 Majan	597 Majur				
426 Mahem	512 Majap	598 Majus	684 Makos	770 Mamku	856 Manih	942 Maqfn
427 Mahcs	513 Majaq	599 Majux	685 Makou	771 Mamky	857 Manij	943 Magfr
			686 Makox	772 Mammf	858 Manik	944 Maqft
428 Mahcu	514 Majar					
429 Mahdi	515 Majas	601 Makab	687 Makpa	773 Mammn	859 Manim	945 Maqfu
430 Mahdo	516 Majat	602 Makae	688 Makra	774 Mammu	860 Manin	946 Maqfy
		603 Makaf	689 Makrm	775 Mamng	861 Manip	947 Maqgm
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 Maqgu
434 Mahek	520 Majax	606 Makaj	692 Maksa	778 Mamnx	864 Manit	950 Maqgy
	521 Majay	607 Makak	693 Makuc	779 Mamog	865 Maniu	951 Magia
435 Mahen						
436 Maheq	522 Majaz	608 Makal		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 Maqif
		611 Makap	697 Makur	783 Mamor	869 Manko	955 Maqig
439 Mahew						
440 Mahex	526 Majem	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	528 Majcu	614 Makas	700 Makuy	786 Mamox	872 Manma	958 Maqik
443 Mahfr	529 Majdi	615 Makat	701 Mamab	787 Mampa	873 Manmn	959 Maqim
444 Mahft	530 Majdo	616 Makau			874 Manmu	960 Maqin
445 Mahfu	531 Majds	617 Makav	703 Mamad	789 Mamrm	875 Manng	961 Maqip
446 Mahfy	532 Majed	618 Makaw	704 Mamaf	790 Mamrn	876 Manns	962 Maqiq
	533 Majej	619 Makax	705 Mamag	791 Mamru	877 Mannu	963 Magis
448 Mahgn	534 Majek	620 Makay	706 Mamah		878 Mannx	964 Maqit
449 Mahgu	535 Majen	621 Makaz	707 Mamaj	793 Mamue	879 Manog	965 Maqiu
450 Mahgy	536 Majeq	622 Makca	708 Mamak	794 Mamud	880 Manom	966 Maqiw
451 Mahia	537 Majer	623 Makce	709 Mamal	795 Mamug	881 Manon	967 Maqix
452 Mahib	538 Majes					
453 Mahid	539 Majew	625 Makek	711 Maman	797 Mamur	883 Manor	969 Maqko
454 Mahif	540 Majex	626 Makem	712 Mamap	798 Mamus	884 Manos	970 Maqku
		627 Makes	713 Mamaq	799 Mamux	885 Manou	971 Maqky
					ODG Manou	
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	544 Majft	630 Makdo	716 Mamau	802 Manae	888 Manra	974 Maqmu
		631 Makds	717 Mamay	803 Manad	889 Manrm	975 Maqng
460 Mahin	546 Majfy	632 Makeb		804 Manaf		976 Maqnu
461 Mahip	547 Majgm	633 Makej	719 Mamax	805 Manag	891 Manru	977 Maqnx
462 Mahiq	548 Majgn	634 Makek	720 Mamay	806 Manah	892 Mansa	978 Maqog
463 Mahis	549 Majgu	635 Maken	721 Mamaz	807 Manaj	893 Manue	979 Magom
		636 Makeq	722 Mamca	808 Manak	894 Manud	980 Magon
464 Mahit						
465 Mahiu	551 Majia	637 Maker	723 Mamce	809 Manal	895 Manug	981 Maqop
466 Mahiw	552 Majib	638 Makeu	724 Mamef	810 Manam	896 Manun	982 Maqor
467 Mahix	553 Majid	639 Makew	725 Mamck	811 Manan	897 Manur	983 Magos
			726 Mamem	812 Manap	898 Manus	984 Maqou
468 Mahkf	554 Majif	640 Makex				
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	986 Maqpa
471 Mahky	557 Majij	643 Makfr	729 Mamdi	815 Manas	901 Magab	987 Magra
		644 Makft	730 Mamdo	816 Manat	902 Magac	988 Magrm
472 Mahma		CAT 35-1-5-			903 Magad	
473 Mahmn	559 Majim	645 Maktu	731 Mamds	817 Manau	903 Magad	989 Maqrn
474 Mahmu	560 Majin	646 Makfy	732 Mameb	818 Manay	augai	990 Maqru
475 Mahng	561 Majip	647 Makgm	733 Mamej	819 Manaw	905 Magag	991 Maqry
476 Mahns	562 Majiq	648 Makgn	734 Mamek	820 Manax	906 Magah	992 Maqsa
			735 Mamen		907 Maqaj	993 Maqsy
477 Mahnu	563 Majis	649 Makgu			oor Madaj	
478 Mahnx	564 Majit	650 Makgy	736 Mameq	822 Manaz	908 Maqak	994 Maque
479 Mahog	565 Majiu	651 Makia	737 Mamer	823 Manca	909 Maqal	995 Maqud
480 Mahom	566 Majiw	652 Makib	738 Mameu	824 Mance	910 Magam	996 Magner
	ERT Malle	653 Makid	739 Mamew	825 Manck	911 Maqan	997 Maqun
481 Mahon	567 Majix	CEA Makid			019 Magan	000 Magun
482 Mahop	568 Majkf	654 Makif	740 Mamex	826 Manem	912 Maqap	998 Maqur
483 Mahor	569 Majko	655 Makig	741 Mamfa	827 Manes	913 Maqaq	999 Maqux
484 Mahos	570 Majku	656 Makih	742 Mamfn	828 Mancu	914 Magar	1000 Maquy
485 Mahou	571 Majky	657 Makij	743 Mamfr	829 Mandi	915 Magas	
400 Manou	ori majky	oot maning	Andrea Chicagolicano	224 (2002)	A CONTRACTOR	

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 both large and small solid tooth 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 used on equalizers, 20-inch diameter and smaller, also on half and half saws. It can be used for both ripping and cross cutting.

No. 9 tooth is for cross cutting 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 28.

ATKINS 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.

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.

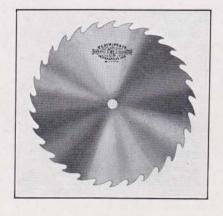
In the tempering rooms, the operatives carry out the directions of the laboratory. This work is done scientifically, through the use of exclusive machinery which reduces the hardening and tempering processes to an absolute certainty.

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 forty years.

Silver Steel files easily, but at the same time is exceedingly hard and tough. It is almost impossible to crack it, unless the saw is run at a disadvantage. It takes a perfect swage and Silver Steel Saws do not easily lose their teeth or 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

Remember that these saws are made of genuine Silver Steel 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.

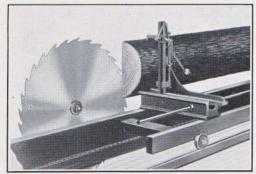
INSTRUCTIONS FOR ORDERING ATKINS CIRCULAR SAWS

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

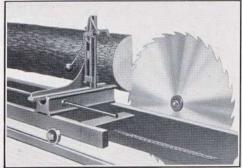
- (a) Diameter of saw in inches.
- (b) Right or left hand (see cut below).
- (c) Gauge (thickness) of saw at center and also at rim.
- (d) Number of teeth in saw.
- (e) Style of pattern of tooth (see cut on page 21).
- (f) Diameter of mandrel hole; diameter of pin holes, and distance center to center of pin holes.
- (g) Number of revolutions of saw per minute while in cut.
- (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 page 41.)
- (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 five-eighths-inch lug pin holes, three inches from center to center. If wanted different, please send full pattern of holes. Order blanks furnished on application.

HAND OR CIRCULAR SAWS







Right Hand

ATKINS CIRCULAR SAWS

THE SPEED OF CIRCULAR SAWS

This is one of the most essential matters to be observed, and no one can give it too much attention. If the speed of the saw is too high, it cannot do good work, besides rendering it liable to many accidents. Too high a speed generates heat in the saw, makes it touchy and limber, so that it will only run and do good work on light feed, while the teeth are in the best of order, and have keen cutting points. As soon as the teeth are dull, the saw will run or dodge whenever it comes in contact with any unusual obstacle. Again, too low a speed has its objections, but it is not attended with such ruinous effects upon the saw. These difficulties can be remedied to a limited extent by the hammering of the saw, but cannot be entirely overcome. We keep in stock speed indicators, with which the speed of saw mandrel can be ascertained.

We have published a book entitled "Saws in the Filing Room," containing general information relative to the care and operation of saws, which will be mailed free to any address on application.

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						

TABLE OF SPEED OF CIRCULAR SAWS

RULES FOR CALCULATING THE SPEED OF 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.



SAW GAUGES

COMPARATIVE TABLE OF GAUGES IN DECIMALS OF AN INCH

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
2	.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
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
8	.165	12849	.160	.171875	31	.010	.008928	.0116	.0109375
9	.148	.11443	.144	.15625	32	.009	.00795	.0108	.01015625
10	.134	.10089	.128	.140625	. 33	.008	.00708	.0100	.009375
11	.120	.090742	.116	.125	34	.007	.006304	.0092	.00859375
12	.109	.080808	.104	.109375	35	.005	.005614	.0084	.0078125
13	.095	.071961	.092	.09375	36	.004	.005	.0076	.00703125
14	.083	.064084	.080	.078125	37		.004453	.0068	.00664069
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 of an Inch	Decimals of an Inch	Fractions of an Inch	Decimals of an Inch	Fractions of an Inch	Decimals of an Inch	Fractions of an Inch	Decimals of an Inch
1 64	.015625	17	.265625	33	.515625	49	.765625
1 32	.03125	9 32	.28125	17	.53125	25 32	.78125
3 2 3 6 4	.046875	19 64	.296875	35	.546875	51	.796875
64 1 16	.0625	5 16	.3125	9 16	.5625	13	.8125
1 6 5 6 4	.078125	21 64	.328125	37	.578125	53	.828125
6 4 3 3 2	.09375	13 32	.34375	19 32	.59375	27 32	.84375
3 2 7 6 4	.109375	23 64	.359375	39	.609375	55	.859375
1/8	125	3/8	.375	5/8	.625	7/8	.875
9 64	.140625	25 64	.390625	41	.640625	5 7 6 4	.890625
64 5 32	.15625	13 32	.40625	$\frac{21}{32}$.65625	29 32	.90625
3 2 11 6 4	.171875	3 2 2 7 6 4	.421895	43	.671875	59	.921875
64 3 16	.1875	64 7 16	.4375	11 16	.6875	15 16	.9375
16 13 64	.203125	$\frac{16}{29}$.453125	45	.703125	61	.953125
64 7 32	.21875	64 15 32	.46875	23 32	.71875	$\frac{31}{32}$.96875
32 15 64	.234375	31 31 64	.484375	47 64	.734375	63	.984375
1/4	.25	1/2	.5	3/4	.75		



ATKINS SOLID TOOTH CIRCULAR SAWS

PATENT GROUND AND TEMPERED

MADE FROM OUR CELEBRATED SILVER STEEL. WORKMANSHIP UNEOUALLED

Diameter Inches	Thickness Gauge	Size of Hole Inches	Price Each	Extra for Each Gauge Heavier	Beveling New Saws per Gauge	Extra fo	Prices r Setting and pening if Cross Cut	Approxima Weight Pounds
4	19	3/4 3/4 7/8	\$1.20	\$0.03	\$0.14	\$0.06	\$0.07	1/4 Net
6	18	3/4	1.80	.05	.18	.07	.10	34 Net
8	18	7/8	2.40	.08	.22	.10	.13	1 Net
10	16	1	3.30	.12	.28	.12	.16	1½ Net
12	15	1	4.40	.20	.35	.15	.20	21/2 Net
14	14	11/8	5.30	.25	.40	.18	.23	31/2 Net
16	14	11/8	6.50	.30	.50	.20	.25	41/2 Net
18	13	11/4	8.00	.40	.60	.23	.28	6 Net
20	13	1 5 16	9.50	.50	.70	.25	.32	
22	12	1 1 6 1 6	11.50	.60	.80			7 Net
24	11	13/8	13.50			.28	.35	10 Net
26	11	13/8	16.00	.70	.90	.31	.40	13 Net
	177.77	11/8		.85	1.05	.35	.45	16 Net
28	10	11/2	18.50	1.00	1.20	.38	.50	21 Net
30	10	11/2	21.00	1.15	1.30	.42	.55	24½ Net
32	10	15/8	24.00	1.30	1.40	.45	.60	27 Net
34	9	15/8	27.00	1.50	1.55	.50	.65	33 Net
36	9	15/8	31.00	1.80	1.70	.55	.70	40 Net
38	9	15/8	35.00	2.00	1.85	.60	.75	49 Net
40	9	2	41.00	2.30	2.00	. 65	.80	100 Gross
42	8	2 2 2	47.00	2.60	2.20		.85	105 Gross
44	8	2	55.00	3.00	2.40		.90	115 Gross
46	8	2	65.00	3.50	2.60		1.00	125 Gross
48	8	2 2	75.00	4.00	2.80		1.10	136 Gross
50	7	2	85.00	4.50	3.00		1.20	148 Gross
52	7	2	95.00	5.00	3.25		1.30	160 Gross
54	7	2	105.00	6.00	3.50		1.40	170 Gross
56	7	2	120.00	7.00	3.75	* * *	1.50	
58	7	õ	135.00	8.00	4.05	* * *		
60	6	2 2	150.00	9.00			1.60	195 Gross
62	6	2	170.00	10.00	4.35	4.4.4	1.70	210 Gross
64	6	2			4.65	200	1.80	225 Gross
-1070	6	2	190.00	12.00	5.00	***	1.90	240 Gross
66		2	210.00	15.00	5.35	4 . 4 . 4	2.00	265 Gross
68	5	2	235.00	18.00	5.75		2.10	285 Gross
70	5	2	265.00	21.00	6.15	4.4.4	2.20	295 Gross
72	5	2	300.00	24.00	6.55		2.30	325 Gross
74	5	2 2	340.00	27.00	7.00		2.40	335 Gross
76	5	2	390.00	30.00	7.50	11111	2.50	350 Gross
78	5	2	465.00	34.00	8.10			365 Gross
80	5	2 2	550.00	38.00	8.80			375 Gross
82	5	2	640.00	43.00	9.60	1005.00		390 Gross
84	5	2	730.00	48.00	10.50	* * *		500 Gross

All saws of odd diameter, not listed, take price of next larger size listed. 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 per cent to list for each gauge. Circular saws 48 inches and larger, thinner than 10 gauge are not warranted. Circular saws 42 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger, beveled two gauges without extra charge. Circular saws hollow ground or concaved, add for each gauge hollow ground or concaved double list for beveling. Bone, horn, and ivory saws, add 50 per cent to above list.

No extra charge for fitting these saws as it is understood that the 50 per cent advance includes fitting. When these saws are hollow ground or beveled, the 50 per cent advance is to apply only on the list price of a straight gauge saw and not to apply to the extras for hollow grinding or beveling.

ATKINS CIRCULAR SAWS

SILVER STEEL, GROUND TAPERING

ATKINS RE-SAWING OR SIDING SAWS

Diameter Inches	Gauge	Price Each	Diameter Inches	Gauge	Price Each
16	13 x 17	\$ 8.00	28	9 x 13	\$22.10
16	12 x 16	8.30	28	9 x 14	23.30
16	11 x 15	8.60	28	8 x 13	24.30
18	12 x 16	9.80	30	9 x 13	24.90
18	11 x 15	10.20	30	9 x 14	26.20
18	12 x 17	10.40	30	8 x 13	27.35
20	12 x 16	11.60	32	9 x 13	28.20
20	11 x 15	12.10	32	9 x 14	29.60
20	12 x 17	12.30	32	8 x 13	30.90
22	11 x 15	13.90	34	9 x 13	31.65
22	10 x 14	14.50	34	8 x 13	33.20
22	11 x 16	14.70	34	8 x 14	34.75
21	10 x 14	16.20	36	8 x 13	37.80
24	9 x 13	16.90	36	8 x 14	39.50
21	10 x 15	17.10	36	7 x 14	43.00
26	10 x 14	19.15	38	8 x 12	40.55
26	9 x 13	20.00	38	8 x 13	42.40
26	10 x 15	20.20	38	7 x 13	46.25

Note. 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 on saws 42 inches and less in diameter, and two gauges on saws 44 inches and over, without extra charge.

ATKINS SILVER STEEL EDGER SAWS

SOLID TOOTH

Total Control			Price Each		
Diameter Inches	8 Gauge	9 Gauge	10 Gauge	11 Gauge	12 Gauge
12	\$ 5.60	\$ 5.40	\$ 5.20	\$ 5.00	\$ 4.80
14	6.55	6.30	6.05	5.80	5.55
16	8.00	7.70	7.40	7.10	6.80
18	9.60	9.20	8.80	8.40	8.00
20	11.50	11.00	10.50	10.00	9.50
22	13.30	12.70	12.10	11.50	11.50
24	14.90	14.20	13.50	13.50	13.50

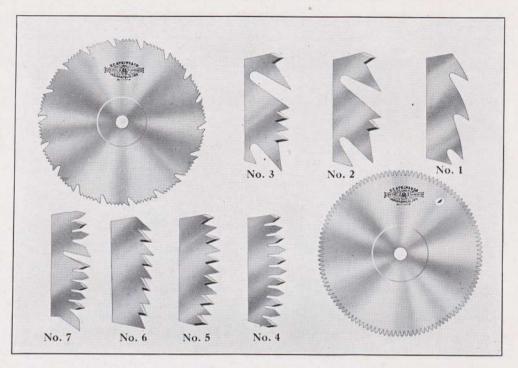
ATKINS LATHE SAWS

Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge (Heavier)	Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge (Heavier)
6	9	\$2.00	80.12	13	5	\$4.25	
7	9	2.25	.12	13	6	4.00	* * * * *
8	9	2.50	.15	14	2 -	5.50	9.94.4(9)
9	8	2.75	.15	14	3	5.25	
10	7	3.00	.20	14	4	5.00	* * * * *
11	. 7	3.30	.20	14	5	4.75	V 4 4 9 W
12	6	3.60	.20	14	6	4.50	
13	2	5.00		15	5	5.00	\$0.30
13	3	4.75		16	5	5.60	.30
13	4	4.50					

ATKINS SILVER STEEL SAWS

ATKINS CIRCULAR MITRE SAWS

SILVER STEEL, HOLLOW GROUND



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. 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

Size Inches	Gauge at Holes	of	Gauge at Teeth	Extra for Each Gauge Heavier	Extra for Each Additional Gauge Beveling	Price Each	Size Inches	Gauge at Holes	Gauge at Edge of Collar	Gauge at Teeth	Extra for Each Gauge Heavier	Extra for Each Additional Gauge Beyeling	-
6	17	20	17	\$0.05	\$0.18	\$4.20	14	13	16	13	\$0.25	\$0.40	\$ 9.80
8	16	19	16	.08	.22	5.40	16	13	16	13	.30	.50	11.60
10	15	18	15	.12	.28	6.70	18	12	15	12	.40	.60	13.70
12	14	17	14	.20	.35	8.30	20	12	15	12	.50	.70	16.20

Above list includes filing teeth so that saw is ready for use.

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 beyeled 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. 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.

Size Inches	Gauge	Number Teeth	Extra for Each Gauge Heavier than List	Extra Each Additional Gauge Beyeling	List Hollow Ground or Set Tooth	Size Inches	Gauge	Number Teeth	Extra for Each Gauge Heavier than List	Extra Each Additional Gauge Beveling	List Hollow Ground or Set Tooth
	100000000000000000000000000000000000000	48	80.20	\$0.35	\$ 8.70	50	6x9	172	\$ 5.00	\$ 3.00	\$108.00
12	12x15	58	.25	.40	10.05	52	6x9		5.50	3.25	119.00
14	12x15		.30	.50	11.90	54	6x9		6.00	3.50	131.00
16	12x15	64	.40	.60	14.10	56	6x9		7.00	3.75	147.50
18	11x14	76		.70	17.20	58	6x9		8.00	4.05	164.50
20	10x14	84	.50	.80	19.60	60	6x9		9.00	4.35	181.50
22	10x14	92	.60		22.00	62	6x9	1.1.1	10.00	4.65	203.50
24	10x14	100	.70	.90	25.00	64	6x9	10101	12.00	5.00	226.00
26	9x12	108	.85	1.05	28.00	66	6x9	* ***	15.00	5.35	248.50
28	9x12	116	1.25	1.20		68	5x8	* * *	18.00	5.75	276.00
30	9x12	116	1.50	1.30	31.00	70	5x8		21.00	6.15	309.00
32	8x11	124	1.75	1.40	33.50	2000	5x8	* * *	24.00	6.55	346.50
34	7x10	130	2.00	1.55	37.00	72			27.00	7.00	389.50
36	7x10	140	2.25	1.70	39.50	74	5x8		30.00	7.50	443.00
38	7x10	140	2.50	1.85	43.00	76	5x8		34.00	8.10	522.00
40	7x10	150	2.75	2.00	50.00	78	5x8		38.00	8.80	611.50
42	7x10	150	3.00	2.20	57.50	80	5x8	* * *		9.60	706.50
44	7x10	160	3.25	2.40	67.50	82	5x8	1915 7	43.00	10.50	802.5
46	7x10	160	3.50	2.60	81.50	84	5x8	5.5.5	48.00		
48	6x 9		4.50	2.80	100.00	14.14	4.4.1	1.00	1111	46.44	4 1 4 4 1

Sizes 38 to 46, inclusive, are for rip saws only. For ripping and cut-off general purpose saws add 2 additional teeth. For cutting off only, add 14 to 16 teeth, according to diameter of saw.

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.

Diameter inches	30	32	34	36	38	40	42	44
Priceeach	\$32.00	\$35.00	\$38.00	\$42.00	\$47.00	\$53.00	\$65.00	\$72.00
Diameter inches	46	48	50	52	54	56	58	60
Priceeach	\$85.00	\$100.00	\$115.00	\$135.00	\$155.00	\$175.00	\$195.00	\$215.00

Above list is for saws beveled not more than eight gauges, and with thickness at center of same gauge as shown in solid tooth circular saw list for saws of 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 solid tooth circular saw list.

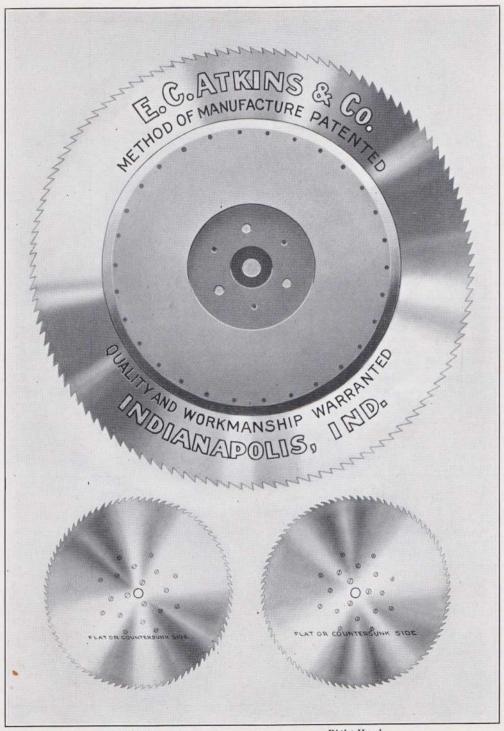
ATKINS COLLARS FOR ANY MAKE SHINGLE, HEADING OR RE-SAWS

Sizeinches	18	19	20	$21\frac{1}{2}$	22	24	25	26	30
Priceeach	\$23.95	\$25.25	\$26.60	\$28.60	\$29.25	\$31.90	\$33.25	\$34.60	\$40.00

Intermediate sizes take the next higher list.



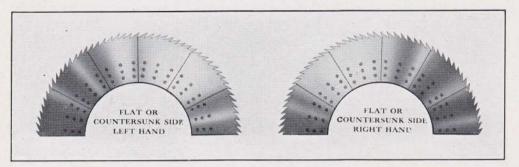
ATKINS SHINGLE AND HEADING SAWS



Left Hand
SILVER STEEL, TAPER GROUND AND GAS TEMPERED (SEE FOLLOWING PAGE)

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 engraving.)

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

12 inches deep,	19	19 Gauge and Thinner			18 Gauge and Thicker		
	5 gaugeVen	eer Saws	\$22.40	Re-Saws	\$18.95		
12 inches deep.	6 gauge.,Ven	eer Saws	21.40	Re-Saws	18.10		
	7 gauge		20.40	Re-Saws	17.25		
	8 gaugeVen		19.10	Re-Saws	16.15		
	9 gauge		18.45	Re-Saws	15.60		
	10 gauge		17.80	Re-Saws	15.00		

Add 5 per cent for each additional inch in depth.

Deduct 5 per cent for each inch under 12 inches in depth.

RATES FOR REPAIRING SEGMENT SAWS

Per Foot in Di	iameter	Per Foot in Diam	neter
Grinding first and second gaugeGrinding each additional gaugeHammering		Gumming	

COLLARS FOR SEGMENT VENEER AND RE-SAWS

NET PRICE FOR SEGMENT RE-SAW COLLAR COMPLETE

Consisting of cast iron flange and steel rim collar fitted to segments; including screws and coppers.

Dia. Collars Inches	Net Prices Fitted	Dia. Collars Inches	Net Prices Fitted	Dia. Collars Inches	Net Prices Fitted	Dia, Collars Inches	Net Prices Fitted
14	\$17.50	20	\$25.00	26	\$36.00	32	\$52.00
16	20.00	22	28.00	28	40.00	34	60.00
18	22.50	24	32.00	30	45.00		

Veneer saw flanges two-thirds of above prices.

NET PRICES FOR FITTING SEGMENTS TO OLD COLLARS—INCLUDING SCREWS AND COPPERS

Dia. Collars Inches	Net Prices	Dia. Collars Inches	Net Prices	Dia, Collars Inches	Net Prices	Dia, Collars Inches	Net Prices
14	\$5.00	20	\$ 8.00	26	\$11.00	32	\$14.00
16	6.00	22	9.00	28	12.00	34	15.00
18	7.00	24	10.00	30	13.00		

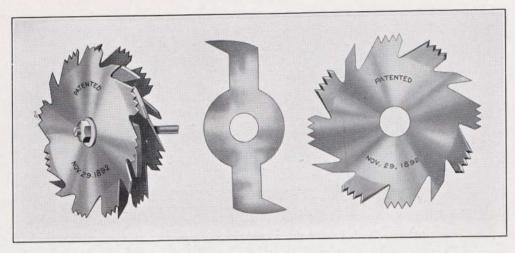
When new collars of any special style different from our standard patterns are required, we charge for the pattern at actual cost; this will average from \$1.50 to \$2.50, according to the size.

Extra coppers 75 cents per dozen. Extra screws 20 cents per dozen.

ATKINS SILVER AT STEEL SAWS

ATKINS GROOVER OR DADO HEADS

HUTHER'S PATTERN



These dado heads 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 below. 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 $\frac{1}{8}$ to $\frac{1}{4}$ inch thick. It will cut a perfect groove, either with or across the grain and makes an exceedingly smooth, even cut.

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

PRICE EACH, NET

Ma					Dia	meter, Inc				4.0	
No. of Set	6	7	8	9	10	11	12	14	16	18	20
1 2 3 4 5 6	\$ 6.90 8.30 9.95 11.35 14.15 16.95 22.55 28.15	\$ 7.90 9.40 11.20 12.70 15.70 18.70 24.70 30.70	\$ 8.90 10.50 12.50 14.10 17.30 20.50 26.90 33.30	\$ 9.90 11.60 13.80 15.50 18.90 22.30 29.10 35.90	\$11.40 13.20 15.60 17.40 21.00 24.60 31.80 39.00	\$13.00 14.90 17.50 19.40 23.20 27.00 34.60 42.20	\$15,10 17,20 20,00 22,10 26,30 30,50 38,90 47,30	\$17.80 20.40 23.60 26.20 31.40 36.60 47.00 57.40	\$20.70 23.90 27.40 30.60 37.00 43.40 56.20 69.00	\$22.30 25.90 30.00 33.60 40.80 48.00 62.40 76.00	\$25.70 30.20 35.00 39.50 48.50 57.50 75.50 93.50

In ordering, please state the number of set, or greatest width of groove to be cut, diameter and the size hole wanted. Extra Inside Cutters can be had at any time. See list.

INSIDE CUTTERS OUTSIDE CUTTERS AND SOLID GROOVING SAWS, OF SAME PATTERN

	F	rice, Eac	h					Price, Each	n		
Dia. Inches		Thicknes		Dia. Inches	1/8	3 16	1/4	Thickness	3/8	7 16	1/2
5 6 7 8 9 10 11 12 14 16 18	\$0.55 .65 .70 .80 .90 1.00 1.10 1.20 1.40 1.60	\$0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.80 1.90 2.30	\$1.20 1.40 1.50 1.60 1.70 1.80 1.90 2.10 2.60 3.20 3.60 4.50	5 6 7 8 9 10 11 12 14 16	\$2.50 2.95 3.40 3.85 4.30 5.00 5.75 6.75 8.00 9.40	\$ 3.00 3.50 4.00 4.75 5.50 6.25 7.50 8.25 9.00 10.00	\$ 4.25 5.00 5.75 6.75 7.75 8.25 9.75 12.00 15.00 18.00	\$ 5.50 6.50 7.50 8.70 10.00 11.50 13.00 14.50 16.00 20.00	\$ 6.90 7.90 8.90 9.90 11.00 12.50 14.00 16.10 18.80 21.70	\$ 7.90 8.90 9.90 10.90 12.00 13.75 15.25 17.50 20.30 23.50	\$ 8.90 9.90 11.20 12.50 13.80 15.60 17.50 20.00 23.60 27.40

ATKINS SPECIALTIES



ATKINS 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 treatment we use the most improved scientific machinery, thereby securing an extremely accurate finish throughout.

Prices quoted on application.

ATKINS EXCELSIOR SPURS

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

6 x 3/8, 16 or 18 gaugeper pound	\$0.80
For each gauge lighter than 19 gauge, addper pound	.04
Special spurs, $3\frac{1}{2}$ x $\frac{3}{16}$ x 17 gauge, beveled both sides of sharp edgeper pound	2.50
Dividers 16 to 18 gaugeper pound	.60

ATKINS SILVER STEEL GROOVING SAWS

	1-11	Thickness, Inches												
Diameter Inches	1/8	3 16	1/4	5 16	3/8	7 16	1/2	5/8	3/4					
3	\$1.60	\$ 2.20	\$ 4.00	\$ 4.60	\$ 5.20	\$ 5.80	\$ 6.40	\$ 7.50	\$ 8.50					
4	1.80	2.50	4.80	5.50	6.20	6.80	7.60	8.80	10.00					
5	2.00	2.80	5.60	6.40	7.20	8.00	8.80	10.20	12.00					
6	2.30	3.20	6.40	7.30	8.20	9.10	10.00	11.60	14.00					
7	2.70	3.70	7.20	8.20	9.20	10.20	11.20	13.20	16.00					
8	3.20	4.30	8.00	9.20	10.40	11.60	12.70	15.00	18.00					
9	3.80	5.00	9.00	10.30	11.60	12.90	14.30	16.80	20.00					
10	4.40	5.80	10.00	11.40	12.90	14.40	15.90	18.80	22.00					
11	5.00	6.70	11.00	12.60	14.20	15.90	17.60	20.80	24.00					
12	5.70	7.70	12.00	13.80	15.60	17.40	19.20	23.00	26.00					
14	7.00	9.80	14.00	16.00	18.00	20.00	22.00	26.00	30.00					
16	8.40	12.00	16.00	18.30	20.60	22.90	25.20	30.00	35.00					
Space Teeth	3/4 in.	1 in.	1 in.	1¼ in.	$1\frac{1}{2}$ in.	1¾ in.	2 in.	2 in.	2 in.					

Beveled grooving saws, add 10 per cent to above prices. Grooving saws with teeth shaped and backed off, add 50 per cent to above prices. Special grooving saws made to order, special prices.

RAA

ATKINS WABBLE SAWS

SILVER STEEL

In the manufacture of all articles with rounded edges, of peculiar shape similar to the suggestions given in the accompanying illustration, 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. State also the diameter and thickness.

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, SAWS WITH COLLARS

1/4 inch thick

Diameter													4									Price
5 inches.																·				Ų.		\$16.30
6 inches				•		*		*	**												*	17.20
7 inches.																						18.40
8 inches.	*	***	e c	***			į.					+		110							*	19.60
9 inches.	*			*		*		*		e e	*		4		4						+	20.80
10 inches.																						22.00

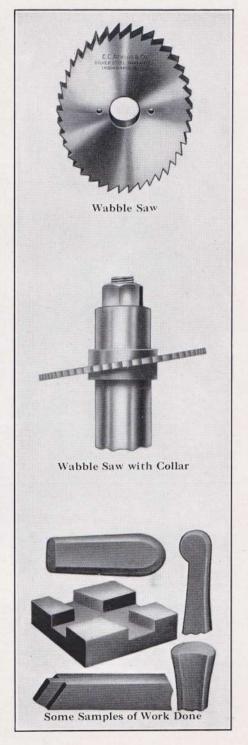
PRICES, SAWS ONLY

1/4 inch thick

Diameter	Price
5 inches	 \$ 6.30
6 inches	7.20
7 inches	 8.40
8 inches	 9.60
9 inches	 10.80
10 inches	 12.00

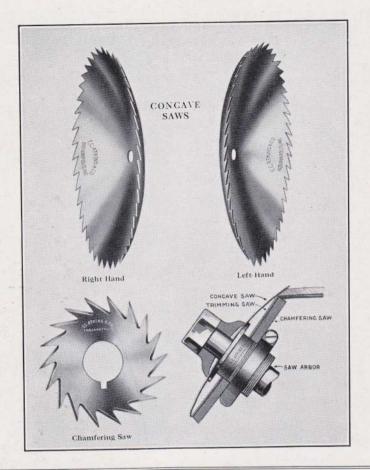
Special saws at special prices. In ordering be sure to send old collars.

The accompanying illustrations are a few samples of the great range of work that can be done with the Atkins Wabble Saw.



ATKINS SILVER A STEEL SAWS

CONCAVE, CHAMFERING AND TRIMMING SAWS



Diameter Inches	Gauge	Price Each	Price, Each Additional Gauge, Extra	Diameter Inches	Gauge	Price Each	Price, Each Additions Gauge, Extra
4	16	\$2.30	80.05	11	14	\$ 5.40	\$0.16
5	16	2.40	.05	12	14	6.20	. 20
6	16	2.50	.05	14	13	7.60	.25
7	15	2.90	.06	16	13	9.50	.30
8	15	3.30	.08	18	12	11.30	.40
9	15	3.80	.10	20	12	14.20	.50
10	14	4.60	.12		14.4		

Saws concaved to a smaller circle than 16 inches, extra net price as follows:

Circle Inches	Price per Saw								
6	\$1.17	8	\$0.83	10	\$0.58	12	\$0.50	14	\$0.75
61/2	1.17	81/2	.83	101/2	.58	121/2	.50	141/2	.75
7	1.00	9	.67	11	. 67	13	.58	15	.50
71/2	1.00	91/2	.67	$11\frac{1}{2}$	67	$13\frac{1}{2}$.58	$15\frac{1}{2}$.50

Extra sizes made to order. The above lists Concave Saws only.

ATKINS SPECIAL CIRCULAR SAWS

ATKINS SILVER STEEL CIRCULAR KNIVES

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

In ordering please give these specifications:

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

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.

Diameter of Knives, Inches	Thickness Inches	Price per Inch in Diameter
10 and under	3 3 9	\$0.45
Over 10 to 12	1/8	.50
Over 12 to 14	1/8	.63
Over 14 to 16		.63
Over 16 to 18		.69
Over 18 to 20		.75
Over 20 to 22		.82
Over 22 to 24		.88
Over 24 to 26		1.00
Over 26 to 28	3	1.00
Over 28 to 30	$\frac{3}{16}$	1.06
Over 30 to 32	3	1.19
Over 32 to 34	1/4	1.32
Over 34 to 36	1/4	1.50

On Knives heavier than list, add 5% for each additional gauge.

We make special cutters for all purposes. Prices quoted on application.

ATKINS LOCK CORNER BOX CUTTERS

Prices quoted 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.

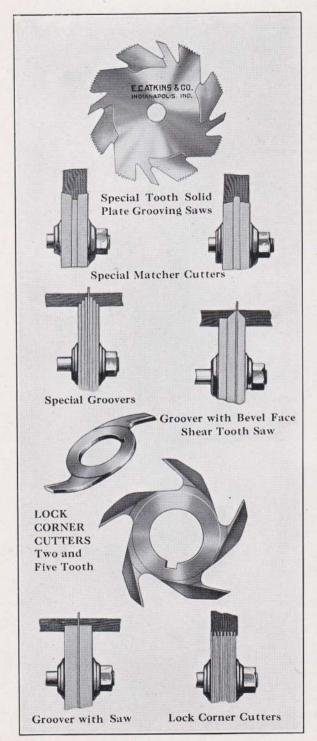
Be sure to give the following information: Thickness, size hole, diameter of convex side, diameter of concave side, radius of circle, diameter of countersunk head, depth of countersunk head, turn to right or left, tempered low for filing, tempered medium for filing, tempered high for grinding.

For list on grooving saws see page 34.



(A/A)

ATKINS SPECIAL TOOTH SOLID PLATE GROOVING SAWS



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.

Net Price Special Tooth Solid Plate Grooving Saws

Diam. In.	1/8	3 16	1/4	5 16
5	\$2.50	\$3.00	\$4.25	\$5.50
6	2.95	3.50	5.00	6.50
7	3.40	4.00	5.75	7.50
8	3.85	4.75	6.75	8.70
9	4.30	5.50	7.75	10.00
10	5.00	6.25	8.25	11.50
11	5.75	7.50	9.75	13.00
12	6.75	8.25	12.00	14.50
14	8.00	9.00	15.00	16.00
16	9.40	10.00	18.00	20.00
Diam. In.		3/8	$\frac{7}{16}$	1/2
ACCRECATE AREA		× 0	1.6	6.4
		\$6.90	\$7.90	\$8.90
5			100 TOWN 100 TO 100 TO	\$8.90
5 6		\$6.90	\$7.90	\$8.90 9.90
5 6 7		\$6.90 7.90	\$7.90 8.90	1000
5 6 7 8		\$6.90 7.90 8.90	\$7.90 8.90 9.90	\$8.90 9.90 11.20
5 6 7 8 9	· · · · · · · · · · · · · · · · · · ·	\$6.90 7.90 8.90 9.90	\$7.90 8.90 9.90 10.90	\$8.90 9.90 11.20 12.50 13.80
5 6 7 8 9		\$6.90 7.90 8.90 9.90 11.00	\$7.90 8.90 9.90 10.90 12.00	\$8.90 9.90 11.20 12.50
5 6 7 8 9 10		\$6.90 7.90 8.90 9.90 11.00 12.50	\$7.90 8.90 9.90 10.90 12.00 13.75	\$8.90 9.90 11.20 12.50 13.80 15.60 17.50
5 6 7 8		\$6.90 7.90 8.90 9.90 11.00 12.50 14.00	\$7.90 8.90 9.90 10.90 12.00 13.75 15.25	\$8.90 9.90 11.20 12.50 13.80 15.60

For cutting grooves over ½ inch wide, or a combination of different widths, see list on Dado Heads, page 33. Prices on diameters and widths other than above quoted on application.

ATKINS SPECIAL MATCHER CUTTERS

We make special cutters for cutting wedge-shape tongue and groove, used for matching stock for silos, tanks, etc. Prices quoted on application.

ATKINS SPECIAL GROOVERS

For cutting step mitres, using our groovers in connection with circular Cross Cut Saw. Price on application.

ATKINS COMBINATION GROOVER AND BEVEL FACE SHEAR TOOTH SAW

The fifth cut on left shows how stock can be cut and both ends finished at one operation to form a special joint. For square porch columns, etc. Price quoted on application.

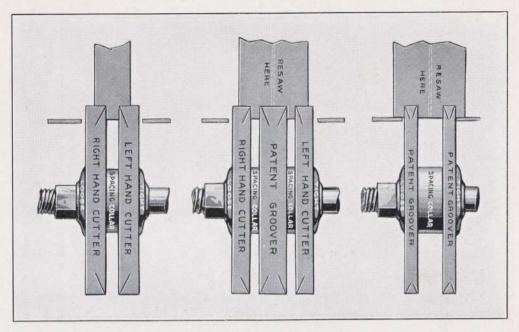
ATKINS LOCK CORNER CUTTERS

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 3½ inches to 12 inches in diameter; teeth vary to suit requirements. Prices furnished upon receipt of specifications.

ATKINS BOX BOARD MATCHER CUTTERS

FOR DOUBLE AND SINGLE MATCHING - SILVER STEEL



This Shows Process of Cutting Tongue for Single Matching.

Showing Process of Cutting Tongues for Double Matching.

Process of Cutting Grooves for Double Matching.

CAN BE USED ON ANY CIRCULAR SAW ARBOR

Atkins Matcher Cutters for matching box boards or short pieces are excellent where it is desired to do the work on an ordinary saw arbor or on a machine designed for matching.

The Tongue Cutters are made in pairs, one right-hand and one left-hand. A Spacing Collar is used between these cutters to form tongue, and when necessary to joint the top of the tongue we can furnish a Jointer Cutter which acts as jointer and spacer combined.

For Groove Cutters we furnish Atkins Tooth Cutters. These cutters will make a perfectly smooth cut and work equally well in knotty or cross grained stock. Jointer cutters can also be used in connection with groove cutter.

In ordering Matcher Cutters state the width of stock to be cut, width of the groove and whether cutters are for single or double matching; also whether Jointing Cutters or Spacing Collars are to be furnished. Diameter of cutters and size of hole.

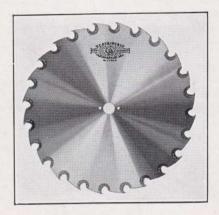
PRICE LIST OF MATCHER CUTTERS PER PAIR

6" x ½"\$ 5.90	$6'' \times \frac{3}{16}'' \dots \$ 7.00$	6" x 1/4"\$10.00	$6'' \times \frac{5}{16}'' \dots \13.00
6" x 3/8" 15.80	6" x ½" 19.80	$7'' \times \frac{1}{8}'' \dots 6.80$	$7'' \times \frac{3}{16}'' \dots 8.00$
7" x 1/4" 11 50	$7'' \times \frac{5}{36}'' \dots 15.00$	7" x 3/s" 17.80	7" x ½" 22.40

For list of Groovers, see page 34. Jointing Cutters, see list of common Grooving Saws, page 35.

Spacing Collars, 3" Diameter, ½" thick, 50c net. Spacing Collars, 3" Diameter, ½" or ½" thick, 60c net. Spacing Collars, 3" Diameter, ½" thick, \$1.00 net. Spacing Collars, 3" Diameter, ½" thick, \$1.25 net.

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 bits 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.

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 bits 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 bits 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.

The ovens used in this process have been greatly improved and differ materially from all others. They are equipped with most delicate instruments and are sensitive to the highest degree, so that Atkins Bits and Holders are as perfectly tempered as a watch spring or the finest razor blade.

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.

SILVER STEEL

In designing Atkins Bits 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.

We have taken into consideration the requirements of Winter sawing where the shape of bit and style

of holder determine the merit of the saw to a large degree.

We show here the most popular styles of bits and holders now in use in Atkins Inserted Tooth Saws. We are prepared to furnish bits 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. See page 23.

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 bits and holders specify style wanted. Number and gauges clearly stamped on each bit and holder. Otherwise send samples.

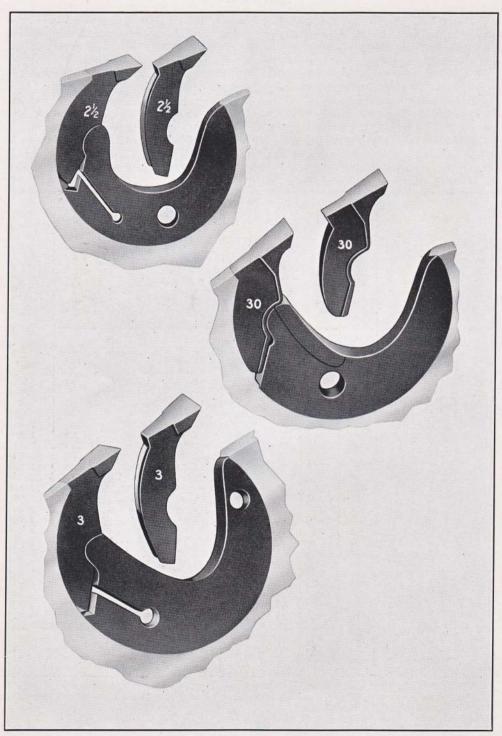
Diameter, Inches	Gauge at Rim	Standard Number of Teeth No. 2½	Greatest Number of Teeth that can be put in a Saw No. $2\frac{1}{2}$	Standard Number of Teeth Nos. 3 and 30	Greatest Number of Teeth that can be put in a Saw Nos. 3 and 30	Size Hole, Inches	Price Each, No. 2 ½	Price Each, Nos. 3 and 30	Extra for Each Additional Gauge Heavier	Price for Beveling New Saws per Gauge
10	12	10	10				\$15.15			
12	11	12	12	4.45	1.2	1	19.50		\$ 0.20	\$0.35
14	10	14	14		4.4	11/8	23.00	111,111	.25	.40
16	10	16	16	12	12	11/8	27.00	\$27.00	.30	. 5
18	10	18	20	14	14	$ \begin{array}{c} 1\frac{1}{8} \\ 1\frac{1}{8} \\ 1\frac{1}{4} \\ 1\frac{5}{16} \\ 1\frac{5}{16} \end{array} $	31.00	30.00 34.00	.40	70
20	9	20	22	14	16	116	36.00 42.00	38.50	.60	.60
22	9	22	24	16	18 18	116	46.00	42.00	.70	.9
24	9	24	26	18	20	13/8	52.00	46.00	.85	1.0
26	9	26	28 30	18 18	22	11/8	56.00	50.00	1.00	1.2
28	9 9	28 30	32	20	24	13/8 13/8 11/2 11/2	60.00	54.00	1.15	1.3
30 32	8	32	34	22	26	15/	68.00	61.00	1.30	1.4
34	8	36	36	22	28	15%	75.00	66.00	1.50	1.5
36	8	38	38	24	30	15/8 15/8 15/8 15/8	85.00	72.00	1.80	1.7
38	8	40	42	24	32	15%	95.00	78.00	2.00	1.8
40	8	42	44	26	34	2	105.00	84.00	2.30	2.0
42	8	44	46	28	36	2	115.00	94.00	2.60	2.2
44	8	46	50	30	38	2	125.00	102.00	3.00	2.4
46	8	48	52	32	40	2	135.00	110.00	3.50	2.6
48		50	54	34	42	2	148.00	120.00	4.00	2.8
50	8	52	56	36	44	2	162.00	134.00	4.50	3.0
52	7	56	60	38	44	2	178.00	156.00	5.00	
54	7	58	62	40	46	2	198.00	174.00	6.00	3.5
56	7	60	64	42	48	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	210.00	194.00	7.00 8.00	3.7
58	7	62	66	44	50	2	230.00	212.00 230.00	9.00	4.3
60	7	64	70	46	52	2	258.00	260.00	10.00	4.6
62	6	66	74	48	54	2	280.00 310.00	290.00	12.00	5.0
64	6	68	76	48	56 58	2	340.00	320.00	15.00	5.3
66	6	72	78	50	60	9	380.00	350.00	18.00	5.7
68	6	76	80	52 54	62	0	420.00	380.00	21.00	6.1
70 72	6	78 80	82 84	56	64	2	460.00	420.00	24.00	6.5

Bits or teeth \$4.50 per hundred, net. Holders or shanks \$0.40 each, net. One extra set of teeth or bits given with each saw. Also two holders or shanks with saws 40 inches in diameter and under and three with saws over 40 inches in diameter.

WRENCHES. No. 2½, each, \$0.60. No. 3, each, \$0.60. No. 3 teeth are made regular and short holder patterns. One wrench given with saw or set of saws.

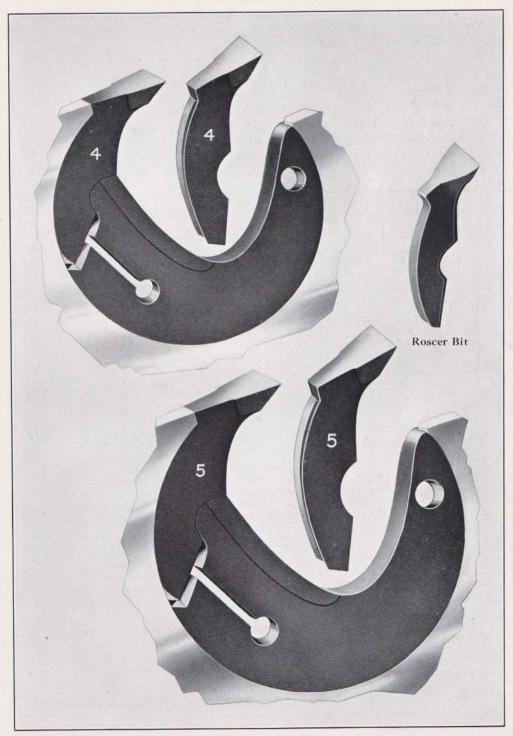


SILVER STEEL





SILVER STEEL



SILVER STEEL

We have recently improved the style of Atkins Bits 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.

No. 30 is an especially strong tooth for heavy duty.

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

Diameter, Inches	Thickness Gauge at Rim No. 4	Thickness '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	Extra for Each Addi- tional Gauge Heavier	Price for Beveling New Saws per Gauge
22	9	8	12	14	10	12	15/8 13/8 11/2 21/1 15/8 15/8 15/8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ 38.50	\$ 0.60	\$0.80
24	9	8	14	16	12	14	13/8	42.00	.70	.90
26	9	8	14	16	12	14	13/8	46.00	.85	1.05
28	9	8	16	18	14	14	11/2	50.00	1.00	1.20
30	9	8	16	20	14	18	11/2	54.00	1.15	1.30
32	8 8 8 8 8 8 8 8 7 7 7	8	18	22	16	20	15/8	61.00	1.30	1.40
34	8	8	20	24	18	20	15/8	66.00	1.50	1.55
36	8	8	20	26	18	22	15/8	72.00	1.80	1.70
38	8	8	22	28	20	22	15/8	78.00	2.00	1.85
40	8	7	24	30	20	24	2	84.00	2.30	2.00
42	8	7	26	32	22	26	2	94.00	2.60	2.20
44	8	7	26	34	24	26	2	102.00	3.00	2.40
46	8	7	28	36	26	28	2	110.00	3.50	2.60
48	8	7	30	36	26	28	2	120.00	4.00	2.80
50	8	7	32	38	28	30	2	134.00	4.50	3.00
52	7	6	34	40	30	32	2	156.00	5.00	3.25
54	7	6	36	42	30	32	2	174.00	6.00	3.50
56	7	6	36	42	32	34	2	194.00	7.00	3.75
58	7	6	38	44	34	36	2	212.00	8.00	4.05
60	7	6	40	46	34	36	2	230.00	9.00	4.35
62	6	6	42	48	36	38	2	260.00	10.00	4.65
64	6	5	42	50	36	38	2	290.00	12.00	5.00
66	6	5	44	52	38	40	2	320.00	15.00	5.35
68	6	5	44	54	38	40	2	350.00	18.00	5.75
70	6	5	46	54	42	44	2	380.00	21.00	6.15
72	6	5	48	56	42	44	2	420.00	24.00	6.55

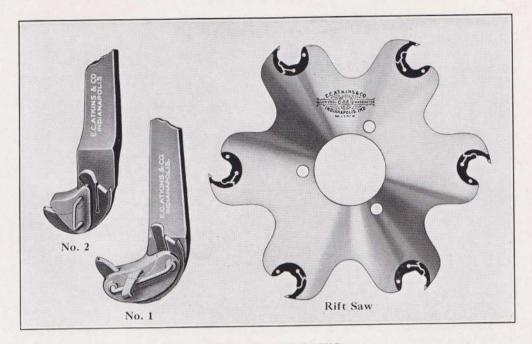
One extra set of teeth or bits, given with each saw. One wrench given with saw. Also two holders or shanks with saws 40 inches in diameter and under and three with saws over 40 inches in diameter.

No. 4 Teeth per hundred	\$4.75 Net	No. 5 Teethper hundred	\$5.00 Net
No. 4 Holders each	.45 Net	No. 5 Holderseach	.50 Net
No. 4 Wrencheseach	.70 Net	No. 5 Wrenches each	.70 Net

ROSCER BITS

These bits 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.

SILVER STEEL



ATKINS RIFT SAWS

Atkins Silver Steel Rift Saws are usually furnished with No. 3 bits and holders unless otherwise ordered. One set of teeth or bits and two holders or shanks furnished with each saw. One wrench given with each saw or set of saws.

When specified, rift saws can be made with two teeth on each projection or arm.

The standard is 8 gauge but can be supplied in either 9 or 10 gauge.

In ordering, be particular to send template of holes.

Diameter inches	14	16	18	20	22	24	26	28	30
Gauge	8	8	8	8	8	8	8	. 8	8
Four Teetheach	\$15.00	\$17.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.50	\$31.50	\$35.50
Six Teetheach							31.50		38.50

Duplicate No. 3 teeth, \$4.50 per hundred net. Duplicate No. 3 holders, 40 cents each net.

ATKINS INSERTED TOOTH SAW WRENCHES

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

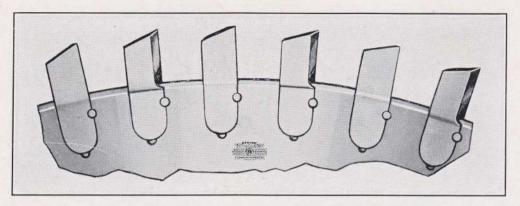
These wrenches are made of good material and are substantially constructed and will perform their work satisfactorily.

Price, Nos. 4 and 5 pattern holders	each, net	\$0.70
Price, No. 2½ pattern holders	each, net	.60

In ordering wrenches, specify style or number of tooth.

ATKINS CIRCULAR SAWS

SILVER STEEL



ATKINS INSERTED TOOTH CUT-OFF SAW

McLEAN PATTERN

This is a comparatively new style of tooth on which we own the exclusive patent. It is meeting with great success and we heartily recommend it.

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. This particular tooth also insures the cutting of a narrow kerf, thus saving considerable lumber. Each tooth is offset on the point to obviate the necessity for setting.

The shape of the tooth is similar to the McKam Pattern. It 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.

Dia. Inches	Gauge	Standard Number of Teeth	Width of Tooth Inches	Size Hole Inches	Price Each	Dia. Inches	Gauge	Standard Number of Teeth	Width of Tooth Inches	Size Hole Inches	Price Each
38	8	66	9	15/8	\$ 88.00	66	6	120	3/4	2	\$ 355.00
40	8	70	9	2	95.00	68	6	124	3/4	2	387.00
42	8	74	16	2	105.00	70	6	128	3/4	2	420.00
44	8	78	16	2	115.00	72	5	132	3/4 3/4 3/4	2	458.00
46	8	82	9	2	125.00	74	5	136	3/4	2	507.00
48	8	86	9	2	136.00	76	5	140	3/	2	573.00
50	7	90	9	2	153.00	78	5	144	3/4	2	665.00
52	7	94	9	2	175.00	80	5	148	3/4 3/4 3/4 3/4	2	770.00
54	7	96	9	2	196.00	82	5	152	3/4	2	873.00
56	7	100	9	2	218.00	84	5	156	3/4	2	982.00
58	7	104	9	2	240.00	86	5	160	3/4	2	1102.00
60	6	108	3/4	2	262.00	88	4	164	3/4	2	1240.00
62	6	112	3/4	2	290.00	90	4	168	3/4 3/4 3/4 3/4	2	1380.00
64	6	116	9 16 9 16 9 16 9 16 9 16 9 16 9 16 9 16	2	322.00			14 4 4 5	1.		

EXTRA TEETH FOR ABOVE SAWS

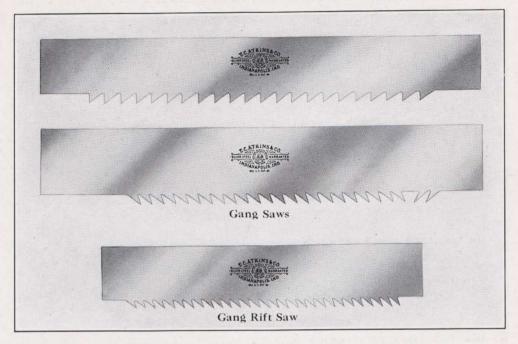
Width, Inches	Gauge	Price, Each	Width, Inches	Gauge	Price, Each
9	11	\$0.20	9 16	7	80.22
9	10	.20	3/4	7	.22
9	9	.20	3/4	6	.23
16	8	.22	3/4	5	.24

Above prices include rivets. For each tooth inserted in excess of standard add to list: For \$\frac{9}{16}\$-inch, \$1.00; for \$\frac{3}{4}\$-inch, \$1.25.

For changing solid tooth saws into Atkins Patent Inserted Tooth, \$1.00 per tooth for $\frac{9}{18}$ -inch and \$1.25 per tooth for $\frac{3}{4}$ -inch plus one-half list price of solid tooth saws of same size. The price is based upon size saw will finish after cutting down, and is subject to same discount as inserted tooth saws.

ATKINS GANG AND RIFT SAWS

SILVER STEEL



ATKINS SILVER STEEL GANG SAWS

Width				Pri	ce per Foot				
Inches	8 Gauge	9 Gauge	10 Gauge	11 Gauge	12 Gauge	13 Gauge	14 Gauge	15 Gauge	16 Gauge
4						\$1.10	\$1.05	\$1.00	\$0.95
5						1.15	1.10	1.05	1.00
6						1.25	1.20	1.15	1.10
7						1.40	1.30	1.25	1.20
8	82.00	\$1.90	\$1.80	\$1.70	\$1.60	1.50	1.40	1.35	1.30
9	2.15	2.05	1.95	1.85	1.75	1.65	1.55	1.50	
10	2.50	2.35	2.10	2.00	1.90	1.80	1.70	1.60	

If swaged only, add 5 cents per foot to list. If fitted for use, add 10 cents per foot to list.

ATKINS GANG RIFT SAWS

Gang saws with reversed teeth add 10 per cent to list prices. Tabbing with solid bent tabs or two plate tabs, 4 hole 40 cents, 5 hole 50 cents, 6 hole 60 cents per saw, net. Tabbing with solid round tabs 50 cents per saw, net. Punching gang saws for tabs, 1 cent per hole, net. If swaged only add 5 cents per foot to list price.

When ordering gang saws give width, length, thickness by gauge, shape and space of teeth, number of teeth in saw and distance from lower end of saw to point of first tooth. When saws are to be tabbed, exact distance between tabs must be given. All gang saws are furnished fitted unless otherwise specified.

ATKINS RUSSIAN EXPORT GANG SAW

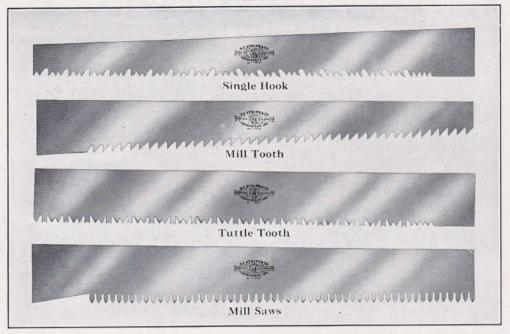
SPECIAL STEEL

			Price, per Foot			
Width, Inches	10 Gauge	11 Gauge	12 Gauge	13 Gauge	14 Gauge	15 Gauge
41/2	\$0.66	\$0.64	\$0.62	\$0.60	\$0.58	\$0.56
5	.69	.67	.65	.63	.61	.59
6	.74	.72	.70	.68	.66	.64
7	.79	.77	.75	.73	.71	.69
8	.84	.82	.80	.78	.76	.74

These are Special, not Silver Steel.

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

AVIEW TO THE TAX OF THE PARTY O	Price, per Foot Thickness						
Width, Inches	10 Gauge	11 Gauge	12 Gauge	13 Gauge			
Tapered 6-inch butt, 4-inch point	\$1.05	\$1.00	\$0.95	\$0.95			
Tapered 7-inch butt, 5-inch point		1.10	1.05	1.05			
Tapered 8-inch butt, 6-inch point	1.25	1.20	1.20	1.20			

Tapered drag saws wider or thicker than above will be figured by the Mill, Mulay and Drag Saw list, using the average width as the basis. If filed and fitted, add to list for 10 gauge and heavier, 30 cents per foot, 11 gauge and thinner, 15 cents per foot. Drag saws filed and set unless otherwise specified.

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

	11 1128 5						
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge
8	\$3.30	\$3.00	\$2.70	\$2.40	\$2.20	\$2.00	\$1.80
9	3.60	3.30	3.00	2.70	2.40	2.20	2.00
10	3.90	3.60	3.30	3.00	2.70	2.40	2.20
11	4.30	4.00	3.70	3.30	3.00	2.70	2.40
12	4.80	4.40	4.00	3.60	3.30	3.00	2.70
14	5.60	5.20	4.80	4.40	4.00	3.60	3.30
16	6.60	6.20	5.70	5.20	4.80	4.40	4.00

Above prices are for saws with Plain, Mill, Champion or Lance Tooth. Saws with special patterns of teeth, special prices.

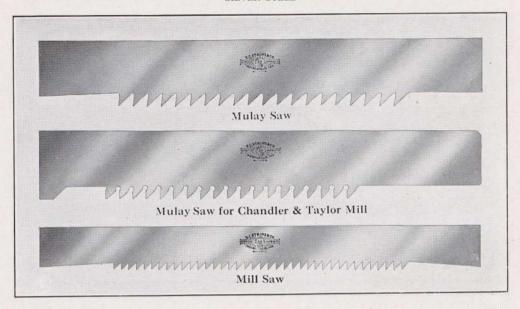
If saws are set and sharpened, add to list price as follows: 5 gauge and thicker, 40 cents per foot. 6 to 10 gauge

inclusive, 30 cents per foot.

When ordering Mill, Mulay or Drag Saws give length, width, thickness by gauge, style of teeth, space from point of point of teeth and distance from end of saw to point of first tooth. If saws are to be drilled, send full size pattern showing position of holes.

ATKINS MULAY AND MILL SAWS

SILVER STEEL



Extreme care is employed in the making of Atkins Mulay and Mill Saws. Careful workmanship throughout and a correct temper produces saws which will withstand the hardest usage.

In ordering Mill or Mulay Saws, give length, width, gauge and style of tooth required. For various styles of teeth, see illustrations on this and two previous pages.

If ends of saws are to be punched or drilled, send template of holes. Give distance between teeth, measuring accurately from point to point. Unless otherwise specified, all Mulay and Mill Saws will be furnished with standard teeth.

Saws for Chandler & Taylor Mill furnished with special gullet tooth.

ATKINS MULAY SAWS

100000000000000000000000000000000000000	Price, per Foot											
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge					
10	\$3.90	\$3.60	\$3.30	\$3.00	\$2.70	\$2.40	\$2.20					
11	4.30	4.00	3.70	3.30	3.00	2.70	2.40					
12	4.80	4.40	4.00	3.60	3.30	3.00	2.70					
14	5.60	5.20	4.80	4.40	4.00	3.60	3.30					
16	6.60	6.20	5.70	5.20	4.80	4.40	4.00					

ATKINS MULAY SAWS FOR THE CHANDLER & TAYLOR SIDE-CUTTING MULAY SAW MILL

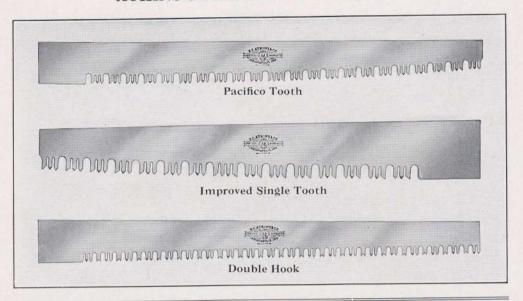
Price, per Foot										
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge			
9	\$3.60	\$3.30	\$3.00	\$2.70	\$2.40	\$2.20	\$2.00			

ATKINS MILL SAWS

	Price, per Foot											
Width, Inches	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge					
8	\$3.30	\$3.00	\$2.70	\$2.40	\$2.20	\$2.00	\$1.80					

In ordering Mulay and Mill Saws, state length, width, gauge and distance from point to point of teeth.

ATKINS DRAG SAWS - Silver Steel



 Price per Foot, Thickness

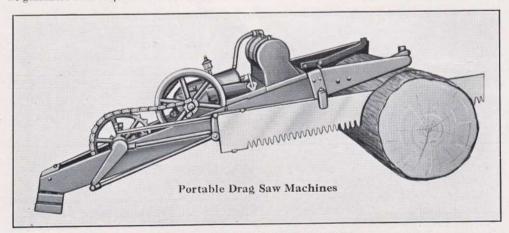
 Width, Inches
 10 Gauge, 11 Gauge, 12 Gauge

 Tapered 8-inch butt, 4-inch point
 \$1.25
 \$1.20
 \$1.20

For filing and setting advance \$0.30 per foot for 10 gauge, and \$0.15 per foot for 11 and 12-gauge saws.

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.



INCREASED PRODUCTION

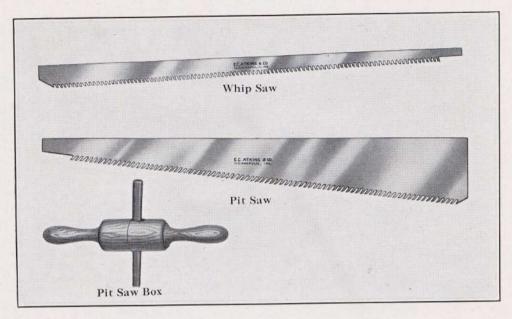
Portable Drag Saw Machines are labor savers and money makers when equipped with Atkins Silver Steel Saws. They not only enable you to cut a vast quantity of wood, but they do it at a much less expense than other methods. These machines will do good work in nearly every place where a Cross Cut Saw can be used, and when you consider that they do the work in less time, it goes without saying that they soon pay for themselves.

THE BEST MACHINES

We sell only machines of proven, practical value, thus we can guarantee our customers the best of service in the operation of these machines. Specify Atkins Silver Steel Drag Saw Blades.

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. Illustrated on page 158.

ATKINS PIT SAWS

14 x 16 GAUGE

Lengthfeet	5	51/2	6	6½	7	$7\frac{1}{2}$	8
Priceeach		\$5.50	\$6.00 4	\$6.50 4	\$7.00 4	\$7.50 4	\$8.00
Width at pointinches Width at buttinches		101/2	11	$11\frac{1}{2}$	12	121/2	13

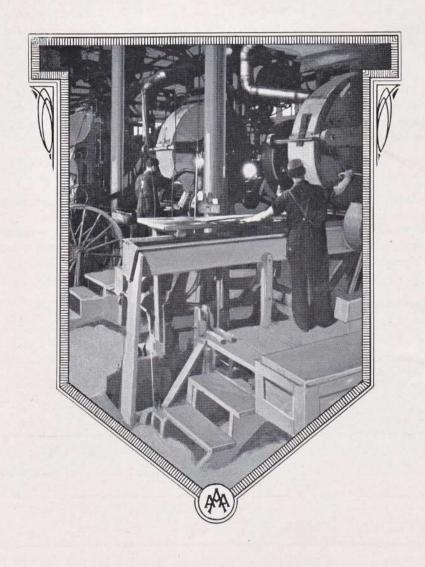
ATKINS WHIP SAWS

Length feet	5	51/2	6	61/2	7	$7\frac{1}{2}$
Price each Width at point inches Width at butt inches	\$3.00 3½	\$3.30 3½ 7	\$3.60 3½ 7½	\$3.90 3½ 8	\$4.20 3½ 8½	\$4.50 31/4 9

ATKINS BOXES FOR PIT SAWS

We show above the usual box handle furnished for pit saws. These are made of specially seasoned hardwood, carefully turned, smoothed and finely finished. Price each, \$1.00.

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 levelling 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.

ATKINS SILVER A STEEL SAWS

ATKINS WIDE BAND SAWS

SILVER STEEL



	1	Wt. per Foo	nt		- 1	Vt. per Foo		Wt. per Foot			
Width Inches	Usual Gauge	Lbs. Not Packed	Price per Foot	Width Inches	Usual Gauge	Lbs. Not Packed	Price per Foot	Width Inches	Usual Gauge	Lbs. Not Packed	Price per Foot
2	18 to 20	.28	\$0.80	51/2	17 to 19	.89	\$2.20	12	13 to 15	3.37	\$ 5.00
21/2	18 to 20	.35	1.00	6	17 to 19	1.06	2.40	13	13 to 15	3.65	6.00
3	18 to 20	.42	1.20	7	16 to 18	1.37	2.80	14	13 to 15	4.50	7.00
31/2	18 to 20	.50	1.40	8	14 to 16	1.76	3.20	15	12 to 14	4.82	8.50
4	17 to 19	.57	1.60	9	14 to 16	2.20	3.60	16	12 to 14	5.92	10.00
41/2	17 to 19	.64	1.80	10	14 to 16	2.81	4.00	17	12 to 14	6.29	14.00
5	17 to 19	.83	2.00	11	14 to 16	3.09	4.50	18	12 to 14	6.66	18.00

Saws of odd widths, not listed, take price of next wider size listed.

For saws of heavier gauge than listed add 5 per cent to list for each gauge heavier.

No extra charge for saws one or two gauges thinner than list; when more than two gauges thinner add 5 per cent to list for each gauge.

Double Edge Band Saws. List price per foot, all widths, advance 10 per cent over list prices of Single Edge Saws as above.

Toothed Blanks. Same price as finished saws.

Band Saw Blanks. Bright, of any width, furnished to order but not warranted.

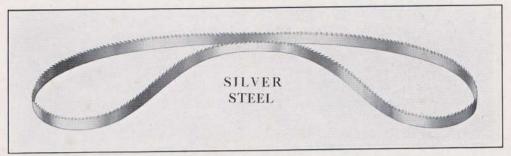
REVISED TABLE OF STRAINS

SUITED TO DIFFERENT WIDTHS AND GAUGES OF BAND SAW BLADES

Thickn	ess						Pounds lth, Inc	hes				
Gauge	Inches	21/2	3	31/2	4	41/2	5	6	7	8.	10	12
21 and less	1 18 to 1820	800	900	1050	1200	1300	1400	1600	Te + + (a)			
19 and 20	1000 to 1000	1000	1200	1400	1500	1700	1900	2200	2500		2.200	4.444
19 Tight and 18	1 45 to 1 49			1700	1900	2100	2300	2600	3000	3300		
17	1000				2300	2500	2700	3200	3600	4000	4800	
16	1 0 0 0	********					3000	3500	4000	4500	5200	
15	7 9 1 0 0 0							4000	4500	5000	6000	7500
14	83 1000	* * * *			* * * * *	1.1.1.1			5500	6000	7500	9000

ATKINS BAND SAWS

NARROW



FOR RE-SAWING AND SCROLL SAWING

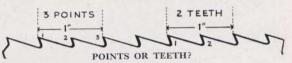
Width Inches	Standard Gauge	Standard Points per Inch	Weight per 100 Feet Lbs.	Price per Foot	Width Inches	Standard Gauge	Standard Points per Inch	Weight per 100 Feet Lbs.	Price per Foot
1/	23	0	1.05	\$0.14	7/6	21	4	9.39	\$0.25
78	23	7	1 57	.15	1 8	20	31/2	11.75	.27
16	22	é	2 35	.16	11/2	20	31/2	13.16	.29
4	22	51/2	3.52	.17	11/	20	31/2	14.71	.31
78	21	5/2	5.36	.18	13/	20	3	16.08	.35
22	10000	417	6.70	.20	11/6	20	3	17.63	.38
2/8	21 21	4/2	8.05	.22	13/	20	3	20.57	.45

Note-These saws are set and filed.

Above prices as given include setting and filing.

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

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



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	Per Braze
1/4 to 1/2 inch		1 to 1¼ inch	\$0.30 Net .35 Net

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.

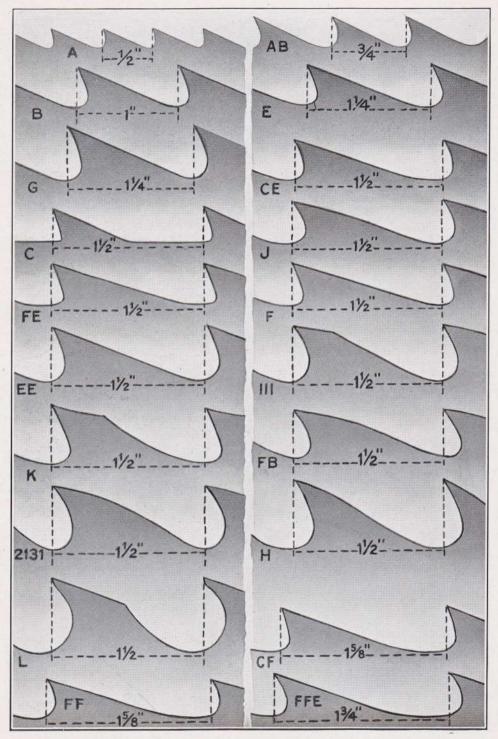
APPROXIMATE WEIGHTS OF ENDLESS RUBBER BANDS FOR BAND SAW WHEELS

Diameter of Wheels Inches	Width Inches	Lbs.	Ounces	Diameter of Wheels Inches	Width Inches	Lbs.	Ounces	Diameter of Wheels Inches	Width Inches	Lbs.	Ounces
22	11/6	1	4	26	2	1	14	36	21/4	2	11
24	11/2	î	6	28	2	2	0	38	21/4	2	13
26	11/2	î	8	30	2	2	2	40	21/4	2	15
28	11/2	1	10	32	2	2	4	42	21/4	3	1
	11/2	1	12	34	2	2	6	30	21/2	2	8
30	13/	1	9	36	9	2	8	32	21/2	2	10
24	13/	1	11	38	9	2	10	34	21/2	2	12
26	194	1	13	40	õ	9	12	36	21/2	2	14
28	194	1	15	30	21/4	9	5	38	21/2	3	0
30	194	1	10	32	21/4	õ	7	40	21/2	3	2
32	194	2	0		21/4	2	9	42	21/2	- 3	4
34	13/4	2	3	34	2/4	2	9				20.00
36	13/4	2	5	+ 4	81.0.0	0.01	4	1.1	7.7.7	F. J.	

Above table is based on bands $\frac{1}{16}$ inch thick, which is the standard. For $\frac{1}{4}$ inch thick add one-third. These weights are approximate and are subject to a light variation. Prices quoted on application.



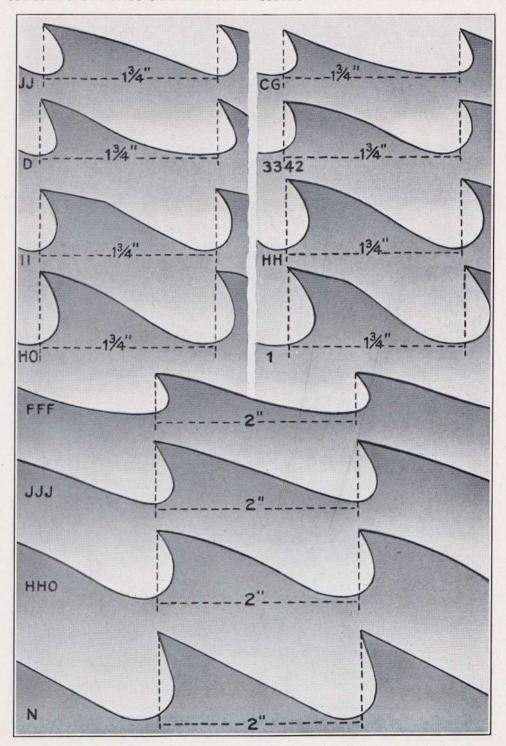
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



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



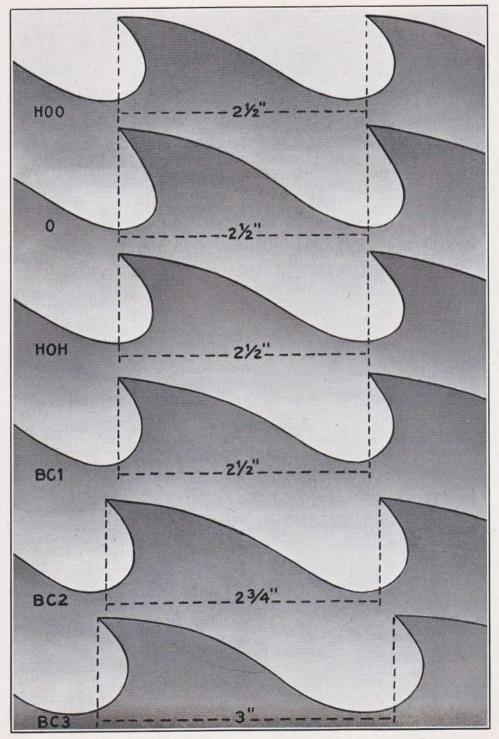
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



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

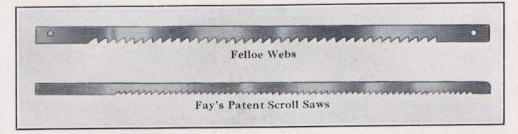


ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



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

ATKINS FELLOE WEBS AND SCROLL SAWS



ATKINS FELLOE WEBS

Length Inches	Gauge	Width Inches	Price per Dozen	Length Inches	Gauge	Width Inches	Price per Dozen
e	19	A to 1/2	\$1.50	22	17	1/4 to 3/4	\$3.85
7	19	# to 1/2	1.60	24	17	1/2 to 1/4	4.25
0	19	% to 16	1.70	26	17	1/4 to 3/4	4.65
10	2.2.2	16 to 1/2	1.90		17	1/4 to 1	5.15
10	18 18	10 77 44	2.10	28 30	16	1/4 to 1	5.65
12	10	14 to 1/2	2.40	32	16	1/4 to 1	6.15
14	177	1/4 to 5/4	2.75	34	16	14 to 1	6,65
16	17	(4 7 6 6	3.10	36	16	14 to 1	7.15
18 20	17	1/4 to 3/8	3.45	00	-0	74 00 2	

This list is for saws ground 3 gauges thin on back.

STANDARD SIZES OF FELLOE WEBS IN STOCK

14 to 30 inch........ 3 to 1 inch 8 and 10 inch..... 1/8 to 3/4 inch 1/8 and 1/8 widths, 8 points to the inch; 1/4, 71/2 points; 1/5, 7 points; 3/5, 61/2 points; 1/2, 6 points; 5/5, 51/2 points; 34, 5 points; 38, 41/2 points; 1, 4 points.

Other than standard sizes will have to be manufactured special.

Special prices for all saws other than the above sizes.

N. B.-All web saws one-eighth inch and narrower will be made with wide ends in order to give strength at the hole, twenty-five per cent advance; with pins, 50 cents per dozen additional, list.

FAY'S PATENT SCROLL SAWS

Lengthinches	8	9	10	11	12	13	14	16	18	20	22	24
Priceper dozen	\$2.00	\$2.25	\$2.50	\$2.75	\$3.00	\$3.25	\$3.50	\$3.75	\$4.00	\$4.50	\$5.00	\$5.50

Webs to 16 inches over three-fourths inch wide, extra price; eighteen to twenty-four inches, over one inch wide, extra price. We make the above webs from 13 to 16 gauge in thickness; with pins, 50 cents per dozen additional, list.

EXPORT PATTERN WEBS

	Thickness			er Dozen Inches		Length	Thickness	Price, per Dozen Width, Inches				
Inches	Gauge	3% to 34	% to 1 1/8	1¼ to 1½	1 5% to 2	Inches	Gauge	3/8 to 3/4	3% to 1 1/8	11/4 to 11/2	1 1/8 to 2	
18 20 22 24 26	23 23 23 23 23 23	\$2.15 2.20 2.25 2.40 2.60	\$2.40 2.45 2.55 2.70 2.90	\$2.60 2.70 2.80 3.00 3.10	\$2.90 3.05 3.15 3.35 3.60	28 30 32 34 36	23 23 22 22 22 22	\$2.75 2.90 3.10 3.30 3.50	\$3.10 3.30 3.45 3.60 3.75	\$3.30 3.60 3.85 4.00 4.15	\$3.80 4.10 4.40 4.55 4.70	

EXTRA THIN BACK

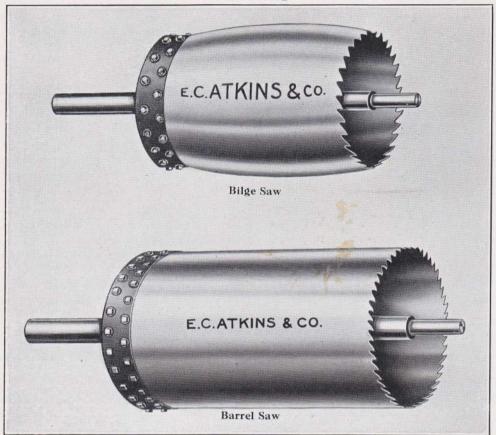
Langth	Thickness Toothed Edge	Thickness Back Edge	Price, per Dozen Width, Inches							
Length Inches	Gauge	Gauge	3/8 to 3/4	3/8 to 11/8	11/4 to 11/2	1 1/8 to 2				
18	23	25	\$2.55	\$2.75	\$3.00	\$3.25				
20	23	25	2.60	2.85	3.10	3.45				
22	23	25	2.70	2.95	3.20	3.55				
24	23	25	2.80	3.10	3.35	3.75				
26	23	25	3.00	3.30	3.60	4.00				
20	23	25	3.10	3.40	3.75	4.25				
28 30	23	25	3.30	3.65	4.00	4.50				
32	22	24	3.40	3.80	4.20	4.75				
34	22	24	3.50	3.90	4.35	4.90				
36	22	24	3.65	4.10	4.55	5.15				

Five per cent extra for each gauge heavier or lighter than above. Twenty per cent extra for webs with teeth finer than ten points to the inch. All webs are packed one dozen to a carton.

ATKINS SILVER M STEEL SAWS

ATKINS BILGE AND BARREL STAVE SAWS

SILVER STEEL



We manufacture barrel and bilge saws according to specifications, for use on any and all types and makes of stave 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 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 inch 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 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.

Bilge 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.

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.

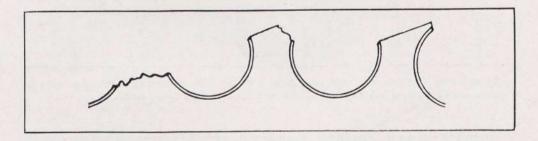
We have established fully equipped Repair Departments at our main plant in Indianapolis, at our Canadian factory, Hamilton, Ont., also in connection with our branch houses at Memphis, Atlanta, New Orleans, Minneapolis, Portland, Seattle and Vancouver, B. C.

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 and Memphis, 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 for repairing saws will be found on the next three following pages.



REPAIRING ATKINS SOLID TOOTH CIRCULAR SAWS

Diameter Inches	Hammering Only	Gumming and Hammering	Cutting-down Re-toothing and Hammering	Grinding First Gauge	Grinding Additional Gauge Each Gauge
4	\$0.30	\$0.45	\$0.60	\$0.55	\$0.25
5	.35	.50	.65	.60	.30
6	.45	.55	.75	.65	.35
7	.50	.65	.85	.75	.45
8	.55	.75	1.00	.85	.55
9	.65	.85	1.15	.95	.65
10	.75	1.00	1.30	1.05	.75
12	.90	1.35	1.60	1.15	.85
14	1.05	1.60	1.90	1.35	1.00
16	1.20	1.80	2.20	1.60	1.15
18	1.45	2.10	2.55	1.95	1.30
20	1.65	2.50	2.95	2.20	1.45
22	1.90	2.85	3.30	2.40	1.60
24	2.10	3.25	3.70	2.70	1.75
26	2.40	3 70	4.20	3.00	1.90
28	2.70	4.15	4.75	3.40	2.05
30	3.00	4.60	5.35	3.75	2.20
32	3.30	5.05	6.00	4.15	2.35
34	3.70	5.55	6.90	4.50	2.55
36	4.30	6.15	7.80	4.90	2.80
38	4.80	7.00	9.00	5.25	3.00
40	5.55	8.05	10.20	5.65	3.30
42	6.30	9.15	11.55	6.00	3.60
44	7.05	10.35	13.05	6.45	4.05
46	7.95	11.80	14.70	7.00	4.50
48	8.85	13.20	16.50	7.60	4.95
50	9.75	14.65	18.40	8.25	5.40
52	10.65	16.05	20.25	9.00	5.95
54	11.55	17.55	22.15	9.90	6.30
56	12.45	19.05	24.00	10.90	6.75
58	13.50	20.70	25.90	12.00	7.20
60	14.70	22.50	27.75	13.20	7.75
62	15.90	24.30	30.40	14.40	8.25
64	17.10	26.10	33.00	15.60	8.85
66	18.30	27.90	35.65	16.80	9.45
68	19.50	29.70	38.25	18.00	10.15
70	20.70	31.50	40.90	19.50	11.05
72	21.90	33.30	43.50	21.00	12.00
74	23.10	35.10	46.15	22.50	13.15

In sending us saws for repairs, mark our address in full upon the package; also give address of party sending it and what station and state shipped from, so that we can identify on arrival.

ATKINS TAPER GROUND SHINGLE, HEADING AND RE-SAWS

Sizeinches	46 and under	48 and over
Hammered	\$0.20	\$0.25
Gummed and hammeredper inch in diameter	.28	.38
Re-toothed and hammeredper inch in diameter	.38	.50
Grinding first gaugeper inch in diameter	.08	.10
Grinding additional gaugesper 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.

RE-TEMPERING AND RE-FITTING BURNED SOLID TOOTH CIRCULAR SAWS

(Including Tempering, Grinding, Polishing, Gumming and Hammering)

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
30	\$14.00	44	\$36.65	58	\$ 90.00
32	16.00	46	43.35	60	100.00
34	18.10	48	50.00	62	113.35
36	20.65	50	56.65	64	126,65
38	23.35	52	63.35	66	140.00
40	27.35	54	70.00	68	156.65
42	31.35	56	80.00	70	176.65

All sizes under 30 inches, two-thirds list price of circular saws. Prices for re-tempering chisel bit saws quoted on application.

REPAIRING LONG SAWS, CROSS CUT AND BAND SAWS

MILL, MULAY AND EQUAL WIDTH DRAG SAWS

Length	Over 5
Re-toothing and hammeringeach \$1.50 Hammering onlyeach 1.00	\$2.00 1.50
TAPER DRAG SAWS	
Re-toothing, hammering and filing each Hammering only each Setting and sharpening only each Re-toothing and hammering only each	1.00
CROSS CUT 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	1.00 1.50 2.00 .70
BAND SAW BLADES-LARGE	
Brazing wide blade for log mill per inch in width Hammering per foot per inch in width Gumming and toothing per running foot Filing and swaging per running foot	.05
NARROW BAND SAWS	
Filing and settingper foot	\$0.06
BRAZING	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.75 .90 1.20
1 ³ / ₄ inch	1.35

PRICE LIST FOR CHANGING SOLID TOOTH CIRCULAR SAWS INTO INSERTED TOOTH SAWS

Diameter in Inches	Price for Cutting Down and Inserting No. 2 Teeth	Price for Cutting Down and Inserting No. 2 ½ Teeth	Price for Cutting Down and Inserting Nos. 3, 30, 4 and 5
0	\$14.40	\$15.60	
2	16.80	18.00	
4	20.40	21.60	*****
6	. 24.00	26.40	\$24.00
8	27.60	30.00	26,40
0	31.20	36.00	28.80
2	22 22	42.00	32.40
4	40.80	48.00	36.00
6	45.60	54.00	40.80
8	24 44	60,00	45.60
0	52.80	66.00	50.40
2	58.80	72.00	59.20
4	63.60	78.00	60.00
6	68.40	84.00	64.80
8	73.20	90.00	69,60
0	***	98.40	74.40
2		105.60	81.60
4		115.20	86.40
6		122.40	91.20
8		130.80	96.00
0		138.00	103.20
2		151.20	120.00
4		170.40	132.00
66		180.00	144.00
		194.40	156.00
8		208.80	168.00
		225.60	182.40
2		240.00	204.00
4		268.80	224.00
88		300.00	258.00

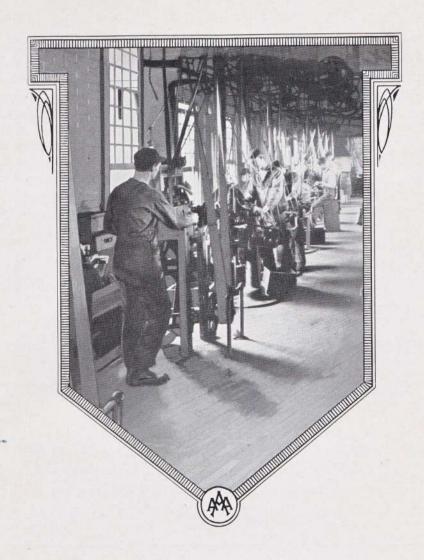
The above prices are figured on diameter of saws when finished.

All work accepted subject to owner's risk.

One extra set of teeth or bits, one extra holder or shank and one wrench furnished with each saw refitted.

Prices for repairing burned Inserted Tooth Saws quoted on application.

ATKINS TOOLS For the Filing Room



ATKINS IDEAL SWAGE

In the Atkins Ideal Swage we have discovered the true principle for swaging saw teeth. 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 parts are made 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 re-saws, circular saws of all sizes and shapes of teeth, shingle saws, cylinder saws, etc. For detailed information in these particulars, see pages 67 and 68.

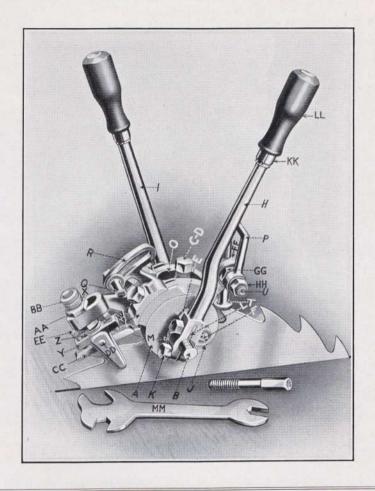
Lists of parts and instructions for operating will be found on the following pages.

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

We have prepared an elaborate book on Atkins and Pribnow Swages and Shapers, also Filing Room Tools, which we will send free on request.

ATKINS SILVER

ATKINS IDEAL SWAGES



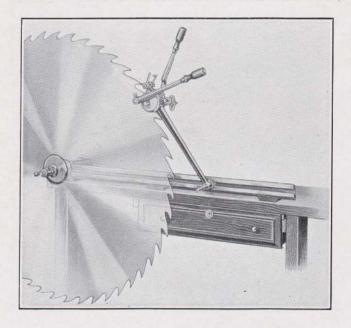
Ideal Swage No.	Size Die Inches	Depth of Tooth Not Less Than Inches	Gauge and Thickness of Saws	Made for	Net Prices
0	5 16	Shallow	19 gauge and thinner	Band saws	\$29.25
00	3/8	3/8	16-17-18-19	*Band saws	31.50
1	9 16	9 16	13-14-15-16	Band and gang saws	37.00
9	11 16	11 16	12-13-14-15	Band saws	37.00
2	5/8	5/8	8-9-10-11-12	Circular saws	39,25
5	5/8	5/8	12-13-14	Band and gang saws	37.00
3	3/4	3/4	6-7-8-9-10	Circular saws	42.75
6	3/4	3/4	11-12-13-14	†Band saws	42.75
4	7 16	7 16	14-15-16-17-18-19	‡Shingle saws	33.75
7	9 16	9 16	11-12-13-14	Circular saws	37.00
8	9 16	9 16	11-12-13-14-15-16	Cylinder saws	37.00

^{*}Also applies to shingle saws for which a special front fork is provided. †Heavy duty swaging. ‡Edgers and lath saws.

See page 70 for net prices of duplicate parts.

ATKINS IDEAL SWAGES

WITH BENCH ATTACHMENT



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

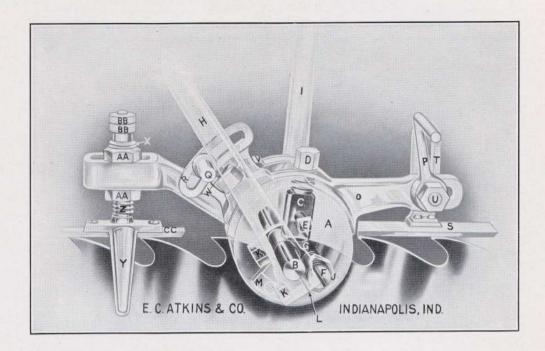
The Atkins Ideal Swage with bench attachment is operated by moving the supporting bar to the right or left until it is in perfect alignment with the swage, after which, the swage may be operated in the regular way by moving the saw forward after each tooth is swaged.

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.

IDEAL SWAGES WITH BENCH ATTACHMENTS

Swage No.		Weight Including No. Bench Attachment Swage Onl		Bench Attachment	Complete
2	* * * * * * * * * * * * * * * * * * * *	463/4	\$39.25	\$6.75	\$46.00
3		$54\frac{1}{2}$	42.75	7.25	50.00
4		421/4	33.75	6.25	40.00
7		441/4	37.00	6.50	43.50

ATKINS IDEAL SWAGES



INSTRUCTIONS FOR OPERATING ATKINS IDEAL SWAGE

In adjusting the swage for work: 1st. Loosen the set screws (E), screw the anvil screw (D) downward until the swaging die (B) will just pass the corner of the anvil (C), then give the screw (D) onequarter turn more, thereby allowing the die to strike the anvil in the proper position. Tighten the set screws (E) which hold the anvil in place, and the swage is ready to be placed upon the saw. 2d. Pull the die lever (H) down so as to let the face of the anvil free for the next adjustment. Loosen the cap screw (W) and nut (U) to let the block (A) move freely in the saddle (O). 3d. Set the swage on the tooth to be swaged and roll the block back and forth until the anvil seats itself squarely on the back of the tooth. Carefully turn the swaging die (B) with lever (H) until you feel it take hold of the front of the tooth. 4th. Tighten the clamping screw (G) slightly with lever (I), just enough to hold the block in position. Then see that the front rest (Y) is on the teeth, and tighten the cap screw (W). Bring the back rest (T) down until it, too, rests squarely on the teeth, and make it secure with nut (U). Slide the opening stop (P) up against the lever (H) and tighten in place, and the swage is ready to operate. 5th. Clamp the swage securely with lever (I). Pull the lever (H) forward until the die (B) lays against the anvil, then set the finishing stop (Q) about one-quarter inch farther along to allow for a little spring in the lever (H). Unclamp the swage and remove it from the saw. Examine the tooth swaged and if it is spread too wide, adjust the stop (P) a little closer to the lever (H), making the stroke shorter and not allowing the die to take quite as big a bite on the tooth. But if it is not quite wide enough, set the stop (P) a little farther away from lever (H), making a longer stroke and bigger bite. In carefully adjusting the stops in this manner, any amount of swage can be obtained with as little loss of metal as possible.

The SPRING (Z) is for the purpose of allowing the block (A) to tip slightly forward as the tooth is being swaged, thus rolling the metal to the point and keeping the original hook in the tooth. The KEY (L) in the slot of the die lever (H) allows the die (B) to be shifted lengthwise to a new wearing face without readjusting the stops (Q, P) or the block (A), thereby making it possible to take advantage of the many wearing faces on the die without any extra adjustment. The DIE (B) which is made extra large, is by far the longest life die in any swage yet in use. It is made of the best selected tool steel with a special temper. It has four swaging corners of five wearing faces each, making twenty wearing faces in all, and can be replaced easily without readjusting the swage. The LEVER (H) is bent so as to throw the pressure exerted while swaging central, and to keep the swage from twisting and binding, also making it easy to move the swage from one tooth to another without removing the hands from the levers, thus making the changes rapid and easy to accomplish.

ATKINS SILVER STEEL SAWS

ATKINS NEW IDEAL SWAGE PARTS

NET PRICES OF PARTS FOR ATKINS IDEAL SWAGES

Stock Letter	Description	Swage Nos. 0, 00, 1 and 9 Net Each	Stock Letter		escription		Swage Nos. 0, 00, 1 and 9 Net Each
	.Block	\$14.00	R	. Bracket for	"Q"		\$1.25
P	Die (for No. 00, 0 & 1)	2.50	5	Bushings (2)		2.00
	Die (for No. 9 only)	2.75	T	.Rear Rest .			.90
	.Anvil	1.25	TT	.Rear Rest . Plate for "	T"		.60
	Anvil Screw	1.25	II	.Stud for "	T," includ	ing Nuts	.60
	Anvil Set Screws (2)	.30	V	.Saddle Cap			.90
E	Stationary Clamp Screw	1.25	W	. Cap Screws	s for "O" (2)	.15
		1.25		.Sleeve			.60
	. Movable Clamp Screw	2.50	V	Front Fork			1.25
H	. Die Lever (complete)	2.50	7	Spring for	··V"		.20
1	. Clamping Lever (complete)	.30	A A	Lock Nuts	for "X" (9	2)	.30
J	Lock Nut for "F"		DD.	Lock Nuts	for "V" (9)	.30
K	.Cap Screws for "H" (2)	.20	CC.	. Plate for "	V"		.60
L	Key for "H"	.60	т.	. Button-He	ad Sarawa	(9)	.15
M	Lock for "H"	.30					.60
N	.Set Screw for "I"	.15		.Indicator			.15
0	.Saddle	3.50	KK	Ferrules (2	31		.30
P	. Die Opening Stop	.60		. Wood Han			.90
Q	. Die Finishing Stop	.60	MM.	.Wrench	******		, 90
Stock	Description	2 a	e Nos. nd 5	Swage Nos. 3 and 6	Swage No. 4	Swage No. 7	Swage No. 8
Letter			Each	Net Each	Net Each	Net Eacl	The second second
A	.Block	\$16	6.00	\$16.00	\$14.00	\$14.00	
В	.Die		2.50	3.00	2.50	2,50	
C	.Anvil		.25	1.25	1.25	1.25	
D	.Anvil Screw		.25	1.25	1.25	1.25	1.25
F	Anvil Set Screws (2)		.30	.40	.30	.30	.30
F	.Stationary Clamp Screw		.25	1.25	1.25	1.25	
C	. Movable Clamp Screw		.25	1.25	1.25	1.25	1.25
и	.Die Lever (complete)		3.00	3.50	2.50	2.50	2.50
T	. Clamping Lever (complete)		2.50	3.00	2.50	2.50	2.50
1	. Clamping Level (complete)		.30	.30	.30	.30	.30
1	Lock Nut for "F"		.25	.30	.20	.20	
K	.Cap Screws for "H" (2)		.60	.60	.60	.60	
L	. Key for "H"		.30	.30	.30	.30	
M	. Lock for "H"			.15	.15	.15	
N	Set Screw for T		.15	4.50	2.50	3.00	
	.Saddle		2.50	.60	.60	.60	
P	. Die Opening Stop	****	.60	.60	.60	.60	
Q	.Die Finishing Stop		.60		.90	.60	
R	. Bracket for "Q"		.90	1.25	1.75	1.75	
S	. Bushings (2)		1.75	2.00		.90	
T	.Rear Rest		.90	.90			
U	Rear RestStud for "T"		.90	1.25	*****	.90	
V	.Saddle Cap		.90	1.25	.90	.90	
W	. Cap Screws for "O" (2)		.15	.15	.15	.15	
X	.Sleeve		.60	.60	.60	.60	
Y	Front Fork		1.75	1.75	1.50	1.50	
7	Spring for "Y"		.25	.30	.30	,20	
AA	Lock Nuts for "X" (2)		.30	.30	.30	.30	
RR	.Lock Nuts for "Y" (2)		.40	.45	.30	.30	
CC.	.Plate for "Y"		.70	.70	.60	.60	
DD	Rivet		.15	.15	.15	.15	
EF.	Adjusting Screws for "CC" (2)		.20	.20	.20	.20	.20
			.30	.30		.30	
CC.	. Collar		.20	.20	* * * * * * *	.20	
GG.	Lock Nut for "U"		.15	.15		.15	
HH.	Lock Nut for "P"		.15	.15	.15	.15	
11	. Button-Head Screws (2)			.70		.70	
JJ	.Indicator		.70	.15	.15	.15	
KK.,	. Ferrules (2)	*****	.15		.30	.30	
	. Wood Handles		.30	.30		1.00	
MM.	.Wrench		1.25	1.50	1.00		.75
NN.	.Front Fork Rest Swivel for C	yl. Saws		*****			7.5
00	Cap Screws for "P"				, , , , , ,		
TT	. Plate for "T"	****	.60	.60	1.1.1.1.1.1		

Items not priced are not required.

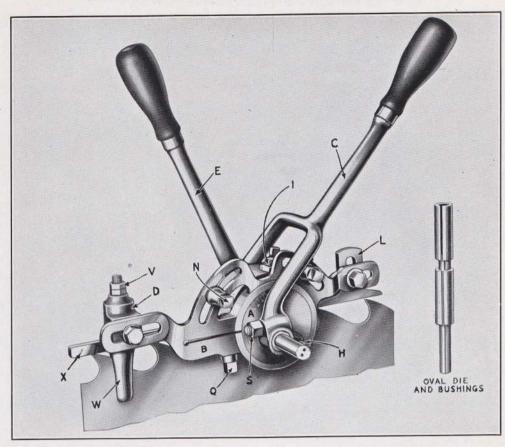
N. B. In ordering parts be sure and give the swage style number and also the stock letter of the part required.

See illustration on previous page.

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THE PRIBNOW LATEST IMPROVED PATENT SWAGE

PATENTED JANUARY 30, 1912; MARCH 28, 1916; NOVEMBER 5, 1918



THE 1918 MODEL WITH OVAL DIE MOUNTED IN A PAIR OF ECCENTRIC BUSHINGS

FOR SWAGING BAND AND THIN CIRCULAR SAWS

This style of swage has been on the market for several years; it has stood the test in some of the best mills, and has proved to be the most convenient and perfect

working swage and the most economical in repairs on the market.

The Base is made of the best machine steel carbonized and hardened which affords superior wear for the clamp screw hole as well as the die bearing. The one-piece guide frame which carries the front tooth rest and rear tooth rest, also the front and rear die lever stop, is so mounted on the head that the working corner of the anvil is the pivot, thus moving the head in the frame for adjusting the anvil to the back of tooth, does not change the relative position of the die to the anvil.

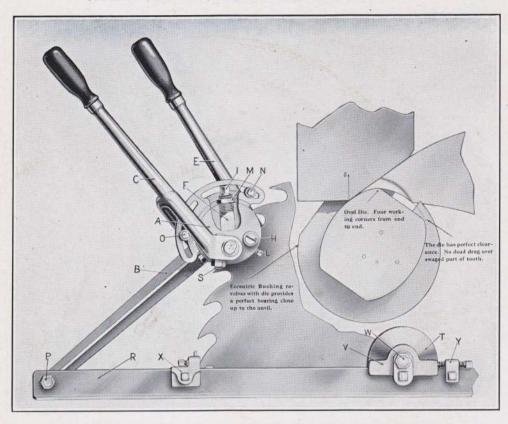
The Dies are made in a mild, medium and sharp eccentric. They are ground on centers after they are hardened, which assures perfect uniformity the entire length of die. The Swage is nicely finished, nickel-plated, buffed, and packed in a wooden box.

SUGGESTIONS FOR ORDERING SWAGES

In ordering swages the following suggestions should be observed: State gauge of saw; space of teeth; send tracing of several teeth if possible. Also state whether right or left-hand thread on clamping screw is desired. Saw points may be classed as "Slim," "Medium" and "Blunt." The standard is medium (45°) and all swages are shipped adjusted for standard tooth unless otherwise specified.

THE PRIBNOW LATEST IMPROVED PATENT SWAGE

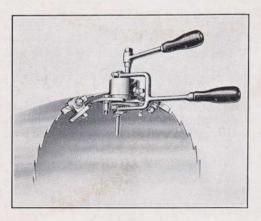
PATENTED JANUARY 30, 1912; MARCH 28, 1916; NOVEMBER 5, 1918



THE 1918 MODEL WITH OVAL DIE MOUNTED IN A PAIR OF ECCENTRIC BUSHINGS

BENCH ATTACHMENT PATTERN, FOR CIRCULAR SAWS

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 and the saw is adjusted in relation to the Swage by adjusting clamp.



The Swage is made extra strong especially adapted for heavy work. The action of the Die is more of pressure than a roll. It duplicates the upper Swage for a strong corner, but it puts the spread of the steel on the under side. This Swage, used in connection with the Pribnow Shaper, has proved itself in putting up the strongest possible cutting point, besides effecting a saving in saw steel sufficient to pay for the outfit in a short time. This Swage is especially successful on Inserted Teeth.

PRIBNOW CYLINDER SAW SWAGE

OVAL DIE STYLE - 1918 MODEL

This style of Swage is the same as the regular 1918 Band Saw Swage with the exception that it has the curved frame and open front fork which permits the same swage to be used on cylinder saws from 30 to 16 inches in diameter.

THE PRIBNOW LATEST IMPROVED PATENT SWAGE DESCRIPTION AND PRICE LIST FOR SWAGING BAND AND THIN CIRCULAR SAWS

(See Illustration on page 71)

No.	Gauge	Size of Die Inches	Weight Not Packed	Net Price
16	11 to 13	3/4 to 5/8	10	\$50.00
17	12 to 14	43 to 39	9	45.00
18	14 to 16	43 to 39 64 to 35 64 to 64	8	40.00
19	16 to 18	9 to 31	61/2	38.00
20	18 to 20	31 to 7	5	34.00
	19 to 22	27 to 3/6	5	34.00
21 22	20 to 24	$\begin{array}{c} \frac{31}{64} \text{ to } \frac{7}{16} \\ \frac{27}{64} \text{ to } \frac{3}{8} \\ \frac{23}{64} \text{ to } \frac{5}{16} \end{array}$	4	32.00

FOR SWAGING CIRCULAR SAWS ON THE ARBOR

No.	Gauge	Size of Die Inches	Weight Net Packed	Net Price
1A	5 to 10	7/8 to 3/4	15	850.00
2A	8 to 12	3/4 to 5/8	11	45.00
3A	12 to 16	5/8 to 1/2	9	40.00
4A	16 to 20	½ to 3/8	7	35.00

This swage is the same general construction as the one shown on page 71, but is equipped with a special guide-frame (B) adapted for circular saws.

FOR SWAGING GANG SAWS

No.	Gauge	Oval Die Inches	Solid Die Inches	Clamp Screw Inches	Weight Not Packed	Price
17G	12 to 14	11 to 5/8	23	11 16	9	\$45.00
18G	14 to 16	5/8 to 9/16	116 to 5/8	11	8	40.00
19G	16 to 18	9 to 1/2	$\frac{19}{32}$ to $\frac{1}{2}$	5/8	$6\frac{1}{2}$	38.00

This swage is equipped with the short frame which carries the inverted spring front rest and a short back rest. Furnished with oval die unless solid die is specified.

FOR SWAGING CIRCULAR SAWS AT THE BENCH

(See Illustration on page 72)

No.	Gauge	Weight Including Bench Att.	Size of Die Inches	Swage Only	Bench Att.	Complete
1B	5 to 10	45	7/2 to 3/4	\$50.00	\$7.50	\$57.50
2B	8 to 12	40	7/8 to 3/4 3/4 to 5/8	45.00	7.50	52.50
3B	12 to 16	35	5/8 to 1/2	40.00	7.50	47.50
4B	16 to 20	30	½ to 3/8	35.00	7.50	42.50
Jointer (X) fitted to bene Special cone to fit edger s	h attachment saw collars (e:	(extra)				\$2.50 5.00

FOR SWAGING CYLINDER SAWS

(See Illustration at foot of page 72)

No.	Gauge	Die Inches	Weight Not Packed	Price
18C	13 to 16	5/8 to 9/16	- 9	\$40.00
19C	15 to 18	9/16 to 1/2	7	38.00



LIST OF PARTS FOR PRIBNOW SWAGES

OVAL DIE STYLE-1918 MODEL. NET PRICES

Stock Letter	Band, Circular or Gang Swage		Nos. 16 nd 17	Nos. 18, 19 and 24	Nos.20, 21 and 25	No. 22
A Block		3	\$16.00	\$15.00	\$12.00	\$10.00
	ame		6.00	6.00	5.00	4.00
CDie Lever			5.00	4.50	4.00	3.50
	ork Body		1.50	1 25	1.00	1.00
EClamping	Lever		2.50	2.25	2.00	1.75
F Anvils (1-	-2) or (3-4)	1000	1.50	1 25	1.25	1.00
C. Anvils (1	rew, Right or Left Thread	W. M. W.	1.50	1.25	1.00	.78
	crew, Right of Left Thread	***	1.00	1.00	.75	.50
	y Clamp Screw, Right or Left		1 00	1 00	.75	.50
I Anvil Ad	justing Screw	* * *	.75	.75	.51	.50
J Anvil Set			.15	.25	.20	.20
	t for (H), Right or Left					.50
L Rear Too	th Rest	* * * *	1.00	1.00	.75	
LGRear Too	th Rest or Gang		1.50	1.50	1.25	
M Lock Nut	t for (I)	0.00	. 50	. 50	.25	.28
N Die Leve	r Stop complete		1.00	1.00	.75	.71
O Nut for S	Spring Fork		.20	.20	.15	.10
			. 50	.50	.40	.40
	Guide Frame		. 50	.50	.40	.40
RBolt for S	Spring Fork		.25	.25	.20	.20
S Grip Bolt	and Nut for (C)		1.00	1.00	.75	. 50
	Rear Tooth Rest		. 25	.25	.20	.20
	G), Right or Left		.25	.25	.20	.20
UNut for	Rear Tooth Rest		.25	.25	.20	.20
			2.00	1.75	1.50	1.50
WSpring Fo	ork	7.1.1	.50	.50	40	.40
X Spring Fo	ork Tooth Rest	4.4.4	.10	.10	.10	.10
	or (R) and (T)	* * *	10	10	10	10
ZWasher for					1.00	.10
	oint Clamp Screw		1.75	1.50		
	oint Only		1.00	.75	. 50	1 01
CX . Die Beari	ings (per pair)	9.00	2.00	2.00	1,50	1.25
DW. Wrench.		****	.75	.75	. 50	. 50
EV. Washer fo	or (L)		.25	.25	4.4.4	
	7 for (H)		11111	*****	.25	.28
	N	o. 1A	Nos. 16, 17 and 2A	Nos. 18, 19 and 3A	Nos. 20, 21 and 4A	No. 22
Oval Dies		.00	\$4.50	\$4.00	\$3.00	\$2.75
Die Bushings (2) 5	.00	4.00	3,50	3.00	2.50

BENCH ATTACHMENT PATTERN—NET PRICES

Stock Letter	Circular Swage	No. 1B	No. 2B	No. 3B	No. 4B
ABlock		\$16.00	\$15.00	\$12.00	\$12.00
A Block	ne-Piece Guide)	6.00	5.50	5.00	4.50
BBracket (a O	ever	6.00	5.50	5 00	4.00
	ever	5.00	4.50	4.00	3.00
		3.50	3.00	2.50	2.00
EClamping Le	ver	2.00	1.50	1.25	1.00
F Anvil (1-2) or	Old Chile	2.50	2.00	1.75	1.50
GClamp Screw	, Old Style	2.00	1.50	1.25	1.00
	amp Screw	1.25	1.00	1.00	.75
	ng Screw	.75	.75	.65	.50
J Anvil Set Scr		.75	.50	.50	.25
KLock Nut for	(<u>H</u>)	.75	.50	.50	.25
	(H)	.75	.50	.50	.25
	(I)	.75	.75	.50	.40
	op Bolt	.50	.50	.40	.25
ODie Lever Sto	pp Nut	1.00	1.00	1.00	1.00
	and Nut	.20	.20	.15	.15
	r (B)	2.00	2.00	1.50	1.00
	Base			1.00	.75
S Grip Bolt and	l Nut	1.25	1.00	1.50	1.50
T Saw Supporti	ng Cone	1.50	1.50		
U Nut for (G)		.25	.25	.20	.20
VCone Support		2.00	2.00	2.00	2.00
WCone Center	Pin and Nut	1.00	1.00	1.00	1.00
X Saw Jointer		2.50	2.50	2.50	2.50
Y Adjusting Cla	mp	1.00	1.00	1.00	1.00
7 Washer for ()	31	.15	.15	.10	.10
AZ Swivel Point	Clamp Screw	2.50	2.00	1.75	****
BY Swivel Point	Only	1.25	1.25	1.00	******
CX . Die Bearings	(per pair)	3.00	2.50	2.00	1.50
DW Wrench		.75	.75	.75	.50
EV Saw Cone, 1	to 2 ½ inches	1.00	1,00	1.00	1.00
FU. Saw Cone, 2	½ to 5 inches	2.00	2.00	2.00	2.00
WX Die Bushings	(per pair)	5.00	4.50	4.00	3.50

(A/A)

PRIBNOW SWAGE SHAPERS

THE PRIBNOW OLD STYLE IMPROVED SWAGE SHAPER, 1918 MODEL FOR BAND, GANG, CIRCULAR AND CYLINDER SAWS

Nearly thirty years ago E. C. Atkins & Co. placed on the market the first and original swage shaper. This same type of tool has been sold since that date under the Pribnow name.

Immediately, the importance of this invention was recognized and the sale of this valuable tool has been phenomenal.

There is scarcely a filing room equipment in the United States that does not contain one or more of these indispensable tools.

We have kept the Pribnow Swage Shapers strictly up to date, and have added from time to time marked improvements that have caused them to do work, in the shaping of saw teeth, that has heretofore been deemed impossible.

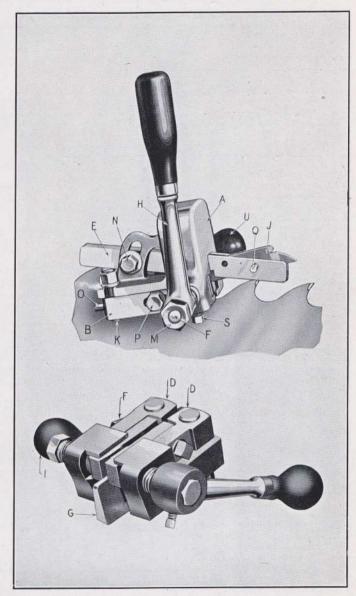
We have recently added important features, as shown in the accompanying illustration, which not only add to the economy of operation, but insure the greatest uniformity, in proper points and bevel, of saw teeth.

With the Atkins Ideal or Pribnow Swage and the Pribnow Improved Swage Shaper your work can not only be done better, but more economically than through the use of any other saw fitting tools.

This is the original style of Pribnow Shaper. While not containing the late improvements they are very satisfactory when a simple and less expensive tool is desired.

GUARANTY

We absolutely guarantee these shapers to give perfect satisfaction in every respect. We guarantee the base not to break and any of the parts that are found defective will be replaced free of charge.



DESCRIPTION AND PRICE LIST OF PRIBNOW SWAGE SHAPERS

No.	Style	Suitable for	Gauge	Wt. Not Packed	Net Price
B1-D	Double Lever	Circular Saws	5 to 10	9	\$37.50
B1	Single Lever	Band and Circular Saws	10 to 13	8	35.00
B2	Single Lever	Band and Circular Saws	13 to 16	6	33.00
B3	Single Lever	Band and Circular Saws	16 to 22	5	33.00
G2	Single Lever	Gang Saws	13 to 16	5	33,00
C2	Single Lever	Cylinder Saws	15 to 16	7	36.00
1	Single Lever	Band and Gang Saws	14 to 18	5	25.00
2	Single Lever	Band and Gang Saws	12 to 16	6	25.00
3	Single Lever	Special for Bands	11 to 14	8	27.50

See following page for price list of parts.



PRIBNOW SWAGE SHAPERS

THE PRIBNOW OLD STYLE IMPROVED SWAGE SHAPER, 1918 MODEL

LIST OF PARTS

Stock Letter	Description	Style No. B1 Price Net	Style No. B2 Price Net	Style No. B3 Price Net
ABase		\$18.00	\$15.00	. \$12.00
B Jaw Holder (left)		2.00	1.75	1.50
C Jaw Holder (right)	2.00	1.75	1.50
D Shaping Jaws per	pair	3 . 50	3.00	2.50
E Tooth Rest Bar		4.00	3.50	3.00
F Clamp Screw (Rig	tht Hand)	2.00	2.00	1.50
G Clamp Screw (Lei	t Hand)	2.00	2.00	1.50
HClamping Lever (single)	1.75	1.50	1.25
I Clamping Lever (double) each			
	te gauge of saw)		2.50	2.00
K Swivel Bolt for (I	3) and (C)		.75	.75
L Nut for (K)			.25	.25
M Nut for (F) or (G)		.30	.30
N Cap Screw for (E)			.25	.25
)		.25	.25
P Cap Screw for (D.)		.25	.25
QTaper Pin for (J) .			.10	.10
RSpring for (J)			.25	.25
SSet Screw for (F)	& (G)		.20	.20
UGuide Handle			.30	.30
V Washer for (P) an	d (K)		.10	.10
			.10	.10
W Connecting Rod a	nd Nuts for (I)		.50	.50
X Wrench			.60	.50

SWAGE ANVIL AND SHAPER JAW GRINDING GAUGE PARTS

SH. Base	\$3.00
TG Carriage	3.00
UF Protractor Gauge	
VE. Protractor Gauge Bolt.	.25

PARTS FOR PRIBNOW SHAPERS Nos. 1, 2 AND 3

Stock Letter	Description	Price Net
A Base Block fo	or Shapers Nos. 1 and 2 (including P)	\$10.00
	or No. 3 (including P and P)	12.00
BB Swivel Bolts	(including Nuts and Washers)	.75
C Tooth Gauge	Bolt (including Washer)	.15
DDSwivels or Ja	Bolt (including Washer) w Holders (including Set Screws)	1.25
SE Jaws or Dies	, per pair	2.00
FF Set Screws fo	or EE	.10
Tooth Gauge	r EE. (including Screw)	1.50
I Clamping Sci	rew	1.25
Adjusting Sc	rew for EE	.20
Handle (incl)	iding Screw for Shapers No. 1 and No. 3)	1.00
Grinding Gar	uge (including L and M)	1.50
		.20
		.10
J Side Handle	(wood part only)	.20
Screw for N	(mosa para saa)	.15
Back Guide f	or Nos. 1 and 2.	.35
PP Back Guide f	or No. 3	2.00

N. B.—In ordering parts, be sure and specify the style number of shaper, also the stock letter of the part required and gauge of saw.

ATKINS UPSET SWAGES

Atkins Upset Swages may be successfully used on all kinds of saws. The material in the shank is of the very highest quality tool steel. The bands are made from a high-grade soft steel of sufficient tensile strength to stand the strain without cracking or expanding.

WHEN ORDERING

Order by number, specifying type of saw and gauge on which swage is to be used.

ATKINS No. 2

FOR BAND AND CYLINDER SAWS

Price.....each \$2.25 Weight, each...ounces $6\frac{1}{2}$

ATKINS UPSET

FOR CIRCULAR AND OTHER SAWS

No. 0, for large circular saws, from 5 to 10 gauge.

Price......each \$3.00 Weight, each ...pounds $1\frac{1}{2}$

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

Price.....each \$2.75 Weight, each ...pounds $1\frac{1}{8}$

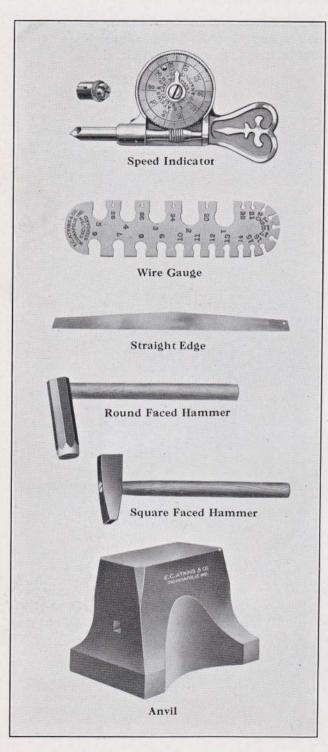
No. 2, for small circular and mill saws of thinner gauge.

No. 3, for small circular saws.

Price each \$1.75 Weight, each . . ounces $2\frac{1}{2}$



ATKINS SAW MAKERS' TOOLS



IMPROVED SPEED INDICATORS

Will give the speed of any machine or shaft when in motion, correctly. Weight, per dozen, 2 pounds.

Sent by mail, prepaid, with cap, for 75 cents each.

STANDARD WIRE GAUGES

Oblong gauges Nos. 1

to 26 each \$1.25

Round wire gauges
.....each 1.00

STRAIGHT EDGE

Price...... per foot \$1.00 Over 5 feet in length, special prices quoted on application.

TENSION GAUGE

Made to order. Prices on application.

BACK GAUGE WITH DOUBLE EDGE

Made to order. Prices on application.

ROUND FACED HAMMER

Price.....per pound \$0.60 Furnished any weight desired.

SQUARE FACED HAMMER

Price per pound \$0.60 Furnished any weight desired.

ANVILS

STEEL FACED

Anvils weighing less than 180 poundsper pound \$0.15

We keep in stock anvils 10 x 6 face, 86, 110, 145 pounds; 12 x 6, 250 pounds.

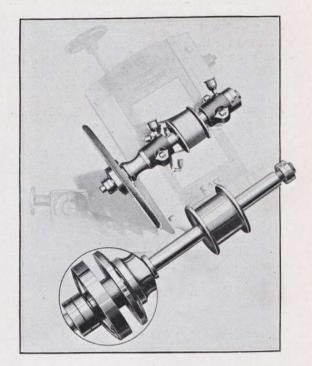
ATKINS "AAA" SLIDING SLEEVE ARBOR

(PATENTED SEPTEMBER 23, 1913)

The "AAA" Sliding Sleeve Arbor is for use on automatic saw sharpening machines. It satisfactorily overcomes the "burning" of saw teeth, which hardens the metal, renders the tooth brittle, causes it to crumble in the cut and become impossible to properly swage.

Furnished complete with all attachments and wrenches for adjusting the collar to any standard automatic saw sharpening or grinding machine. In ordering, give number and make of machine on which the arbor is to be used and whether right or left hand, also thickness of emery wheel. Write for descriptive literature.

Price each \$30.00 Weight each 14 pounds



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.

ATKINS SIDE FILES

ADJUSTABLE No. 1

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

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. No one who runs such saws should be without this tool. It is also preferred by some on circular saws.

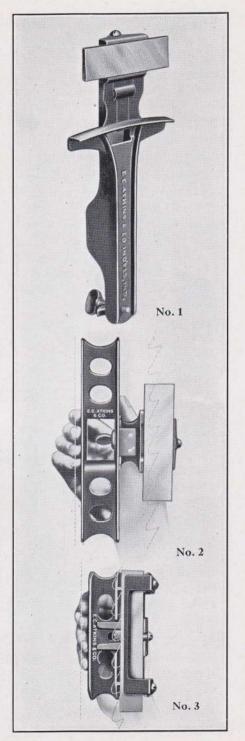
No. 3 FOR BAND AND GANG SAWS

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.

No. 1, for circular sawseach	\$1.00
No. 2, for band, gang and circular sawseach	1.00
No. 3, for band sawseach	1.00
Extra files for Nos. 1 and 2 per dozen	3.00
Extra files for No. 3 per dozen	3.60
Weight, No. 1, eachpounds	2
Weight, No. 2, eachpounds	$1\frac{13}{16}$
Weight, No. 3, eachpounds	$1\frac{13}{16}$ $1\frac{3}{8}$



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 \$9.00

Made to suit saws of different sizes.

Large, for circular saws, double handle each \$2.25

Small, for band saws, single handle.....each 1.50

Weight, large, 1 lb., 10 oz., each. Weight, small, 10 ounces each.

BAR SWAGES

No.	No. of Sides	Dimensions Inches	Wt. Lbs.	Price Each
1	6 or 8	11x1 x½	13	\$3.75
2	6 or 8	11x11/4x5/8	1 11 16	4.50
3	6 or 8	11x1\frac{1}{2}x\frac{3}{4}	2 9 16	5.25
4	6 or 8	11x13/4x7/8	31/2	6.00

HAMMERS FOR BAR SWAGES

Size Inch	Weight Lbs.	Price Each
3/4	1/2	\$1.50
1/8	11	1.80
1	$\frac{13}{16}$	2.25

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.

LEVELING BLOCKS

SURFACED ON BOTH SIDES

Width Inches	Thickness Inches	Weight per Foot	Price per Lineal Foot
12	2	80	\$ 6.00
12	21/2	100	7.50
12	3	120	9.00
12	31/2	140	10.50
12	4	160	12.00

Other widths at proportionate prices.

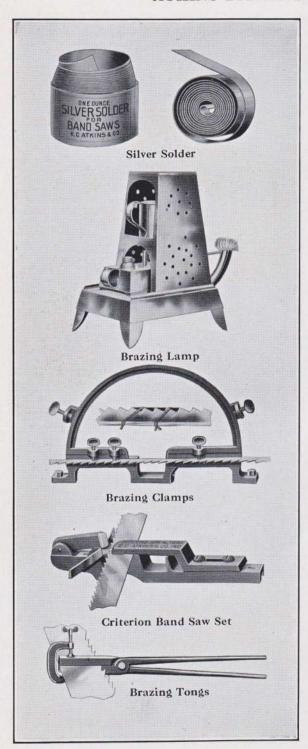
LEVELING TABLE

12 inches wide, 7 feet long.

Price.....each \$18.00



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.

DIRECTIONS FOR USING LAMP

Use alcohol in both lamps and in the blower, having the blower about half full. Light both wicks in the lamps and place the heating lamp in position under the blower. See that the blow pipe is directed against the base of the blaze, and in a moment, as the alcohol becomes heated, the flame can be sent in any direction, and the weld quickly made. As the solder melts, spread it evenly over the surface of the saw with any pointed instrument.

Price	each	\$4.50
Weight,	eachpounds	2

ATKINS BRAZING AND FILING CLAMPS

FOR BRAZING NARROW BAND SAWS

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 alcohol lamp with automatic blower, or with the common brazing tongs. Use the half circle of clamp when filing the bevel and in finishing up braze.

Priceeach	\$3.75
Weight, each pounds	13

ATKINS CRITERION BAND SAW SETS

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

Price......per dozen \$10.00 Weight, one-half dozen.pounds $7\frac{1}{8}$

BRAZING TONGS AND CLAMPS FOR BAND SAWS

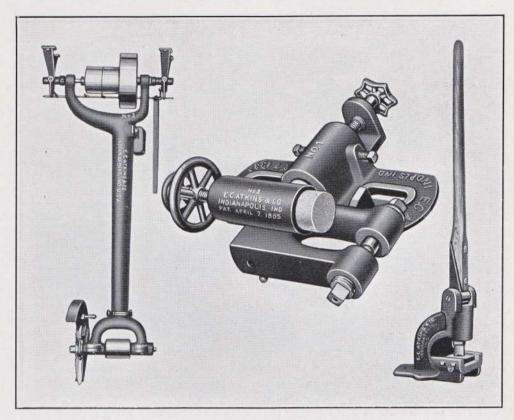
LARGE

and from 2 to 6 inch with

clamp.	n, with
Priceeach Weight, eachpounds	\$7.50 11½
SMALL	

ATKINS SILVER

ATKINS SPECIALTIES



THE 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	\$ 7.50	Guide, without rounder	\$10,00 12.50
Combined guide and rounder	10.00 32	Combined guide and rounderpounds	47
Weight, rounder onlypounds	61/2	Weight, rounder onlypounds	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 $1\frac{\pi}{16}$ 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 16×5 inches, arbor pulley 16×5 inches, arbor pulley 16×5 inches, size of arbor in bearing 16×5 inches, size of arbor where saw goes on 16×5 inches. Speed of countershaft 16×5 revolutions per minute, weight, 16×5 inches, size of arbor where

saw goes on 1 inches. Speed of countershaft 450 revolutions per minute, weight, 400 pounds.	
Price, No. 7, with saw	\$60.00
Weightpounds	550

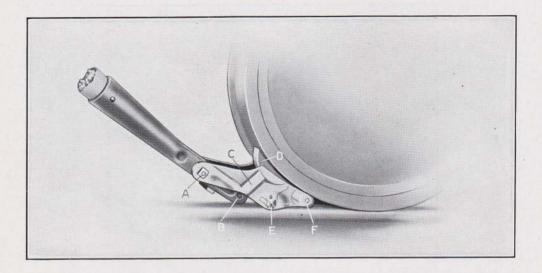
ATKINS PUNCH GUMMER AND SHEAR

A very handy device for punching teeth in band and cross cut saws. We furnish dies to any specification. Will nmodate dies up to $3\frac{1}{2}$ inches square by $\frac{1}{2}$ inch thick.

Priceeach	\$30.00	We furnish dies for shearing band saws, to be Atkins Gummer.	used in
Extra punches and diesper set Weightpounds	75	Priceper pair	\$12.00

ATKINS SILVER M STEEL SAWS

ATKINS "AAA" CAR MOVER



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 reason for its ease of operation will be apparent when you examine the above picture. You will note that every pound of pressure is directed at the exact point where it will produce the best results.

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.

A trial of the Atkins "AAA" Car Mover in comparison with any other will immediately demonstrate its superiority.

This device will be of particular interest to every manufacturing plant which has switching facilities. It will enable one man to move the heaviest car from point to point and is the only hand contrivance that will do this easily and with speed.

The leverage is warranted to at least double that of any other car mover. It holds practically the same relation to other movers that they do to the old fashion "pinch bar."

Sold under an absolute guarantee subject to return in ten days if not perfectly satisfactory.

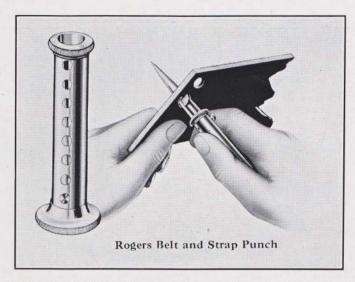
Priceeach	\$6.00
Weight, each, net pounds	

PARTS FOR "AAA" CAR MOVER

	Letter and Name of Parts	Price Each	Name of Parts	Price Each
G	Frame	\$2.10	Lever	\$3 . 30
D	Wheel shoe	60	Short pin	
E	Steel grip		Long pin	
F	Roller wheel		Wood handle	1.00
C	Link	20		
A	Lever bolt			



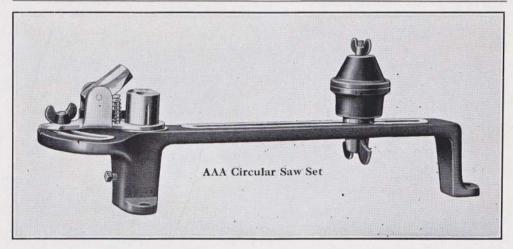
ROGERS BELT AND STRAP PUNCH



This punch is designed for cutting holes of any desired uniform size in leather or rubber belting, harness or similar material. The blade tapers and is curved. It slips into the handle when not in use and is withdrawn by pulling the thumb screw outward. A series of holes on the side of the handle regulates the amount of blade which is exposed and, therefore, the size of hole cut.

It will cut any size from $\frac{1}{16}$ to $\frac{3}{8}$ inch or from $\frac{3}{2}$ to 11 m/m, and being no larger than a pocket knife, should be in the pocket of every engineer, belt man, millwright, farmer and horseman.

Price	\$9.00
Weight	1 lb. 7 oz.



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 shape holder, which is graduated for a hole from \(^3\)4 to 1\(^1\)2 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 thumb screw on the bottom. The anvil has four surfaces of different degrees of bevel, and revolves into four slots, or stops, making it impossible 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 thumb screw. This enables the user to secure any set desired to point of tooth for either rip or cut-off Saw. The hammer arrangement insures an equal blow. The Saw being held in uniform position, a variation in set cannot occur. It is so simple that anyone can operate it.

BAND SAW GUIDE AND SETTING MACHINES

WRIGHT'S NON-FRICTION BAND SAW GUIDE

The saw runs against the face of a chilled steel disc, giving from 1½ to 5 inches surface bearing for the back of saws, without heating or crystallizing the blade. Its operation is fully shown in the accompanying illustration.

Price.....each \$10.00 Weight (packed) each ...pounds 8

WRIGHT'S BAND SAW SETTER

This splendid device is designed for either power or hand motion. It has an automatic grip, positive feed, uniform set, insuring smoother cutting and longer life to the saws. We guarantee a saving of 40 per cent in time, labor and general breakage to the saw through the use of this machine. Capacity, 200 teeth per minute. Will accommodate saws from 1½ to ½ inches.

 $\begin{array}{lll} \text{Price.....each} & \$20.00 \\ \text{Weight (packed) each . pounds} & 15 \frac{3}{4} \end{array}$

EQUAL BLOW SETTING MACHINE

FOR BAND SAW BLADES UP TO 2 INCHES

Sets an ordinary saw in from three to five minutes.

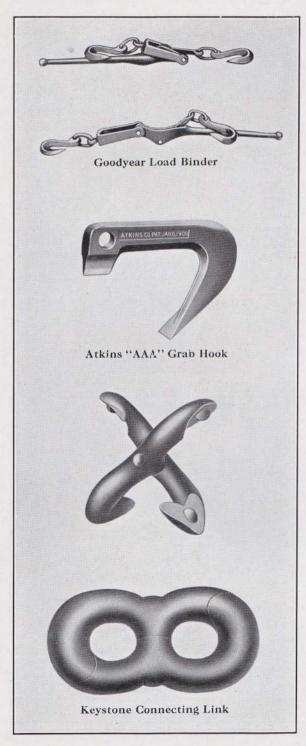
Blades set without removing from machine, or at the bench as desired.

The first and only setting machine in which two teeth are set, one in either direction by two hammers which are pressed by same spring and striking with equal force at the same instant.

Price......each \$25.00 Weight (packed) each ..pounds $14\frac{1}{2}$



CONNECTING LINKS AND LOAD BINDERS, 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 22½ inches and closes up to 18 inches, taking up a slack of 4½ inches.

Priceeach \$2.50 Weight, per pair.....pounds 21

GRAB HOOKS

Atkins "AAA" Grab Hook will be found superior in many ways.

The peculiar pitch given to the hook, and the angle at which it is placed, permit it to be easily driven into position and almost instantly released.

At the same time it is so constructed that it is impossible for it to work loose.

Made of a very fine tough steel, and both points are carefully tempered so that they may be sharpened and will hold their edge indefinitely.

Price.....per dozen \$8.00

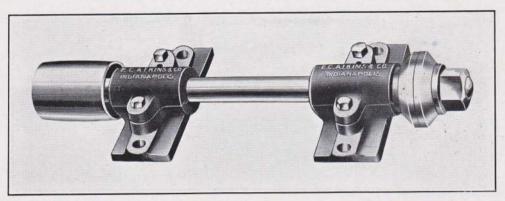
KEYSTONE CONNECTING LINKS

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	Wt. Lbs. per Dozen
1/4	\$ 2.00	7/8
5	2.25	11/2
3/8	2.50	21/2
7	3.25	37/8
1/2	4.00	53/8
5/8	7.50	107/8
3/4	10.00	18
1	15.00	431/2

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



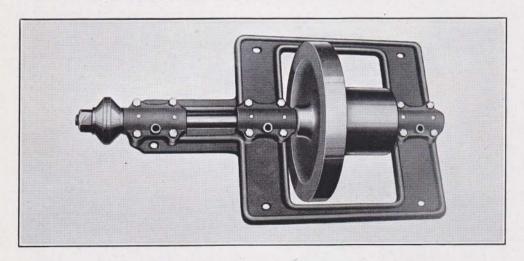
PULLEY OUTSIDE BOXES

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.

No.	Extreme Length Inches	Diameter of Arbor Inches	Diameter of Pulley Inches	Face of of Pulley Inches	Diameter of Collars Inches	Size Hole in Saw Inches	Size of Saw Inches	Weight Lbs.	Price Each
1	161/2	1 16	3	3	3	1	10 to 12 10 to 12	18½ 20	\$ 8.00 8.50
2	19	1 16	3	3 1/2	3 14	114	14 to 16	27 1/2	9.50
3	21 1/2	1 3	31/2	41/2	316	11/6	14 to 16	30 1/2	10.75
5	26	1.4	4	5	4	11/4	18	351/2	12.50
6	28	1 15	4 1/2	51/2	4	134	18	40	14,00
61/2	30 1/2	1 7 16	5	6	4 1/2	1 16	20 to 22	471/2	16.00 16.00
7	30 1/2	$1\frac{7}{16}$	5	6	4 1/2	138	24 to 26 24 to 26	5112	18.00
8	33 1/2	1 16	5 1/2	61/2	4 12	116	28 to 30	51½ 62	22.50
10	41	1 16	7	8	5	15%	32 to 38	86	28.00
11	4416	1 18	8	10	5	15%	32 to 38	133	33.50
12	48	1 15	10	10	5	15/8	32 to 38	157	40,00
13	54	2 16	12	10	5	2	40 and over		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



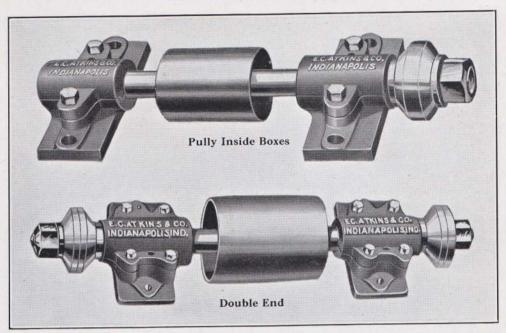
Extreme Length	Distance from Saw to Wheel	Diameter of Mandrel	Size of Pulley	Diameter Saw Collar	Hole in Saw	Price
38 Inches	18½ Inches	1 7 Inches	7 x 7 Inches	4½ Inches	1¼ Inches	\$32.00

Prices do not include saws.



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 Lbs.	Price Each
1	14	116	3	3	3	1	10 to 12	171/2	\$ 7.50
0	16	4	3	31/2	3	1	10 to 12	19	8.00
3	18	$1\frac{1}{16}$ $1\frac{3}{16}$	3	4	31/2	11/8	14 to 16	27	9.00
1	20	1 3 16	31/2	41/2	31/2	11/8	14 to 16	29	10.00
7	22	$1\frac{5}{16}$	4	5	4	11/4	18	34	11.50
6	24	$1\frac{1}{16}$	41/2	51/2	4	11/4	18	381/2	13.00
61/2	26	1.7	5	6	41/2	15	20 to 22	381/2	14.50
7	26	1-7	5	6	41/2	13/8	24 to 26	47	14.50
0	28	1 16	51/2	61/2	41/2	13/8	24 to 26	49	16.00
0	32	1 1 6	6	7	41/2	11/2	28 to 30	60	20.00
10	36	111	7	8	5	15/8	32 to 38	77	26.00

PULLEY INSIDE BOXES, DOUBLE END

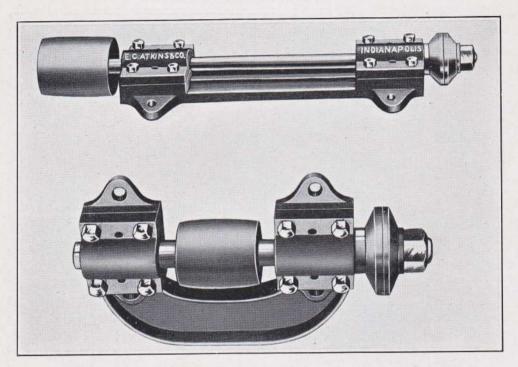
No.	Extreme Length Inches	Distance from saw to Saw on Double Ended Mandrels Inches	Distance from Out to Out of Boxes on Double Ended Mandrels Inches	Diam. of Arbor Inches	Diam. of Pulley Inches	Face of Pulley Inches	Diam. of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Lbs.	Price Each
1	20	16	13	116	3	3	3	1	10 to 12	22	\$12.00
2	221/2	18	15	$1\frac{1}{16}$	3	31/2	3	1	10 to 12	231/2	13.00
3	24	20	16	$1\frac{3}{16}$	3	4	31/2	11/8	14 to 16	31	14.50
4	26	22	18	$1\frac{3}{16}$	31/2	41/2	31/2	11/8	14 to 16	341/2	16.00
7	28	231/4	193/4	1 5 16	4	5	4	11/4	18	41	18.00
5	30	251/4	2134	1 5 16	41/2	51/2	4	11/4	18	451/2	20.00
01/		263/4	223/4	$1\frac{7}{16}$	5	6	41/2	1 5	20 to 22	451/2	22.00
$6\frac{1}{2}$	32		223/4	1 16	5	6	41/2	13/8	24 to 26	49	22.00
7	32	263/4		$1\frac{7}{16}$		61/2	41/2	13%	24 to 26	59	24.00
8	34	283/4	251/2	1 7 16	51/2	072	41/2	11/2	28 to 30	65	29.00
9	38	321/2	273/4	1 1 1 1 1 1	0	0	172	15/8	32 to 38	75	35.00
10	42	36	301/2	116	1	8	0	178	02 10 00	10	00.00

Prices 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 Lbs.	Price Each
1 2	23½ 26½	17 19	$\frac{13\frac{3}{4}}{14\frac{1}{2}}$	$1\frac{15}{16}$ $1\frac{1}{16}$	3 3½	4 41/2	3	1 7/8	6 to 8 10 to 12	24 36½	\$ 9.00 11.00
3 4	283/4 301/2	20½ 22	$15\frac{3}{4}$ $16\frac{1}{2}$	$1\frac{3}{16}$ $1\frac{5}{16}$	4 41/2	5 5½	3½ 3½	1½ 1¼	14 to 16 18	$\frac{45}{54\frac{1}{2}}$	13.25 15.50
41/2	331/2	24	19 19	$1\frac{7}{16}$	5	6	4	$1\frac{5}{16}$ $1\frac{5}{8}$	20 to 22 24 to 26	56 60	17.75 17.75
5	$\frac{33\frac{1}{2}}{36\frac{1}{2}}$	24 26	203/4	$1\frac{1}{16}$ $1\frac{9}{16}$	6	7	41/2	11/2	28 to 30	781/2	20.00

YOKE

No.	Out to Out 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 Lbs.	Price Each
1	10	1.5 1.6	21/2	3	3	7/8 7/8	6 to 8	181/2	\$ 9.00
2	14 16	$1\frac{15}{16}$ $1\frac{1}{16}$	31/2	41/2	3	1 8	6 to 8 10 to 12	27 36	10.50 12.00
4	18 20	$1\frac{3}{16}$ $1\frac{5}{16}$	4 41/2	5 5½	$\frac{3\frac{1}{2}}{3\frac{1}{2}}$	11/8	14 to 16 18	45 54 ¹ / ₂	14.00 16.00
$\frac{51}{2}$	22	$1\frac{1}{16}$	5	6	4	$1\frac{1}{4}$ $1\frac{5}{16}$ $1\frac{3}{8}$	20 to 22	561/2	18.00 18.00
6	22 24	$1\frac{7}{16}$ $1\frac{9}{16}$	6	7	41/2	11/2	24 to 26 28 to 30	61 79	20.00

Prices do not include saws.

ATKINS SILVER ATEL 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, ¼ and 1 inch) grinder and wrench.....\$25.00

No. 2 SMALL SIZE

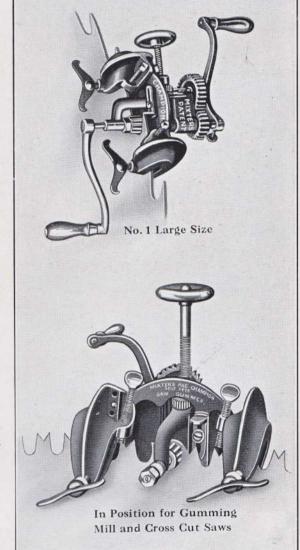
The engraving represents the No. 2 Patent Self-Feed Champion Gummer in position to gum mill saws or cross cut saws.

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

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 of 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 3/8,	
1/2 and 5% inch, grinder and wrench	\$25.00
Extra arbor for 3/8-inch cutter for No. 2 Champion Gummers, net	1.50

SAW GUMMERS

WARRANTED

THE "STANDARD"

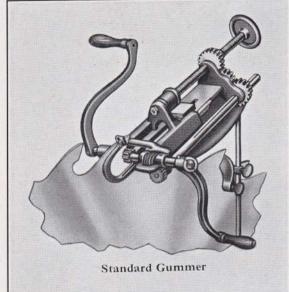
Has an automatic, changeable self-feed, is very simple in construction, and beyond question a superior machine.

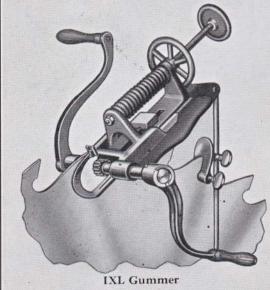
The "Standard" Saw Gummer complete, with three arbors, two cranks and

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

Price, complete..... \$20.00

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





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..... \$15.00

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	\$15.00
Weight (packed)pounds	27

ATKINS SPECIALTIES

ATKINS COUNTERSHAFT

Arbor 24 inches long by 1_{16}^3 inch diameter.

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.

Price	each	\$10.00
Weight,	each pounds	40

ATKINS SHINGLE SAW SET GAUGE

For cylinder, shingle and heading saws.

An accurate tool that will produce good results.

Price, nickel-plated each	\$0.75
Weight, each ounces	41/2

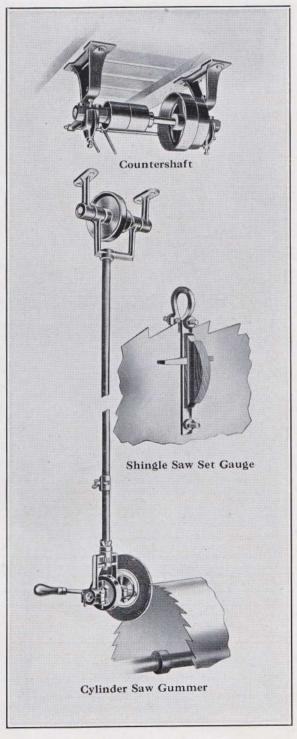
ATKINS CYLINDER SAW GUMMER

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.

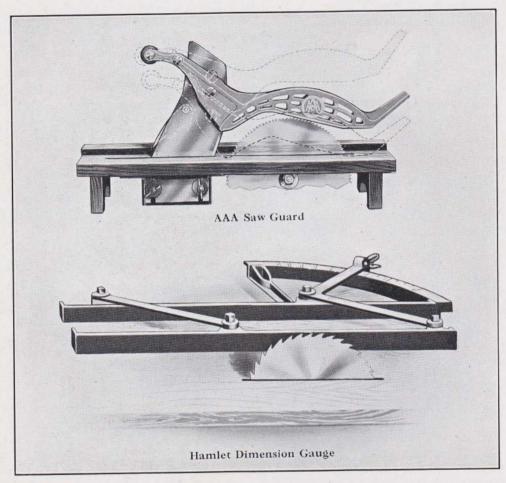
Price......each \$20.00 Weight (packed) each.. pounds 40

Above price includes belt and emery wheel.





ATKINS "AAA" SAW GUARD



The action of Atkins "AAA" Saw Guard can be readily seen from above illustration, and description as given below. The Guard itself is made of aluminum. It has an up and down motion in the slot on front guide or splitter. This gives the guard 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.

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.

		Wood Table	Iron Table	Weight, Pounds
No. 3.	For saws 12 inches in diameter and underea	ch \$12.00	\$16.00	25
No. 4	For saws 14 inches in diameter and underea	ch 14.00	20.00	30
No. 5.	For saws 20 inches in diameter and underea	ch 16.00	22.00	40

HAMLET DIMENSION GAUGE

Undoubtedly one of the most effective devices that has ever been invented for dimensioning lumber. Through the use of the 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.

The Hamlet Dimension Gauge is designed to cover a range from 1/8 to 9 inches and is furnished either right or le	ert nand.
Price, right or left hand, 1/8 to 9 inches capacityeach	\$10.00
Weight eachpounds	29



ATKINS GRINDERS

ATKINS "AA" GRINDER

Diameter of pulley, 3 inches. Face of pulley, $2\frac{3}{8}$ inches. Will carry wheel 10 inches in diameter, $1\frac{1}{4}$ -inch face.

Priceeac	h	\$8.00
Weight, net pound	s	46

ATKINS' 'AAA" GRINDER

Same pattern as "AA" but larger and designed for heavier work. Diameter of pulley, 3½ inches. Face of pulley, 2½ inches. Will carry wheel 14 inches in diameter, 1½-inch face.

Priceeach	\$12.00
Weight, net pounds	



ATKINS DOUBLE END GRINDER, No. 5

Will carry two wheels, $12 \times 1\frac{1}{2}$ inches or smaller. Equipped with tight and loose pulleys. Two adjustable rests. Babbitted bearings and brass oil cups. Four cap screws to each bearing. Height from base to center of arbor, $8\frac{1}{2}$ inches. Distance between wheels, $14\frac{3}{4}$ inches. Length of bearings, 4 inches. Length of arbor, 21 inches. Diameter of arbor in bearings, $1\frac{1}{8}$ inches. Diameter of arbor between collars, 1 inch. Size of pulleys, $3 \times 2\frac{1}{2}$ inches.

Priceeach	\$12.50
Weight pounds	65

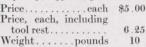
Above prices do not include wheels.



ATKINS GRINDERS ATKINS No. 1 GRINDER

The illustration below shows this grinder without tool rest. It is designed for jewelers, dentists, repair shops or any light grinding. Will carry two wheels 6 x 1 inch or smaller. A taper spindle can be instantly shops or any light grinding. Will carry two wheels 0.31 inch or smaller. A taper spindle can be instantly attached for buffing and polishing. Adjustable babbitted bearings, nickel-plated spring cap oil cups. Height from base to center of arbor, $5\frac{1}{2}$ inches. Distance between wheels, 6 inches. Length of bearings, $1\frac{7}{8}$ inches. Length of arbor, $9\frac{1}{2}$ inches. Diameter of arbor in bearings, $\frac{9}{16}$ inch. Diameter of arbor between flanges, 1/2 inch. Size

of pulley, $1\frac{13}{16} \times 1\frac{1}{2}$ inches. Price.....each \$5.00 Price, each, including



ATKINS No. 3 GRINDER

For saw gumming and woodworking plants. Will carry a 12 x 11/4 inch wheel or smaller. Adjustable rest, babbitted bearings, brass oil cups. Height from base to center of arbor, 9 inches. Length of bearings, 3 inches. Length of arbor, 1434 inches. Diameter of arbor in bearings, 11/8 inches. Diameter of arbor between flanges, 1 inch. Size of pulley, 3 x 2½ inches. Diameter of base, 12 inches.

Price.....each \$10.00 441/2 Weight.....pounds

ATKINS No. 7C GRINDER

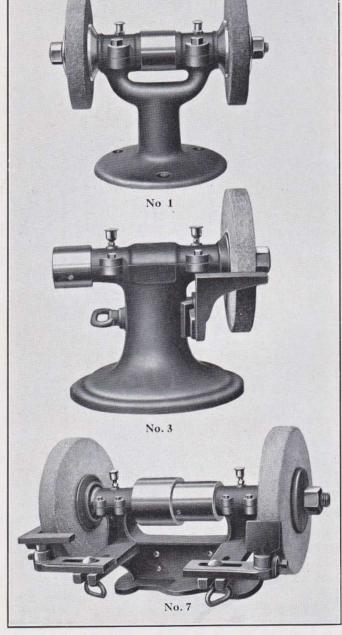
This grinder will carry two wheels, 18x2 inches, or smaller. Equipped with adjustable babbitted bearings, two adjustable rests, brass oil cups and cone pulley. Single tight pulley if desired. 16 x 20 tool shelf; 8 x 6 water pot; wheel guards, 4 x $\frac{1}{2}$ inches. Height from floor to center of arbor, 3714 inches. Length of bearings, 434 inches. Distance between wheels, 21 inches. Length of arbor, 31 inches. Length of arbor, 31 inches. Diameter of arbor in bearings, 15% inches. Diameter of arbor between flanges, 1½ inches. Size of cone pulley, 8½ x 4½ x 51/8. Diameter of base, 21 inches.

Price.....each \$47.00 Weight, column . . lbs. 125 Weight complete.lbs. 365

ATKINS No. 7 GRINDER

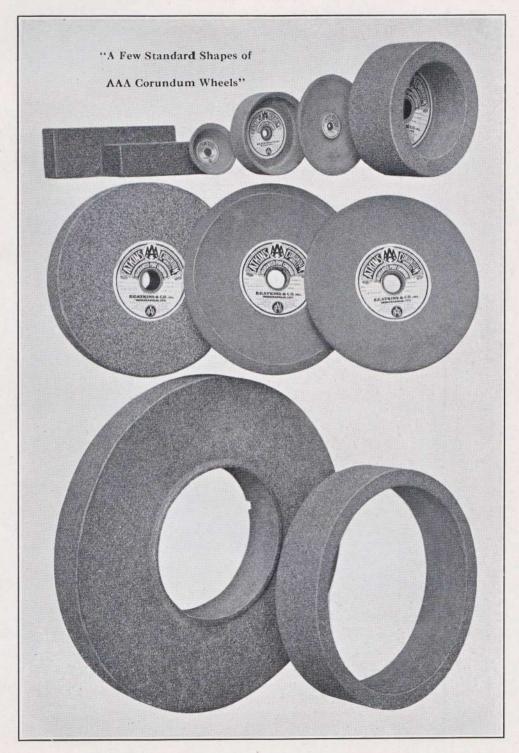
Price, without column, tool shelf, water pot, or wheel guards..... \$21.00 130 Weight.....pounds

Prices do not include wheels.





ATKINS AAA CORUNDUM WHEELS



ALOXITE, CORUNDUM AND EMERY WHEELS STANDARD PRICE LIST

Always give diameter of wheel, thickness, size of hole, shape of face and for what purpose used.

петеп	Dist	-	91	8	4	20	9	-	8	6	10	15	14	16	18	03	55	54	98	88	30	35	34	36	38	40	46	44	46	48	20	59	54	56	58	09	1
	4										23.30																										
	934										93.00																										
	31/2										20.70																										
	31/4										19.35																										
2 8 7 8	65	\$ 1.55	2.15								18.00																										
	23,4	\$ 1.45	6.00								16.70																						10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		404 4 4 40		44444
Inches	21/2										15.40																				×11.00			****	****		10 10 10 10 10 10
Wheels in	21/4										14.10																			******	12777			* * * * * *			
Thickness of	.03	8 1 15	1 60	08 6	3 10	4 15	5 40	04.9	09 8	10 60	19.80	16.70	21.20	96 50	32.50	39.60	47 70	59 00	00 69	74 00	80 00	00.96	100 00	194 00	186 00	151 00	00.161		12 . A. W. L. W.	1 11 11 11			14.4.4.4.4.		* * * * * *		
T	134	190	45	10	80	80	25	80	8	200	11.50	06	06	50	80	00	06	00	0	8	00	8	8	8					411	×-	\$1.00mm(a)	+ + + + + +					
	11/2	\$ 0.95	1 30	200	0 10	8 40	4.45	2 9	8 90	8 40	10 20	13 10	16.50	90 50	05 10	80.50	96 70	44.00	50.50	25.00	00.00	70.00	00.00	00.70	04.00		20202020		2000				* * * * * *			*****	
	11/4		-								8 90														4 4 4 4 5 7	STATE OF	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		14 4 4 4 4		* * * *	4 4 4 4 4	21000	中田本 1	*****		
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aeter	msiC	1 -	+ 0	25 0	0 .	# 1	0	0 1	- 0	00	9 0	10	17	170	10	00	200	34 6	# 5	200	200	30	36	#0	30	200	40	24	44	46	48	20	55	54	26	58	09

ATKINS AAA CORUNDUM WHEELS

OUR GRADE LIST

D—Extremely soft	G—Soft	J—Medium soft	M-Medium	P—Medium hard	S-Hard
E	H	K	N	Q	T
F	I	L	0 .	R	U
		- V—Extrem	ely hard		

The above is for the convenience of dealers, agents and those preferring to make their own grade selection. We strongly urge, however, that selection of grit and grade be left to us, when full information regarding the use of the wheel can be given.

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

	CORU	NDUM	CARBO	RUNDUM
	Grit	Grade	Grit	Grade
Aluminum castings	******		20 to 24	O to Q
Brass castings			20 to 24	O to Q
Cast iron cylinders			36 to 60	J to L
Chilled iron castings			16 to 24	O to Q
Hollow ware internal			20 to 30	O to P
Hollow ware edge			20 to 30	P to R
Paper knives	36	J & K		
Planer knives	30 to 36	J & K		
Moulding knives	30 to 60	K to M		
Lathe and planer tools	24 to 36	O to P		
Malleable iron castings	14 to 20	P to U	14 to 20	P to U
Milling cutters	46 to 60	K to M		
Saw gumming	36 to 60	K to P		
Plows, cast iron			20 to 30	P to R
Plows, steel	20 to 30	O to P		* * * * * * *

SELECTION OF GRADES FOR DIFFERENT WORK

Conditions under which grinding wheels are used vary to such an extent that no absolute rule can be given for selecting the right grades for the work.

The kind of grinding machine, wheel speed, work speed, character of material to be ground — whether to be ground wet or dry, contact of wheel and work — whether broad or narrow — must be taken into consideration.

Different shapes of work, different kinds of metal, require different cutting edges as well when grinding as when turning; therefore, different grades and grains of wheels are required for different kinds of work.

It is more satisfactory in the majority of cases to leave this selection to the experienced manufacturer, after giving as complete detailed description as possible of the requirements.

There are no wheels so constructed that all materials can be ground equally well with one wheel.

ALOXITE GRINDING WHEELS

THE STEEL CUTTING ABRASIVE

The abrasive material for successfully grinding steel must be not only hard and sharp, but tough. These characteristics are found in Aloxite, the aluminous abrasive developed by The Carborundum Company. It is the product of the electric furnace and differs materially from other aluminous abrasives in several of its characteristics, the principal one of which is its temper. It is this temper which gives to Aloxite just the proper quality to make it the ideal steel cutting material.

In its crude form, Aloxite is taken from the electric furnace in the form of an immense compact pig, weighing several tons. This pig by means of special, powerful machinery is crushed or reduced to the grain form. The Aloxite grain then undergoes a thorough refining until every possible atom of impure matter is removed. The grains are dried, graded by sifting through a series of screens and are then ready to be made into grinding wheels, etc.

Aloxite, because of its positive purity, its hardness, sharpness and its toughness and proper temper, has been pre-eminently successful in all classes of steel grinding. It not only cuts fast, cool and clean, but it shows wonderful durability, standing up to the work with remarkable tenacity. It is these qualities that make Aloxite far superior to any other steel grinding abrasive.

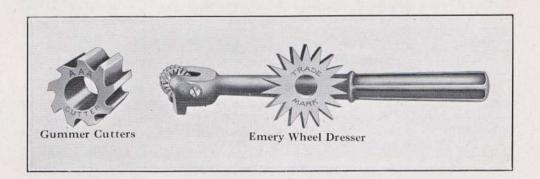
GRITS AND GRADES OF WHEELS FOR VARIOUS CLASSES OF GRINDING IN THE WOODWORKING PLANT

In submitting the following table of grits and grades of wheels for different kinds of grinding in the woodworking plant it must be distinctly understood that the information is general. Conditions under which wheels are used vary so greatly that we do not wish present and prospective customers to accept the grading as our best recommendation for their work. If a customer orders a wheel from this table and finds that it is not accomplishing the work as he desires, we request that he write, stating in what manner the wheel fails — whether the grade is too soft or too hard, or the grit too fine or too coarse — explaining fully the nature of the material to be ground, the manner in which the work is applied to the wheel and the operating speed thereof. This data will enable us to give a wheel that will in every way conform to the needs of the customer.

It is our constant aim to supply wheels to meet all conditions required for the best and most profitable results. Every wheel is sold under a positive guarantee of economical results to its user.

	Grit	Grade	Material
Saw gumming cross cut	403	K	Aloxite
Saw gumming, cross cut	365	K	Aloxite
Circulars (small)	$\left\{ \begin{array}{c} 365 \\ \text{to} \end{array} \right\}$	K	Aloxite
	365	K	Aloxite
BandsResaws.	403	K	Aloxite
Band saw laps	365	M	Aloxite
Moulding knives (hand)	365 (403)	M	Aloxite
Moulding knives (small)	to 60	M	Aloxite
Planer knives (hand)	365	M	Aloxite
Planer knives (auto)	303	P	Aloxite
Hog knives	303	M	Aloxite Carborundum
Face of band cast iron saw wheels	303 365	K	Aloxite
General purpose around mill	(80	K)	***************************************
Carvers' tools	to 150	to L	Aloxite

ATKINS SPECIALTIES



AAA AND XX GUMMER CUTTERS

For Mixter's Standard,	I. X. L.	, Boss ar	nd Disst	on's Gu	mmers.	When	ordering	give ma	ike of gi	ımmer.
Sizeinches	3/8	1/2	5/8	3/4	7/8	1	11/8	11/4	$1\frac{1}{2}$	13/4
Weight, each ounces						2				
Price each	\$0.50	\$0.50	\$0.50	\$0.60	\$0.70	\$0.80	\$0.90	\$1.00	\$1.25	\$1.75

STONE'S GUMMER CUTTERS

Size	inches	3/8	1/2	5/8	3/4	7/8	1
Price	each	\$0.50	\$0.50	\$0.75	\$1.00	\$1.25	\$1.50
Approximate weight 1/2 pound, each.							

STAR GUMMER CUTTERS

Sizeinches	3/4	7/8	1
Priceeach	\$0.55	\$0.60	\$0.65
Approximate weight, ¾ pound, per dozen.			

Note—In ordering cutters, be sure and give size of hole, as well as size of cutter required, or you can send us an impression of one end of cutter on paper. Be particular to state what gummer they are to be used in.

HUNTINGTON EMERY WHEEL DRESSERS

For turning, shaping, sharpening and removing glaze from solid emery wheels, running at full	speed.
Priceeach	\$0.75
Price, cuttersper set	

Weight, complete, $1\frac{5}{8}$ pounds, each; cutters, only $\frac{7}{8}$ pound, per dozen.

IMPROVED CUTTER GRINDERS

Grinds cutters perfectly round and true.	We give a grinder free with each gummer.	
Price	each	\$1,00
Weight, 13/8 pounds, each.		

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

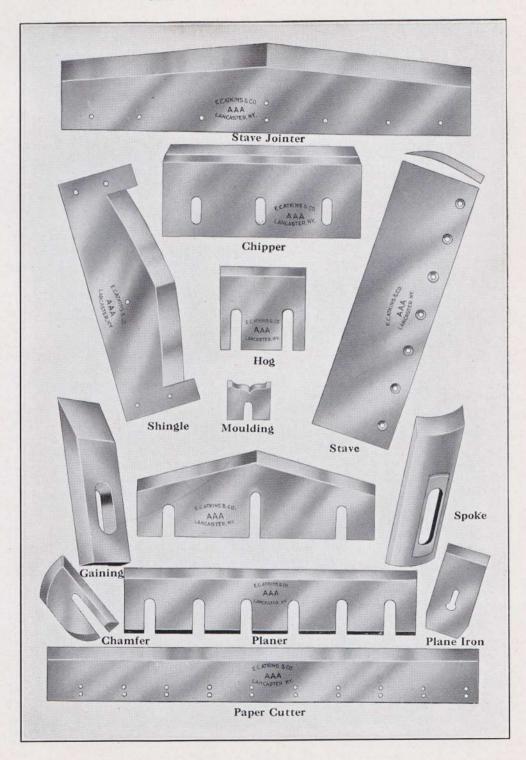
In ordering Machine Planer and other Knives, place the knife face down with the bevel up, using a strong piece of paper on which to mark around to show the length of knife as well as size and position of slots. Be sure to state the width and thickness desired, bevel and the quantity wanted. Also state 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.

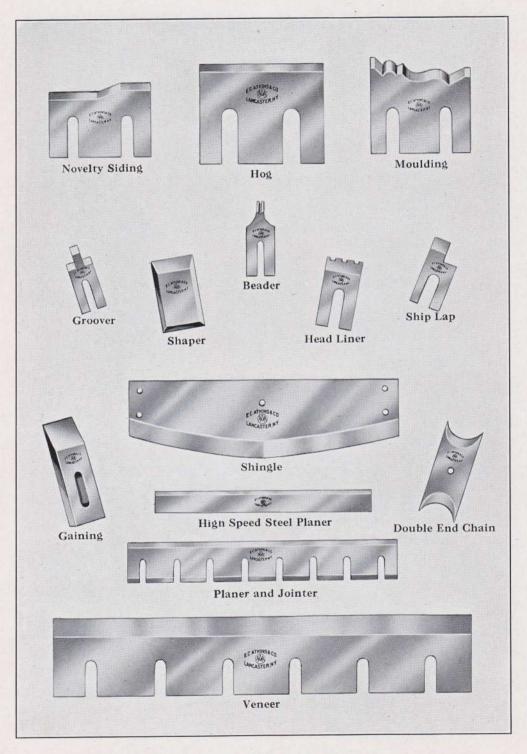


ATKINS MACHINE KNIVES

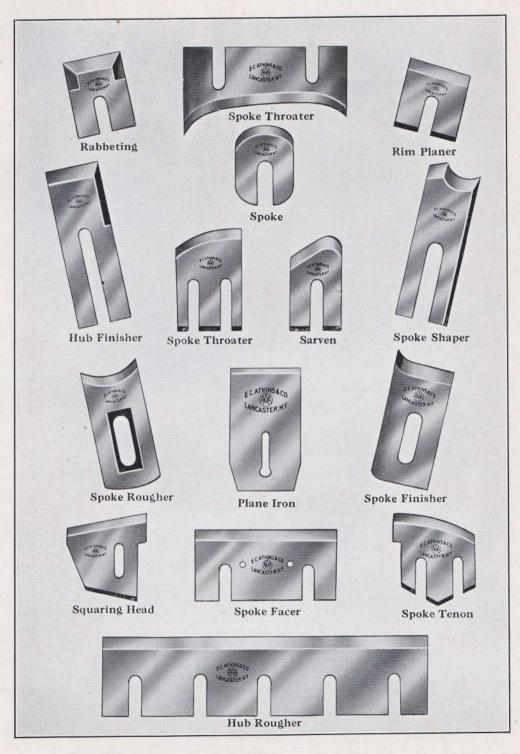




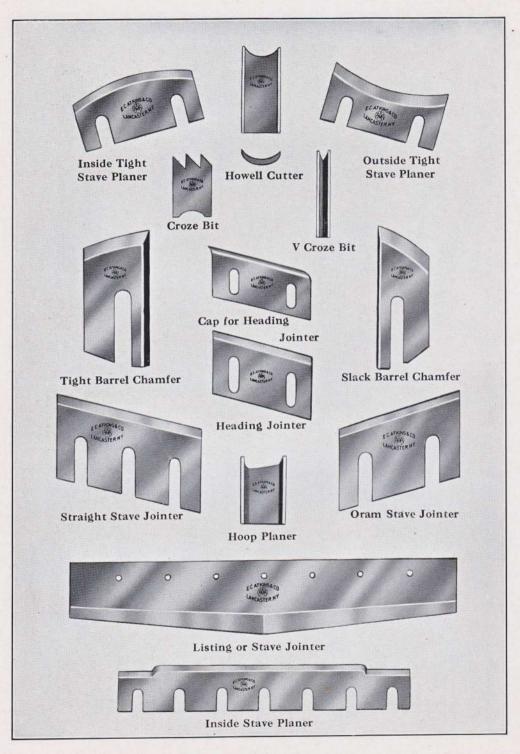
ATKINS MACHINE KNIVES



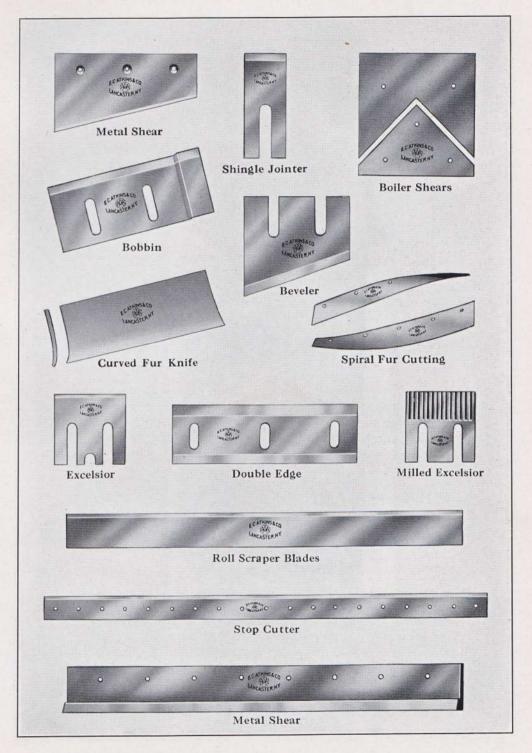




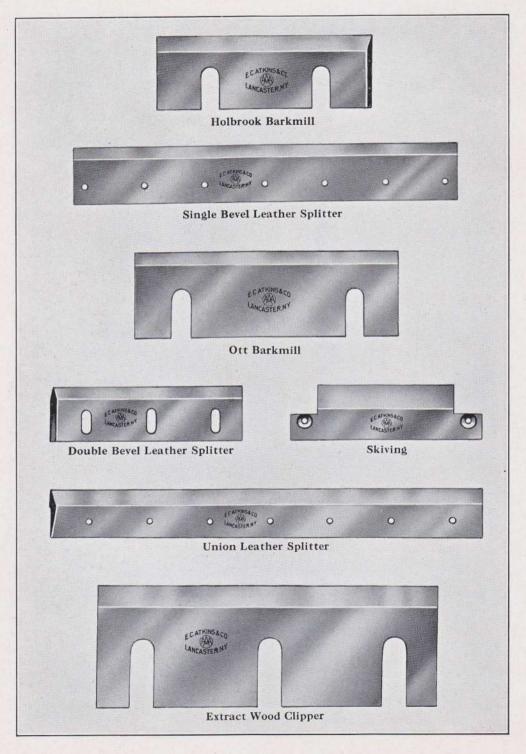




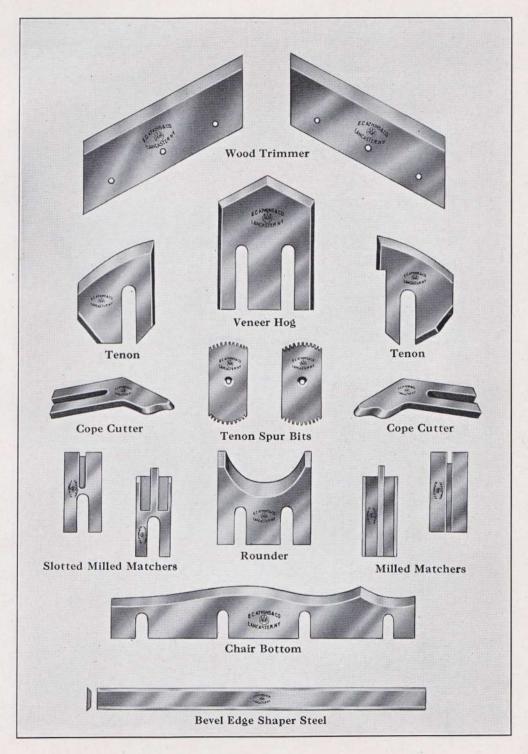




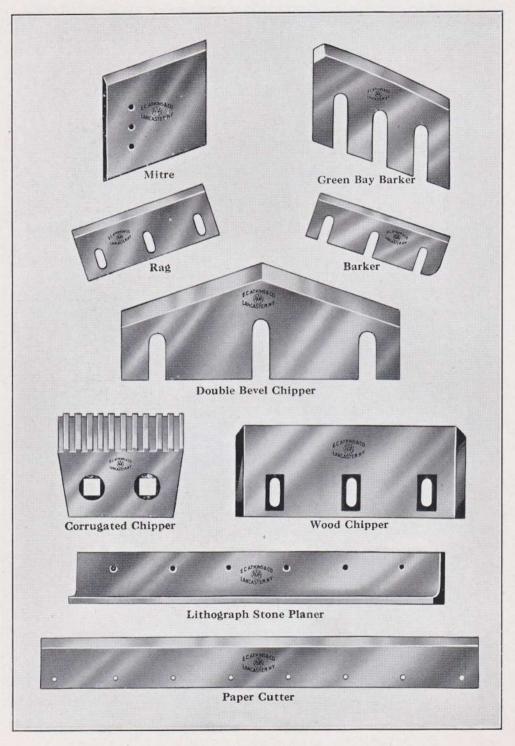




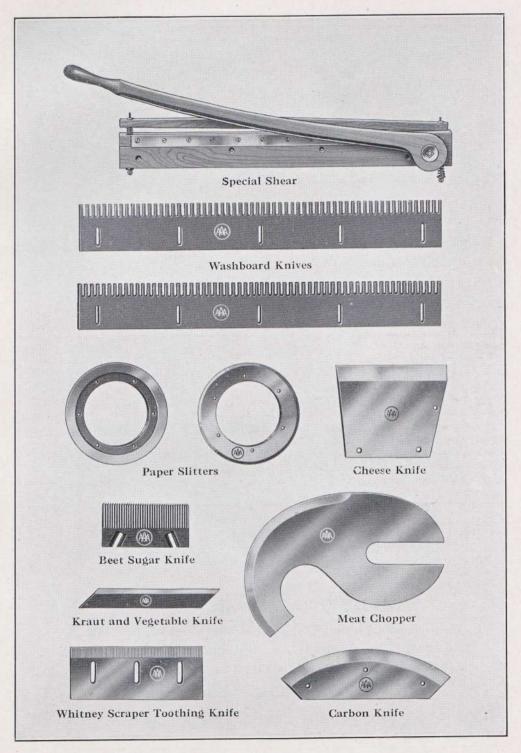




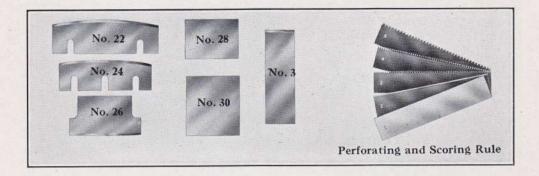








ATKINS SPECIALTIES



ATKINS PERFORATING AND SCORING RULES

We make steel and brass cutting, perforating and scoring rules for printers. Manufactured carefully, of the best material. The following are the standard specifications. Prices quoted on application.

	Thickness Inch	Height Inch
Regular steel cutting	.028	,921
Tempered steel cutting	.028	.921
Regular steel cutting	.042	.921
Tempered steel cutting	.042	.921
Regular steel cutting4 point	.056	.921
Tempered steel cutting4 point	.056	.921
Regular steel scoring	.028	.906
Regular brass scoring	.028	.906
Regular steel scoring	.042	.906
Regular steel scoring	.056	.906
Regular brass scoring4 point	.056	.906
Regular or tempered steel perforating	.028 to .056	.921

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.

Prices quoted on application.



ATKINS SPECIALTIES



TOBACCO SPUDS, Crucible Steel Blades

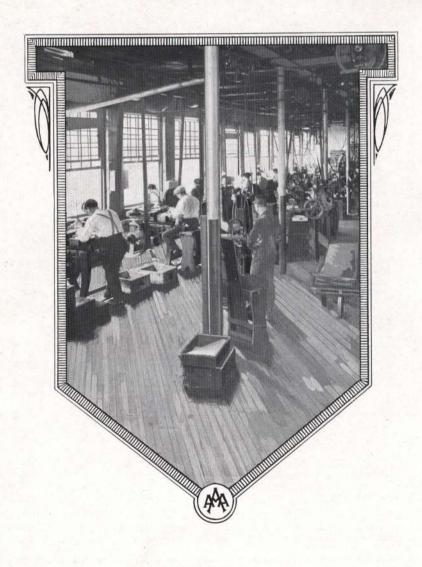
ATKINS PERFECTION GRASS HOOK

This is a practical tool. It is made for service and should not be compared with cheaply constructed grass hooks or sickles. The handle, being offset, saves knuckles from coming in contact with the ground. This is a feature that will be highly appreciated. Packed one-half dozen in a box. Price per doz., \$8.00.

ATKINS DITCH BANK BLADES

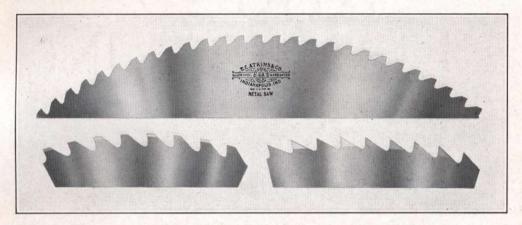
Made of Silver Steel—Atkins exclusive formula. Sharp cutting edge. An essential blade, designed for cleaning ditch banks of weeds, for plantation work, destroying hedges, brush on railroad rights-of-way, etc. Polished. Furnished with 4-foot handles if desired. Supplied with metal plate and rivets for handle. Specifications: Length, 21½ inches; width, 7½ inches; cutting edge, 18 inches; gauge, 15. Price per dozen without handles . \$25.00 Weight, per dozen blades, without handles . . pounds 22

ATKINS METAL CUTTING SAWS



ATKINS CIRCULAR METAL CUTTING SAWS

FOR CUTTING METAL AT SLOW SPEED



ATKINS METAL SLITTING SAWS

Diam. In.	Thick.	Size of Hole In.	List Price	Diam. In.	Thick. In.	Size of Hole In.	List Price	Diam. In.	Thick.	Size of Hole In.	List Price	Diam. In.	Thick. In.	Size of Hole In.	List Price
2 ½ 2 ½ 2 ½ 2 ½ 2 ½ 2 ½	12 64 16 83 1/8	78888888	\$1.25 1.25 1.25 1.35 1.40	3 3 4 4	1/8 1/8 1/8	1 1 1 1	\$1.50 1.55 1.65 1.70 1.70	4 5 5 5	16 16 16 32 18	1 1 1 1 1/4	\$2.20 2.05 2.20 2.40 2.40	6 6	1/8 1/8 1/6 1/6 1/6	1 1 1/2 1	\$2.70 2.95 3.30 3.30 3.10
2½ 2½ 3 3	\$7 \$7 \$2 \$4 16	1 1 1 1	1.50 1.40 1.40 1.40	4 4 4	16 12 18 52	1 1 1 1	1.70 1.80 2.00 2.10	5 5 6	1/8 32 16 16	1 1 1	2.40 2.55 2.70 2.50	7 8 9	18	1 1 1	3.40 4.00 5.50

ATKINS CIRCULAR MILLING SAWS

FOR COCHRAN-BLY, NEWTON, NUTTER-BARNES AND OTHER MACHINES

Diam. Inches	Thic Inch	kness Gauge	Size of Hole Inches	Price Each	Extra for Each Additional Gauge Heavier	Diam. Inches	Thic	kness Gauge	Size of Hole Inches	Price Each	Extra for Each Additional Gauge Heavier
	Inch		Inches	Month Mark	a made approximate	Antonio various	Inch		- THE STREET	Total Confession	
8	16	16	1	\$ 4.00	\$0.12	34	24	3	21/2	\$ 58.50	\$ 2.00
9	84	14	1	9.50	.15	36	1/4	3	21/2	65.00	3.00
10 12	84	14	11/4	6.50	.20	38 40	2,2	2	21/2 21/2	80.50	4.00
12	33	13	11/4	8.00	.25	40	32	2	21/2	97.50	5.50
14	1/8	11	11/2	9.75	.35	42	16	0	3	107.50	7.00
16	74	9	11/2	11.75	.40	44	16	0	3	117.50	9.00
16 18	377	9 8 8	134	14.75	.50	46	18	0	3	127.50	11.00
20	17	8	134	17.50	.60	48	16	0	3	142.50	13.00
20 22	de.	7	2	21.50	.70	50	3/8	00	3	194.00	15.50
24	16	7	2	26.25	.80	52	3/8	00	3	214.00	18.00
26 28	1	7	21/2	28.50	1.00	54	3/8	00 00 00	3	224.00	20,00
28	7	5	21/2	35.50	1.25	56	3/8	00	3	244.00	22.00
30	7	5	21/2	40.50	1.40	58	18	000	3	274.00	25.00
32	1/4	3	21/2	53.00	1.75	60	76	000	3	299.00	28.00

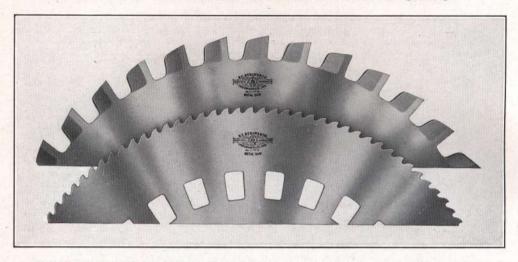
PITCH OF TEETH

Diam., In.	Points to Inch	Dist. Pt. to Pt.	Diameter	Dist. Pt. to Pt.	Diameter	Dist. Pt. to Pt.
8 and 9 10	5, 6, 7, 8 4, 5, 6, 7		16, 18, 20	14. 16, 3/8 16, 3/8, 16	24 to 32 34 to 36 38 to 48	%, te, te, % te, %
12		1/8, 16, 1/4, 16	22	3/8, 16, 16	50 to 60	16, ½, ¾ 16, ½, ¾, ½ 18, ¾, ½, 1

Milling saws made over at one-half price of new saws. Special sizes made to order. The above list covers cost of saws ground thin towards the center for clearance. Saws of this pattern also furnished same thickness at center and rim, and teeth set to obtain clearance in cut, if desired.

Specify on your order diameter and thickness, also size of arbor hole, size and position of pin holes, pitch of teeth and diameter of mandrel collars. We manufacture saws for all makes of machines.

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 Q. & C. MACHINES

Dia. In.	Thick- ness In.	Size of Hole In.	Style of Machine	No. of Teeth	Price Each	B-P No.	Dia. In.	Thick- ness In.	Size of Hole In.	Style of Machine	No. of Teeth	Price Each	B-P No.
16 16	9 64 9 64 3 16	7/8 7/8 7/8	5 5A	31 31	13.50		27	1/4	21/2	Universal Saw	150	\$37,50	2 AU
16 16	16 3	78	5 5A	31 31	13.50		27	16	2	Cut-off Type	114	37.50	2 ACO
18 18	16 3 16 3 16	1 34 1 1/8	1M 7P Rail	44 35	15.50		28 28	14	134	3B 3B	52 52	37.50 38.75	
20 1/2 20 1/2	15	11/4	6, 6A, 10 6, 6A, 10	38	21.95		311/4	1/4	134	20 20	58 58	53.00	
20 1/2	52	11/4	6, 6A, 10 Universal	38	26.85		31 14	1/4 17 84	134	4B 4B	58 58	53.00 53.00	
21	1/4	2	Saw Cut-off	118	24.75		33	3/8	21/2	Universal Saw	138	67.00	
23 1/2	1/4	2	Type 2B	88	24.75	1 ACO	33	34	21/2	Cut-off	118	59.00	3 ACO
25 72	1/4	134	15	46	34.00		36 36	37 37 37	2 2	Type 20 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

See Lower Illustration

Diameter Inches	Thickness Inch	Size of Hole Inches	New Style of Machine	of	Pitch of Teeth Inches	Price Each		Thickness Inch	Size of Hole Inches	New Style of Machine	of	Pitch of Teeth Inches	Price Each
12 1/2 13 1/2 13 1/2 14 15 16 17 1/2 18 18 18 18 12 20 20 20 20	32 32 33 16 16 11 64 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 ½ 12 13 30 14 14 14 14 15	Bench 5 3 2 2 2 2 2 2 2 20-in. Cambria 20-in. Cambria	26, 16, 12, 16, 56, 34 26, 16, 12, 16, 56, 34 26, 16, 12, 16, 58, 34 26, 16, 12, 16, 58, 34	\$9.76 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 26 28 28 30 31 31 33 36 40 40 50	76 16 14 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	11/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2	17 19 19 25 18 20 21	1 1 1 	198	28.50 32.50 35.50 35.50 45.00 53.00 53.00



METAL SAWS

MADE FROM GENUINE HIGH-SPEED STEEL

Dia. Inches	Thick. Inches	Price Each	Dia. Inches	Thick. Inches	Price Each	Dia. Inches	Thick. Inches	Price Each
21/2	1 32	\$ 2.60	7	7 32	\$ 18.00	14	7 32	\$ 67.00
21/2	3 6 4	2.70	7	1/4	20.00	14	1/4	74.00
21/2	1 16	2.80	7	5 16	22.00	14	5 16	84.00
21/2	3 3 2	3.00	8	3 64	9.75	15	32	57.00
21/2	1/8	3.40	8	1/16	11.00	15	3 16	68.00
21/2	5 3 2	3.80	8	3 3 2	13.50	15	7 32	76.00
21/2	3 16	4.20	8	1/8	15.50	- 15	1/4	84.00
3	1 32	3.00	8	5 32	18.00	15	5 16	96.0
3	3 64	3.10	8	3 16	20.50	16	5 32	67.0
3	$\frac{1}{16}$	3.25	8	7 3 2	22.50	16	3 16	76.00
3	$\frac{3}{32}$	3.50	8	1/4	25.00	16	7 3 2	85.00
3	1/8	4.00	8	5 16	29.50	16	1/4	94.00
3	5 32	4.50	9	16	13.25	16	5 16	108.00
3	3 2 3 16	5.00	9	$\frac{3}{32}$	16.00	17	5 32	75.00
4		4.00	9	1/8	19.00	17	3 2 3 16	85.00
	32	4.25	9	5 32	22.00	17	$\begin{array}{c} 16 \\ \frac{7}{32} \end{array}$	95.00
4	3 64		9	3 2 3 16	25.00	17	32 1/4	105.00
4	16	4.50			28.00	17	5 16	122.00
4	3 2	5.00	9	32 1				
4	1/8	5.75	9	1/4	31.00 36.00	18	32	83.0 94.0
4	32	6.50	9	16 1		18	3 16	
4	3 16	7.00	10	16	15.50	18	7 32	105.00
4	7 3 2	7.50	10	3 2	18.50	18	1/4	116.0
4	1/4	8.50	10	1/8	22.50	18	5 16	138.0
5	32	5.00	10	32	26.50	19	32	92.00
5	3 64	5.25	10	3 16	30.00	19	3 16	105.00
5	16	5.75	10	7 3 2	33.00	19	7 3 2	117.00
5	3 2	6.50	10	1/4	36.50	19	1/4	130.0
5	1/8	7.50	10	5 16	44.00	19	5 16	154.0
5	32	8.50	11	1/8	32.00	20	32	101.0
5	$\frac{3}{16}$	9.50	11	32	36.00	20	3 16	115.0
5	$\frac{7}{32}$	10.50	11	$\frac{3}{16}$	40.00	20	$\frac{7}{32}$	128.0
5	1/4	11.50	11	7 3 2	44.00	20	1/4	142.00
5	5 16	13.50	11	1/4	48.00	20	5 16	170.00
6	32	6.00	11	5 16	54.00	21	3 16	126.00
6	3 64	6.50	12	1/8	36.50	21	$\frac{7}{32}$	140.00
6	16	7.25	12	32	41.50	21	1/4	156.00
6	3 2	8.50	12	16	46.50	21	5 16	158.00
6	1/8	10.00	12	32	51.00	22	3 16	137.0
6	5 32	11.50	12	1/4	56.00	22	7 3 2	152.0
6	3 16	13.00	12	5 16	62.00	22	1/4	170.00
6	7 3 2	14.25	13	1/8	42.00	22	5 16	205.0
6	1/4	15.50	13	32	47.50	23	3 16	149.00
6	5 16	18.00	13	3 16	53.50	23	7 3 2	166.0
7	3 64	8.00	13	7 3 2	59.00	23	1/4	185.0
7	1 16	9.50	13	1/4	65.00	23	5 16	222.0
7	3 3 2	11.00	13	5 16	72.00	24	3 16	161.00
7	1/8	13.00	14	1/8	47.00	24	7 3 2	179.00
7	5 3 2	15.00	14	5 32	54.00	24	1/4	200.00
7	3 16	16.50	14	3 16	60.50	24	5 16	240.00

CIRCULAR METAL CUTTING SAWS FOR CUTTING HOT METALS AT HIGH SPEED

Diameter Inches	Thick of P Gauge		Price Each	Each Gauge Heavier Add	Diameter Inches	Thickness of Plate Inch	Price Each	Each 1/2 Inch Heavier Add
14	10	1/8	\$ 4.50	\$0.25	36	16	\$ 37.00	\$2.30
16	10	1/8	5.00	.30	38	10	42.00	2.55
18	9		6.50	.35	40	1/4	49.00	2.85
20	8	11	8.00	40	40 42	17	53.00	3.15
22	7	3	10.00	.40	44	1%	56.00	3.45
22 24	6	16 3 16	12.00	.60	44 46	17	60.00	3.75
26 28	6	16	14.00	.75	48	1/4	64.00	4.10
28	5	14	16.00	.95	50	10	77.00	4.45
30	5	15	19.00	1.10	52	N.	84.00	4.80
32	5	11	22.00	1.25	54	16	90.00	5.15
34	5	15	25.00	1.40	56	8/8	106.00	5.55
				3	58	3/8	113.00	5.95
					60	3/8	121.00	6.40

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

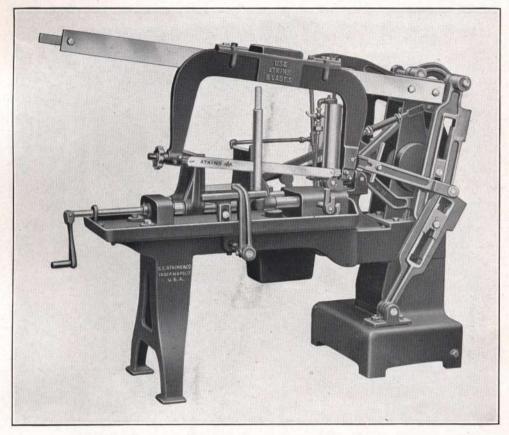
Diameter Inches	Thick of Pl Gauge	late	Price Each	Each Gauge Heavier Add	Net Price Each Nicked Edge	Diameter Inches	Thickness of Plate Inch	Price Each	Each Jy Inch Heavier Add	Net Price Each Nicked Edge
14	10	1/8	\$ 4.05	\$0.25	\$0.40	36	34	\$30.00	\$1.90	\$0.95
16	10	1/8 5 32	4.50	.30	.45	38 40	1/4	32.00	2.15	1.00
18	9	33	5.85	.35	.50	40	1/4	35.00	2.40	1.05
16 18 20 22 24 26 28 30	8	11	7.20	.40	.55	42	1/4	37.00	2.60	1.10
22	7	18	9.00	. 50	.60	44	1/4	40.00	2.85	1.20
24	6	*	10.80	.60	. 65	46	14	43.00	3.15	1.25
26	6	10	12.60	.75	.70	48	1/4	46.00	3.45	1.30
28	- 5	11	14.40	.95	.75	50	- Ax	57.00	3.70	1.35
30	- 5	14	17.10	1.10	.80	50 52	À	63.00	4.00	1.45
32	5	11	19.80	1.25	.85	54	18	68.00	4.30	1.55
34	5	15	22.50	1.40	.50 .55 .60 .65 .70 .75 .80	56	3/8	82.00	4.60	1.65
						58	3/8	88.00	4.95	1.80
					****	60	3/8	95.00	5.30	1.95

SLATE SAWS

	Temp	red and E	Iollow Groun	nd		St	raight C	Fround	19: 17:
Diameter Inches		ckness Plate Inch	Price Each	Each Gauge Heavier Add	Diameter Inches	Thicks of Pla Gauge		Price Each	Each Gauge Heavier Add
14	10	1/8	\$ 7.00	\$0.35	14	10	1/8 .	\$ 4.50	\$0.25
16	10	1/8	8.50	.40	16	10	1/8	5.00	.30
18 20 22 24	9	14	10.50	.50	18	9	32	6.50	.35
20	8	11	13.50	.65	20 22	8	11	8.00	.40
22	7	1	16.00	.80	22	7	16	10.00	.50
24	6	3.	20.00	1.00	24	6	16	12.00	.60
26	6	16	23.00	1.20	26	6	100	14.00	.75
7.					24 26 28	5	15	16.00	.90
				****	30	5	15	19.00	1.10
					32	5	15	22.00	1.25
					34	5	11	25.00	1.40

SLATE SAWS-UNGROUND

Diameter	Thick of Pl		Price	Each Gauge Heavier	Thickness of Plate	Price	Thiel of P		Price	Each Gaug Heavier
Inches	Gauge	Inch	Each	Add	Gauge	Each	Gauge	Inch	Each	Add
36	4	15	\$26.00	\$1.55	0	\$34.00	00	3/9	\$37.00	\$2.30
38 40 42 44	4	15	29.00	1.70	0	38.00	00	3/8 3/8 3/8 3/8	41.00	2.55
40	4	11	32.00	1.90	0	42.00	00	3/8	45.00	2.85
42	3	11	38.00	2.40	0	45.00	00	3/6	49.00	3.15'
44	3	11	40.00	2.70	. 0	49.00	- 00	3/8	53.00	3.45
46	3	11	42.00	3.00	0	53.00	00	3/8	57.00	3.75
46 48	2	37	47.00	3.40	0	57.00	00	8/8	61.00	4.10



Kwik-Kut Metal Cutting Machine, No. 7

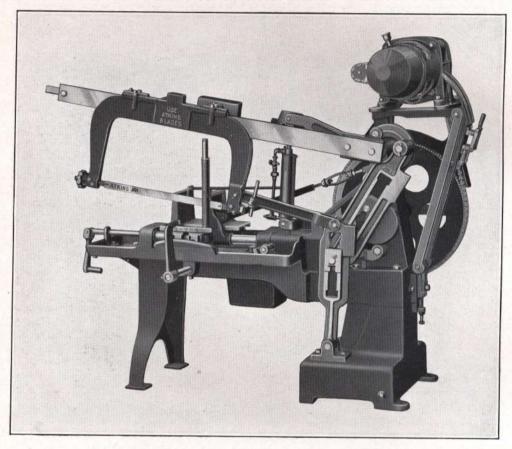
We are now making a complete line of Kwik-Kut Metal Cutting machines for cutting all sizes of stock up to 8 inch x 8 inch. Furnished with a solid vise, unless otherwise specified, for cutting material at right angles. When desired, they are equipped with a swivel vise for cutting at any angle up to 45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

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 123.

CONTINUED



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

MOTOR-DRIVEN MACHINES

The No. 7 Kwik-Kut is 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 Cutler-Hammer 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 short leather belt instead of the chain drive and starting box as used for direct current.

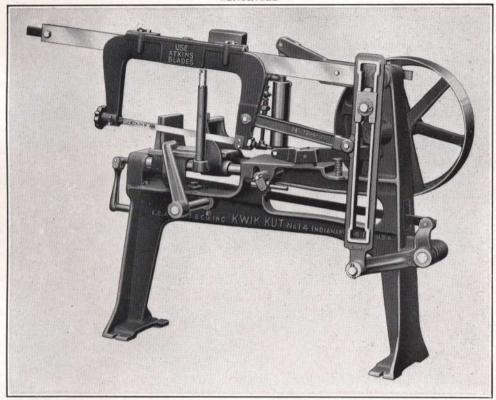
ATKINS AAA KOOLING KOMPOUND

We include free with our No. 7 Kwik-Kut Metal Cutting Machine 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 123.

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; that is, not equipped with the lubricating system used in connection with the No. 7. 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. See page 123 for prices.

CAPACITIES

The capacity of the No. 7 machine with solid vise is 8 x 8 inches. With swivel vise it has a capacity of 7 x 8 inches on a straight cut and $4\frac{1}{2}$ x 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 4×4 inches on a straight cut with either solid or swivel vise; with swivel vise a capacity of $2\frac{1}{2} \times 4$ inches at 45 degrees.

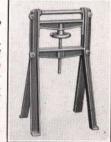
ATKINS STOCK REST FOR KWIK-KUT MACHINES

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.





ATKINS SILVER A STEEL SAWS

ATKINS KWIK-KUT METAL CUTTING MACHINES

THE "STRATE-CUT" PATENTED HACK SAW GUIDE

This guide is used exclusively on our 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

-51811	Tul	ing	Iron, Soft Steel				Tool Steel		Structural Shapes			
No.	Thin Wall up to 1/8 Inch	Heavy Wall Above ¼ 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	425	430	440	440	445	430	440	440	425	430	430	
14	409	425	430	435	435	425	430	430	425	425	430	
12	409	410	418	418	422	415	418	418	415	415	418	
	ade travel in inches per					-	450 inche	S	450-500 inches			

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	Net Price Each
7-K	Solid Vise 2 speeds	8 x 8	700	\$150.00
7-S	Swivel Vise 2 speeds	7 x 8*	700	155.00

No. 7 EQUIPPED FOR MOTOR DRIVE, WITHOUT MOTOR

No.	Description	Capacity Inches	Shipping Weight	Net Price Each
7-KC	Solid Vise, equipped with motor bracket, chain sprockets, chain,		1 1 1 1	A REGIS
	guard, but without motor, controller or switch		750	\$225.00
7-SC	Swivel Vise, equipped with motor bracket, chain sprockets and			
	chain guard, but without motor, controller or switch	7 x 8*	750	230.00

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	Net Price Each
7-EK	Solid Vise, D. C. variable or A. C. constant speed	8 x 8	850	\$310.00
7-ES	Swivel Vise, D. C. variable or A. C. constant speed	7 x 8*	850	315.00
7-EKV	Solid Vise, A. C. variable speed 110-220 volts, 25-60 cycles	8 x 8	850	350.00
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, 25-60		850	355.00
	cycles with transformer (see foot note)	8 x 8	925	400.00
7-ESH	Swivel Vise, A. C. variable speed for voltages higher than 250, 25-60 cycles with transformer (see foot note)		925	405.00

^(*) 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 $4\frac{1}{2} \times 8$ 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	Net Price Each
14-K	Solid Vise 1 speed	6 x 6	400	\$95.00
14-S	Swivel Vise 1 speed	5 x 6*	400	97.50

^(*) 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 3½ x 6 inches.

No. 12 KWIK-KUT METAL CUTTING MACHINE

No.	Description	Capacity, Inches	Approx. Shipping Weight	Net Price Each
12-K	Solid Vise 1 speed	4 x 4	350	\$70.00
12-S	Swivel Vise 1 speed	4 x 4*	350	72.50

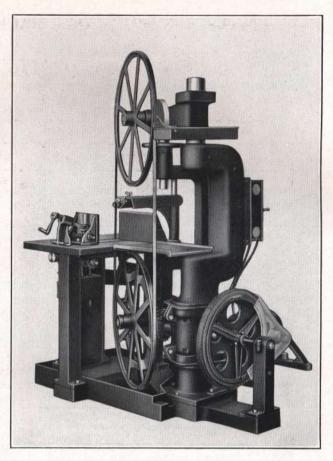
^(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees the capacity is $2\frac{1}{2} \times 4$ inches.



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	30"		y: Any size up to $12'' \times 14''$ Blades: $15' \times 8'' \log x \times 5/8''$ or $3/4''$ wide
Height over all	60" x 40"	one saw	ent: We furnish free with each machine blade 34" wide with 8 teeth to one inch,
Approximate Net Weight: Motor-Driv Belt-Driver	ren, 1850 lbs. n 1500 lbs.	unless o	blade $\frac{5}{8}$ " wide with 14 teeth to one inch, therwise specified.
Approximate Shipping Weight:		Prices:	Direct Motor-Driven
Skidded Motor-Driven 2050 lbs. Crated 2250 lbs.	Belt-Driven 1700 lbs. 1900 lbs.		Belt-Driven 400.00 Stock Rest (weight 100 lbs.) 20.00
Boxed	2100 lbs.	Terms:	F. O. B. Indianapolis, 30 days net.

FLEXIBLE BACK METAL BAND SAWS FOR ABOVE MACHINE

These are made with hard teeth and annealed back for cutting all kinds of metals.

Width	Gauge	Ft. in Lb. (Approx.)	Price per Ft. Cut to Length		Width	Gauge		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, 22 or 32 teeth per inch.

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, ½", ½", ½", ½" 25c net; ¾" 30c net; 1" 35c net.

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.

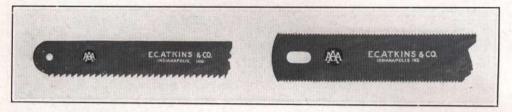


To those who have suffered a heavy loss on account of breakage, the Atkins non-breakable blade will prove extremely profitable. Free sample blades will be supplied upon request for testing purposes.

No.	Length Inches	Width Inches	Thickness or Gauge	No. Teeth per Inch	Weight per Gross, Lbs.	Price per Gross
300	6	7 16	.025 or 23	18	31/2	\$ 7.00
300	7	$\frac{7}{16}$.025 or 23	18	4	7.50
300	8	7 16	.025 or 23	18	$4\frac{1}{2}$	8.00
300	9	7 16	.025 or 23	18	51/4	9.00
300	10	7 16	.025 or 23	18	51/2	10.00
300	11	7 16	.025 or 23	18	6	11.00
300	12	76	.025 or 23	18	$6\frac{1}{2}$	12.00
305	12	9 16	.025 or 23	16	71/4	12.60
305	14	9 16	.025 or 23	16	81/2	14.80
305	16	9 16	.025 or 23	16	10	17.00
310	6	1/2	.025 or 23	24	$3\frac{1}{2}$	7.00
310	7	1/2	.025 or 23	24	4	7.50
310	8	1/2	.025 or 23	24	41/2	8.00
310	9	1/2	.025 or 23	24	51/4	9.00
310	10	1/2	.025 or 23	24	$5\frac{1}{2}$	10.00
310	11	1/2	.025 or 23	24	6	11.00
310	12	1/2	.025 or 23	24	$6\frac{1}{2}$	12.00
315	6	1/2	.025 or 23	32	31/2	7.00
315	7	1/2	.025 or 23	32	4	7.50
315	8	1/2	.025 or 23	32	$4\frac{1}{2}$	8.00
315	9	1/2	.025 or 23	32	. 51/4	9.00
315	10	1/2	.025 or 23	32	51/2	10.00
315	11	1/2	.025 or 23	32	6	11.00
315	12	1/2	.025 or 23	32	61/2	12.00
320	8	9 16	.028 or 22	14	5	9.00
320	9	9 16	.028 or 22	14	6	9.60
320	10	9 16	.028 or 22	14	$6\frac{1}{2}$	10.20
320	11	9 16	.028 or 22	14	7	11.40
320	12	9 16	.028 or 22	14	8	12.60
320	13	9 16	.028 or 22	14	81/2	13.80
320	14	9 16	.028 or 22	14	9	15.00
320	16	9 16	.028 or 22	14	11	17.40

ATKINS "AAA" HACK SAW BLADES

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, piping, and so forth. 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 Atkins Kooling Kompound, page 120.

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 be having 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	Width Inch	Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross	No.	Length Inches	Width Inch	Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross
200	6	7 16	.025 or 23	18	31/2	\$ 7.00	210	12	1/2	.025 or 23	24	61/2	\$12.00
200	7	7 16	.025 or 23	18	4	7.50	215	6	1/2 1/2 1/2 1/2 1/2 1/2 1/2	.025 or 23	32	31/2	7.00
200	8	7	.025 or 23	18	41/2	8.00	215	7	1/2	.025 or 23	32	4	7.50
200	9	$\frac{\frac{7}{16}}{\frac{7}{16}}$.025 or 23	18	51/4	9.00	215	8	1/2	.025 or 23	32	41/2	8.00
200	10	7 16	.025 or 23	18	51/2	10.00	215	9	1/2	.025 or 23	32	51/4	9.00
200	11	7 16	.025 or 23	18	6	11.00	215	10	1/2	.025 or 23	32	51/2	10.00
200	12	$\begin{array}{c} \frac{7}{16} \\ \frac{7}{16} \end{array}$.025 or 23	18	61/2	12.00	215	11	1/2 1/2	.025 or 23	32	6	11.00
205	12	16	.025 or 23	16	71/4	12.60	215	12	1/2	.025 or 23	32	61/2	12.00
205	14	16	.025 or 23	16	81/2	14.80	220	8	9 16	.028 or 22	14	5	9.00
205	16	9 16	.025 or 23	16	10	17.00	220	9	16	.028 or 22	14	6	9.60
210	6	1/2	.025 or 23	24	31/2	7.00	220	10	9 16	.028 or 22	14	61/2	10.20
210	7	16 1/2 1/2	.025 or 23	24	4	7.50	220	11	9 16	.028 or 22	14	7	11.40
210	8	1/2	.025 or 23	24	41/2	8.00	220	12	9 16	.028 or 22	14	8	12.60
210	9	1/2	.025 or 23	24	51/4	9.00	220	13	9 16	.028 or 22	14	81/2	13.80
210	10	1/2	.025 or 23	24	51/2	10.00	220	14	9	.028 or 22	14	9	15.00
210	11	1/2	.025 or 23	24	6	11.00	220	16	9	.028 or 22	14	11	17.40

Double-edge blades as shown are \$1.90 per inch per gross. Sizes not listed take same list as next size larger.



ATKINS "AAA" POWER HACK SAW BLADES



No.	Length Inches	Width Inches	Thickness Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross	No.	Length Inches		Thickness Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross
400 400 400 400 400 400 400	8 9 10 11 12 14	5/8 5/8 5/8 5/8 5/8	.028 or 22 .028 or 22 .028 or 22 .028 or 22 .028 or 22 .028 or 22 .028 or 22	14 14 14 14 14 14	$\begin{array}{c} 6\frac{1}{2} \\ 7 \\ 7\frac{3}{4} \\ 8\frac{1}{4} \\ 9\frac{1}{2} \\ 10\frac{1}{2} \end{array}$	\$ 8.80 9.90 11.00 12.10 13.20 15.40	400 400 400 402 402	17 18 20 12 14	5/8/8/8/8/8	.028 or 22 .028 or 22 .028 or 22 .028 or 22 .028 or 22	14 14 14 18 18	13 13 ¾ 15 9 ½ 10 ½	\$18.7 19.8 22.0 13.2 15.4
409	12	3/	BLADES .032 or 21	FOR 18	HEAVY 12	\$16.20	Y FE 420	ED AN		.048 or 18	D 12	29 1/2	\$35.1
1409 1410 1410 1410 1410 1410 1412 1412 1412	12 14 12 14 17 18 20 14 17 12 14 12 14 17 10 12 14	1 1 3 4 4 5 4 6 5 4 6 5 6 6 6 6 6 6 6 6 6 6 6	032 or 21 032 or 21 042 or 19 042 or 19 048 or 18 048 or 18 048 or 18	18 14 14 14 14 10 10 10 14 14 12 12 12 12 12	14 12 14 16 16 17 20 14 16 24 16 14 16 14 16 14 16 18 16 18 16 21 18 16 21 21 21 21 21 21 21 21 21 21 21 21 21	18.90 16.20 18.90 12.95 24.30 27.00 26.60 32.30 21.00 24.50 29.75 19.50 23.40 27.30 33.15	422 422 422 423 423 423 424 424 424 425 425 428 428	10 12 14 17 14 17 18 14 17 18 12 14 17 12 14	34 34 34 34 1 1 1 1 1 1 1 1 1	048 or 18 .048 or 18 .032 or 21 .032 or 21 .032 or 21 .032 or 21 .032 or 21 .042 or 19 .042 or 19 .042 or 19 .042 or 19 .042 or 19 .042 or 19	10 10 10 10 18 18 18 24 24 14 14 11 10 10	18 1/2 18 1/2 21 1/2 28 27 33 34 1/2 16 24 25 27 23 25 27	19 1 23 4 27 5 33 1 34 5 4 1 27 5 33 1 27 6 31 1 27 6 31 1 38 5 1 27 6 31 1 38 5 1 27 6 31 1 38 5 27 6 27 6 27 6 27 6 27 6 27 6 27 6 27
30	10		.048 or 18	12		VY GRA \$24.50	VITY 438	FEED		.048 or 18	10		\$ 56.7
130 130 130 130 130 130 130 130 130 130	12 14 16 17 18 19 20 21 22 23 24 10 12 21 22 23 24 11 20 21 22 23 24 12 21 22 23 24 12 21 21 21 21 21 21 21 21 21 21 21 21	111111111111111111111111111111111111111	048 or 18 .048 or 18	12 12 12 12 12 12 12 12 12 12 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	24½ 277 283 34½ 368¼ 40 42 24½ 27 38¾ 46 22 24½ 38¾ 46 24½ 27 30 33¼ 42 46 24½ 27 30 38¾ 42 46 38¾ 42 46 38¾ 42 46 38¾ 42 46 38¾ 48 48 38¾ 48 48 48 48 48 48 48 48 48 48 48 48 48	29, 40 34, 30 39, 20 41, 65 49, 00 51, 45 53, 90 56, 35 58, 80 24, 50 41, 65 54 49, 00 51, 45 58, 80 24, 50 34, 30 30 31, 30 56, 35 58, 80 29, 40 34, 30 39, 20 41, 65 58, 80 39, 20 41, 65 58, 80 41, 65 58, 80 58, 80 58, 80 59, 40 58, 80 61, 60 58, 80 61, 60 58, 80 61, 60 58, 80 61, 65	439 439 439 439 439 439 439 439 440 440 440 440 440 440 441 441 441 445 445 445 445 445 445 445	18 12 14 16 17 18 20 22 4 14 16 17 18 20 21 22 30 21 17 18 19 20 17 18 20 21 22 30 22 30 32 17 30 33 36		048 or 18 .048 or 18 .065 or 16	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	34 1/4 34 1/4 36 34 1/2 36 34 4/3 37 39 4/3 48 1/2 55 56 60 66 67 2 43 43 44 1/2 55 55 60 66 67 2 43 44 1/2 55 55 60 66 67 2 96 66 67 2 97 96 2 98	37.8 44.1 50.4 53.5 56.7 59.8 68.0 69.3 75.6 68.0 66.1 50.4

ATKINS CIRCULAR SCREW SLOTTING SAWS

We are making an exceptionally fine line of Circular Screw Slotting Saws. The standard sizes are 2³/₄-inch diameter with ½, 5/8, 3/4 and 1-inch holes. The following lists are based on quantities of 500. Smaller quantities, prices on application. We will be pleased to quote special prices on other sizes than those listed below:

234" x .057"	e each 23/4" x .032"
2 ³ / ₄ " x .051"	
2 ³ / ₄ " x .045"	
2 ³ / ₄ " x .040"	
2 ³ / ₄ " x .035"	

ATKINS SLATE HACK SAW BLADES

Number	Length Inches	Width Inches	Thickness Gauge	No. of Teeth per Inch	Price per Gross
405	8		.028 or 22	14	\$ 9.00
405	9	$\frac{9}{16}$.028 or 22	14	9.60
405	10	-7.7	.028 or 22	14	10.20
405	12	9 16	.028 or 22	14	12.60

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 \(\frac{1}{8}\) 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, $\frac{3}{64}$, $\frac{1}{16}$, $\frac{1}{32}$ and $\frac{1}{8}$ inch thick to the set.

Price, 3/4 inch thickper gross	\$33.00
Price, 1 inch thick	35.00
Price, $\frac{3}{32}$ inch thickper gross	37.00
Price, 1/8 inch thickper gross	39.00
Price of sets of 1 each of the above blades	144.00
Priceper dozen sets	12.00
Priceper set	1.00

ATKINS SPECIAL BLADES FOR COPING SAW FRAMES — JEWELERS' SAW

No. 500. 1/4 inch wide, .014 inch thick, 32 teeth to the inch.		
Sizeinches	5	6
Priceper gross	\$8.40	\$9.00

The 5-inch blade is made with straight ends only. The 6-inch blade with either holes or loop ends.

This blade is made with either straight or bent ends. Both Nos. 500 and 510 are tempered hard throughout the entire blade by a new process, and drawn to a stiff spring.



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 \$12.60

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 14 Price . . doz. \$9.00 9.60 10.80 13.50 15.00

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 Price.....per dozen \$3.75 \$4.80 \$5.40

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 41/2 inches high, adjustable, blades from 8 to 12 inches may be used. Made of extra high-grade steel, 34 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.

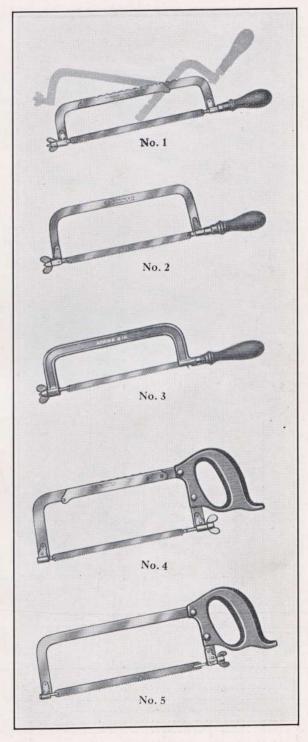
It is heavily nickel-plated, polished and buffed, so that it will not easily rust. Blade may be turned to cut at four different angles. Packed one in a box with blade unless otherwise specified.

Price.....per dozen \$22.00

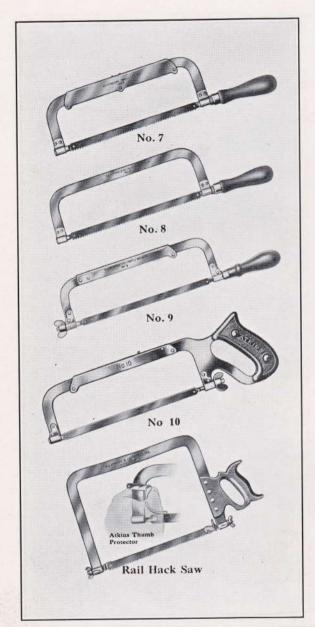
ATKINS No. 5

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 8-inch blade. Larger sizes to order. Packed one in a box with blade unless otherwise specified.

Price......per dozen \$17.25



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. Nickelplated, finely buffed and polished. Depth, 3 inches, width, ½ inch, thickness, ¼ inch. Selected hardwood handle, finely finished, mahogany colored. Packed one in a box.

Price......per dozen \$18.00 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, ½ inch wide, ½ inch thick, rounded edge, three inches deep.

Finely finished hardwood handle. Easy

Grip Pattern, packed one in a box.

8 9 Length . . . in. 10 Price per doz. \$10.50 11.00 11.50 12.50

ATKINS No. 9

Atkins No. 9 Extension Hack Saw, made of high-grade steel, heavily nickeled, highly polished. Enameled handle.

Will accommodate blade from 8 to 12 inches inclusive and can be adjusted to cut at four different angles.

Product in individual bayes without blade.

Packed in individual boxes without blade, unless specified. Price.....per dozen \$10.00

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 it inch thick and %inch wide. Nickeled and highly polished; adjustable to 8, 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.

Price......per dozen \$18.00

ATKINS RAIL HACK SAWS

A frame of Special Spring Steel ¾ 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. 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 127.

No.	Under Back Inches	Length Blade Inches	Weight Each Pounds	Price Without Blades per Doz.
	7	9	313	\$15.00
1	7	12	4	16.00
1½	10	12	53/9	18.00
2	10	14	53/4	19.00
3	10	17	61/2	23.00
4	10	18	65%	28.00
6	10	20	7	33.00

(A)

ATKINS METAL CUTTING HAND SAWS



No. 21

This blade is made of Silver Steel straight breast and back and will cut all classes of ordinary metal with ease. In 18-inch size it is 1½ inches wide at the point and 4½ inches wide at the butt. 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, tempered hard and tough.

The handle is made of thoroughly seasoned applewood, polished, fastened to the blade by medallion and two brass screws. Packed one-third of a dozen in a box.

Size, inches 18 20 22 24 26 Price, doz. \$20.50 22.50 25.00 27.00 29.00

Saws 18 inches long will be shipped unless otherwise specified.

No. 22

This saw is of the same general specifications as No. 21, excepting that it is supplied with an adjustable handle. Handle of applewood, carved and polished, fastened to the blade by nickel-plated lever, bolt and nickel-plated screw.

By the use of the turn screw attachment, the handle may be moved up and down to cut at various angles as shown in the illustration. Packed one-third dozen in a box.

Size, inches 18 20 22 24 26 Price, doz. \$22.50 24.75 27.25 29.75 32.00

Saws 18 inches long will be shipped unless otherwise specified.

ATKINS PLUMBERS' SAWS

A very useful saw for cutting flooring; teeth on both edges; handle.

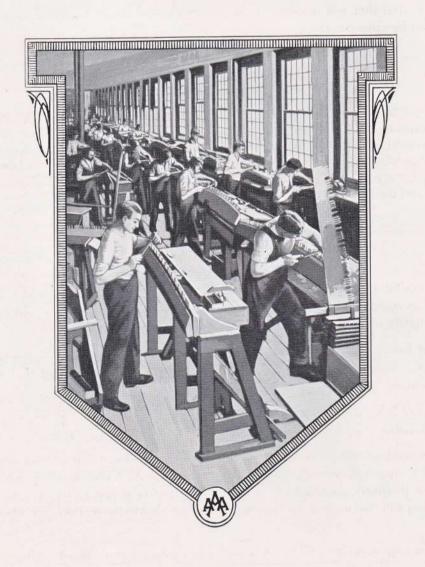
Size....inches... 12 14 16 18 Price..per doz...\$9.00 9.60 10.20 11.00

ATKINS CABLE SAWS

Blade 16 inches long, 11 points to the inch on one side and 14 points to the inch on the opposite side. Teeth on 11 point side set only. Atkins High-Grade Special Steel. Beech handle.

Price.....per dozen \$8.50

ATKINS CROSS CUT SAWS



ATKINS CROSS CUT SAWS

SILVER STEEL

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.

SILVER STEEL

The formula for Silver Steel is our own exclusive property. It contains most effective and expensive materials. 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 most 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.

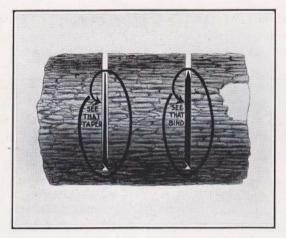
The heat treatment of all cross cut saws is ordered by the chemist, based upon his analysis. This is applied scientifically so that there is no possibility of the least variation.

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



Segment Ground An Imitation

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.

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.

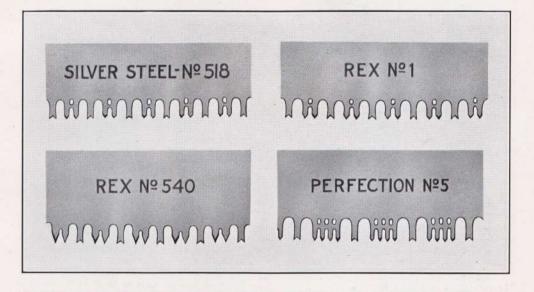
The imitation of Segment Grinding is shown to the right in the illustration, indicating a saw simply dubbed off on the back for an inch or two. Blades constructed on this principle must rely entirely upon the set of the teeth and the use of wedges in order to secure clearance. Segment Ground Cross Cut 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 16	15/8	1/4
4	17/8	7/8	15/8 15/8	1/4
12	11/2	13	15/8	1/4
1	11/2	11	15 16	3/8
3	15%	3/4	15 16	$\frac{7}{16}$
11	13%	3/4 5/8 11 16 7/8	$1\frac{7}{16}$	3/8
6	114	11	11/8	716
221	19	7/8	13/8	716
218	$1_{\frac{1}{16}}$ $1_{\frac{9}{16}}$	3/4	13/8 13/8	3/8
331	11/2	3/4	1	16
225	$\frac{1\frac{1}{2}}{1\frac{5}{8}}$	11	15/8	32
379	1	116 78 9 16 116 116	$1\frac{\frac{7}{8}}{16}$	16
386	11/4	9 16	$1\frac{5}{16}$	16
387	$1\frac{9}{16}$	$\frac{11}{16}$	$1\frac{9}{16}$	32
540	13/8	9 16	11/8	16
550	13/8	16 9 16 7/8 9	11/8	16
553	17/8	7/8	15/8	1/4
518	11/2	16	11/2	1/4 3/8 7-16 7-
741	15/8	1/2	$1\frac{5}{8}$	16
389	11/8	1/2 1/2 1/2 1/2	16	16
654	$1\frac{1}{2}$	1/2	15 16	16

ATKINS STYLES OF CROSS CUT TEETH

The evolution of the Cross Cut Saw from the old style "V" tooth, up 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.



IN THE ABOVE ILLUSTRATION, WE REPRODUCE A FEW PATTERNS OF TEETH WHICH HAVE BEEN ADOPTED IN THE LARGEST OPERATIONS AS THE STANDARD FOR EFFICIENCY.

On account of their popularity we are making them 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 corresponding prices.



ATKINS STYLES OF CROSS CUT TEETH

DEXTER Nº 219 Mannam

VICTOR Nº325

IMPROVED UNIVERSAL Nº 316 MMMM Pirlininin

LONE STAR Nº223 nmmm DIAMOND Nº 322

Mannaman Mannaman

LANCE Nº327 mammuni minish

TUTTLE Nº330

COMMON Nº337

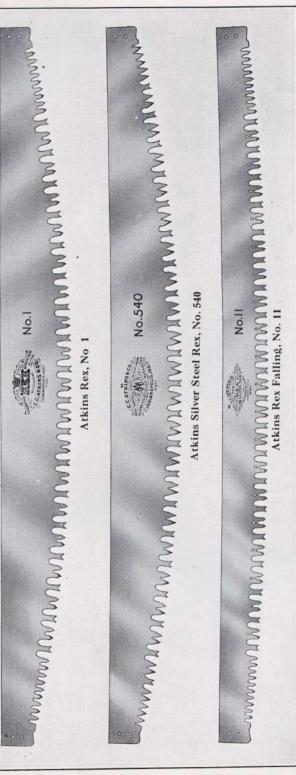
TUTTLE Nº379

AMERICAN Nº 385 Anhalmhalmhala

DIAMOND Nº 384 MUNMUMMUM

VICTOR Nº386 Minning Minning

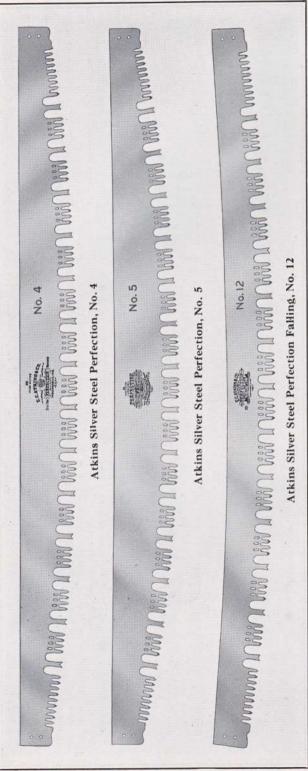
ATKINS REX CROSS CUT SAWS SILVER STEEL - SEGMENT GROUND



such as cottonwood, yellow poplar, white pine, etc. Ground 14 gauge on toothed edge, 17 gauge full on back at ends, and 20 gauge on the center of the back. The blade is 3½ inches at ends, and ranges from 6½ inches wide at center in the four-foot length to 8½ inches wide in eight-foot length. Six foot blade is 7 inches wide at center. The No. 540 is very popular for cutting oak and other hard woods. It is 14 gauge on toothed edge, 17 gauge full at ends, and 20 gauge on center of back. The Rex No. 11 has a tooth similar to the above, but is made on a narrower plate and is perforated. It is ground 14 gauge on the toothed edge, 15 gauge on the back at ends and 16 gauge at the center of back. Width at ends, 314 inches. Width at center, 41/2 inches. Breasted, 21/6 inches. This saw is These saws are made of Atkins Silver Steel and are segment ground, described fully on page 134. No. 1 is a wide blade and is used for heavy, soft woods, used for falling soft woods and for general purposes in small timber. Prices as given below do not include handles.

Price, Nos. 1, 540 and 11. each \$3.10 \$3.60 \$4.10 \$4.80 \$5.60 \$6.40 \$7.30 \$8.30 \$9. Weight, Nos. 1 and 540, per saw. pounds 3.5 4.6 5.89 6.8 7.63 8.04 9.43 10. Weight, No. 11 falling, per saw. pounds 3.25 3.5 3.75 4.48 4.95 5.15 5.9 6.3 7.	Length	feet	4	41/2	õ	51/2	9	61/2	7	71/2	8
pounds 3.25 4. 4.6 5.89 6.8 7.63 8.04 9.43	********	each	\$3.10	\$3.60	\$4.10	84.80	\$5.60	\$6.40	\$7.30	\$8.30	
pounds 8.25 8.5 8.75 4.48 4.95 5.15 5.9		spunod	3.5	4.	4.6	5.89	8.9	7.63	8.04	9.43	10,15
		spunod	3.25	3.5	3.75	4.48	4.95	5.15	5.9	6.3	7.

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 133 and 134.

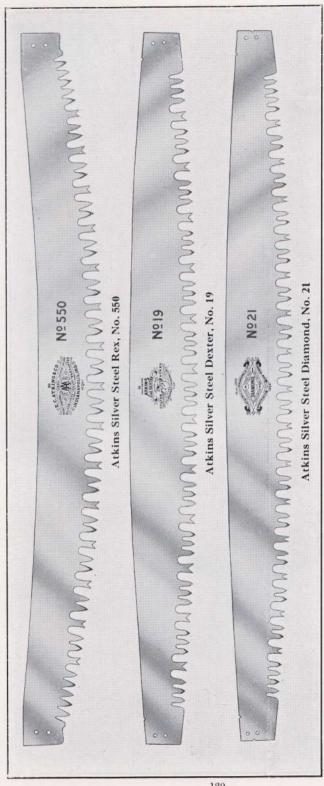
Perfection style of tooth is supplied on three different types of blade as follows: No. 4, a somewhat narrower blade used for medium sized timber. Width

at ends, 3 inches; width at center, 6 inches. Gauge-Toothed edge, 14; back at center, 20; back at ends, 17. No. 5, extra wide blade (see dimensions below) preferable for large heavy timber. Width at ends, 3½ inches; width at center, 6¼ inches to 8¼ inches. Gauge—Toothed edge, 14; back at center, 20; back at preferable for large heavy timber. Width at ends, 8½ inches; width at center, 4½ inches. Gauge—Toothed edge, 12, a narrow blade used principally for falling or in cutting small timber. Width at ends, 8½ inches, width at center, 4½ inches. Gauge—Toothed edge, 12, back at ends, 16. Atkins Rex No. 553 is somewhat similar to No. 5; it has four cutting teeth and a raker. The teeth are exactly the edge, 14; back at center, 17; back at ends, 16. Akkins Rex No. 553 is somewhat similar to No. 5; it has four cutting teeth and a raker. same as Perfection No. 5, but the blade is much narrower, and made with flat 3½-inch shoulder on the ends.

Length	Ť	41/2	2	51/2	9	61/2	7	71/2	8
Price	\$3.10	\$3.60	84.10	81.80	\$5.60	\$6.40	87.30	88.30	89.30
1	10.00	4.	4.6	5.89	8.9	7.63	8.04	9.43	10.15
1	3.25	3.5	8.75	4.48	4.95	5.15	5.9	6.3	7.
Prices as given above do not include handles.									

Segment ground. It is 14 gauge on toothed

ATKINS CROSS CUT SAWS SILVER STEEL-SEGMENT GROUND

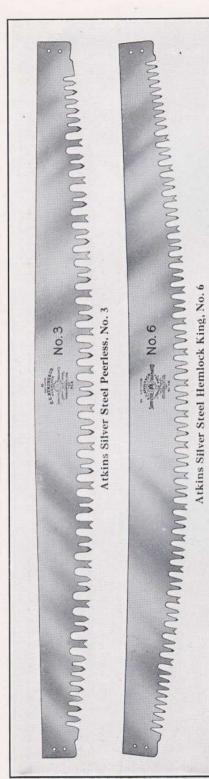


All saws on this page are made of Atkins Silver Steel. These features are fully described on pages 133 and 134. No. 550 has two cutting teeth, and a raker and is the "Finest on Earth" for cutting oak, and other hardwoods.

The Dexter is the best known saw in the south and has for many years held its reputation against any other type of saw tooth. It has three cutting teeth and a raker and is an original pattern. Any other cross cut saw of this pattern is an imitation of the Dexter. No. 19, 18 gauge, No. 20, 19 gauge at center of back. Diamond Nos. 21 and 22 are the original Diamond Cross Cut Saws. Two cutting teeth and raker and are recommended for cutting yellow pine, oak and other southern woods. No. 21 is 16 gauge, No. 22, 18 gauge at center of back. edge, 17 gauge full at ends and 20 gauge on center of back.

Lengthfeet	4	41/2	5	51/2	9	61/2	7	71/2	8
os. 19, 20, 21, 22	200	\$3.60	\$4.10	84.70	\$5.60	86.40	\$7.30	\$8.30	\$9.30
Weight, No. 550pounds	3.5	4.	4.6,	5.89	8.9	7.63	8.04	9.43	10.15
Weight, Dexter and Diamondpounds		3.5	4.64	5.17	9.9	7.89	8.69	10.04	10.96

ATKINS CROSS CUT SAWS SILVER STEEL - SEGMENT GROUND



ATKINS PEERLESS, HEMLOCK KING AND No. 518

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Atkins Silver Steel, No. 518

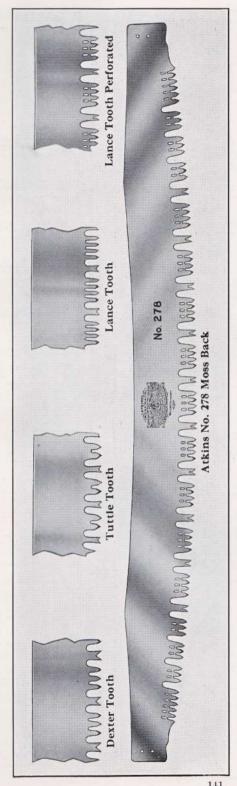
No. 518

All saws on this page are made of Atkins Silver Steel. Segment ground, and are given the Atkins hard, tough temper without being brittle. Fully described on pages 193 and 194. Peerless No. 3 will be found especially desirable for cutting soft woods, such as cottonwood, yellow poplar, white pine, etc. Atkins Hemlock King No. 6 is used extensively throughout the northwest in cutting hemlock and other similar woods. Atkins No. 518 is a well known style of tooth made particularly for white pine, yellow poplar, and woods of this class. The above saws are all 14 gauge on toothed edge, 17 gauge on the back at ends, and 20 gauge at center of back.

Length	feet.	4	41/2	õ	51/2	9	61/2	7	71/2	s
Price.	.each	\$3.10	\$3.60	\$4.10	84.80	\$5.60	\$6.40	\$7.30	\$8.30	\$9.30
Weight, per sawpo	spunod	4.	4.2	4.46	5.	5.6	5.85	6.15	6.3	6.5

Prices as given above do not include handles.

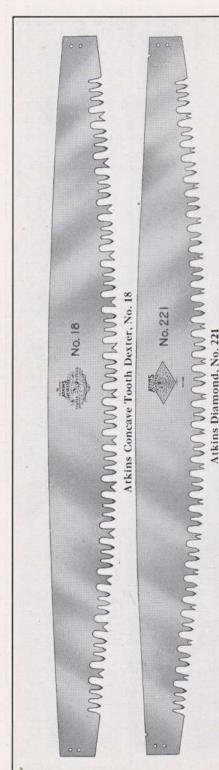
ATKINS MOSS BACK CROSS CUT SAWS 14 x 18 GAUGE



We make the Moss Back Blade as shown in the illustration 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.

Lengthfeet	4	41/2	20	51/2	-9	61/2	7	71/2	S
	\$3.10	\$3.60	84.10	84.80	85.60	\$6.40	87.30	88.30	\$9.30
	6.80	3.15	3.50	3.85	4.20	4.55	4.90	5.25	5.60
	3.10	3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
	9.64	\$2.97	3.30	3.63	3.96	4.29	4.62	4.95	5.28
	3.10	3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
	9.64	2.97	3.30	3.63	3.96	4.29	4.62	4.95	5.28
	8.10	3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
	08.8	3.15	3.50	3.85	4.20	4.55	4.90	5.25	5.60
	3.10	3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
No. 276, Concave Tooth Dexter, Special Steel each	3.10	3.60	4.00	4.40	4.80	5.20	5.60	00.9	6.40
Weight, per sawpounds	3.5	3.85	4.9	5.25	6.55	7.39	8.15	9.1	8.6



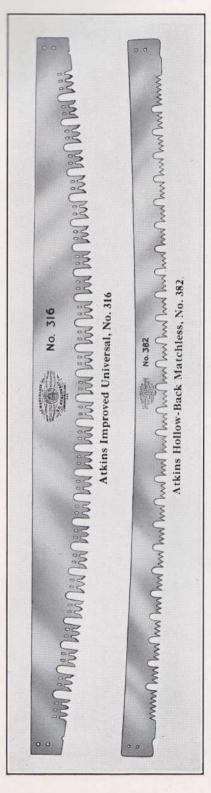
THANKING THANKING TO THE TOTAL No.223

Atkins Lone Star, No. 223

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. No. 220 extra thin back. Atkins Lone Star 6-foot blades are 5% inches wide at center and 7-foot blades are 6 inches wide at center. Furnished in Silver Steel if desired. Prices on application. Lone Star 5 feet and under will be supplied with somewhat smaller tooth unless specified. Prices as given below do not include handles.

Length	12.0	4.1/5	5	51/2	9	6.15	7	735	00
gauge		\$3.60	\$4.10	\$4.80	\$5.60	\$6.40	\$7.30	\$8.30	89.30
gauge		3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
gauge		3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
6 gauge	o cas	3.42	3.80	4.18	4.56	4.94	5.32	5.70	6.08
8 gauge	104	3.60	4.00	4.40	4.80	5.20	5.60	6.00	6.40
9 gauge		3.60	4.00	4.40	4.80	5.20	5.60	00.9	6.40
	- 14	3.60	4.10	4.80	5,60	6.40	7.30	8,30	9.30
		3.60	4.10	4.80	5.60	6.40	7.30	8.30	9.30
		2.52	2.80	3.08	3.36	3.64	3.92	4.20	4.48
		2.70	3.00	3,30	3.60	3.90	4.20	4.50	4.80
x 18 gauge		2.70	3.00	3.30	3.60	3,90	4.20	4.50	4.80
No. 224, same plate as No. 223, Lone Star, but with teeth same as Dexter No. 219.		3.60	4.00	4.40	4.80	5.20	5.60	00.9	6.40
Weights, Dexter and Diamond, per sawpounds	s 3.15	3,5	4.64	5.17	9.9	7.82	8.69	10.04	10.96
Weight, Lone Star, per saw		3.5	3.77	4.06	5.47	5.86	.9	7.38	8.4

122222222222121-1



ATKINS IMPROVED UNIVERSAL, No. 316

The construction of teeth is so simple that there is no trouble to keep them in order. The points are of the same arrangement as in the improved universal hand saws. They are guaranteed to work satisfactorily in both soft and hardwood. They have a decided advantage over other saws in rough timber where knots can not be avoided.

The state of the s	feet	4	41/2	9	5/2	9	672	7	7.1/2	00
No. 316, 14 x 18 gauge. No. 710, 14 x 19 gauge, segment ground.	each	\$3.00 3.28	\$3.38 3.84	\$3.75 4.45	\$4.13 5.11	\$4.50 5.82	\$4.88 6.48	\$5.25 7.24	\$5.63 8.00	\$6.00
		ATKI	NS MAT	ATKINS MATCHLESS,	, No. 317					
No. 317, 14 x 18 gauge.	each	83.00	\$3.38 3.84	\$3.75	\$4.13	\$4.50	\$4.88 6.48	\$5.25	\$5.63 8.00	86.00
Weight, above saws, per saw.	spunod	3.56	4.3	4.98	5.97	6.34	7.65	8.43	88.6	10.73
	ATKI	OH SN	LLOW B	ATKINS HOLLOW BACK, Nos.	382	AND 383				
Price	each	\$1.64	\$1.85	\$2.05	\$2.26	\$2.46	\$2.67	82.87	\$3.08	\$3.28
Weight, per saw	spunod	9.57	3.04	8.4	3.74	4.	4.97	8.4	4.9	5.6

No. 383 blade is the same as No. 382 with same tooth as No. 316 listed above. The above lists are for special steel.

No. 382 style of tooth is also made in wide blade, see No. 317 listed above.

Prices as given above do not include handles.

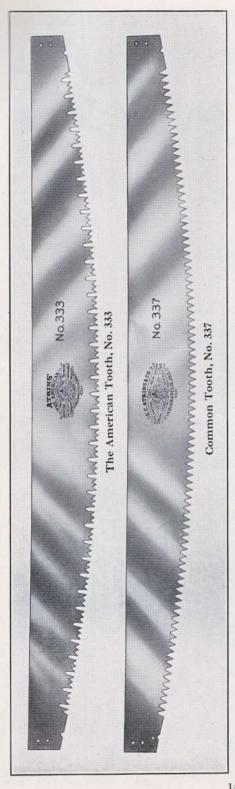


Atkins Nos. 330, Atkins Lance Tooth, No. 227, is thin back, not perforated. Atkins Victor, No. 225, is Canada's favorite; patented February 12, 1884.
831 and 332 are the original Tuttle Tooth, Diamond Point.

Length		4 1/2	5	5 1/2	9	61/2	7	73%	8
	1	\$2.88	\$3.20	\$3.52	\$3.84	\$4.16	\$4.48	\$4.80	\$5,12
		2.70	3.00	3.30	3.60	3.90	4.20	4.50	4.80
		2.16	2.40	2.64	2.88	3.12	3.36	3.60	3.84
		2.34	2.60	2.86	3.12	3.38	3.64	3.90	4.16
No. 332, Thin-Back Tuttle Tooth, special steel, 14 x 19 gaugeeach		2.84	3.10	3.36	3.62	3.88	4.15	4.40	4.66
Weight, No. 225, per sawpounds	3.5	3.91	4.55	5.38	6.64	7.32	7.81	8.4	9.3
		10.00	4.64	5.17	9.9	7.82	8.69	10.04	10.96
Weight, Nos. 330, 331 and 332, per saw		4.3	4.98	5.97	6.34	7.65	8.42	88.6	10,73

We will furnish any of the saws listed above in Silver Steel if desired. Regular gauge is 14 x 16. Thin-back is 14 x 18 gauge. 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.





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Lengthfee	4 4		5	51/2	9	61/2	7	71/2	œ
No. 333 special steel, 14 x 16 gaugeeach No. 334 special steel, 14 x 18 gaugeeach	h \$2.24 h 2.40	\$2.52	85.80	\$3.08 3.30	\$3.36 3.60	\$3.64 3.90	\$3.92 4.20	\$4.20 4.50	\$4.48 4.80
pd	1000	4.3	86.1	5.97	6.34	7.65	8.43	88.6	10.73
8	-	COMMON '	FOOTE	l, No.	337				
No. 337 special steel, 14 x 16 gaugeeac. No. 338 special steel, 14 x 18 gaugeeac.	9,5	\$2.16 2.34	\$2.40	\$2.64 2.86	\$2.88 3.12	\$3.12	\$3.36	\$3.60	\$3.84
Weight, per saw pounds Distance from point to point		s.%	4.98 5.8	5.97	6.34	7.65	8.42	9.88	10.73

11	88 86
spt fine teeth	88 19
, No. 335 Same as No. 337, except fine teeth.	88 68
255 Same a	8 79 68
OKY, No.	8 07 08
ATKINS HICKORY,	\$0.16
ATKIN	60 18 done
	done
	000
	100

No. 335 special steel, 14 x 16 gaugeea	each \$	81.92	\$2.16	85	40	\$9.64	88.28	\$3.12	88.36	\$3.60	\$3.84
1	spuno	3.56	4.3	7	86	5.97	6.34	7.65	8.49	88.6	10.73
	SNI	FEA	THER	EDGE,	THIN	ATKINS FEATHER EDGE, THIN-BACK,	No.	336 Same as	336 Same as Hickory excepting 14 x 18 gauge.	ng 14 x 18 gauge	
No. 336 special steel, 14 x 18 gaugeea	each &	85.08	\$9.34	85	09	82.86	\$3.12	\$3.38	\$3.64	\$3.90	84.16
	spunoc	3.56	4.3	4	4.98	5.97	6.34	7.65	8.43	88.6	10.73

We will furnish any of the saws listed above in Silver Steel if desired. Regular gauge is 14 x 16. Thin-back is 14 x 18 gauge. Above prices do not include handles.

ATKINS HOLLOW BACK SAWS



Atkins Hollow Back Tuttle, No. 381

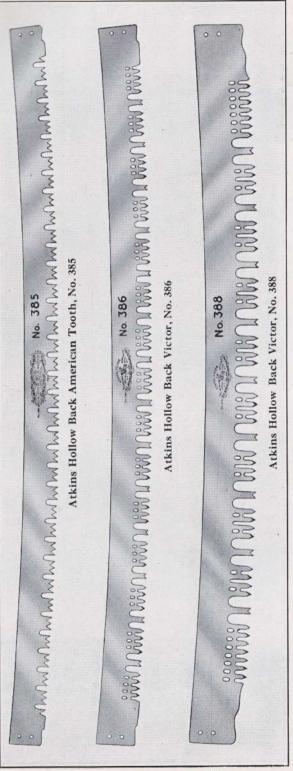
Atkins Hollow Back Diamond, No. 384

Atkins Hollow Back Tuttle, No. 379, is 3½ 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, ¼ inch. Depth of tooth gullet, ¼ inch. Width of tooth gullet, widest place, 15 inch.

Atkins Hollow Back Diamond, No. 384, is 3½ inches wide at ends and center in all lengths. Depth of raker gullet, 1¼ inches. Width of raker gullet, widest place, ½ inch. Depth of tooth gullet, 1¼ inches. Width of tooth gullet, widest place, 1½ inches. All of the above saws are made in Atkins High-Grade Special Steel, carefully tempered for satisfactory service and nicely finished throughout.

	4/2	C	0.72	9	0.72	7	(72	00
s daeh s		95	\$1.43	81.56	81.69	81.89	81.95	85.08
r 14 gaugeeach			1.65	1.80	1.95	2.10	2.25	2.40
4 x 16 or 13 x 15 gaugeeach			1.97	9.14	9.31	9.48	69.65	83.8
each			1.65	1.80	1.95	9.10	9.95	9.40
Weight, Nos. 379 and 384, per saw	57 8.04	3.4	3.74	4	4.27	8.4	4.9	9.6
			5.5	5.61	6.6	6.21	7.	œ

ATKINS HOLLOW BACK SAWS



Width of raker gullet, $\frac{1}{16}$ inch. Depth of tooth gullet, $1\frac{1}{16}$ inches. Width of tooth gullet at widest point, $\frac{1}{16}$ inch.

No. 387 is 3% inches wide, 14 gauge. No. 388 is 3% inches wide, 14 x 16 gauge. The two latter saws have raker gullet widest place, $\frac{1}{16}$ inch. Depth of tooth gullet, $1\frac{1}{16}$ inches. Width of tooth gullet, widest place, $\frac{1}{32}$ inch.

All the above saws are made of Atkins High-Grade Special Steel and fully warranted. 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 1½ inch, width of raker gullet, widest place ½ inch, depth of tooth gullet 5% inch, width of tooth gullet, widest place 5% inch.

Atkins Hollow Back Victor 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.

Teneth	feet	4	43%	5	51/2	9	6 1/2	7	7.15	00
No. 385, American Tooth, 3½ inches wide. No. 386, Victor, Lance Tooth Pattern, 3½ inches wide. No. 387, Victor, Lanne Tooth Pattern, 3¾ inches wide, 14 gauge. No. 388, Victor, Lance Tooth Pattern, 3¾ inches wide, 14 x 16 gauge.	each each each	\$1.20 1.28 1.44 1.60	\$1.35 1.44 1.62 1.80	\$1.50 1.60 1.80 2.00	\$1.65 1.76 1.98 2.20	\$1.80 1.92 2.16 2.40	\$1.95 2.08 2.34 2.60	\$2.10 2.24 2.52 2.80	\$2.25 22.40 3.00	\$2.40 22.56 3.20
	spuno	2.57	3.04	3.4	3.74	4.	4.27	4.8	4.9	5.6
	spunoc	3.85	4.07	4.73	5.5	5.61	5.9	6.21	7.	80

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 Rex Cross Cut Saw. The raker teeth are swaged. Skew back. An easy grip handle, finely carved, varnished edges, fastened to the blade by two brass screws and a medallion.

ATKINS MATCHLESS, No. 399

This is a special patented tooth, see illustration on page 149.

It is particularly recommended for heavy cutting, such as fence posts, rafters, rails, studding, etc. It operates equally well in cross cutting, ripping or mitreing and is unexcelled as a framing saw.

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 17 gauge on tooth edge and 19 gauge on the back at the point; the center is 20 gauge and at the butt near handle, 19 gauge.

ATKINS TAMARACK, No. 741

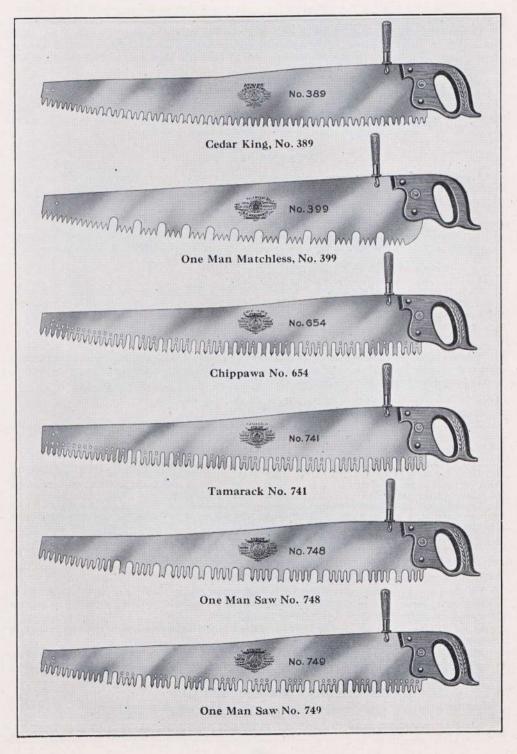
Extra heavy gauge. Taper ground. Lance tooth perforated. Perfection shape rakers. Extra large hand hold, for use with heavy gloves. Silver Steel. Two brass screws and medallion.

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 151, 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 by two brass screws and a medallion. No. 749 is the same except the teeth are perforated; see page 149.

Lengthfeet	21/2	3	31/2	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Price, Nos. 389, Cedar King, 748 & 749 each	\$1.75	\$2.10	\$2.45	\$2.80	\$3.15	\$3.50	\$3.85	\$4.20
Price, No. 654 each	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
Price, No. 399, Matchlesseach	2.00	2.40	2.80	3.20	3.60	4.00	4.40	4.80
Price, No. 741 each	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
Wt., Nos. 389, 399, 748 and 749, eachlbs.	1.45	1.99	2.53	3.85	4.55	5.25	6.1	7.4
Wt., Nos. 741 and 654, each lbs.	31/2	4	41/2	51/2	61/4	7	8	83/4





We devote quite as much care and attention to the manufacture of the very finest One-Man Saws as to the heavier types of Two-Man Cross Cut Saws shown on previous pages.

The saws illustrated on page 151 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 are finely smoothed and finished. Varnished on the edges only. Atkins Easy Grip Pattern. Fastened to the blade by two brass screws and a brass screw medallion. These handles will not become loose.

ATKINS No. 390

A general description of this saw is given below. It is made in lengths from 2½ 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 $2\frac{1}{2}$ to 6 feet and the teeth are similar to the regular Diamond No. 221, 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, 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 $2\frac{1}{2}$ to 6 feet and the teeth are the same as used in the regular American No. 333 but smaller.

ATKINS No. 395

This saw is exactly similar to No. 393, excepting that it is made with a skew, instead of a straight back.

No. Length,	feet	21/2	3	31/2	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
390, Tuttle Tooth, special steel	ach	\$1.40	\$1.68	\$1.96	\$2.24	\$2.52	\$2.80	\$3.08	\$3.36
201 Diamond Tooth special steel	each	1.50	1.80	2.10	2.40	2.70	3.00	3.30	3.60
209 Victor Tooth special steel	ach	1.60	1.92	2.24	2.56	2.88	3.20	3.52	3.84
204 Victor Tooth special steel, skew back	each	1.70	2.04	2.38	2.72	3.06	3.40	3.74	4.08
909 American Tooth special steel	each	1.50	1.80	2.10	2.40	2.70	3.00	3.30	3.60
395. American Tooth, special steel, skew back, e	each	1.60	1.92	2.24	2.56	2.88	3.20	3.52	3.84
Weight, per sawpot	ınds		2.42	2.87	3.51	4.33	5.13	5.95	7.

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.

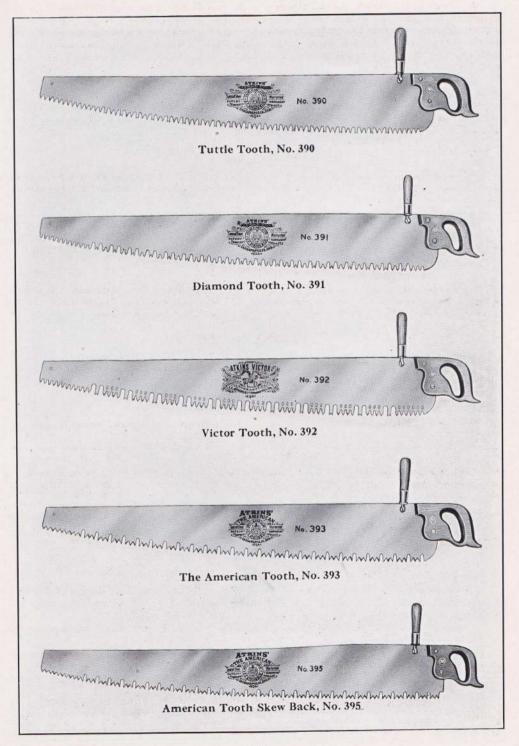
In order to introduce them, so that their advantages may be appreciated, we are selling them at an extremely low list.

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

Length	.feet	3	$3\frac{1}{2}$	4	41/2	5	$5\frac{1}{2}$	6
Any pattern or style of tooth	.each	\$3.00	\$3.50	\$4.00	\$4.50	\$5.00	\$5.50	\$6.00

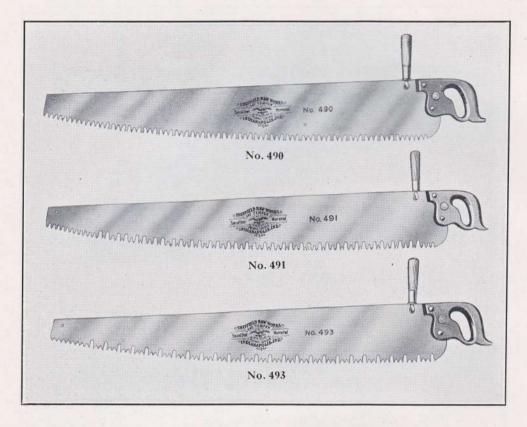






ONE-MAN CROSS CUT SAWS

SHEFFIELD SAW WORKS



On previous pages we have shown a splendid assortment of One-Man Saws in Atkins Silver Steel and Atkins High-Grade Special Steel. We illustrate above several of the most popular styles of teeth in our Sheffield quality.

Sheffield brand One-Man Saws are made of a fine grade of crucible steel, carefully tempered and nicely finished. They will give satisfaction in ordinary usage.

The handles are Easy Grip Pattern, finely finished and made of carefully selected beech. Varnished edges. Fastened to the blade by two brass screws and a brass screw medallion.

No. 490

Made in lengths from 3 to 6 feet. Regular pattern tuttle tooth.

No. 491

Made in lengths from 3 to 6 feet. Same pattern as No. 391.

No. 493

Made in lengths from 3 to 6 feet. Tooth similar to No. 393.

Lengthfeet	3	31/2	4	41/2	5	51/2	6
No. 490, Tuttle Tootheach	\$1.62	\$1.89	\$2.16	\$2.43	\$2.70	\$2.97	\$3.24
No. 491, Diamond Tooth each	1.68	1.96	2.24	2.52	2.80	3.08	3.36
No. 493, American Tootheach	1.68	1.96	2.24	2.52	2.80	3.08	3.36
Weight, per sawpounds	2.42	2.87	3.51	4.33	5.13	5.95	7.



ATKINS PACIFIC COAST STYLES OF CROSS CUT TEETH

NO.251

REDWOOD FALLING Nº67

REDWOOD KING Nº64

TUTTLE TOOTH Nº263

EUREKA Nº 68

NO.252

PERFECTION №55

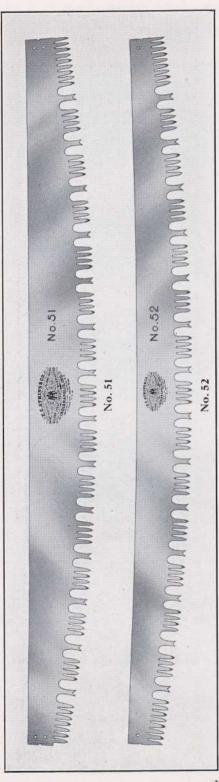
VICTOR Nº 360

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.

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.

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 these saws are made of Atkins Silver Steel, which insures a maximum toughness and longest wear. They are also Segment Ground.

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 the No. 52 as No. 252.

Lengthfeet	9	61/2	! -	73/2	00	81/2	- 6	976	10	11	13
	85	\$5.65	-86.30	\$6.95	87.60	89.30	\$9.85	\$11.95	\$19.60	\$15.95	820.00
	5	5.65	6.30	6.95	7.60	9.30	9.85	11.95	12.60	15.95	20.00
	1-	7.80	8.40	00.6	9.60	12.00	13,10	14.25	15.50	18.50	22.00
No. 52, Silver Steel, 13 x 17 gaugeeach		7.80	8.40	9.00	9.60	15.00	13.10	14.95	15.50	18.50	55.00
Weight, per sawpounds	9.	9.83	11.	11.90	19.7	13.3	13.9	14.5	15.1	16.3	17.5
Weight, per saw		7.78	8.4	8.99	69.6	10.68	10.93	11.66	12.25	12.8	13.9

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS SILVER STEEL

No. 64

Arkins 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. It is $4\frac{1}{16}$ inches wide at end, 7 inches wide at center, with $1\frac{1}{4}$ -inch bow on back. Made in lengths from 6 to 20 feet, and in several different thicknesses as listed below.

Lengthfeet	t 6	61/2	7	73%	00	8 1/2	6	91/6	10	11	12	14	16	18	20
No. 64, Standard, 13 gauge. No. 64, 11 gauge.	7.44	87.80	\$8.40	\$9.00	\$9.60	\$12.00	\$13.10	\$14.25	\$15.50	\$18.50	\$22.00 22.48	\$26.00	\$30.00		\$40.00
			8.83 9.24	9.45		12.51	13.64	14.82	16.10			26.84	30.96	35.08	41.30
Weight, No. 64, Standard, 13 gauge, per sawpounds	6.7	8.4	8.9	10.4	6.01	11.4	11.9	12.4	12.9	13.9	14.9	16.9	18.9	20.9	22.9
Weight, No. 64, 11 gauge, per sawpounds		9.2	11.57	12.91	13.58	14.25	14.92	15.59	16.26	17.6	18.94	21.62	24.3	26.98	29.66
Weight, No. 65, 10 gauge, per saw pounds	8 11 8	12.2	12.6	14.	14.42	14.84	15.26	15.68	16.1	16.94	17,78	19.46	21.14	22.82	24.5
Weight, No. 66, 9 gauge, per saw pounds	s 10.93	12.42	13.91	15.4	16.57	17.74	18.91	20.08	21.25	23, 59	25.93	27.27	29.61	31.95	34.29

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.

Length	et 6	61/2	7	71.9	00	81/2	6	91%	10	11	12	14	16	18	20
No. 67, Standard, 12 gaugeeach	h \$7.20	\$7.80	\$8.40	89.00	\$9.60	\$12.00	\$13.10	\$14.25	\$15.50	\$18.50	\$22.00	\$26.00	\$30.00	\$34.00	\$40.00
Weight, per sawpounds	s 7.	7.78	8.4	8.99	69.6	10.68	10.93	11.66	12.45	12.8	13.2				

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

SILVER STEEL



ATKINS EUREKA, No. 68

This saw was first designed for California trade, for use in cutting western redwood, pine, fir and other woods, but its reputation has spread until it is now in general use throughout all sections of the western coast. An extra wide, heavy blade, toothed to the end, and used for bucking.

ATKINS EUREKA FALLING, No. 69

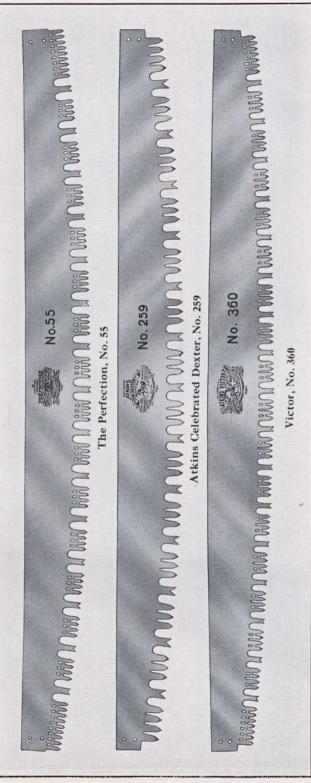
Exactly similar to No. 68, excepting that it is a narrower blade and is used for falling and cutting smaller timber.

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

Lengthfe	feet 6	61/2		7 73/2	œ	81/2	6	$9\frac{1}{2}$	10	11	13	14 16	16	18	08
1 : :	each \$7.20 \$7.	20 \$7.8 20 7.1	80 \$8. 80 8.	0 \$7.80 \$8.40 \$9.00 \$0 0 7.80 8.40 9.00	09.68 0	\$12.00 12.00	\$13.10 13.10		\$15.50 15.50	\$18.50	\$22.00 22.00	\$26.00		\$34.00	\$40.00
	ds 9.	9.6	9.83 11.	11.9	11.9 12.7	13.3	13.9	14.5	15.1	16.3	17.5	19.9	55.3	24.7	27.1
saw.	ds 7.	7.	78 8.	4 8.9	69.6 66	10.63	10	.93 11.66	12.25	12.8	13.2	14.8	16.4	18.	19.6

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

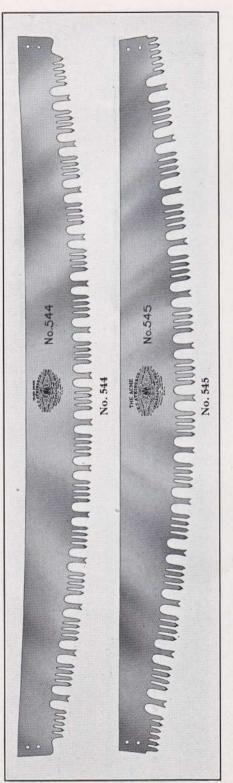


ATKINS DEXTER, No. 259—This saw was first introduced in the east, but has become a great favorite in certain sections of the Pacific Coast. This is the special Pacific Coast Pattern. It is made under a patent, which consists of a depression on the face of the cutting teeth, through the center from point to base, thus removing all friction while in use, giving strength and stiffness to the teeth and increasing three-fold the durability of the set. No. 605 same as above, excepting it is 13 x 17 gauge. Toothed to the end. ATKINS PERFECTION, No. 55-Now being used extensively throughout the western coast. Full width blade. Four cutting teeth and raker.

ATKINS VICTOR, No. 360—A popular Cana lian pattern that has found its way into all sections of the Pacific Coast. Sometimes called the Lance Tooth Perforated Pattern. 14 x 18 gauge. No. 703 is furnished it is x 17 gauge. Perfection No. 55 is made of Silvey Sicel. Segment Ground. Nos. 259, 605, 360 and 703 are of Atkins High-Grade Special Steel but can be immired in Silvey sheel Silvey Silvey Silvey Section Silvey on the include handles.

Cength	4	4 1/2	ro	51%	9	61/2	7	73%	00
No. 55, Perfection, Silver Steel only, 14 x 18 gauge	0.55	\$3.60	\$4.10	\$4.80	\$5.60	\$6,40	\$7.30	\$8.30	89.30
	60	3.60	4.00	4.40	4.80	5.20	5.60	00.9	6.40
	00	3.60	4.00	4.45	5.00	5,65	6.30	6.95	7.60
rforated, thin back, 14 x 18 gauge	63	2.88	3.20	3.52	3.84	4.16	4.48	4.80	5.12
rforated, thin back, 13 x 17 gauge	C1	3.24	3.60	3,96	4.32	4.68	5.04	5.40	5.76
Weight, per sawpounds		6.1	9.9	7.1	7.7	8.26	96.8	10.16	11.17

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS SILVER STEEL



INLAND EMPIRE, No. 544

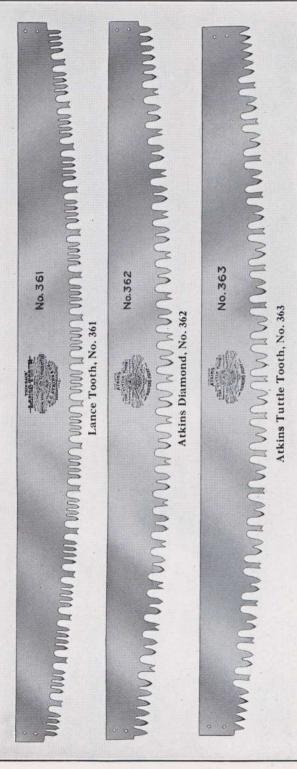
Timbermen throughout the West are delighted with the INLAND EMPIRE, No. 544. Blades are 14 gauge on the tooth edge, 17 gauge on the ends at back and 20 gauge at center of back.

ACME, No. 545

The Acme is 13 gauge on the tooth edge, 18 gauge in the center of the back and gradually tapers from the thickest to the thinnest point. This saw, as well as the Inland Empire, No. 544, is made with extra long cutting teeth and large roomy gullets for taking out the sawdust. The genuine is plainly marked "E. C. ATKINS & CO." and "SILVER STEEL" on the blade.

Lengthfeet	9	61/2	7	71/2	œ	81/2	6	91/2	10	11	13
No. 544, Silver Steel, 14 x 20 gaugeeach No. 545, Silver Steel, 13 x 18 gaugeeach	\$5.60	\$6.40	\$7.30 8.40	\$8.30 9.00	\$9.30 9.60	\$12.00	\$13.10	814.25	\$15.50	\$18.50	\$22.00
Weight, No. 544, per saw, approximatepounds			11.	11.9		10.0000	*****	4.4(4)4.4	****	*****	****
			8.4	8.99	69.6	10.68	10.93	11.66	19.95	19.8	13.2

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS



excepting that it is 13 x 17 gauge.

ATKINS DIAMOND, No. 362—This is the old popular Diamond Tooth Cross Cut Saw. Now in general use. Pacific Coast Pattern. Is toothed to the end. 14 x 18 gauge.

No. 706 is similar excepting that it is 13 x 17 gauge.

No. 706 is similar excepting that it is 13 x 17 gauge.

No. 707 is 13 x 15 gauge.

ATKINS TUTTLE 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. 14 x 18 gauge.

No. 708 same as above, excepting 13 x 15 gauge.

No. 707 is 13 x 15 gauge. All the above saws are made of Atkins High-Crade Special Steel highly tempeged, carefully ground, finely finished, but can be furnished in Silver Steel when so ordered at Silver Steel price. Prices as given below do not include handles. ATKINS LANCE TOOTH, No. 361-Similar to the Lance Tooth described on page 157, excepting that it is made without perforations. 14 x 18 gauge. No. 704 is similar

ter to the state of the state o		416	2	5 1/2	9	6 1/2	2	7.1%	00
eel, 14 x 18 gauge	\$2	\$2.88	\$3.20	\$3.52	\$3.84	\$4.16	\$4.48	\$4.80	\$5.12
ed, special steel, 13 x 17 gauge	61	3.24	3.60	3.96	4.32	4.68	5.04	5.40	5.76
x 18 gauge	01	2.70	3.00	3.30	3.60	3.90	4.20	4.50	4.80
x 17 gauge	23	3.15	3.50	3.85	4.20	4.55	4.90	5.25	5.60
int, special steel, 14 x 18 gauge	63	2.70	3.00	3.30	3.60	3.90	4.20	4.50	4.80
int, special steel, 13 x 17 gauge	67	3:15	3.50	3.85	4.20	4.55	4.90	5.25	5.60
int, special steel,	2.64	2.97	3.30	3,63	3.96	4.29	4.62	4.95	5.28
Weight, per saw	5.	6.1	9.9	7.1	7 7	8 26	96 8	10 16	11.17

ATKINS AUSTRALASIAN PATTERN CROSS CUT SAWS



ATKINS AUCKLAND PATTERN CROSS CUT SAWS

The various saws shown on this and the following pages represent those now in general use throughout Australasia.

The peculiar styles of teeth shown are the result of very careful study as to the best construction for use in the different woods indigenous to that section.

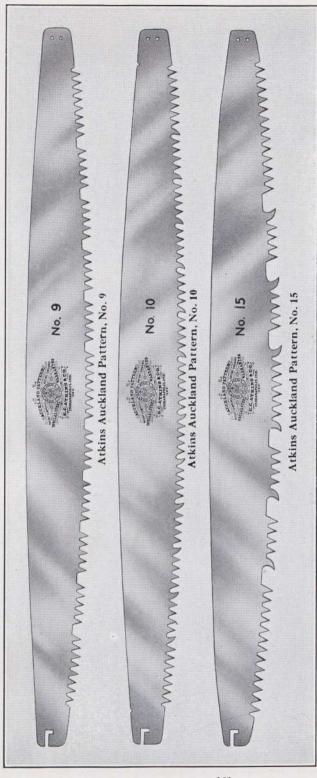
They are usually made of Atkins High-Grade Special Steel, but can be supplied in Silver Steel, when specified.

Nos. 7 and 46, space of teeth, 6 and 61/2 feet, 1 inch; 7 feet, 11/8 inches; 71/2 feet, 11/4 inches; 8 and 81/2 feet, 13/8 inches; 9 to 10 feet, 11/2 inches. Space between sections of teeth, 21/8 inches.

Nos. 8 and 47, space of teeth, 6 and 61/2 feet, 1 inch; 7 to 10 feet, 11/4 inches. Space between sections of teeth, 2 inches.

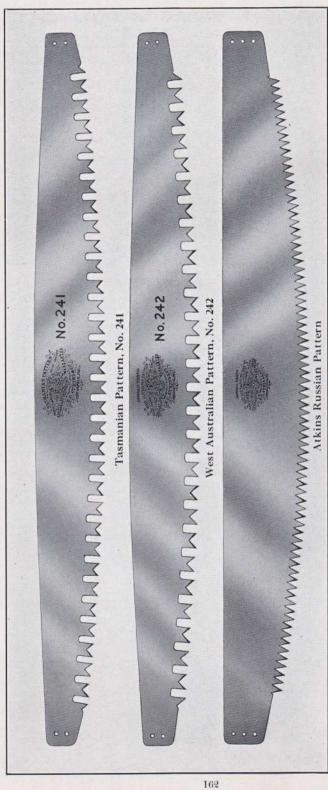
Lengthfeet	5	51/2	9	61/2	~	71/2	œ	81/2	6	91/2	10
Nos. 7 and 8, Special Steel.	90	\$3.85	84.20	84.55	84.90	\$5.25	\$5.60		\$6.93	87.32	87.70
		4.80	5.60	6.40	7.30	8.30	9.30	11.58	12.26	19.94	13.63
Weight, per saw		8.05	8.4	8.75	9.87	10.85	11.69	12.22	14.7	15.4	16.1

ATKINS AUSTRALASIAN PATTERN CROSS CUT SAWS



Nos. 9 and 48; space of teeth, all sizes, 1¼ inches. Space between sections of teeth, 97% inches. Space between sections of teeth, 1¼ inches. Nos. 10 and 49; space of teeth in 5-foot saws, 1 inch. All other sizes over 5 feet, 1¼ inches. Space between sections of teeth, 1¼ inches. Nos. 15 and 50; space of teeth, 6 to 7½-foot saws, 1 inch; 8 to 10-foot saws, 1¼ inches. Space between sections of teeth, 2¼ inches.

Lengthfee	t 5	51/2	9	61/2	7	71/2	6	81/2	6	91/2	10
No. 9, Special Steeleach	ь \$3.00	\$3.30	83.60	88.90	84.20	84.50	84.80	\$ 5.61	-	\$ 6.97	8 6.60
***************************************	h 4.10	4.80	5.60	6.40		8.30	9.30	11.58		12.94	13.63
No. 10, Special Steeleac	h 3.50	3.85	4.20	4.55	4.90	5.25	5.60	6.54		7.39	7.70
	h 4.10	4.80	5.60	6.40	7.30	8.30	9.30	11.58		19.94	13.63
	h 3.50	3.85	4.20	4.55	4.90	5.25	5.60	6.54		7.39	7.70
	h 4.10	4.80	5.60	6.40	7.30	8.30	9.30	11.58	19.96	19.94	13.63
Weight, per sawpound	ls 7.76	8.05	8.4	8.75	9.87	10.85	11.69	19.99		15.4	16.1



Atkins Tasmanian Pattern: Width of gullets is 34 inch; depth of gullets, 114 inches, and distance from point to point is 11% inches.

Atkins West Australian Pattern: Width of gullets, 5% inch; depth of gullets, 13% inches, and

No. 242, West Australian Pattern, Special Steel.
No. 42, West Australian Pattern, Silver Steel. distance from point to point, 1½ inches.
No. 241, Tasmanian Pattern, Special Steel.
No. 41, Tasmanian Pattern, Silver Steel.

RUSSIAN PATTERN

Length	feet.	8	31/2	4	41/2	2
	each	81.20	81.40	81	81.80	82.00
15 gauge	each	1.14	1.33		1.71	1.90
	each	1.08	1.26	-		1.80
17 gauge	each	1.09	1.19	-	1.53	1.70

Saws over 5 feet long, not heavier than 14 gauge, price 50 cents per foot.

10.16 11.17

8.96

8.96

9.9

\$4.50 8.30

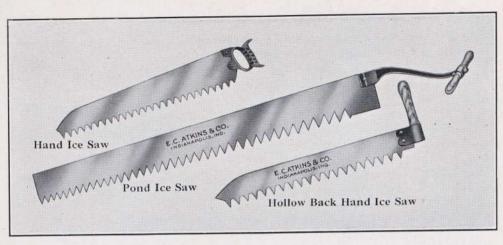
\$2.70 \$3.00 \$3.30 \$3.60 \$3.90 \$4.20 3.60 4.10 4.80 5.60 6.40 7.30

\$2.40 10

Special Steel.....each Length.....feet

Weight, per saw.....pounds

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 may 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 fine material and may 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 use, being set and sharpened.

ATKINS POND ICE SAWS WITHOUT TILLER

STANDARD LENGTH, 5 FEET

						Price, Each			
Width,	Inches Point	Thickness Gauge	3	31/2	4	Length, Feet $4\frac{1}{2}$	5	$5\frac{1}{2}$	6
0	e	10	\$3.00	\$3.50	\$4.00	84.50	\$5.00	\$5.50	\$6.00
8	0	10	2.80	3.25	3.80	4.25	4.70	5.15	5.70
8	6	11			3.60	4.05	4.50	4.95	5.40
7	5	10	2.70	3.15			2 - T 17/27/01:12	171 71 21	5.10
7	5	11	2.55	2.95	3.40	3.85	4.25	4.70	5.10

ATKINS HOLLOW BACK HAND ICE SAWS

Length inches Price per dozen	24	26	28	30	32	\$4	36
	\$14.00	\$15.00	\$16.00	\$17.00	\$18.00	\$19.00	\$20.00

ATKINS HAND ICE SAWS

Lengthinches Priceper dozen	\$24 \$20.00	26 \$21.00	\$28 \$22.00	\$23.00	\$24.00	\$25,00	\$26.00
110011111111111111111111111111111111111				S787 S2 62			

Ice saws with beech handles same price as above. Packed one-half dozen in package.

				40 Cm	-	-	-	
-	-	а	70	100	100	D	S	
	_		64	224	P 4			

Price each \$1.10

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 severest tension.

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.

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.

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.

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 fallen timber. Packed 50 pairs in a box weighing 160 pounds.

Price......per pair \$1.00

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.

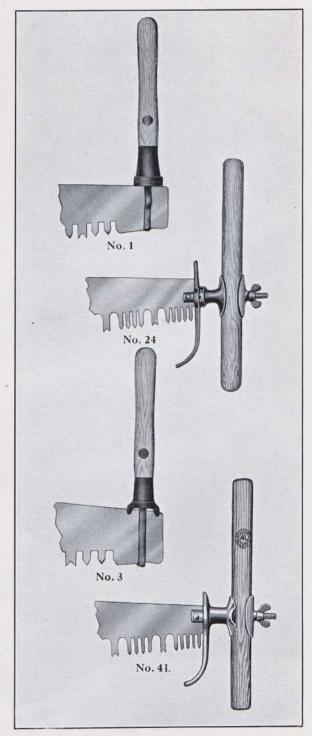
Price......per pair \$0.35

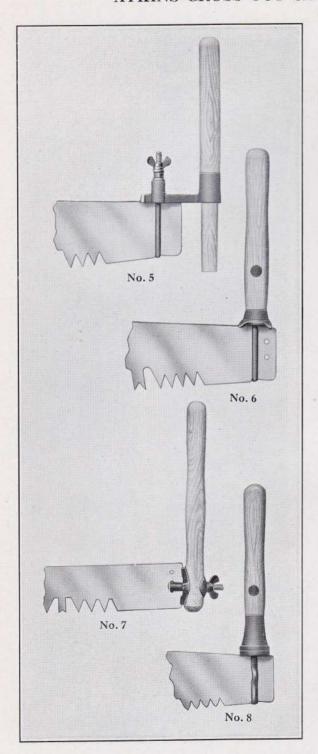
No. 4L

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 fallen 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.

Price per pair \$1.50





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 4½ inches. Packed 50 pairs in wire-bound box weighing 115 pounds.

Price.....per pair \$0.45

No. 6

10 inches long irrespective of loops. Similar to No. 3 but lighter castings. Steel loop spot electric welded. Capacity 3 to 4½ inches. Specially selected air-dried hardwood stock. Packed 150 pairs in wire-bound box weighing 185 pounds.

Price.....per pair \$0.25

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 pounds.

Price.....per pair \$0.25

No. 8

10 inches long irrespective of loops. 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.

No. 8 SHORT PATTERN

Same as regular No. 8 only 7½ inches long. Packed 50 pairs in wire-bound box weighing 94 pounds.

Price.....per pair \$0.30



No. 9

14 inches long. Popular Pacific Coast pattern. Reversible. Malleable bracket. Spot electric welded steel loop. Japanned black. Extra fine air-dried hardwood stock. Capacity 3 to 4½ inches. Packed 50 pairs in wirebound box weighing 125 pounds.

Price......per pair \$0.45

No. 10

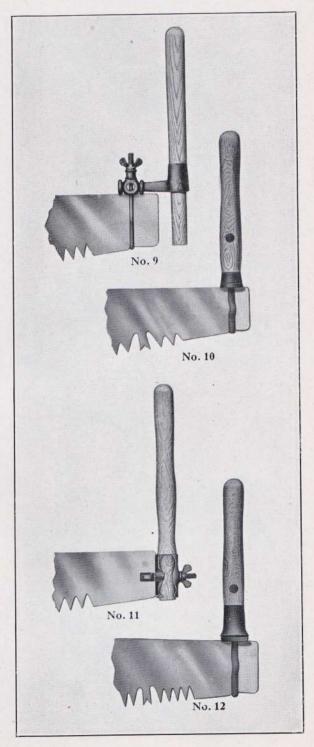
9½ inches long irrespective of loops. Selected hardwood stock. Cast steel socket and washer. Loop of high tensile strength, cold drawn steel. Spot electric welded. Packed 150 pairs in wooden box weighing 175 pounds.

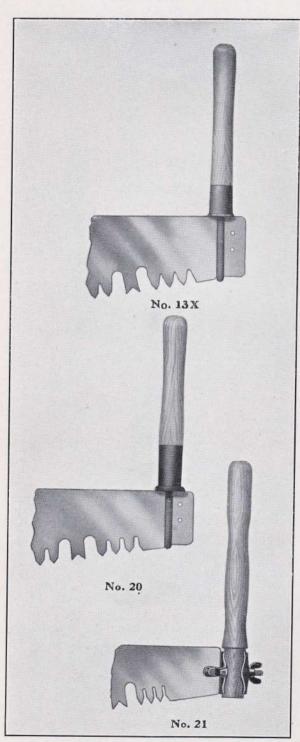
No. 11

14 inches long. Climax pattern. Reversible. Cast iron face plate and washer. Highgrade malleable bolt with lock rivet feature, preventing rivet from becoming detached. Easily adjusted. Packed 100 pairs in wire-bound box weighing 170 pounds.

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.





No. 13X

10 inches long irrespective of loops. Malleable socket, case hardened face or 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 \$0.45

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 black. Capacity 2½ to 3½ inches. 50 pairs in wire-bound box weighing 75 pounds.

Price.....per pair \$0.55

No. 21

14 inches long. Climax Pattern. Similar to No. 11 but lighter castings. Reversible. 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 \$0.25



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 \$0.85

No. 25

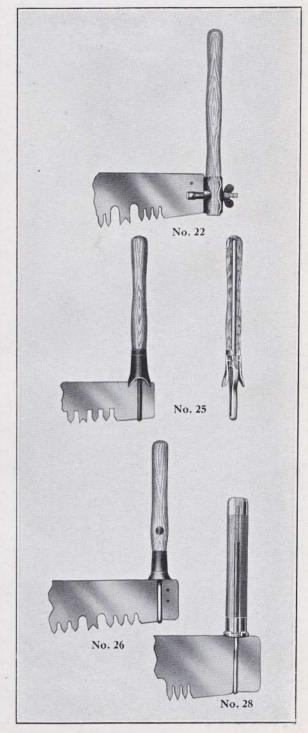
12 inches long irrespective of loops. Reinforced by heavy machine steel bolt running through the entire center. Socket washer and loop extra high-grade malleable. Long ears prevent blades from slipping. Japanned red, loop black. Capacity 3 to 4½ inches. Packed 50 pairs in wirebound box weighing 135 pounds. Price per pair \$0.55

No. 26

No. 28

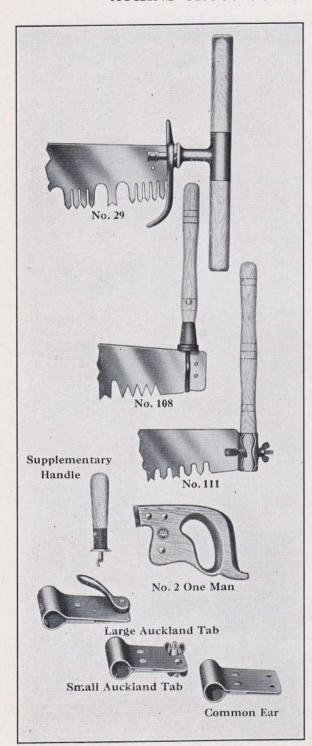
8 inches long irrespective of loops. Destined to be the most popular handle in the world. Short and "stocky." High tensile strength, cold drawn steel loop extends throughout handle and screws into pressed steel ferrule on end. Capacity 23/4 to 41/2 inches. Packed 50 pairs in wire-bound box weighing 81 pounds.

Price per pair \$0.90



ATKINS SILVER A STEEL SAWS

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 fastened 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 \$0.40

No. 111

15½ inches long. High class in every particular. Specially selected white, airseasoned 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.

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 carton.

Price.....per dozen \$3.00

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 carton.

Price per dozen \$1.75

TABS

FOR CROSS CUT SAWS

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.

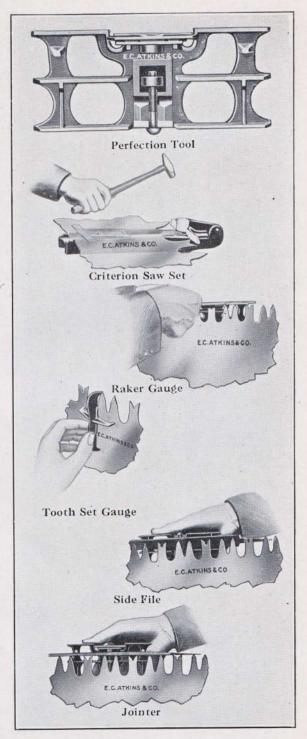
The tool includes a tooth gauge whereby the proper set of the teeth may be measured and either a broad or narrow set given.

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.

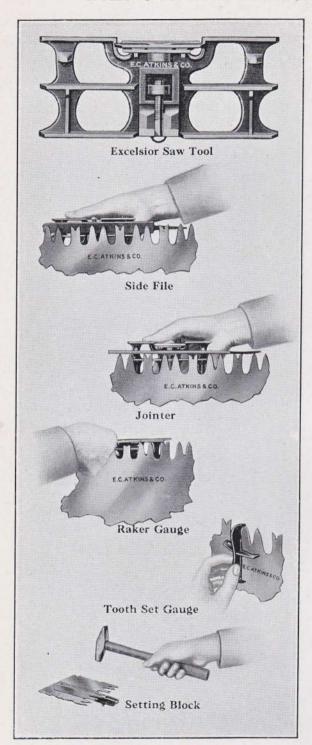
A finely finished setting hammer completes the outfit. This hammer is made of refined cast steel, highly polished, and is fitted to a hardwood handle with a special attachment which prevents the hammer from working loose.

Each set is packed one in a box, accompanied by full instructions for using each of the tools, so as to secure the best results.

Price.....per dozen sets \$15.00 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 re-adjusting 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 packed one complete set in an individual box, nicely labeled for shelf display. Full directions for operating accompany each set.

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 re-fitting One-Man Saws. It is similar to the Excelsior No. 2, excepting that the combination tool is a trifle smaller.

Price, No. 1 per dozen	\$7.00
Price, No. 2 per dozen	6.50
Price, No. 6 per dozen	6.50
Weight, No. 1, pounds per dozen	19
Weight, No. 2, pounds per dozen	19



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 172 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.

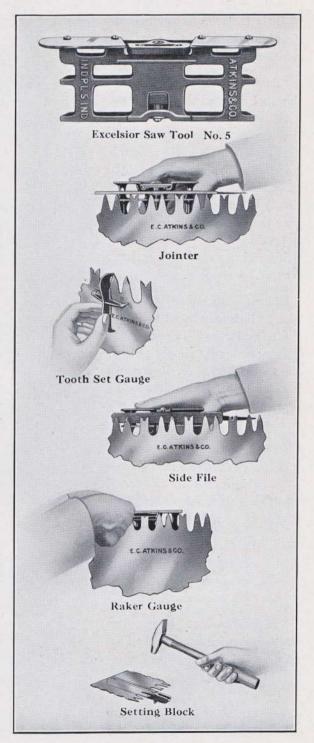
There is also a tooth gauge, one point of which being slightly longer than the other enables the user to gauge either a heavy or light set.

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 anvil 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 packed one complete set in a box, with an attractive label, and each box contains full instructions for operating.

Price per doze	en \$8.50
Weight, pounds eac	ch 1 9 1 6



ATKINS SILVER A STEEL SAWS

ATKINS DEXTER SAW TOOL

This tool consists of a combination jointer, raker gauge and side file.

To properly fit a cross cut saw the tool is used in connection with an 8-inch mill bastard file. For use as a jointer the file is held firmly in place by a thumb screw, which springs it slightly to suit the curve of the saw. By simply passing the file lightly over the points of the teeth until it touches the shortest tooth, a uniform length will have been secured.

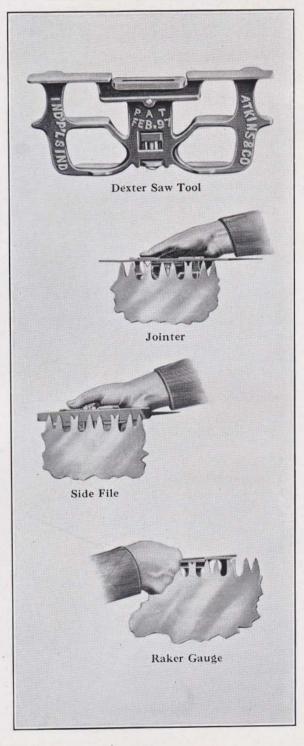
There is an adjustable gauge plate, which may be set to adjust the raker for hard or soft wood. This operates by simply placing the tooth gauge over the clearer or raker teeth, as indicated in the illustration and filing them down to the gauge.

The tool may also be used as a side file to remove any uneven edge or burr left in filing and also to even the set perfectly.

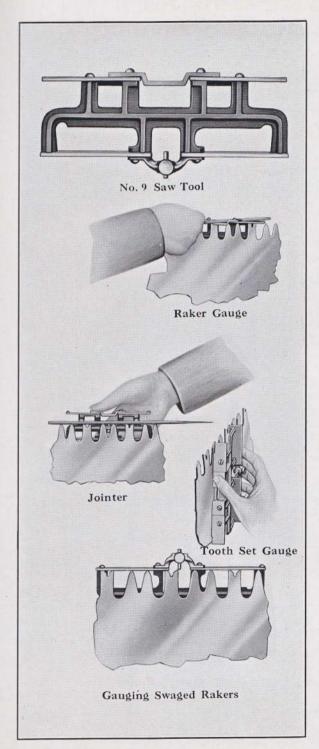
For setting we recommend the Atkins Criterion Saw Set shown on another page, which should be used in connection with a light hammer.

Packed one only in a box handsomely labeled, accompanied by full directions for use.

Priceper dozen	\$4.00
Weight, pounds per dozen	43/4



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 1\% 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 thumb 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.

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 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.

Packed one only in a handsome shelf box.

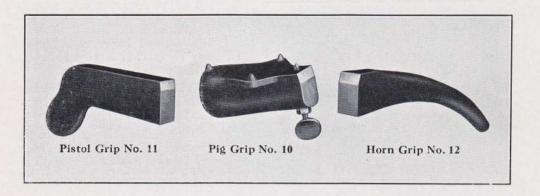
Price......per dozen \$10.00 Weight.....ounces 11

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.

Price per	dozen	\$8.00
Weight		7

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.

Price......per dozen \$7.00

ATKINS PIG GRIP SAW SET, No. 10

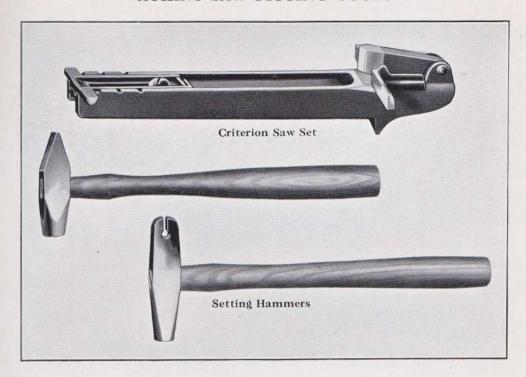
 $4\frac{1}{2}$ inches long, $1\frac{1}{2}$ inches thick. Fitted with a gauge, the length of which is regulated by a thumb screw and lock nut. The exact degree of set may thus be measured. Packed one in a box. Weight each, 2 pounds.

ATKINS HORN GRIP SAW SET, No. 12

 $6\frac{1}{4}$ inches long, $\frac{7}{8}$ inch thick, anvil $\frac{1}{2}$ inches. Very easy on the hand. Packed one-half dozen in a box. Weight, 20 ounces.

Price per dozen \$7.00

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.

Priceper dozen	\$8.00
Weight, per dozen	

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.

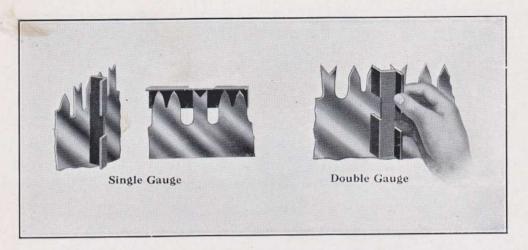
The handles are made of a good quality of seasoned hardwood, and are fastened to the head by a special wedge arrangement which makes them not liable to become loose.

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.

Number	1	2	3
Priceper dozen	\$3.50	\$3.50	\$6.00
Weight, per dozenpounds		8	8

ATKINS SILVER STEEL SAWS

ATKINS SAW FITTING TOOLS



ATKINS TOOTH AND RAKER GAUGE

This very handly 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.

Price, single gauge	\$0.80 1.20
Weight, single gauge, per dozenpounds	$2\frac{3}{16}$
Weight, double gauge, per dozenpounds	3

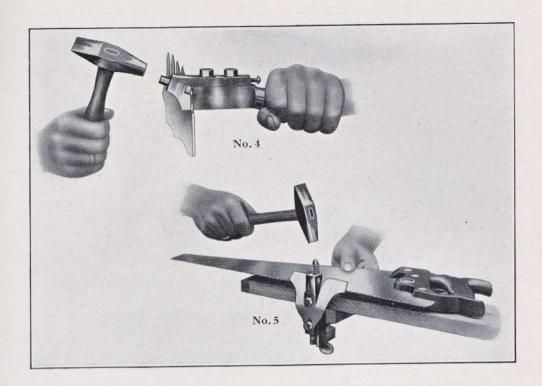
ATKINS CHANNELING SET BLOCK

This is the set block that is used in connection with Excelsior No. 1 Saw Tool.

Price, regular quality chilled iron	\$3.00
Deies ald style	0.00
Price, old style	.60



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.

ATKINS AAA SAW SET, No. 5

FOR HAND SAWS

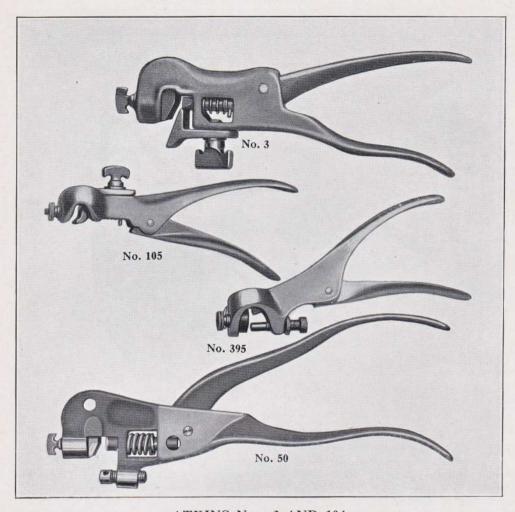
The above device operates on the same principle as the No. 4, the amount of set being regulated by moving the guide on the front, up or down. Its advantages are obvious, and it not only prevents the breaking of the saw teeth, but assures an absolutely uniform set, avoiding the possibility of setting 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 11/2 pounds. Packed one-half dozen in a box.

Price......per dozen \$18.00

ATKINS SILVER M STEEL SAWS

ATKINS LEVER SAW SETS



ATKINS Nos. 3 AND 104

These sets are specially designed for cross cuts and circulars. 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 cut, M and Champion Tooth.

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

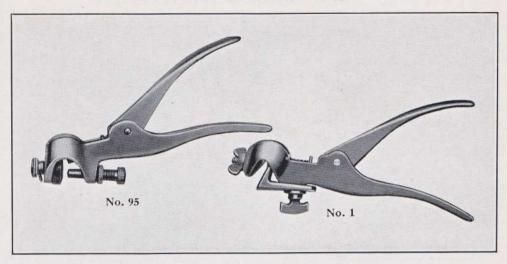
No. 395 revolving anvil with indicator dial. Lever placed below the body of set. Gauge screw has check nut, which prevents it from coming loose. The revolving anvil gives the required bevel and length of all saw teeth from 4 to 16 to the inch. Hardened anvil and plunger. Finely tempered steel spring. Highly polished.

ATKINS No. 50

For saws from 6 to 14 gauge. Strong, accurate and durable.

Dozen	Box	Case	Weight	Price	Dozen	Box	Case	Weight	Price
Nos. 3 and 104 No. 50	1/2	6 12	19 39	\$20.60	No. 105 No. 395	1/2	12	81/2	\$12.00 16.25

ATKINS SAW SETS AND FILERS



ATKINS LEVER SAW SETS

No. 95

For setting hand, 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.

No. 1

For hand, band and jig saws, from the widest, down to one-half inch.

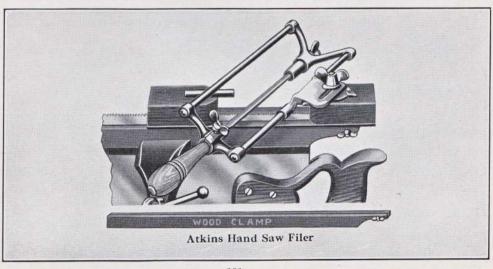
The principle under which this set operates is apparent by referring to the accompanying illustration. A very simple construction, yet most effective. Hardened anvil and plunger. Highly tempered steel spring. Finely polished.

Dozen	Box	Case	Weight	Price
No. 95	1/9	12	9	\$15.60
No. 1	1/2	12	81/2	10.00

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.

Price	\$15.00
Weight, each pounds	3 3/4





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 screw.

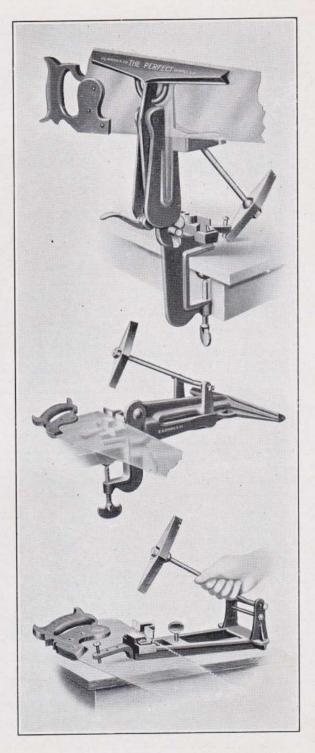
Made of steel, malleable and gray iron castings. All wearing parts are reinforced. Simple, strong, durable and easily operated.

"PERFECT" SAW SET AND VISE COMBINED

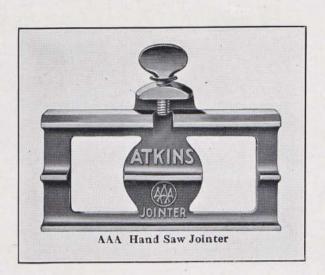
Priceeach	\$6.00
Weight, eachpounds	$8\frac{9}{16}$

"PERFECT" SAW SET

Priceeach	\$3.50
Weight, eachpounds	25/8



ATKINS "AAA" HAND SAW JOINTER



Atkins "AAA" Hand 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.

Atkins "AAA" Hand Saw Jointer is a specialty which should be displayed and sold in every hardware store in connection with other Saw Fitting Tools.

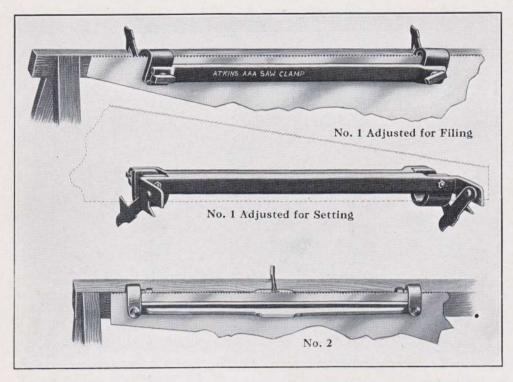
It is absolutely necessary that Saw Teeth be properly jointed before filing, in order to secure uniformity in the length and shape of the teeth.

Taking into consideration the trivial cost of Atkins "AAA" Hand Saw Jointer, no mechanic who has occasion to refit saws can afford to be without one.

The Jointer is $3\frac{1}{2}$ inches wide, $2\frac{7}{8}$ inches high and $\frac{5}{8}$ of an inch thick. It is made of fine malleable iron, nicely finished, japanned.

Priceper dozen	\$1.50
Weight, per dozen	

ATKINS "AAA" HAND SAW CLAMPS



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.

ATKINS "AAA" SAW CLAMP, No. 1

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. Weight about 21 pounds per dozen.

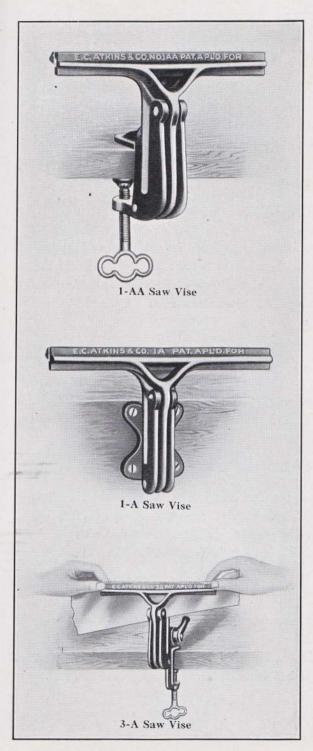
ATKINS "AAA" SAW CLAMP, No. 2

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.

Fasten the saw into position by lifting the front jaw by use of the flange at the center. Grasp the saw on the back, place it in position and bear downward, which causes the eccentric to clamp the saw firmly at all points between the connecting arches. The saw is removed by a slight upward pressure.

Price, No. 1, japan finish per dozen Price, No. 1, nickel finish per dozen Price, No. 2, nickel finish per dozen	10.00
Weight, per dozenpounds	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 all 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-AA per dozen	\$16.00
Price, No. 1-A per dozen	13.00
Price, No. 2-A per dozen	15.00
Price, No. 3-A per dozen	18.00
Weight, No. 1-AA, each pounds	53/4
Weight, No. 1-A, each pounds	51/4
Weight, No. 2-A, each pounds	
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

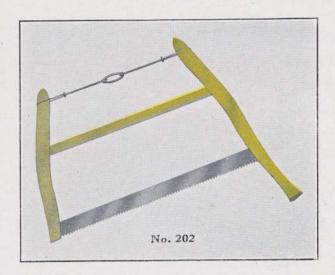
The illustrations show the most popular combinations, but an almost endless variety may be had by combining other styles of Frames and Blades. The numbers of Wood Saws Complete are obtained by combining the Frame number with the Blade number—thus: Frame No. 500 with Blade No. 8 is No. 508 Wood Saw Complete.

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.

(AAA)

ATKINS WOOD SAWS COMPLETE



No. 202

Combination of

No. 200 Frame

Atkins O. K., natural finish, varnished.

No. 2 Blade

Specifications on page 192.

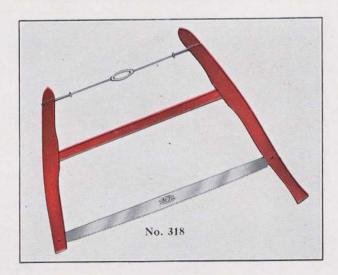
Clipper Rod

Price, complete dozen \$8.05

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.

Number	201	202	204	206	208	209	211	214	216
Price per dozen	\$12.55	\$ 8.05	\$13.25	\$13.55	\$12.55	\$13.25	\$15.25	\$11.25	\$13.25
Number	217 \$ 9.55	218 \$ 8.95	221 \$14.55	223 \$10.25	224 \$13.25	225 \$13.25		227 \$10.25	231 \$ 8.05
Number	236 \$ 8.35	237 \$10.25	238 \$ 7.45	240 \$14.25	242 \$ 8.75			249 \$10.25	250 \$10.25

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.



No. 318

Combination of

No. 300 Frame

Atkins O. K., painted red and varnished.

No. 18 Blade

Specifications on page 192.

Clipper Rod

Price, complete dozen \$9.55

Any blade listed on pages 192 and 193 furnished with this frame at the following prices.

Number	301	302	304	306	308	309	311	314	316
Price per dozen	\$13.15	\$ 8.65	\$13.85	\$14.15	\$13.15	\$13.85	\$15.85	\$11.85	\$13.85
Number	317	318	321 \$15.15	323	324 \$13.85	325 \$13.85	326 \$10.15	327 \$10.85	331 \$ 8.65
Number	336	337	338	340	342	343	345	349	350
Price per dozen	\$ 8.95	\$10.85	\$ 8.05	\$14.85	\$ 9.35	\$ 9.35	\$ 8.45	\$10.85	\$10.88



ATKINS WOOD SAWS COMPLETE

No. 514

Combination of

No. 500 Frame

Atkins Extra, double brace, single riveted; painted vermilion and varnished.

No. 14 Blade

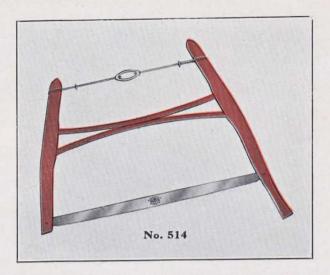
Specifications on page 192.

Jumbo Rod

Price, complete . . . dozen \$12.90

No. N500 Frame, same style as No. 500. Made from selected white maple, natural finish and varnished; same price as No. 500.

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.



Number	501	502	504	506	508	509	511	514	516
	\$14.20	\$ 9.70	\$14.90	\$15.20	\$14.20	\$14.90	\$16.90	\$12.90	\$14.90
Number	517	518	521	523	524	525	526	527	531
	\$11.20	\$10.60	\$16.20	\$11.90	\$14.90	\$14.90	\$11.20	\$11.90	\$ 9.70
Number	536	537	538	540	542	543	545	549	550
	\$10.00	\$11.90	\$ 9.10	\$15.90	\$10.40	\$10.40	\$ 9.50	\$11.90	\$11.90

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.

No. 623

Combination of

No. 600 Frame

Double brace, single riveted; painted red and varnished.

No. 23 Blade

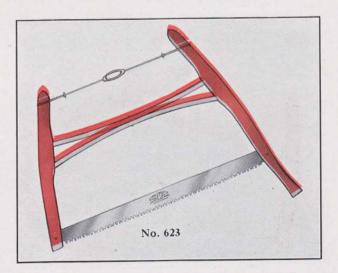
Specifications on page 192.

Clipper Rod

Price, complete dozen \$11.10

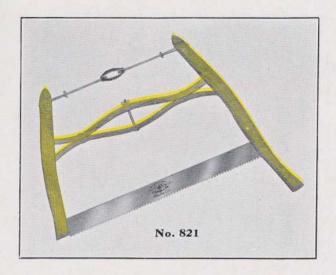
No. N600 Frame, same style as No. 600. Natural finish and varnished; same price as No. 600.

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.



Number	601	602	604	606	608	609	611	614	616
Price per dozen	\$13.40	\$ 8.90	\$14.10	\$14.40	\$13.40	\$14.10	\$16.10	\$12.10	\$14.10
Number	617 \$10.40	618 \$ 9.80	621 \$15.40	623 \$11.10	624 \$14.10	625 \$14.10	626 \$10.40	627 \$11.10	\$ 8.90
Number	636	637	638	640	642	643	645	649	650
Price per dozen	\$ 9.20	\$11.10	\$ 8.30	\$15.10	\$ 9.60	\$ 9.60	\$ 8.70	\$11.10	\$11,10

ATKINS WOOD SAWS COMPLETE



No. 821

Combination of

No. 800 Frame

Patented "Cantilever" design. Selected maple, natural finish and varnished.

No. 21 Blade

Specifications on page 192.

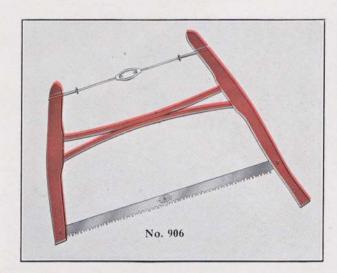
Jumbo Rod

Price, complete . . . dozen \$16.65

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.

Number	801	802	804	806	808	809	811	814	816
	\$14.65	\$10.15	\$15.35	\$15.65	\$14.65	\$15.35	\$17.35	\$13.35	\$15.35
Number		818	821	823	824	825	826	827	831
Price per dozen		\$11.05	\$16.65	\$12.35	\$15.35	\$15.35	\$11.65	\$12.35	\$10.15
Number	836	837	838	840	842	843	845	849	850
Price per dozen	\$10.45	\$12.35	\$ 9.55	\$16.35	\$10.85	\$10.85	\$ 9.95	\$12.35	\$12.35

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.



No. 906

Combination of

No. 900 Frame

Double brace, double riveted; painted vermilion and varnished.

No. 6 Blade

Specifications on page 192.

Jumbo Rod

Price, complete dozen \$15.45

No. N900 (Natural), No. B900 (Blue), No. W900 (Walnut), No. M900 (Mahogany) furnished to order at same prices as No. 900.

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.

Number	901	902	904	906	908	909	911	914	916
Price per dozen	\$14.45	\$ 9.95	\$15.15	\$15.45	\$14.45	\$15.15	\$17.15	\$15.15	\$15.15
Number	917	918	921	923	924	925	926	927	931
Price per dozen	\$11.45	\$10.85	\$16.45	\$12.15	\$15.15	\$15.15	\$11.45	\$12.15	\$ 9.95
Number	936	937	938	940	942	943	945	949	950
Price per dozen	\$10.25	\$12.15	\$ 9.35	\$16.15	\$10.65	\$10.65	\$ 9.75	\$12.15	\$12.15

ATKINS SILVER W STEEL SAWS

ATKINS WOOD SAWS COMPLETE

No. 1240

Combination of

No. 1200 Frame

"Happy Medium" pattern, "V" brace; painted vermilion and varnished.

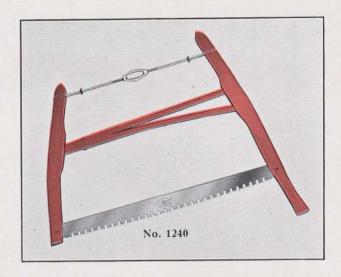
No. 40 Blade

Specifications on page 193.

Jumbo Rod

Price, complete . . . dozen \$16.15

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.



Number	1201	1202	1204	1206	1208	1209	1211	1214	1216
Price per dozen	\$14.45	\$ 9.95	\$15.15	\$15.45	\$14.45	\$15.15	\$17.15	\$15.15	\$15.15
Number	1217	1218	1221	1223	1224	1225		1227	1231
Price per dozen	\$11.45	\$10.85	\$16.45	\$12.15	\$15.15	\$15.15		\$12.15	\$ 9.95
Number	1236	1237	1238	1240	1242	1243	1245 $$9.75$	1249	1250
Price per dozen	\$10.25	\$12.15	\$ 9.35	\$16.15	\$10.65	\$10.65		\$12.15	\$12.15

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.

No. 1427

Combination of

No. 1400 Frame

Selected second-growth hickory.

Double brace, double riveted;
natural finish and varnished.

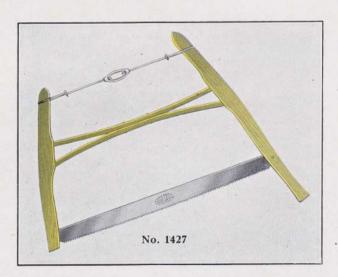
No. 27 Blade

Specifications on page 193.

Jumbo Rod

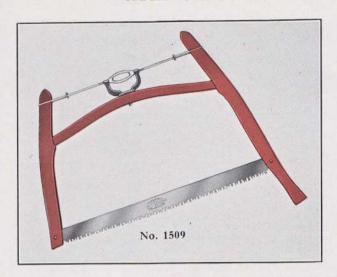
Price, complete dozen \$12.80

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.



Number	1401	1402	1404	1406	1408	1409	1411	1414	1416
Price per dozen	\$15.10	\$10.60	\$15.80	\$16.10	\$15.10	\$15.80	\$17.80	\$15.80	\$15.80
Number	1417	1418	1421	1423	1424	1425	1426	1427	1431
Price per dozen	\$12.10	\$11.50	\$17.10	\$12.80	\$15.80	\$15.80	\$12.10	\$12.80	\$10.60
Number	1436	1437	1438	1440	1442	1443	1445	1449	1450
Price per dozen	\$10.90	\$12.80	\$10.00	\$16.80	\$11.30	\$11.30	\$10.40	\$12.80	\$12.80

ATKINS WOOD SAWS COMPLETE



No. 1509

Combination of

No. 1500 Frame

Special patented high arm frame, for extra large sticks. Selected hard maple, painted vermilion and varnished.

No. 9 Blade

Specifications on page 192.

Jumbo Rod

Price, complete . . . dozen \$17.05

Any blade listed on pages 192 and 193 furnished with this frame at the following list prices.

Number	1501	1502	1504	1506	1508	1509	1511	1514	151
Price per dozen	\$16.35	\$11.85	\$17.05	\$17.35	\$16.35	\$17.05	\$19.05	\$17.05	\$17.05
Number	1517	1518	1521	1523	1524	1525	1526	1527	1531
Price per dozen	\$13.35	\$12.75	\$18.35	\$14.05	\$17.05	\$17.05	\$13.35	\$14.05	\$11.85
Number	1536	1537	1538	1540	1542	1543	1545	1549	1550
Price per dozen	\$12.15	\$14.05	\$11.25	\$18.05	\$12.55	\$12.55	\$11.65	\$14.05	\$14.05

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.

No. 1600

Same design as No. 1500, but made from Selected Hickory and finished either a malachite green or natural, varnished.

Number	1601	1602	1604	1606	1608	1609	1611	1614	1616
Price per dozen	\$17.20	\$12.70	\$17.90	\$18.20	\$17.20	\$17.90	\$19.90	\$17.90	\$17.90
Number	1617	1618	1621	1623	1624	1625	1626	1627	1631
Price per dozen	\$14.20	\$13.60	\$19.20	\$14.90	\$17.90	\$17.90	\$14.20	\$14.90	\$12.70
Number	1636	1637	1638	1640	1642	1643	1645	1649	1650
Price per dozen	\$13.00	\$14.90	\$12.10	\$18.90	\$13.40	\$13.40	\$12.50	\$14.90	\$14.90

Approximate weight per dozen, 56 pounds. Packed half dozen in a case unassembled.

WOOD SAW FRAMES

No.	Description	No.	Description
300	Atkins O. K., not painted Atkins O. K., painted red tkins Extra, single rivet, vermilion ood Brace, single rivet, painted red Cantilever, natural finish varnished	1200 1400 1500	Atkins Extra, double rivet, vermilion Happy Medium, V brace, vermilion Old Hickory, natural finish varnished Atkins High Brace, vermilion Atkins High Brace, mission green

Wood saw parts when ordered separate will be packed in bulk.

RODS FOR WOOD SAW FRAMES

22-inch Clipper Rods, plainper gross	\$10.00
22-inch Clipper Rods, tinnedper gross	12.50
22-inch Clipper Rods, waterproof per gross	12.50
22-inch Jumbo Rods, tinned waterproof per gross	18.00
22-inch Jumbo Rods, waterproof	18.00

ATKINS WOOD SAW BLADES

ATKINS SILVER STEEL — EXTRA THIN BACK EXTRA POLISH — SPECIAL HAND FILED

No.	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch	List per Dozen 32-inch
21	Plain	Straight	23/8	Straw	\$11.00	\$12.10
11	Tuttle	Breasted	23/8	Straw	11.70	12.85
6	Tuttle	Straight	$1\frac{3}{4}$	Straw	10.00	11.00

The finest blades made. See illustrations on pages 193 and 194.

ATKINS SILVER STEEL — SPECIAL THIN BACK FINE POLISH — HAND FILED

No.	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch	List per Dozen 32-inch
1	Plain	Straight	23/8	Bright	\$9.00	\$ 9.90
8	Plain	Breasted	23/8	Bright	9.00	9.90
4	Tuttle	Straight	23/8	Bright	9.70	10.65
	Tuttle	Breasted	23/8	Bright	9.70	10.65
14		Breasted	13/4	Blued	7.70	8.45

SHEFFIELD SAW WORKS-SPECIAL STEEL THIN BACK

No.	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch	List per Dozen 32-inch
26	Plain	Straight	21/4	Bright	\$6.00	\$6.60
	Plain	Breasted	21/4	Bright	6.00	6.60
	Tuttle	Straight	21/4	Bright	6.70	7.35
	Tuttle	Breasted	21/4	Bright	6.70	7.35
	Plain	Breasted	13/4	Blued	5.40	5.95
	Plain	Straight	11/4	Blued	4.80	5.30

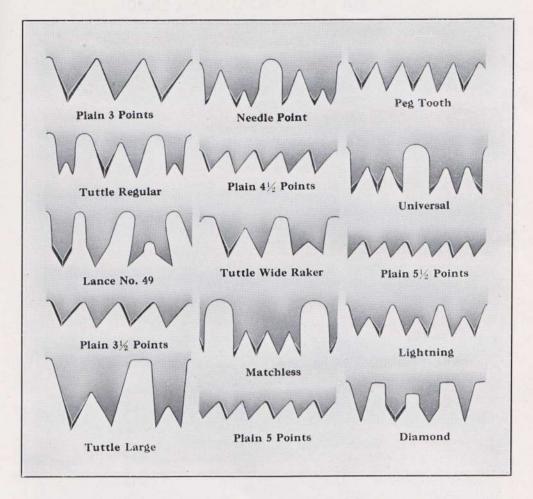
CAST STEEL

No.	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch	List per Dozen 32-inch
2	Plain	Straight	2	Bright	\$4.50	\$4.95
31	The state of the s	Breasted	2 .	Bright	4.50	4.95
	Tuttle	Straight	2	Bright	5.20	5.70
	Tuttle	Breasted	2	Bright	5.20	5.70
	Plain	Breasted	13/4	Blued	4.30	4.75
	Plain	Straight	11/4	Blued	3.90	4.30

ATKINS WOOD SAW BLADES

STYLES OF TEETH USED IN ATKINS WOOD SAW BLADES

CUTS SHOW ACTUAL SIZE OF TEETH

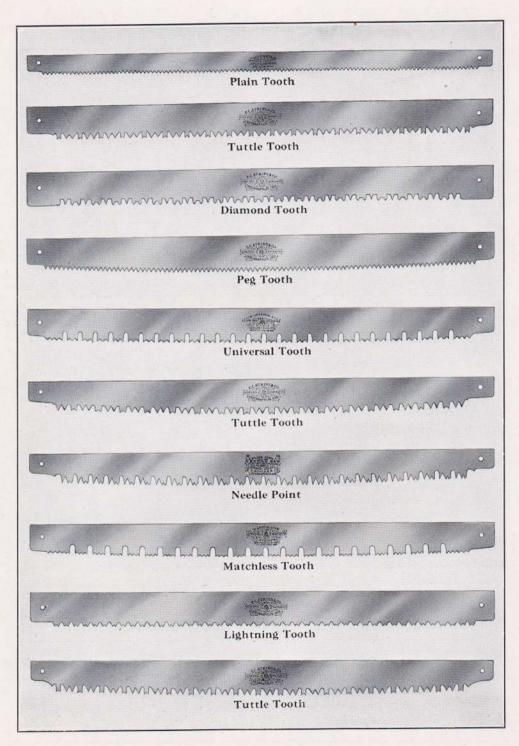


Add 70 cents per dozen to the list of Plain Tooth of the corresponding specifications for all styles of teeth shown in the cuts above, except for $4\frac{1}{2}$, 5, and $5\frac{1}{2}$ Point Plain Tooth.

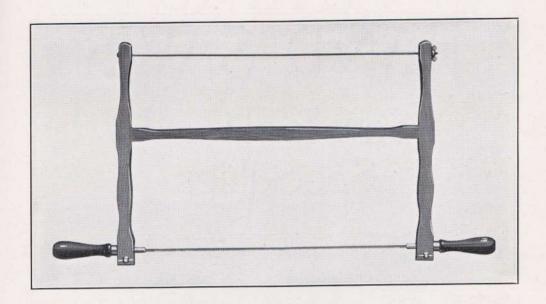
No.	Style of Tooth	Shape	Width Inches	Finish	List Price 30-Inch per Dozen	List Price 32-Inch per Dozen
40	Universal	Straight	1½	Bright	\$11.60	\$12.75
16	Needle-Point	Breasted	23/8	Bright	9.50	10.65
24	Matchless	Breasted	23/8	Bright	9.50	10.65
	Lightning	Straight	23/8	Bright	9.50	10.65
	Peg	Breasted	21/4	Bright	6.50	7.35
	Large Tuttle	Straight	21/4	Bright	6.50	7.35
	Lance	Breasted	21/4	Bright	6.70	7.35



ATKINS CELEBRATED WOOD SAW BLADES



ATKINS "AAA" WEB SAW FRAME



A finely finished, high-grade frame.

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 $1\frac{1}{2}$ inches by $\frac{3}{8}$ 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.

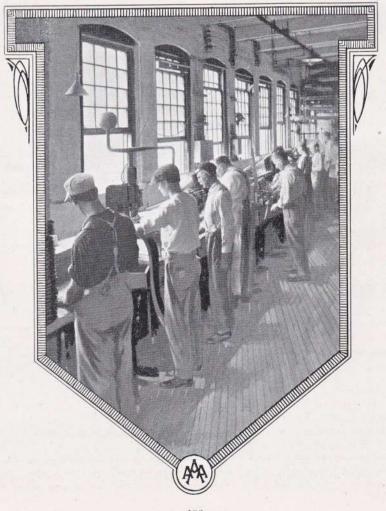
Packed one only in a pasteboard box, knocked down.

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



SILVER STEEL

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.

GRINDING

The machinery employed in grinding all Silver Steel Saws is of our own patented construction. The process is called "Taper Grinding."

The blades are ground of even thickness along the entire toothed edge and are the same gauge on the back at the butt and gradually taper towards the point on the back.

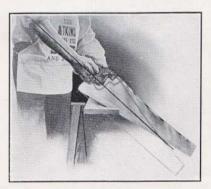
This renders the blade stiff, but gives it clearance, permitting it to drop readily in the cut without binding and to run free and easy with but very little set.

SMITHING

All Silver Steel Saws are smithed by hand. This is a most important process, not apparent 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. 52, 66, 51, 67, 64, 54 and 55 are made with the old style straight across handle. Nos. 400, 401, 68, 69, 53 and 65 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. 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

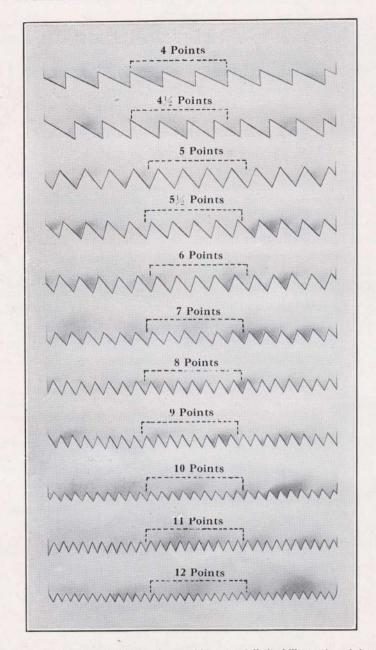
All Atkins Silver Steel Hand, Rip and Panel Saws are packed in a moisture-proof bag and then placed in cardboard boxes. This renders them less liable to damage and insures a handsome uniform shelf package.

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.

NUMBER OF POINTS PER INCH IN SAWS

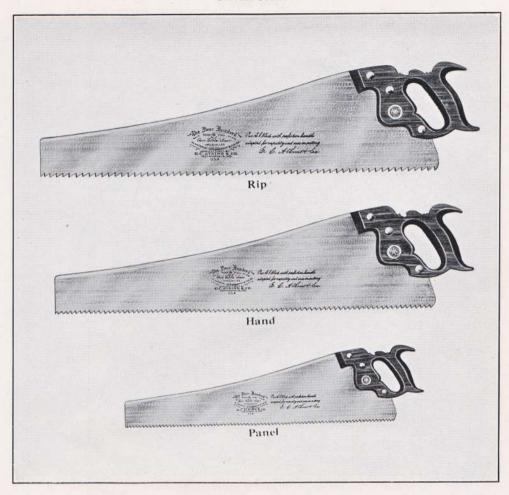


To prevent error in ordering, we are showing on this page a full-sized illustration of the various points of saw teeth from four to twelve.

SPECIAL NOTICE

Please note particularly that the term "point per inch" in all types of 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 are really always One Less Tooth Per Inch Than Points.



ATKINS No. 400 HAND SAW

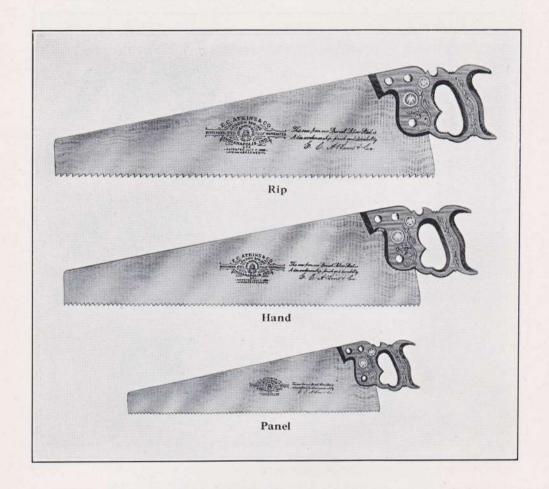
This is the finest hand saw that has ever been manufactured. A beautifully proportioned tool. Creates a decided impression wherever seen. The blade is of genuine Atkins Silver Steel which is given an extremely hard tough temper, insuring the greatest life to the sharp, keen cutting teeth. It is skew back, Atkins Taper Ground and will, therefore, run free and easy as the blade has ample clearance and requires very little set. The handle is of solid rosewood, piano finish, Perfection Pattern. Fastened to the blade by three nickel-plated screws and a medallion. Each saw is enclosed in a moisture-proof bag to prevent rusting. Packed one in a handsome box covered with highly finished gloss paper and beautifully labelled. The genuine is etched "The Four Hundred" "E. C. Atkins & Co."

Length Nos. 400 and 401inches	16	18	20	22	24	26	28	30
Price, Nos. 400 and 401per dozen	\$33.00	\$36.00	\$39.00	\$42.00	\$45.00	\$48.00	\$55.00	\$61.00
Width at butt, No. 400 inches				57/8		7	73/8	
Width at butt, No. 401 inches				57/8		7	71/2	0.000
Width at point, No. 400inches				21/4		23/4	27/8	
Width at point, No. 401 inches	+ + + + +			23/8	***********	25/8	3	
Weight, No. 400, per dozenpounds	19	213/4	25	28	311/2	39	43	48
Weight, No. 401, per doz., unpacked pounds	141/2	161/2	181/2	211/2	251/4	27	311/4	35

Our No. 401 is the same as No. 400, except it is made with a Straight Back instead of Skew Back.



SILVER STEEL



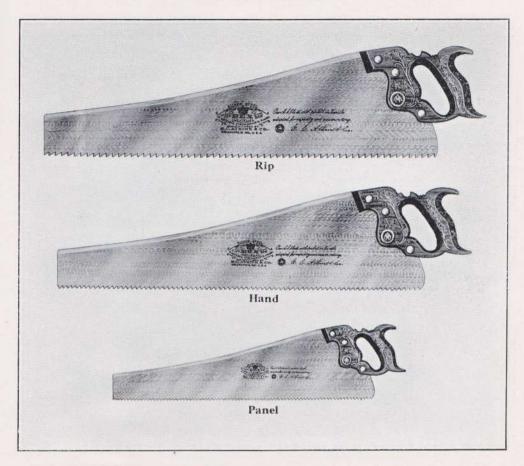
ATKINS No. 64 HAND SAW

An old and popular pattern. Full width heavy blade, particularly adapted for all kinds of carpentry work where fast and accurate cutting is required. London spring temper. Silver nickel steel. Atkins Damaskeen Finish. Taper Ground. Straight back.

The handle is of thoroughly seasoned applewood. Old Style, Straight Across Pattern. Atkins exclusively Embossing. Varnished all over and finely polished. Fastened to the blade by three brass screws and brass medallion. Packed one only in moisture-proof bag, one-third dozen in a box.

Lengthinches	16	18	20	22	24	26	28	30	32
Priceper dozen	\$18.75	\$21.00	\$23.50	\$26.00	\$28.50	\$30.00	\$35.00	\$41.00	\$47.50
Width at butt inches				6		71/4	71/2		14/1/4/14/14
Width at pointinches				23/8		23/4	3		
Weight, per doz., unpacked, pounds	12	14	16	191/2	2134	261/4	291/2	333/4	37

SILVER STEEL



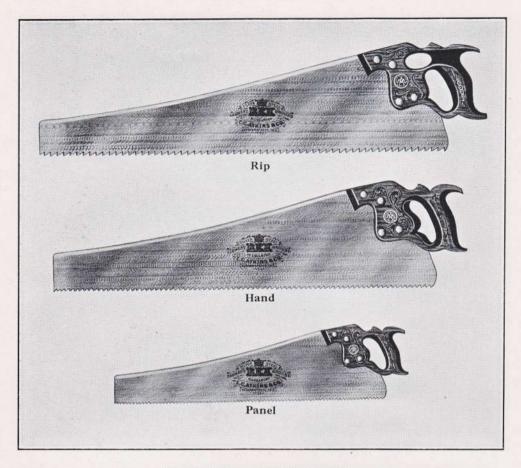
ATKINS No. 68 HAND SAW

Next to Atkins No. 400, this is the finest skew back hand saw made. It is similar in general construction to No. 69, which is listed here, excepting that it has a skew back, while the No. 69 is straight back. The blade is of Atkins Silver Steel, very finely tempered. Taper Ground, and given the Atkins Mirror or Rex finish. Ribbon back.

The handle is of thoroughly seasoned, carefully selected applewood, Perfection Pattern with the Atkins exclusive Embossing. Varnished all over and highly polished. Fastened to the blade by three nickeled screws and a nickeled medallion. Packed one in moisture-proof bag, one-third dozen in a box.

Length, No. 68inches	16	18	20	22	24	26	28	30	32
Price per dozen Width at butt inches Width at point inches				57/8	\$25.50	7	\$31.50 73/8 27/8	11111	
Weight, per dozenpounds		$13\frac{1}{4}$	$15\frac{1}{4}$	173/4	$19\frac{1}{2}$	243/4	291/2	$30\frac{3}{4}$	323/4
Length, No. 69 inches	16	18	20	22	24	26	28	30	32
Price per dozen Width at butt inches Width at point inches		*141414141414	#1 #1 #1 #1 #1 #1 #1 #	\$22.50 57/8 23/8	\$24.50		$\begin{array}{c} \$30.50 \\ -7\frac{1}{2} \\ 3 \end{array}$		\$41.50
Weight, per dozenpounds		121/2	141/2	18	191/2	27	281/2	31	33

SILVER STEEL



ATKINS No. 66 HAND SAW

This is a finely proportioned saw. It is given the Atkins exclusive Mirror or Rex Finish. The blade is of Atkins Silver Steel and is Taper Ground by Atkins exclusive process. Skew back. Ribbon edge.

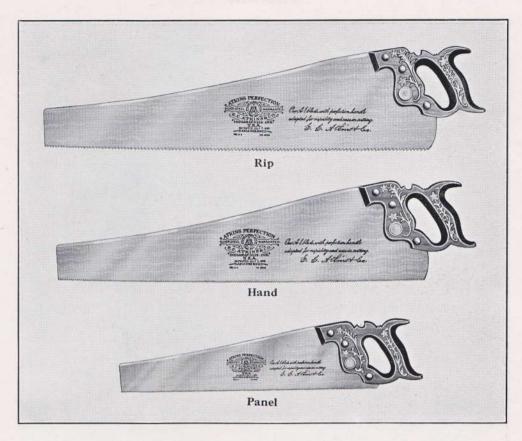
The handle is of genuine applewood. Old style pattern. Varnished all over. Handsomely Embossed. Highly polished. Fastened to the blade by four nickel-plated screws and a nickel-plated medallion. Packed in moisture-proof bag, one-third dozen in a box.

No. 67, listed below, is similar to No. 66, excepting that it is straight back.

Length No. 66inches	16	18	20	22	24	26	28	30	32
Priceper dozen	\$17.00	\$19.00	\$21.00	\$23.00	\$25.00	\$27.00	\$31.00	\$36.00	\$42.00
Width of buttinches Width at pointinches						7 23/4	73/8 27/8		
Weight, per dozen pounds	12	13	14	17	$19\frac{1}{2}$	25	291/4	33	38
Length, No. 67inches	16	18	20	22	24	26	28	30	32
Price per dozen	\$16.00	\$18.00	\$20.00	\$22.00	\$24.00	\$26.00	\$30.00	\$35.00	\$41.00
Width at butt inches							71/2		
Width at pointinches		4.44.444	1979 4 9 9 9 9	2		23/4	27/8		
Weight, per dozen pounds	111/2	13	141/4	171/2	191/2	25	291/2	33	38

These saws, 28 inches and over, are furnished with thumb hole in handle, in Rip but not Hand.

SILVER STEEL



ATKINS No. 53 HAND SAW

Atkins No. 53 Hand Saw embodies all the distinctive Atkins characteristics.

It is widely known, wherever the finest saws are used.

The blade is of Atkins Silver Steel, scientifically hardened and tempered, Damaskeen Finish. Taper Ground. Skew back. Ribbon edge.

The handle is of genuine applewood, Perfection Pattern, attractively Embossed. Varnished all over. Highly polished. Fastened to the blade by three brass screws and medallion. Packed in moisture-proof bag, one-third dozen in a box.

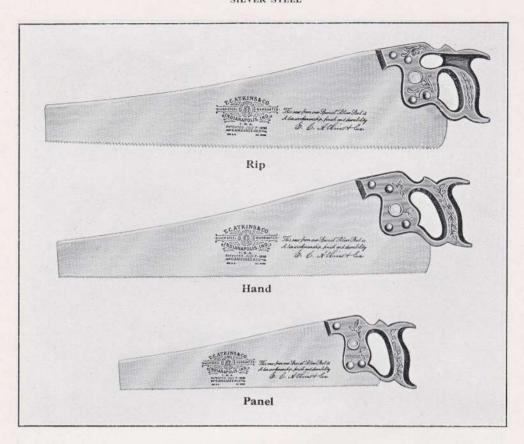
The genuine saw has the name "E. C. ATKINS & CO." and our AAA trade mark plainly etched on the blade.

The No. 65 on page 205, is similar to No. 53, excepting straight back.

Lengthinches	16	18	20	22	24	26	28	30
Priceper dozen	\$16.75	\$18.50	\$20.50	\$22.50	\$24.50	\$25.50	\$28.75	\$32.50
Width at buttinches				57/8		7	73/8	
Width at pointinches				21/4	*****	23/4	27/8	
Weight, per dozenpounds	123/4	131/4	151/4	173/4	191/2	243/4	293/4	31

ATKINS SILVER A STEEL SAWS

ATKINS HAND, PANEL AND RIP SAWS



ATKINS No. 51 HAND SAW

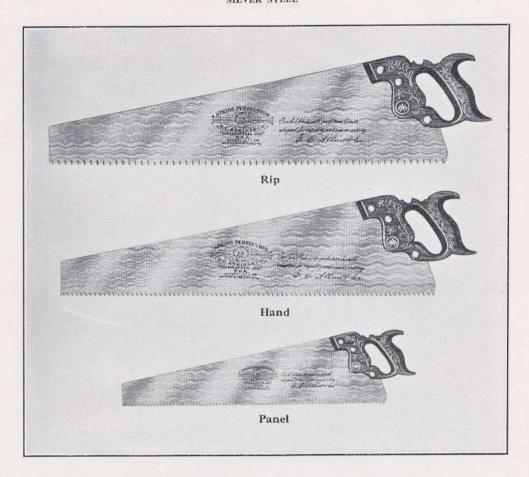
A very popular pattern. Strictly high grade. Designed for a general purpose saw. The Atkins scientific construction throughout. The blade is of genuine Atkins Silver Steel and the teeth will, therefore, hold their sharp cutting edge remarkably. Skew back. Atkins Patent Taper Ground. This insures rapid, accurate cutting, Hand Smithed, Damaskeen Finish. Ribbon back.

The handles are made of genuine applewood, thoroughly seasoned, to prevent shrinking. Old style straight across pattern, finished with Atkins exclusive Embossing. Varnished all over. Polished. Fastened to the blade by four brass screws and a brass medallion. Each saw is enclosed in a moisture-proof bag to prevent rusting. Packed one-third dozen in a box.

The No. 51 is supplied with thumb hole in handle in lengths of 28 inches and over.

Lengthinches	16	18	20	22	24	26	28	30	32
Priceper dozen	\$16.00	\$17.75	\$19.50	\$21.75	\$23.50	\$24.50	\$27.75	\$31.00	\$35.00
Width at butt inches Width at point inches				57/8		7	73/8		
Weight, per dozenpounds			$16\frac{1}{2}$	193/4	221/4	273/4	293/4	33	38





ATKINS No. 65 HAND SAW

This is the companion saw to No. 53 illustrated on page 203, and is similar excepting 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.

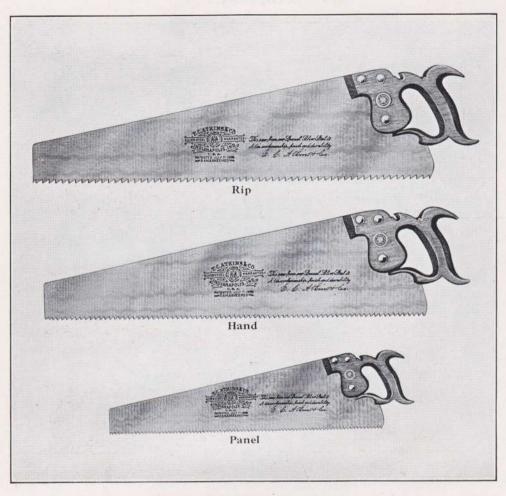
The handle is the Atkins Perfection Pattern. Applewood, thoroughly seasoned, varnished all over, finely finished. The Atkins exclusive Embossing instead of carving, gives it a beautiful appearance. Fastened to the handle by three brass screws and a medallion. Packed one only in moisture-proof bag, one-third dozen in box.

Lengthinches	16	18	20	22	24	26	28	30
Priceper dozen	\$16.00	\$17.50	\$19.50	\$21.00	\$23.00	\$24.50	\$28.75	\$32.50
Width at buttinches							$7\frac{1}{2}$	
Width at pointinches					1.000000	23/4	27/8	*****
Weight, per dozenpounds	121/2	141/4	16	$19\frac{3}{4}$	22	$26\frac{3}{4}$	$29\frac{1}{2}$	$31\frac{3}{4}$

ATKINS SILVER A STEEL SAWS

ATKINS HAND, PANEL AND RIP SAWS

SILVER STEEL



ATKINS No. 54 HAND SAW

An extremely fine popular price saw. The blade is of Atkins Silver Steel. Straight back. Damaskeen Finish. Taper Ground. Tempered by Atkins exclusive process.

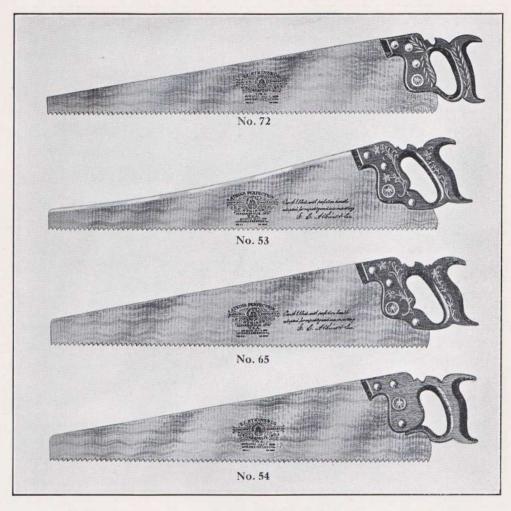
The handle is of thoroughly seasoned, extra fine quality of beech. Smoothly finished. Varnished all over and polished, not carved. Fastened to the blade by three brass screws, and a medallion. Packed in moisture-proof bag to prevent rusting. One-third dozen in a box.

Lengthinches	12	14	16	18	20	22	24	26	28	30	32	34	36
Price per dozen	\$12.00	12.00	13.00	14.00	16.00	18.00	19.00	20.00	23.25	27.00	30.25	34.50	38.75
Width at buttinches Width at pointinches													
Width at point inches						23/8		23/4	3				
Weight, per dozen. pounds	91/4	15	113/4	13	$15\frac{1}{2}$	171/2	211/2	261/4	281/2	31	331/4	351/2	38

The No. 55 saw which is not illustrated but listed, is the same as No. 54 except it is furnished with applewood handle instead of beech.

Lengthinches	-16	18	20	22	24	26	28	30
Priceper dozen	\$14.50	\$16.00	\$18.00	\$19.50	\$21.50	\$23.00	\$26.75	\$31.00
Width at buttinches						71/4	71/2	
Width at pointinches				23/8		$2\frac{3}{4}$	3	
Weight, per dozenpounds	12	13	15	191/4	211/4	261/2	29	341/2

SHIP CARPENTERS' SILVER STEEL



No. 72, Narrow Pattern. Silver Steel, Damaskeened, carved apple handle. The 26-inch blades are 5¾ inches wide at the butt, and 1¾ inches wide at the point. Other lengths are of proportionate widths. No. 53, Ship Carpenters. Silver Steel, skew back, Damaskeened, embossed and polished applewood handle, Perfection Pattern.

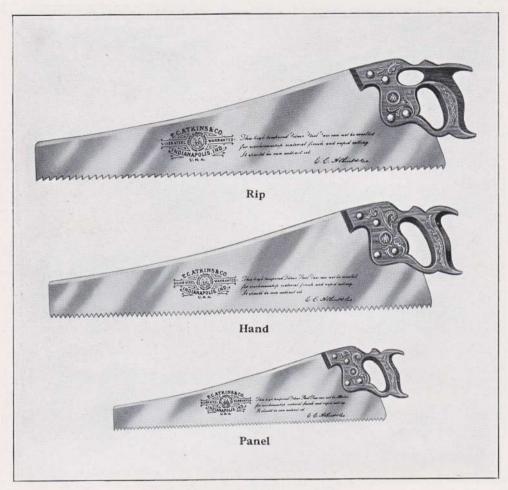
No. 65, Ship Carpenters. Silver Steel, Damaskeened, embossed and polished applewood handle, Perfection Pattern.

No. 54, Ship Carpenters. Silver Steel, Damaskeened, beech handle, polished edge.

Length	inches	14	16	18	20	22	24	26	28	30
Price, No. 72	per dozen		\$16.00	\$17.50	\$19.50	\$21.00	\$23.00	\$24.50	\$28.75	\$32.50
Price, No. 53	per dozen		16.75	18.50	20.50	22.50	24.50	25.50	28.75	
Price, No. 65			16.00	17.50	19.50	21.00	23.00	24.50	28.75	
Price, No. 54			13.00	14.00	16.00	18.00	19.00	20.00	23.25	
Weight, No. 72, per doze	en, pounds		123/4	141/2	161/4	17	18	$19\frac{1}{2}$	231/2	$26\frac{3}{4}$
Weight, No. 53, per doze	en, pounds		12	131/2	15	17	193/4	21	23	
Weight, No. 65, per doze	en, pounds		12	131/2	15	17	193/4	21	23	
Weight, No. 54, per doze	en, pounds	91/4	12	131/2	15	17	193/4	21	23	

Ship point saws will be made in any quality of Atkins brand at their respective prices. Above packed one-third dozen in box.





ATKINS No. 52 HAND SAW

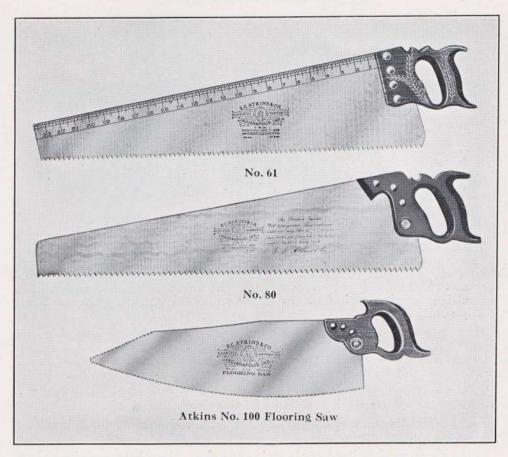
This saw is made for fine cabinet work, where a very smooth cut is essential. It is given an extra fine hard temper, so that the teeth may be sharpened to an extremely keen cutting edge. It is ground with an extra thin taper back, also slightly hollow, which gives it ample clearance. The teeth are sharpened to a needle point. It runs without set. Blade skew back, Atkins Silver Steel, polished finish.

The handle is of thoroughly seasoned air-dried applewood. Old Style, Straight Across Pattern. Atkins original exclusive Embossing. Fastened to the blade by four brass screws and a brass medallion. Sizes under 26 inches, three brass screws and a medallion. Packed one in a moisture-proof bag, one-third dozen in a box.

Lengthinches	16	18	20	22	24	26	28	30
Price	\$24.00 13	143/4	15%	171/4	\$34.00 20	24/4	29%	\$43.75 30½
Width at pointinches				21/4		23/4	27/8	

ATKINS SPECIAL SAWS

SILVER STEEL



ATKINS No. 61 SILVER STEEL HAND SAW

No. 61, Silver Steel, warranted, Damaskeen Finish, combined rule and square, carved apple handle.

	We will furnish this saw when so ordered, with a brass plate on the straight edge of the handle, to preve	and Meter.
1	Length inches	* 26
- 1	Price, with plate per dozen	\$29.00
1	Price, without plateper dozen	26.00
1	Weight per dozen (Packed one-third dozen in box) pounds	26

ATKINS No. 80 FINISHING SAW

Atkins No. 80 Finishing Saw is made for all kinds of fine interior work. It is ground to run without set in seasoned lumber, being much thinner on the back, then gradually tapering to the point. It will be appreciated by the most skilled mechanics, such as Trimmers, Cabinet Makers, Ship Joiners, Shop Hands, etc.

The Saw is not warranted for rough usage.
Made of Silver Steel, 6 ½ inches wide at butt and 2 ½ inches wide at point. Toothed edge is ground to 20 gauge and tapered throughout the blade to 22 gauge at butt and 25 gauge at point on the back. Damaskeen finish.

The Handle is a new pattern, shaped so that the entire blade may be used. Made of applewood, varnished and polished all over. Three brass screws and a brass screw medallion. Made in 26-inch only, and in 10, 11 and 12 point.

Each Saw packed in moisture-proof bag, ½ of a dozen to the box.

Length	inches	26
Pricepe	er dozen	\$24.50
Weight per dozen	pounds	24

ATKINS No. 100 FLOORING SAW

This saw is designed for sawing into flat surfaces, such as floors, without the necessity of boring or using a keyhole

saw or chisel.

It is made of Silver Steel and tempered very hard and tough and will withstand severe usage. It is straight ground, to retain proper stiffness, same gauge on tooth edge and back. The teeth are bevel filed. Blade is 41% inches wide at the butt, 41% inches at the breast. Finely polished and finished.

The handle is thoroughly seasoned, air-dried applewood, varnished and polished all over, fastened to the blade by three brass screws and a medallion.

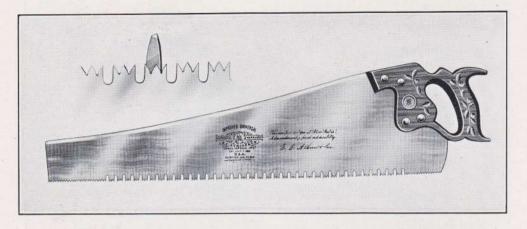
Made in ten point, unless otherwise specified. Packed one-third dozen in a handsome shelf box, attractively labeled. Price, 18 inch,....

Larger sizes, prices on application.

ATKINS SILVER A STEEL SAWS

ATKINS HAND, PANEL AND RIP SAWS

ATKINS IMPROVED UNIVERSAL HAND SAW



This new style of tooth is being supplied on Hand, Cross Cut, One-Man and Wood Saw Blades. The arrangement of cutting teeth, gullets and general construction produces saws which not only cut exceedingly fast, but will operate equally well in either cross cutting, mitreing or ripping. In other words, saws with the Universal Teeth, are Triple Duty Saws.

They are particularly adapted for heavy service and as an all around general utility saw, there is nothing on the market that equals them. In hand saws, they are recommended for farm use and are also desirable for heavy framing purposes, such as concrete work, ship building, car repairing, and in work around mines, etc.

This style of tooth is popular for use on wood saw blades as the cutting quality is not affected through coming in contact with knots or any variation in the grain.

For One-Man Saws, we recommend the Improved Universal Tooth, as it will cut extremely fast at any angle.

In the above, we show hand saw teeth in exact size. The other types of saws have a similarly shaped tooth and vary only as to size.

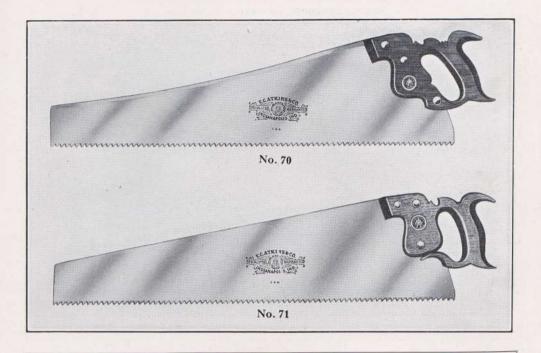
You will note that these teeth are filed with a bevel much the same as in a Diamond Point Cross Cut Saw. Each tooth is beveled on the alternate sides. The middle tooth only is set. The rakers (those with one straight side next to the large gullet) are not set, nor are they filed on the large gullet side, but they are filed and beveled on the edge next the middle cutter; each section, therefore, contains three cutting teeth and two rakers.

This style of tooth in hand, rip and panel saws is listed below. It will also be found listed in the Cross Cut, One-Man and Wood Saw sections.

Complete instructions for filing are packed with each Universal Saw.

Lengthinches	16	18	20	22	24	26	28	30	32
Price, No. 93, silver steelper dozen	\$29.50	\$30.50	\$31.50	\$33.00	\$34.50	\$36.00	\$40.00	\$44.00	\$48.00
Price, No. 94, silver steel per dozen									41.50
Price, No. 96, Sheffield steel, per dozen				24.00	25.00	26.50	29.50	32.50	36.50
Price, No. 99, Sheffield steel, per dozen			19.00	19.75	20.50	21.50	24.00	27.00	30.00
Weight, No. 93, per dozen pounds	11	133/4	153/4	171/4	20	241/4	293/4	301/4	33
Weight, No. 94, per dozen pounds	113/4	13	$15\frac{1}{2}$	171/2	211/2	261/4	281/2	32	36
Weight, No. 96, per dozen pounds	111/2	131/2	15	17	18	241/2	261/4	30	33
Weight, No. 99, per dozen pounds	111/2	131/4	141/2	161/2	191/2	24	27	30	33





ATKINS Nos. 70 AND 71 HAND SAWS

These saws are made of Atkins Special Steel. Next to our Silver Steel Saws, they are the finest saws in the world. The blades are Taper Ground and highly polished.

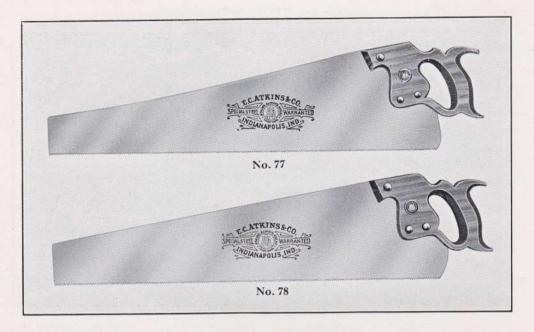
No. 70 is a skew back, and is equipped with the Atkins Perfection Pattern Handle made of applewood, varnished all over and polished and fastened to the blade by three brass screws and a medallion.

No. 71 is a straight back saw, equipped with the old style straight across handle, made of thoroughly seasoned, carefully selected beech. Varnished and polished all over. Fastened to the blade by three brass screws and a medallion.

Lengthinches	12	14	16	18	20	22	24	26	28	30
Price, No. 70 per dozen Price, No. 71 per dozen										
Weight, No. 70, per dozen, pounds	10	11	12	13	15	18	20	241/2	281/2	321/4
Weight, No. 71, per dozen, pounds	10	11	12	13	15	18	20	241/2	281/2	321/4

ATKINS SILVER M STEEL SAWS

ATKINS HAND SAWS Nos. 77 AND 78



These Saws are made of Atkins Special Steel. They are next in quality to our famous Silver Steel, "The Finest Saws in the World."

The blades are taper ground, tempered hard and tough by our patented gas process, and given a highly polished finish.

These saws are ground 19 gauge on tooth edge and tapered throughout to 21 gauge on back at butt, and 23 gauge on back at point.

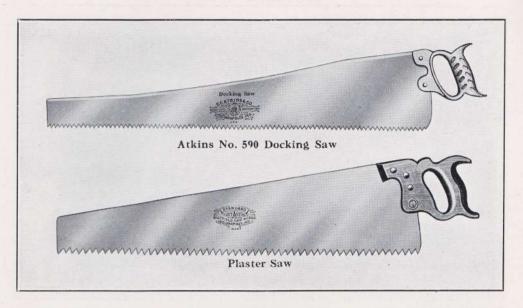
Handle is the old style straight across pattern, made of seasoned applewood, varnished and polished all over. It is fastened to the blade with three brass screws, and a brass medallion.

The No. 77 is skew back pattern and the No. 78 is a straight back pattern. Packed individually in moisture-proof bags, one-third dozen to the box.

Lengthinches	18	20	22	24	26	28
Priceper dozen	\$15.00	\$16.50	\$18.00	\$19.50	\$21.00	\$25.00
Width at buttinches	****	*****	57/8	1111111	7	73/8
Width at pointinches			21/4		23/4	27/8
Weightpounds	13	$16\frac{1}{2}$	$19\frac{3}{4}$	221/4	273/4	293/4

ATKINS No. 590 DOCKING SAW

SPECIAL STEEL



ATKINS No. 590 DOCKING SAW

A very useful saw for rough, fast sawing around docks, ship yards, car shops, lumber yards, farms, and for bridge, mine, railroad and contractors' work. The blade is full breasted, 18 gauge on toothed edge, taper ground for clearance, bevel filed teeth, 4 points to inch. Handle, easy grip pattern, malleable iron, tinned and riveted. Packed one-third dozen in a box. High-grade special steel. Each saw sharpened and set ready for use.

Lengthinches	30
List priceper dozen	\$27.50
Width at butt	
Width at pointinches	$2\frac{1}{2}$

ATKINS PLASTER SAW

SPECIAL STEEL

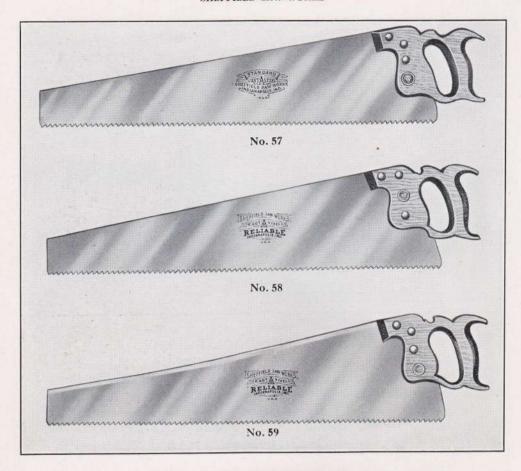
For cutting all types of hard wall plaster such as monolite, etc. The blade is of Atkins special steel and tempered hard. 3 points to one inch. Ground same gauge on toothed edge and back.

Filed straight and set. Packed one-half dozen in a box.

Length inches	28
Price	\$10.50

HAND, PANEL AND RIP SAWS

SHEFFIELD SAW WORKS



Nos. 57, 58 AND 59 HAND SAWS

These are medium priced saws, put up under the brand of the Sheffield Saw Works.

No. 57 is made of cast steel. The handle is of beech, varnished edge and fastened to blade by three brass screws and a medallion. Straight back.

No. 58 is made of a high quality cast steel, finely finished and warranted. Straight back. The handle is of beech, varnished all over and fastened to the blade by three brass screws and a medallion.

No. 59 is a skew back pattern, made of high quality cast steel fully warranted. The handle is of thoroughly seasoned beech, varnished and polished all over. Fastened to blade by three brass screws and a medallion.

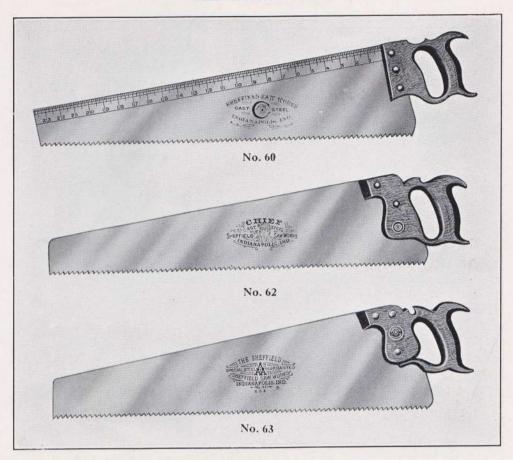
No. 57 is packed one-half dozen in a box. Nos. 58 and 59, one-third dozen in a box.

Length	14	16	18	20	22	24	26	28
Price, No. 57 per dozen	\$5.75	\$ 6.00	\$ 6.50	\$ 7.00	\$ 7.50	\$ 8.00	\$ 9.00	\$10.50
Price, No. 58 per dozen		9.50	10.25	11.00	11.75	12.50	13.50	15.50
Price, No. 59 per dozen		10.00	10.75	11.50	12.25	13.00	14.00	16.00
Weight, No. 57, per dozen . pounds		111/2	121/2	14	17	$19\frac{1}{4}$	243/4	271/2
Weight, No. 58, per dozen . pounds		111/2	131/4	143/4	161/4	191/4	23	261/2
Weight, No. 59, per dozen. pounds		12	131/4	141/2	171/2	$19\frac{1}{2}$	231/2	27

Above weights are for saws unpacked.

HAND, PANEL AND RIP SAWS

SHEFFIELD SAW WORKS



Nos. 60, 62 AND 63 HAND SAWS

Sheffield Saw Works line. Splendid value for the money.

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, natural wood finish and fastened to the blade by three brass screws.

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 by two brass screws and a medallion.

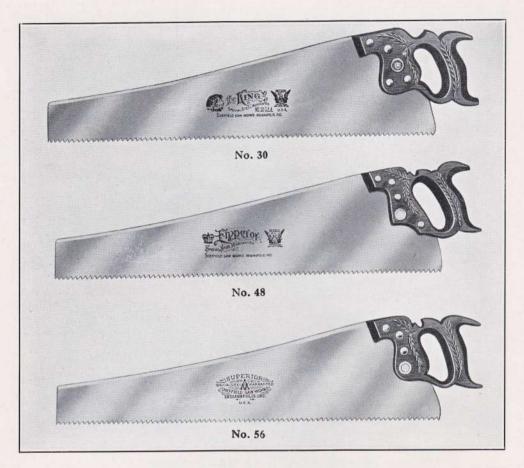
No. 63 is a Special Crucible Steel blade, warranted. Nicely finished. Beech handle, varnished and polished all over, fastened to blade by three brass screws and a medallion. This is a much better saw than Nos. 60 or 62; in fact, is somewhat similar to No. 71 shown on another page.

Nos. 60 and 62 are packed one-half dozen in a box. No. 63, one-third dozen in a box.

Lengthinches	14	16	18	20	22	24	26	28	30	32
Price, No. 60 per dozen							\$ 9.00			
Price, No. 62 per dozen								\$ 8.50		
Price, No. 63 per dozen	9.50	10.50	11.50	13.00	14.50	16.00	17.25	21.00	\$24.00	\$27.00
Weight, No. 60, per doz., pounds				****			231/2			
Weight, No. 62, per doz., pounds								$26\frac{1}{2}$		
Weight, No. 63, per doz., pounds			121/2		171/2	T VOYUGE FOR	$25\frac{1}{2}$	29	$30\frac{1}{2}$	$32\frac{1}{2}$

HAND, PANEL AND RIP SAWS

SHEFFIELD SAW WORKS



Nos. 30 and 48 hand saws are made from fine crucible steel full width, high polish, skew back, polished and carved handle.

Nos. $30\frac{1}{2}$ and $48\frac{1}{2}$ same as Nos. 30 and 48 respectively, excepting that they are straight back.

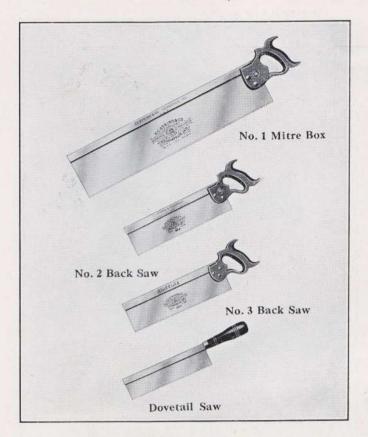
26-inch saws and longer have 5 screws, 24-inch saws and shorter have 4 screws.

No. 56 hand saws are made of Sheffield special steel, skew back, carved and polished handle.

All above fully warranted.

Lengthinches	14	16	18	20	22	24	26	28	30
Price, Nos. 30 and 48 per dozen Price, No. 56 per dozen									
Weight, per dozen pounds		-				18		261/4	30

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 assures you of their 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.

Back saws have 12 points to the inch when longer than 14 inches. 14 points in all shorter lengths.

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 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 one-third dozen in a box.

ATKINS MITRE BOX SAWS, No. 1

Lengthinche	18	20	22	24	26	28	30	32
Price, 4 inches under back per dozer	825.25	\$27.50	\$29.75	\$32.00	\$34.25	\$36.50	\$38.75	\$41.00
Price, 5 inches under back per dozer								
Price, 6 inches under back per dozer					42.50	46.00	49.50	53,00
Weight, 4 inch, per dozenpounds	251/2	283/4	323/4	333/4	35	40	43	46
Weight, 5 inch, per dozenpounds			38	391/2	401/4	431/2	48	54
Weight, 6 inch, per dozenpounds			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	\$15.00	\$16.00	\$18.00	\$20.00	\$22.50	\$25.00
Weight, per dozenpounds						

SHEFFIELD SAW WORKS BACK SAWS, No. 3

Lengthinches	8	10	12	14	16	18	20	22	24
Priceper dozen	\$10.25	\$11.50	\$13.50	\$15.75	\$18.00	\$20.25	\$22.75	\$25.25	\$27.75
Weight, per dozen pounds	101/2	12	14	183/4	221/2	251/2	291/2	33	361/2

ATKINS DOVETAIL SAWS

Length	inches	6	8	10	12
Price	.per dozen	\$7.00	\$8.00	\$9.00	\$10.00

ATKINS COMPASS SAWS

No. 2 SILVER STEEL

Attached with saw screw and medallion, carved and polished apple handle.

Price, per Dozen

Length Inches	Saws Complete	Blades Only
10	\$5.00	\$3.00
12	5.25	3.25
14	5.50	3.50
16	5.75	3.75
18	6.00	4.00

No. 3 SILVER STEEL

Attached with saw screw and medallion, carved and polished beech handle. Made in 10, 12, 14 and 16-inch lengths.

Price...... per dozen \$5.00

No. 4

Beech handle, two screws, varnished edge. Made in 10, 12, 14 and 16-inch lengths.

Price.....per dozen \$3.00

No. 7

One screw and medallion, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths.

Price..... per dozen \$3.50

No. 8

Polished wood screws, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths.

Price per dozen \$2.50

WEIGHTS

Nos. 2, 3, 4, 7, 8 and 9

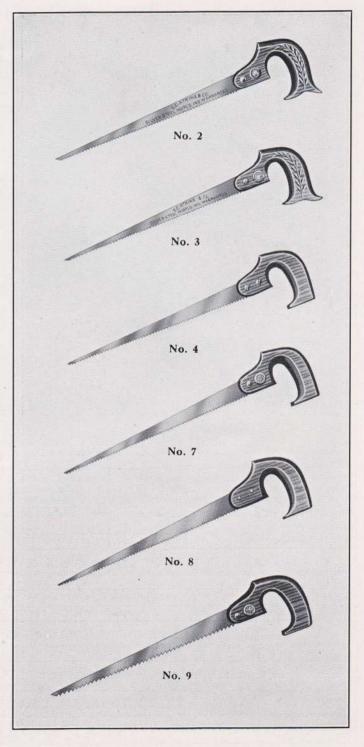
Length Inches	Per Dozen Pounds
10	 51/4
12	
14	 61/2
16	 7
18	 71/4

All the above put up half dozen in a box.

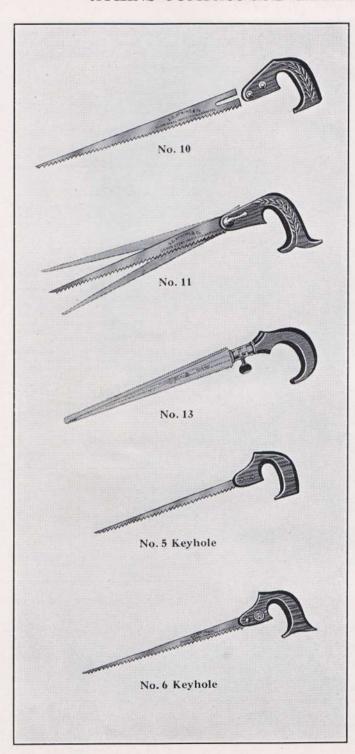
ATKINS COMPASS SAWS, No. 9

Saw screw and medallion, beech handle. Made in 10, 12, 14 and 16-inch lengths.

Price..... per dozen \$3.25



ATKINS COMPASS AND KEYHOLE SAWS



No. 10 INTERCHANGE-ABLE

Carved beech handle, varnished and polished. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	\$4.50	\$2.50
12	4.75	2.75
14	5.00	3.00
16	5.25	3.25
18	5.75	3.50
20	6.25	3.75

No. 11 ADJUSTABLE

Apple handle, carved, varnished and polished. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	\$6.50	\$3.00
12	6.75	3.25
14	7.00	3.50
16	7.25	3.75
18	7.50	4.00

Weights Nos. 10 and 11

Length	Per Doz.	Length 1	Per Doz.
In.	Lbs.	In.	Lbs.
10	6	16	. 73/4
12	61/2	18	. 81/4
14	7	20	. 83/4

ATKINS No. 13—THE "FOUR WAY"

"FOUR WAY"
The "Four Way" Compass 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. Castings japanned black. Packed half dozen in box. Price, per dozen:

_		224.54
Length Inches	Saws Complete	Blades Only
8	\$6.20	\$2.60
10	6.60	2.90
12	6.80	3.20
14	7.20	3.50
16	7.50	3.80

KEYHOLE SAWS

No. 5
Sheffield Saw Works. Beech handle, varnished edges. Made in 10 and 12-inch lengths. Weight, per dozen: 10 inch, 4 pounds; 12 inch, 4 pounds.

Price per dozen \$2.50

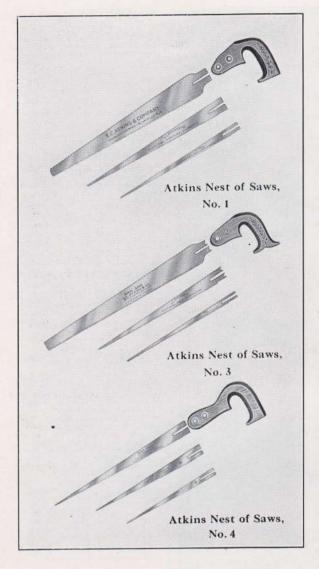
No. 6
E. C. Atkins & Co. Saw Screw and Medallion. Apple handle, varnished and polished edges. Made in 10 and 12-inch lengths. Weight, per dozen: 10 inch, 4½ pounds: 12 inch, 4½ pounds:

Price per dozen \$4.50

All the above saws are put up one-half dozen in a box.

ATKINS SILVER A STEEL SAWS

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.

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 two sizes of compass saws and a keyhole blade, made of Sliver 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 Silver Steel Metal Cutting Blade, 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.

Price, per Dozen

Description	No. 1	No. 2	No. 3
Handles and screws	\$2.00	\$2.00	\$3.50
Keyhole blades, 10 in. Keyhole blades, 12 in.	2.00	2.00	2.00
Compass blades, 12 in. Compass blades, 14 in.	3.00	2.75	3.00
Compass blades, 16 in. Pruning blades, 18 in. Special nail cutting	5.50	3.25	
blades, 18 in			11.50
Total for nests Weight, per doz. sets	\$12.50	\$10.00	\$20.00
pounds	113/	10	14

Nos. 1 and 2 nests can be furnished with our patent adjustable handle as follows: No. 1 nest, \$14.00 per dozen and No. 2 nest \$11.50 per dozen.

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 and an Adjustable Handle.

The handle is fitted with a lever 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. Compass and keyhole blades made of Silver Steel and toothed same as No. 2 Compass and No. 6 Keyhole.

Price, sets	\$12.80
row dozon ente	19
Weight, pounds (packed ¼ dozen in box)	14

ATKINS SPECIAL SAWS



ATKINS PATTERN MAKERS' SAW

This saw is designed for very fine, smooth work. The blade is 7½ 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 with label on top and end.

Price...... per dozen \$5.50

ATKINS STAIR BUILDERS' SAW

Beech handle, varnished and polished edges. Length 6, 8 and 10 inches. Width of blade, $1\frac{3}{4}$ inches. Adjustable to different depths.

Length.....inches 6 8 10 Price.....per dozen \$6.50 7.50 8.50

ATKINS CARPENTERS' HANDY SAW

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.

Length......inches 17
Price......per dozen \$15.00

ATKINS KEYHOLE SAW AND PAD

No. 1

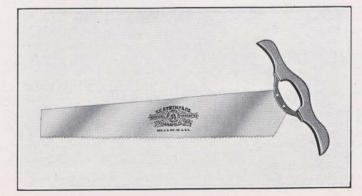
Keyhole sawsper dozen	\$1.60
Handleper dozen	.70
Completeper dozen	2.30
No. 2	

 Keyhole saws
 per dozen
 \$1.70

 Handle
 per dozen
 1.20

 Complete
 per dozen
 2.90

Above keyhole saws are put up one dozen in a box.



ATKINS HANDY HAND SAW

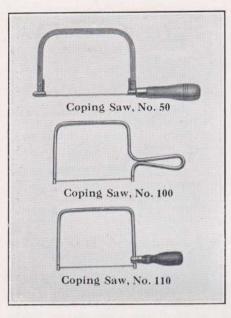
SILVER STEEL

This is, as the name implies, a handy saw; it is made for general and household use.

Length inches 26 Price per dozen \$16.00

Packed one in a box with label on top and end.

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, $7\frac{1}{4}$ 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.

Price, complete, with bladeper dozen	\$10.00
Price, blades onlyper dozen	.85
Weight, per dozenpounds	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.

Price, complete with one doz. extra blades per doz.	\$3.25
Price, extra bladesper gross	1.66
Weight, per dozenpounds	43/8

No. 101.	Same as No. 100, except 8 inch under backper dozen	\$3.75
Weight, p	er dozenpounds	85/8

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.

Price, complete with one dozen extra blades	1.66
No. 111. Same as No. 110, except 8 inch under back	\$4.50

COPING SAW BLADES

The following list contains description and list prices of regular and special blades used in the "Jones"
Patent Coping and Scroll Saw Frames.

Coping Saw Blades

6 inch. For Nos. 1, 2 and 3 frames....per gross \$1.66 Put up regularly with the Nos. 1, 2 and 3 frames.

Special Coping or Web Saw Blades 1/8 inch wide, 12 points per inch.

6 inch. For Nos. 1, 2 and 3 frames....per dozen \$0.90
This blade is for rapid work, where speed rather than fine, smooth work is desired.

Scroll or Fret Saw Blades

6 inch. For Nos. 6 and 7 frames......per gross \$1.40 Put up regularly with the No. 7 frame.

List of Finer Sizes

No.	6					4					93			4		į.	47	į.		¥.	٠		per	gross	\$1.00
No.	7			0.14						,			+						+		+		per	gross	1.10
No.	8				4		+	+	3	2				2								S	per	gross	1.20
No	9										U	Į.	ı.										per	gross	1.30

JEWELERS' SAW BLADES FOR METAL WORK

5 inch. Square blade, for Nos. 6 and 7 frames. gross \$1.40 This blade is put up regularly with the No. 6 frame. Finer sizes furnished if desired at same price.

Special Jewelers' Saw Blades For Metal Work

5 inch. For Nos. 6 and 7 frames......per gross \$1.90 This is a very thin, flat blade for fine work on metals. Nos. 4 and 6 (narrower) and Nos. 10 and 11 (wider) at same price.

Special Hack Saw Blades For Metal Work

1/4 inch wide, .014 inch thick, 30 teeth per inch.

6 inch.	For Nos. 1, 2 and 3 framesper dozen	\$0.75
5 inch.	For Nos. 6 and 7 framesper dozen	.70

By using these blades a large variety of metal work can be done with our coping saw frames.



COPING SAWS

"JONES "CABLE COPING SAW,

Frame is heavily nickel-plated, polished, buffed and fitted with hardwood handle; furnished complete with one-half dozen blades. Frame carries 6-inch blade and is 4 inches deep.

Frame is constructed with tubular back, through which runs a cable connecting both ends of frame, which causes the blade to turn to any angle by turning the handle only, without removing from the work.

"JONES" RATCHET COPING SAW, No. 2

Frame is heavily nickel-plated, polished, buffed and fitted with hardwood handle; furnished complete with one-half dozen blades, packed in cardboard boxes. Frame carries a 6-inch blade and is 4 inches deep.

Frames Nos. 2 and 3 are constructed with a steel back and ratchet arrangement (see illustration) which enables the workman to set the blade at any angle by the handle and button at the opposite end of saw frame.

Price.....per dozen \$9.00

Weight, per dozen, 53% pounds.

dozen blades to a box.

"JONES" RATCHET SCROLL SAW,

Frame is heavily nickel-plated, polished, buffed and fitted with hardwood handle; furnished complete with one-half dozen blades, packed in cardboard boxes. Frame carries a 6-inch blade and is 10 inches deep from blade to back.

Price......per dozen \$10.00 Weight, per dozen, 8¾ pounds.

"JONES" CABLE SCROLL SAW, No. 7

Special attention is called to construction of the grips or clamps for holding the saw blades; they are strongly made of steel and hardened; when properly tightened blade cannot slip. Frames are made to take 5-inch saw blade and are 10 inches deep from blade to back.

Frame, same construction as No. 1, is heavily nickel-plated, polished, buffed and fitted with hardwood handle; furnished complete with blade.

Price......per dozen \$18.00

Weight, per dozen, 95% pounds. Packed onesixth dozen in a box.

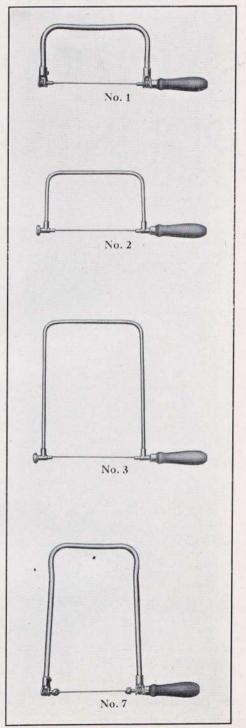
"JONES" CABLE JEWELER SAW, No. 6

This frame is made to take a 5-inch saw blade, and is $3\frac{1}{2}$ inches deep from blade to back.

Frame is nickel-plated and fitted with hardwood handle; furnished complete with blade and packed in cardboard boxes.

Price.....per dozen \$15.00

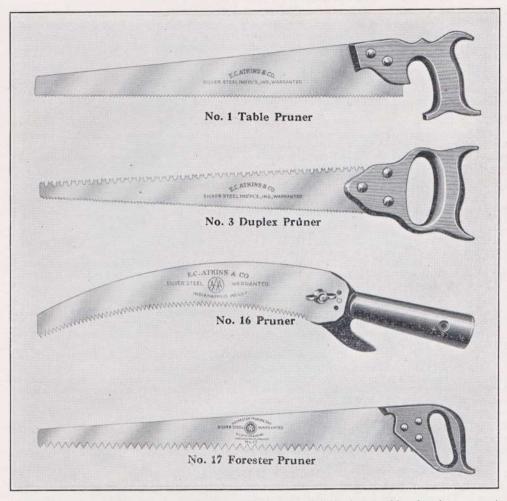
Weight, per dozen, 6 pounds.



ATKINS SILVER STEEL PRUNING SAWS



ATKINS PRUNING SAWS



With the development of the science of tree surgery, scientific pruning is being given a position of much more prominence than in the past. As saws enter largely into this work, the manufacture of special saws for this purpose has become one of our most important departments.

We present, therefore, in this and following pages, what we believe to be the most varied and complete line of pruning saws, and we solicit your orders.

ATKINS FORESTER PRUNING SAW No. 17

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 2% inches at the handle and 1 inch at the point. Handle of fine hardwood, thoroughly seasoned. Varnished edge and fastened to blade by two brass screws. No. 2 is same pattern as No. 3 except Sheffield quality.

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 by three brass screws.

Length inches Price, No. 1 per dozen Price, No. 3 per dozen Weight, No. 1, per dozen pounds Weight, No. 3, per dozen pounds Nos. 1 and 3 saws packed one-third dozen in be	\$6.00 8.50 7½ 7½	\$6.50 9.00 8½	\$7.00 9.50		\$ 8.50 11.50	\$ 9.25 12.50 11.34 12	1214	
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ATKINS No. 16 "AAA" POLE TREE PRUNER
A 12-inch curved blade with peg teeth, fastened to the casting by use of a 5-16 bolt and wing nut.
end of blade work in a peg, so that the blade may be changed to cut at any angle. Blade of Silver Steel. Three holes in butt

ATKINS PRUNING SAWS - Continued

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 by four wood screws. Practically unbreakable. Extra large, easy grip. Plenty of room for use with gloves in cold weather.

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 by three brass screws and a medallion. (See page 227.)

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 by three saw screws. (See page 227.)

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 by three brass screws. (See page 227.)

ATKINS No. 15

Length of frame over all, 17 inches. Depth at point from blade to back, 3/4 inch. Depth at butt. 4 inches. Width of frame, 5/8 inch; thickness, 3/16 inch. Polished. Half-inch blued blade, 8 point, 14 inches from center of pins. Double swivel arrangement, to cut at

Half-inch blued blade, 8 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. (See page 228.)

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 point.

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 big 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 by three brass screws.

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.

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 by three steel rivets. (See page 227.)

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. (See page 228.)

No. 9 TAPERED

It is $\frac{1}{2}$ inch wide, $\frac{5}{16}$ inch thick, and accommodates a 20-inch blade. It is $1\frac{1}{2}$ 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 by two nickeled screws. (See page 228.)

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 by two brass screws. Blade adjustable, will cut at any angle. (See page 228.)

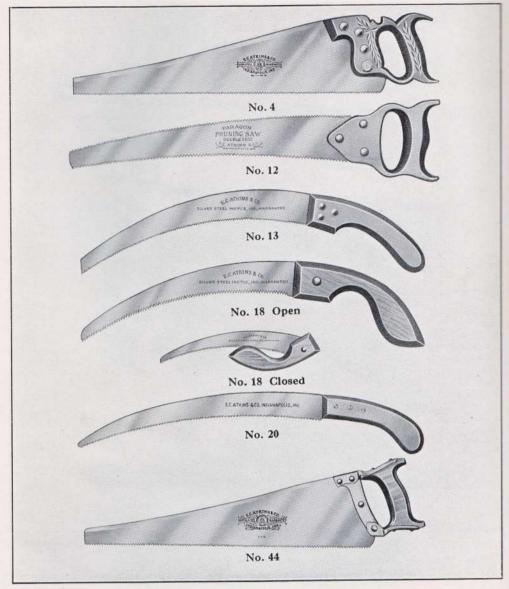
No. 11 TAPERED

Frame is of high-grade crucible steel, $\frac{3}{4}$ inch wide, $\frac{3}{16}$ 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 by three brass screws. (See page 228.)

ATKINS SILVER



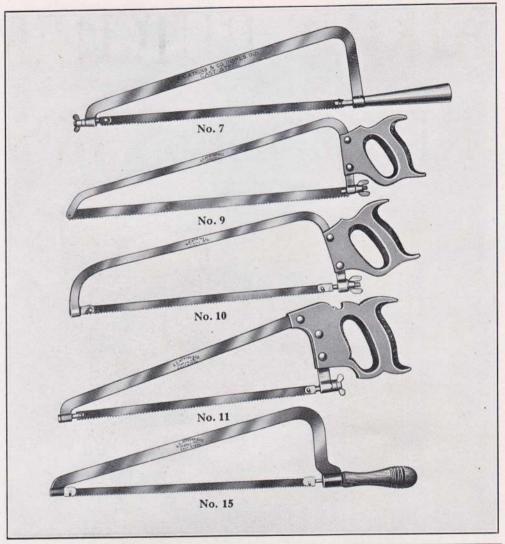
ATKINS PRUNING SAWS - Continued



Lengthinches	12	14	16	18	20	22
Price, No. 44per dozen				\$10.00	\$10.50	
Price, No. 4 per dozen	****				12.00	
Price, No. 12per dozen	\$8.50	\$9.00	\$9.50	\$10.50	11.50	\$12.50
Price, No. 13per dozen	9.00	9.60				
Price, No. 20	8.50	9.10				
Weight, No. 44, per dozenpounds				14	16	
Weight, No. 4, per dozenpounds	* * * * *				15	
Weight, No. 12, per dozenpounds	81/2	101/4	101/2	12	121/4	121/2
Weight, No. 13, per dozenpounds	8	81/2	* * * * *	****	*****	
Weight, No. 20, per dozen pounds	5	53/4				

ATKINS SILVER M STEEL SAWS

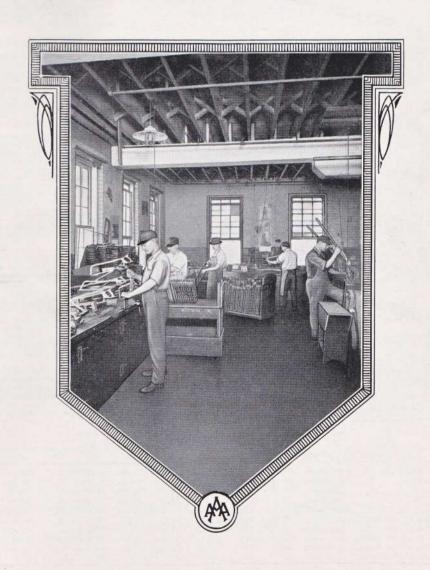
ATKINS PRUNING SAWS-Continued



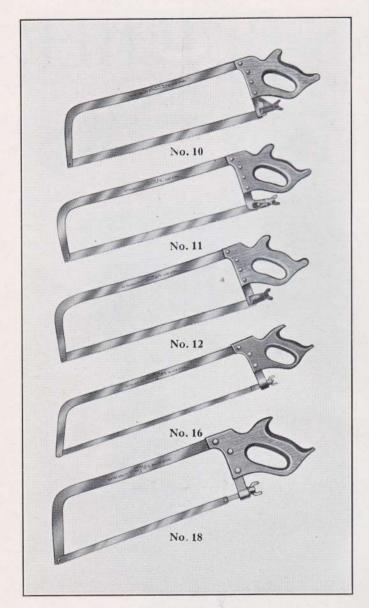
Number	Length of Frame Inches	Length of Blade Inches	Weight per Dozen Pounds	Price Complete per Dozen	Price Extra Blades per Dozen
77	16	1434	20	\$20.00	\$2.75
7	18	1634	21 1/2	21.00	3.25
7	20	1834	23 1/4	22.00	3.75
7	22	20 3/4	251/2	23.00	4.25
0	20	20	21 1/2	16.50	4.25
9 10	12	10	181/4	15.50	2.00
	14	12	191/2	16.50	2.25
10	16	14	21 1/4	17.75	2.75
10	18	16	22 1/2	20.00	3.25
10		18	24	22.25	3.75
10	20	12 3/4	181/2	19.25	2.25
11	16	1434	20	20.25	2.75
11	18		21 1/2	21.25	3.25
11	20	1634	221/2	22.25	3.75
11	22	18¾	12	18.00	2.75
15	17	15	12	10,00	2.10

Nos. 7 and 15 saws packed one-sixth dozen in box. Nos. 9, 10 and 11 saws packed one-third dozen in box.

ATKINS BUTCHER And KITCHEN SAWS



ATKINS BUTCHER SAWS



ATKINS No. 10

Detachable blade, easily adjusted. Frame of Atkins Special Spring Steel, square edge, 1 inch wide and ½ inch thick. Blade is of Atkins Silver Steel, ¾ inch wide, finished bright. Handle of seasoned beech, finely finished, varnished edge and fastened to frame by four nickeled screws.

ATKINS No. 11

Frame of Atkins Special Spring Steel, square edge, 1 inch wide by ¼ inch thick. Blade of Atkins Silver Steel, ¾ inch wide, finished bright. Handle is of seasoned beech, finely finished, varnished edge and is fastened to the frame by four nickeled screws.

ATKINS No. 12

The frame is of fine spring steel, square edge, 1 inch wide, ¼ inch thick. Blade is of Atkins Silver Steel, ¾ inch wide, finished bright. Handle is of beech, sanded sides and varnished edge, and fastened to frame by four nickeled screws.

ATKINS No. 16

Blade may be instantly removed by turning thumb screw. The most convenient adjustment on the market. Frame 1 inch by ¼ inch, made of spring steel. Very rigid. Hardwood handle, not varnished, fastened to frame by three nickeled screws. Nicely finished throughout.

ATKINS No. 18

In designing this frame, we have endeavored to secure the simplest possible construction whereby the blade may be most easily removed and attached and at the same time give complete hygienic features. For these reasons this Saw appeals to large users such as meat packers and saw supply houses.

and saw supply houses.

The blades, being punched, permit the use of either a Butcher Saw Coil or of any punched blade. This Saw is supplied with ⁵/₈ inch 11 point blade, finished bright. Will furnish with ³/₄ inch blades, finished either bright or blued at the same price.

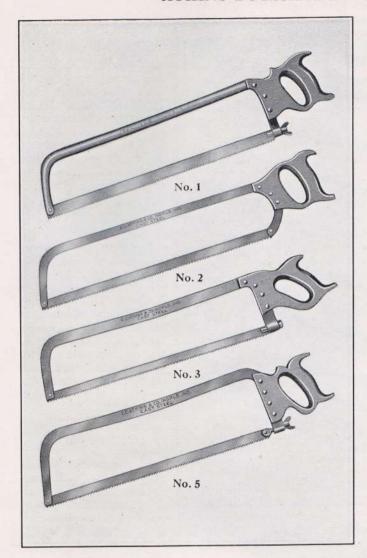
Frames 20 inches and under are $\frac{1}{2}$ x $\frac{1}{2}$ inch, 22 inches and over are 1 x $\frac{1}{2}$ inch, round edged steel full polished and tempered. Distance under back to tooth edge at center $4\frac{3}{4}$ inches, at ends 5 inches.

Lengthinches	14	16	18	20	22	24	26	28	30
Price, No. 10 per dozen	\$16.00	\$17.00	\$18.15	\$19.30	\$20.45	\$21.60	\$22.75	\$23.90	\$25.05
Price, No. 11 per dozen	16.00	17.00	18.15	19.30	20.45	21.60	22.75	23.90	25.05
11100, 1101 1111 1111 1111	16.00	17.00	18.15	19.30	20.45	21.60	22.75	23.90	25.05
11100, 1111 1111	16.00	17.00	18.15	19.30	20.45	21.60	22.75	23.90	25.05
11100, 1100	16.00	17.00	18.15	19.30	20.45	21.60	22.75	23.90	25.05
11100, 110.	33 14	34 3/4	36	371/4	381/2	3934	41	42 1/4	431/2
At critical trans and bear and and a	33 16	34 %	36	3714	381/2	39 34	41	42 1/4	43 1/2
Weight, 140. 11, per doment.	3316	34 %	36	3714	381/2	3934	41	42 1/4	43 1/2
Weight, No. 12, per dozenpounds	TOTAL STREET	26	2734	291/2	31 1/4	33	34 3/	36	
Weight, No. 16, per dozenpounds	241/4	27	28	31	32	34	36	37	45
Weight, No. 18, per dozen pounds	25	41	20	91	02	9.2	00	9.0	

The above saws are packed one-third dozen in a box.



ATKINS BUTCHER SAWS



ATKINS No. 1

Frame is of Atkins Special Spring Steel. Finished oval, $\frac{3}{4} \times \frac{3}{8}$ inch. Blade is of Atkins Silver Steel, finished bright. Handle is Easy Grip Pattern, made of seasoned beech, varnished edge, fastened to frame by three nickeled screws.

ATKINS No. 2

This is a flat frame, made of Atkins Special Spring Steel, 3% inch wide and ½ inch thick. Blade of Atkins Special Steel, 34 inch wide, finished bright. Beech handle, with varnished edge, fastened to frame by three blued wood screws.

ATKINS No. 3

Flat back, square edge, 1 inch wide and ½ inch thick. Blade of Atkins Silver Steel will hold its sharp cutting edge. Finished bright, ¾ inch wide. Handle of thoroughly seasoned beech, varnished edges, fastened to frame by four nickeled screws. The tension on blade is secured by use of a hexagon nut.

ATKINS No. 5

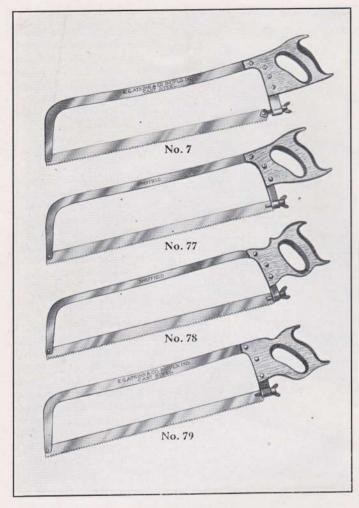
The frame is made of Atkins Special Spring Steel, square edge, 1 inch wide and 1/4 inch

thick. The blade is of Atkins Silver Steel, blued, ¾ inch wide. Thoroughly seasoned beech handle, Easy Grip Pattern, varnished edges, fastened to frame by four nickeled screws.

Length	inches	12	14	16	18	20	22	24	26	28
Price, No. 1	oer dozen	\$16.70	\$17.55	\$18.40	\$19.55	\$20.70	\$21.85	\$23.00		
Price, No. 2				14.45						
Price, No. 3				17.00	18.15	19.30	20.45	21.60	\$22.75	\$23.90
Price, No. 5	oer dozen	17117			25.00	26.00	27.00	28.00	29.00	
Weight, No. 1, per dozen.	pounds	23	24	25	26	27	28	29	* * * * * *	
Weight, No. 2, per dozen.	pounds	101/2	131/2	$16\frac{1}{2}$	$19\frac{1}{2}$	221/2	$25\frac{1}{2}$	$28\frac{1}{2}$	1.5.1.5.4.4	
Weight, No. 3, per dozen.	pounds		25	273/4	$30\frac{1}{2}$	333/4	$36\frac{1}{4}$	39	$42\frac{3}{4}$	$45\frac{1}{2}$
Weight, No. 5, per dozen.	pounds				34	36	38	40	42	

The above saws are packed one-third dozen in a box.

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 by 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 by 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, 3/4 inch wide. Handle is thoroughly seasoned beech. Easy Grip Pattern, varnished edges, fastened to the frame by three nickeled screws.

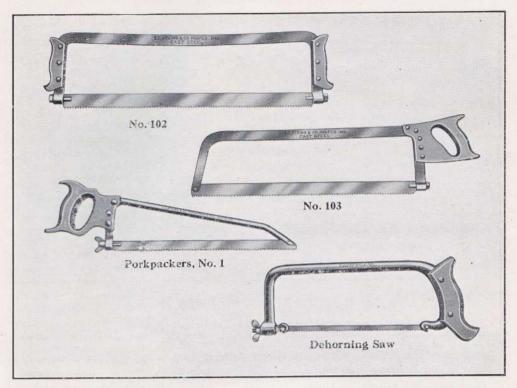
ATKINS No. 79

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 by three nickeled screws.

Lengthinches	14	16	18	20	22	24	26	28	30
Price, No. 7per dozen	\$16.00	\$17.00	\$18.15	\$19.30	\$20.45	\$21.60	\$22.75	\$23.90	
Price, No. 77 per dozen	16.00	17.00	18.15	19.30	20.45	21.60	22.75	23.90	\$25.05
Price, No. 78 per dozen				20.30	21.45	22.60	23.75	24.90	26.05
Price, No. 79 per dozen				19.30	20.45	21.60	22.75	23.90	25.05
Weight, No. 7, per dozen, pounds		26	273/4	291/2	311/4	33	343/4	36	
Weight, No. 77, per dozen, pounds		221/2	243/4	27	291/4	311/2	333/4	36	381/4
Weight, No. 78, per dozen, pounds		201/4	211/2	253/4	30	341/4	381/2	423/4	47
Weight, No. 79, per dozen, pounds		291/4	313/4	341/4	363/4	391/2	43	$45\frac{1}{2}$	48

The above saws are packed one-third dozen in a box.

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. Three nickeled screws in each handle. Packed one in a box.

Lengthinches	24	26	28	30	32	34	36
Price, complete each Price, blades only per dozen	\$4.50	\$4.75 8.25	\$5.00 8.50	\$5.50 8.75	\$6.00 9.00	\$6.50 9.25	\$7.00 9.50
Weight, eachpounds		$6\frac{1}{2}$	63/4	7	71/4	71/2	81/2

ATKINS SINGLE HAND BEEF SPLITTING SAW, No. 103

Flat back, 1½ x 5 inches, square edge. Round eye, round tension spring, hexagon nut, Silver Steel Blade, 1½ inches wide. Beech handle. Five nickeled screws. Packed one-sixth dozen in a box.

Lengthinches	24	26	28	30	32	34	36
Priceper dozen	\$26.00	\$27.65	\$28.75	\$30.25	\$31.75	\$33.25	\$34.75
Weight, eachpounds	51/4	53/4	$6\frac{1}{4}$	63/4	71/4	73/4	81/4

Oval steel back, 5% x 3% inch. Silver Steel, blued clock spring blade, 34 inch wide. Beech handles. Three nickeled screws. Packed one-third dozen in a box.

Lengthinches	14	16	18
Priceper dozen	\$17.50	\$18.50	\$19.50
Weight per dozenpounds	$18\frac{1}{2}$	19	22

ATKINS DEHORNING SAWS

Japanned, malleable iron frame, beech handle, complete. Blade, 1/4 inch wide. Packed six in a box.

Length	91/2
Price, complete	φο. υυ
Weight, poundsper dozen	53/4

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	$1\frac{1}{4}$	$1\frac{1}{2}$
Gauge	14	24 13 \$0.12	24 11 \$0.14	23 11 \$0.16	23 11 \$0.18	23 10 \$0.20	23 10 \$0.22	23 10 \$0.24	9 or 10 \$0.28

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.

Packed one dozen in a box.

	3/4	TO 11/4	INCHE	s WID	E, INC	CLUSI	VE				
Length	inche	s 12 s \$4.15	14 \$4.40	16 \$4.65	18 \$4.90	20 0 \$5.		.40 \$	24 5.65	26 \$5.90	28 \$6.15
	11/2	TO 2	INCHES	WIDI	E, INC	LUSIV	VE.				
Length	inches per dozen \$6	16 1 5.00 \$6	8 20 25 \$6.50	22) \$6.75	24 \$7.00	26 \$7.25	28 \$7.50	30 \$7.75	32 \$8.00	34 \$8.25	36 ; 8.50

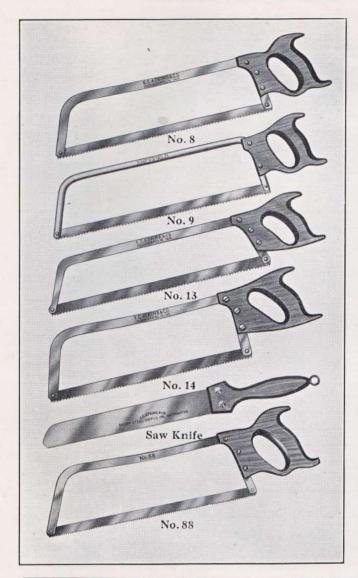
ATKINS BUTCHER SAW PUNCH

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.

The frame is of malleable iron, nicely finished. The screw and cross bar are of high-grade steel. The die and punch are the finest quality of tool steel, highly tempered. Packed one only in a box. Weight six pounds per dozen.

Price......per dozen \$9.00

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, 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, two blued wood screws.

No. 13 FLAT STEEL BACK

EXTRA HIGH GRADE

Flat back, $\frac{5}{8}$ x $\frac{3}{16}$ inch. Silver steel blade, bright, $\frac{3}{4}$ inch wide. Beech handle, three nickeled wood screws.

No. 14 FLAT STEEL BACK

EXTRA HIGH GRADE

Flat back, 34 x 14 inch. Silver steel blade, bright, 34 inch wide. Beech handle, three nickeled wood screws.

SAW KNIFE

Price.....per dozen \$6.00

Saw knives are packed one dozen in a box.

No. 88

Atkins No. 88 Kitchen Saw, made of special steel, flat back, ½ x $_{16}^{3}$ inch. Supplied with a $_{26}^{5}$ -inch bright blade. Handle is attached to back by three blued screws.

Price per dozen \$4.00

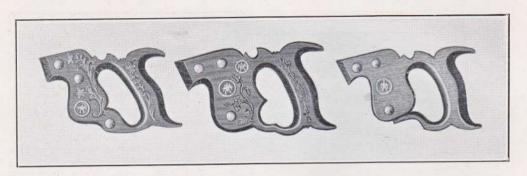
Nos. 8, 9, 13, 14 and 88 packed one-half dozen in a box.

Lengthinches	12	14	16	18
Price, No. 8	\$ 5.00	\$ 5.00	\$ 5.00	
Price, No. 9 per dozen	4.50	4.50	4.50	
Price, No. 13	8.50	8.50	8.50	\$ 8.50
Price, No. 14per dozen	12.00	12.00	12.00	12.00
Weight, No. 8, per dozenpounds	115/8	121/4	131/2	
Weight, No. 9, per dozenpounds	10	11	12	
Weight, No. 13, per dozenpounds	12	135/8	15	16
Weight, No. 14, per dozen pounds	171/2	19	$20\frac{1}{2}$	213/4

KITCHEN SAW BLADES - 5/8 INCH WIDE

ATKINS HAND SAW HANDLES

PRICE DOES NOT INCLUDE SCREWS



	16, 18, 20 in.	22, 24 in.	26 in.	28 in.
Nos. 51, 55, 66, 67, 70, appleper dozen	\$ 3.65	\$ 4.00	\$ 4.85	\$ 5.20
No. 64, appleper dozer	6.40	6.70	7.90	8.25
No. 52, apple per dozer	4.85	5.20	6.10	6.40
Nos. 53, 61, 65, 68, 69, 73, 93, 96, appleper dozer	4.85	5.20	6.10	6.40
Nos. 54, 74, beech	2.75	2.75	3.05	3.35
Nos. 76, 86, apple per dozer	3.65	4.00	4.85	5.20
No. 56, cherry	3.50	3.75	4.00	4.50
Nos. 57, 60, beechper dozer		1.60	1.70	2.00
No. 58, beech, varnished edgesper dozer			1.50	
No. 58, beech, unvarnished per dozer	1 2224		1.35	
Nos. 59, 99, beech per dozer	1.50	1.60	1.70	2.00
No. 63, beech	2.10	2.10	2.45	2.65
No. 69 beech per dezer	1.50	1.60	1.70	2.00
No. 62, beech per dozer Nos. 400, 401, rosewood per dozer		16.50	18.00	19.50

MITRE BOX SAW HANDLES

	18-24 in.	26-32 in.
No. 1, apple	\$5.00	\$5.50

BACK SAW HANDLES

	8-12 in.	14-18 in.	20-24 in.
No. 2, apple	\$3.25 1.25	\$3.50 1.25	\$1.25

COMPASS SAW HANDLES

No. 2, apple	\$3.25
No 9 heach per dozen	1.50
Interchangeable beech per dozen	1.75
No. 8, beech, varnished edgeper dozen	1.25

BUTCHER SAW HANDLES

No. 1, beech	\$2.00
No 9 beech per dozen	1.75
No. 5 heach	2.25
No 7 beechper dozen	2.20
No. 8, kitchen, beechper dozen	1.75

PRUNING SAW HANDLES

No. 1, beechper dozen	\$1.75
No. 2, beechper dozen	1.75

Screws for all handles extra. 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	AAA medallion	1	5	\$6.00
11	AAA medallion	27	4	5.00
10	Eagle medallion	27	31/2	4.50
20	Eagle medallion	1	5	5.50
30	*Iron raised head	1/2	33/4	3.00
31	Button head	1/2	3	3.50
1	Oval head	1/2	23/4	3.00
2	Oval head	9	31/4	3.50

*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:

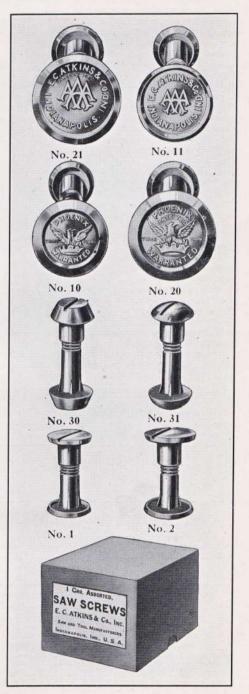
Assortment No. 1 consists of a carton containing 36 small boxes, each box containing three No. 1 and one No. 10 brass saw screws, and is adapted for the use of carpenters who want screws for panel saws and the cheaper grade of hand saws.

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)	\$4.00
No. 2 assortment, each carton containing one	
gross assorted as above (36 boxes)	4.50
No. 3 assortment, each carton containing 12	
boxes (1 dozen in box)	4 00



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.

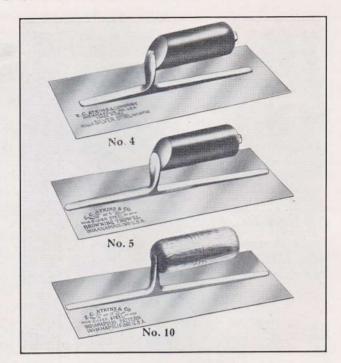
A thorough study of trowel uses enabled our expert designers to construct Silver Steel trowels for various purposes. And they have no superior.

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.

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 are the "Finest on Earth" a worthy addition to the Atkins Silver Steel line.

No. 4 SILVER STEEL FINISHING-INDIANA PATTERN

Handle ebony finish, nicely polished. Mounting is cast steel, with 10 rivets.

Length Inches	Width	Weight per Dozen Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen Pounds	Price per Dozen
10	41/2	51/2	823.50	121/2	51/4	71/4	\$29.00
101/2	41/5	53/4	24.50	13	51/2	73/4	31.50
11	43/	6	25.50	14	6	81/4	34.50
111/2	43/	61/4	26.75	16	6	83/4	36.75
12	43/4-5	63/4	28.00	1111	14.4.4		

No. 5 SILVER STEEL BROWNING

Length Inches	Width Inches	Weight per Dozen Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen Pounds	Price per Dozen
11½	43/4	$6\frac{1}{4}$	\$26.75	12	43/4	63/4	\$28.00
111/2	5	$6\frac{1}{2}$	26.75	12	5	7	28.00

Same as No. 4, except heavier blade for browning.

No. 10 FINISHING-INDIANAPOLIS PATTERN

Handle, black walnut of the same shape, size and pattern as used on No. 1. Blades $11\frac{1}{2}$ inch and longer have 12 rivets; 10 inch and under, 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	41/6	$5\frac{1}{2}$	\$23.50	12	43/4 & 5	63/4	\$28.00
101/2	41/2	53/4	24.50	$12\frac{1}{2}$	51/4	71/4	29.00
11	43/4	6	25.50	13	51/2	73/4	31.50
111/2	43/4	61/4	26.75		2223	19/19/9/3	

All the above packed one-half dozen in a box.

ATKINS PLASTERING TROWELS

No. 1

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	41/2	6	\$13.50
101/2	41/2	61/4	14.50
11	43/4	61/2	15.50
111/2	43/4	63/4	16.75
12	43/4 & 5	7	18.00
121/2	51/4	8	19.50
13	51/2	9	21.50
14	6	10	26.00
16	6	101/2	30.00

No. 2

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	41/2	6	\$12.00
101/2	41/2	61/4	13.00
11	43/4	61/2	14,00
111/2	43/4	7	15.25
12	43/4 & 5	73/4	16.50
121/2	51/4	71/2	18.00
13	51/2	8	19.50

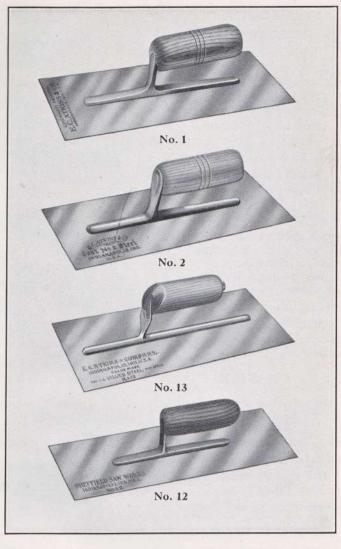
No. 13

	110		
Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	41/2	53/4	\$15.00
$\frac{10\frac{1}{2}}{11}$	43/4	63/4	15.00 16.00
$\frac{11^{1/2}}{12}$	43/4 & 5	71/4	17.00 18.00
$\frac{12\frac{1}{2}}{13}$	51/4	71/2	19.00 20.00

No. 12 CAST STEEL

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price Per Dozen
10	41/2	6	\$10.70
$10\frac{1}{2}$	41/2	61/4	10.70
11	43/4	61/2	11.40
111/2	43/4	7	12.20
12	43/4 & 5	71/4	13.30

All above packed one-half dozen in a box.



No. 1

SILVER STEEL FINISHING

We make these in lengths of 10, 11, 12, 13, 14, 15 and 16 inches. Widths, $4\frac{1}{2}$, 5 and $5\frac{1}{4}$ inches. Handle, straight, natural wood finish. Malleable iron mounting.

No. 2 CAST STEEL FINISHING

This style is made in lengths of 11, $11\frac{1}{2}$ and 12 inches. Widths, $4\frac{3}{4}$ and 5 inches. Handle, straight, natural wood finish. Malleable iron mounting, attached with 5 rivets.

No. 13

This blade is nicely polished and of superior construction throughout. Lengths, 10, 11, 12 and 13 inches. Widths, $4\frac{1}{2}$, $4\frac{3}{4}$, 5, $5\frac{1}{4}$ and $5\frac{1}{2}$ 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, 43/4 and 5 inches. Sheffield quality. Handle, straight pattern, stained yellow. Malleable castings, 3 rivets.

ATKINS CEMENT TROWELS

No. 6 EDGING

SILVER STEEL WARRANTED

A special trowel for edging cement walks.

 $11\frac{1}{2}$ inches long, $4\frac{3}{4}$ inches wide.

Weight, 11³/₄ pounds per dozen.

Price.....per dozen \$20.00

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.

Price.....per dozen \$30.00

Other sizes made to order. Prices on application.

No. 8 RADIUS

Silver Steel Blade, 8 inches long, $2\frac{1}{2}$ inches radius, $\frac{1}{4}$ round. Weight $16\frac{1}{2}$ pounds per dozen. Price.....per dozen \$30.00

Other sizes made to order. Prices on application.

No. 9 GUTTERING

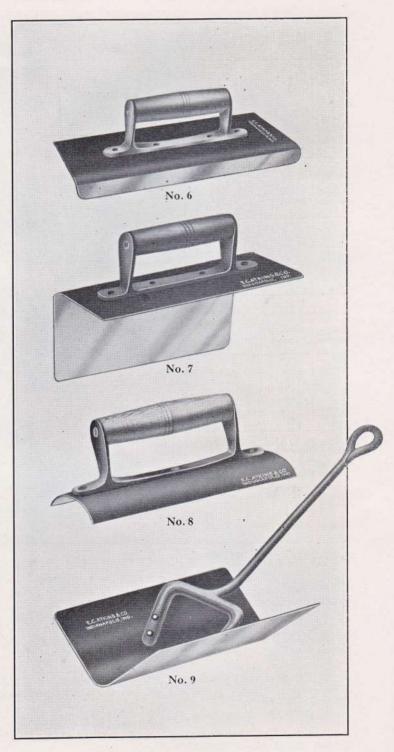
Silver Steel Blade, 10 inches long, 5 inches wide, 5 inches deep, 1½ inches radius.

This trowel will be furnished with either style handle.

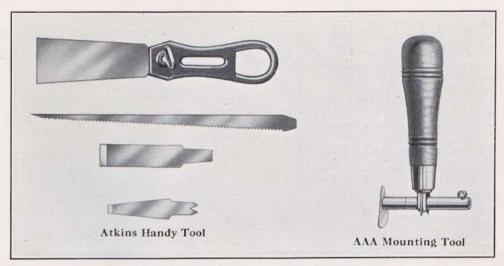
Weight, 42 pounds per dozen.

Price.....per dozen \$30.00

Other sizes made to order. Prices on application.



ATKINS HANDY AND MOUNTING TOOLS



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 \$0.70	Price, chiselsper dozen	\$1.00
Price, keyhole sawsper dozen 1.60	Price, screw drivers and tack claws, per dozen	1.00
Price, putty knivesper dozen 1.50		

Price for one set Handy Tools, 50 cents. If sent by mail, 8 cents additional.

ATKINS "AAA" MOUNTING TOOL

This is a combination gauge for mounting butts and locks.

It is indispensable for gauging and cutting for lock plates, door butts and other mountings that are to be set in wood.

The lower right-hand illustration shows the tool in use cutting for butts. By turning handle to the left the marker is loosened on the gauge rod so that it may be set at any desired point. The small scratch point on the end of the shaft takes the thickness of the butt in the wood.

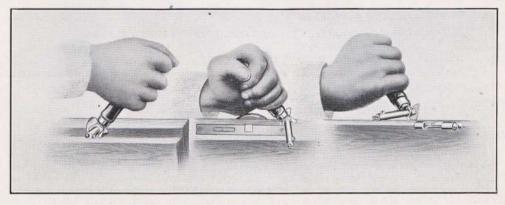
The lower left-hand illustration shows the operation of gauging and cutting a rabbeted jamb for a door butt. The gauge plate is $\frac{1}{16}$ inch thick which gives the necessary clearance between the door and frame or stop. As each blade has two cutting edges the tool may be operated by drawing it up or down.

frame or stop. As each blade has two cutting edges the tool may be operated by drawing it up or down.

The lower center illustration shows the tool in use for mounting locks. The markers being sharp, the tool in ordinary wood will not only gauge but cut to the desired depth. These may be sharpened with an ordinary file.

Handle finely finished, all metal parts nickel-plated and buffed, length of gauge rod $2\frac{1}{8}$ inches, extreme length of gauge 6 inches, weight $5\frac{1}{2}$ ounces, packed one in a box, handsomely labelled.

Price per dozen \$15.00



ATKINS SILVER A STEEL SAWS

ATKINS FLOOR SCRAPERS AND SPOKE SHAVES

ATKINS PERFECTION FLOOR AND CABINET SCRAPERS

Adjustable. One-half dozen in box.

Price per dozen	\$10.00
Price, extra blades, 3 x 3 inches	
Atkins Silver Steel, 16 gauge	
beveledper dozen	2.20
Weight each ounces	131/4

SPECIAL FLOOR SCRAPER BLADES

HIGH TEMPER BEVELED EDGE

Price,	3	x	3	inches	.per	dozen	\$2.20
Price.	3	x	6	inches	.per	dozen	3.00

ATKINS RAMSHORN FLOOR AND CABINET SCRAPERS

Price per doz	en \$10.00
Price, extra blades, Atkins S	
ver Steel, 19 gauge, per doz	en 2.00
Price, extra blades, commo	on
quality, 19 gauge . per doz	en 1.60
Weight each ounc	es 201/2

ATKINS FLOOR AND CABINET SCRAPERS, No. 5

Frame 11 inches long. Solid metal. Japan finish. Blades Silver Steel. $2\sqrt[3]{4}$ x $2\sqrt[4]{2}$ x16 gauge. Beveled both ends, interchangeable. Packed one in a box.

Price,	complete per dozen	\$11.00
Price,	blades only per dozen	2.00
Weigh	at, each ounces	20

ATKINS AAA SPOKE SHAVE

9¾ inches in length, blade of Silver Steel. Hand holds are one inch wide, rounded and knurled. Made of finest malleable. All other parts crucible steel. Dull enamel finish.

Priceper dozen	\$3.00
Weight, eachounces	12



CABINET SCRAPERS-Illustrated on Page 243

No. 1 ATKINS HIGH-GRADE SPECIAL STEEL, 6 INCHES LONG, SHEARED EDGES, 20 GAUGE

Widthinches Priceper dozen	\$1.00	$\frac{21/2}{$1.20}$	3 \$1.40	\$1.60	\$1.80	\$2.00	5 \$2.20
						and the same of th	

No. 2 COMMON QUALITY, 6 INCHES LONG, SHEARED EDGES, 19 GAUGE

Widthinches		21/2	3	3½ 80.80	80.90	$\frac{41/2}{$1.00}$	\$1.10
Priceper dozen		\$0.60	\$0.70			The second second	110000000000000000000000000000000000000
Unless otherwise specified commo	n quality	scrapers a	re sent on	all orders.	Packed o	one dozen i	n a box.

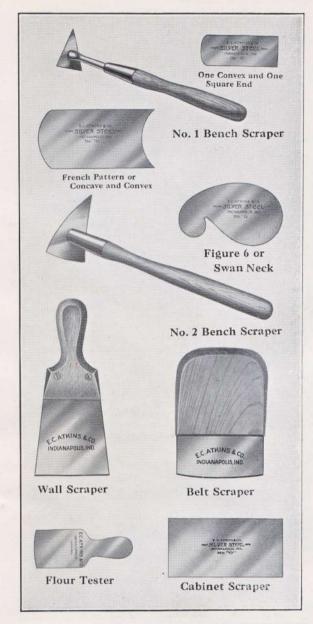
No. 0 SILVER STEEL, CABINET SCRAPERS, FURNISHED 18, 19 OR 20 GAUGE AS SPECIFIED

Widthinches	2	21/2	3	31/2	4	$4\frac{1}{2}$	5
Price, 4 inches long, per dozen	\$2.00	\$2.20	\$2.40	\$2.75	\$3.20		****
Price, 5 inches long per dozen	2.25	2.45	2.65	3.05	3.50	\$4.00	\$4.50
Price, 6 inches long per dozen	2.60	2.80	3.00	3.50	4.00	4.50	5.00
Made with finished edges. "Fin	est on Ea	rth," for	discrimina	ting people	34.		

The above cabinet scrapers are also furnished one dozen in a box, in assortments as follows:

Number of pieces	1	2	2	1	2	2	2	No. 1, price, for assortment per dozen	\$1.50
Lengthinches	5	5	5	6	6	6	6	No. 2, price, for assortment per dozen	.75
Widthinches	21/9	3	31/2	21/2	3	31/2	4	No. 0, price, for assortmentper dozen	3.50

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, extra blades....per dozen \$5.00 Price, extra blades....per dozen 2.00

No. 2 BENCH SCRAPER

16½ inches over all. Socket 3¾ inches long. Threaded for ¾s-inch square nut. Finely finished, shaped 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, extra blades.... per dozen \$5.00 Price, extra blades.... per dozen 2.50

One Convex and One Square End

1½ x 4 inches......per dozen \$1.25

Made only in No. 0 Silver Steel
Quality Hand Finished Edges.

FRENCH PATTERN

Made only in No. 0 Silver Stee Quality Hand Finished Edges.

2½x5 in., 18, 19 or 20 gauge doz. \$2.50 3 x5 in., 18, 19 or 20 gauge. doz. 3.00 2½x6 in., 18, 19 or 20 gauge. doz. 3.00 3 x6 in., 18, 19 or 20 gauge. doz. 3.50

FIGURE 6 OR SWAN NECK

Made only in No. 0 Silver Steel Quality Hand Finished Edges.

3 x 5 inches, 20 gauge. per dozen \$3.00

WALL SCRAPER

8¾ 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. Packed one-half dozen in box.

Price, 3½ in dozen	\$2.75
Price, 4 in dozen	3.00
Price, 31/2 in., blades only dozen	1.10
Price, 4 in., blades onlydozen	1.35

BELT SCRAPER

Made of Atkins Silver Steel. Handle selected, seasoned hardwood, finely finished. Blade 3 inches long by 4 inches wide, 16 gauge. Edge convex. Beveled edge. Polished. Packed one-half dozen in a box. Weight, 6¾ pounds per dozen.

Price	per dozen	\$4.00
Extra for turning edges	per dozen	1.00

For special shaped handles, prices on application.

FLOUR TESTER

A finely finished practical tool for testing the quality of flour. Made of fine steel. Supplied either highly polished or nickel-plated. Made according to any specifications. Prices quoted on application.



ATKINS CORN KNIVES

No. 1 SILVER STEEL

Length of blade, 15½ inches. Width at end, 2½ inches. Length over all, 22 inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen \$3.50 Weight, per dozen..pounds 11

No. 2 SPECIAL STEEL

Length of blade, 15½ inches. Width at end, 2½ inches. Length over all, 22 inches. Blade black. White unvarnished handle. Number of rivets, 3.

Price......per dozen Weight, per dozen..pounds

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 \$3.50 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, polished bright. Varnished handle. Number of rivets, 3.

Price......per dozen \$3.40 Weight, per dozen..pounds 12

No. 6 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Hardwood handle, natural finish. Number of rivets, 3.

Price.....per dozen \$3.10 Weight, per dozen..pounds 12

No. 7 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Self-colored. Varnished handle. Number of rivets, 3.

Price.....per dozen \$3.00 Weight, per dozen..pounds 13

No. 9 SILVER STEEL

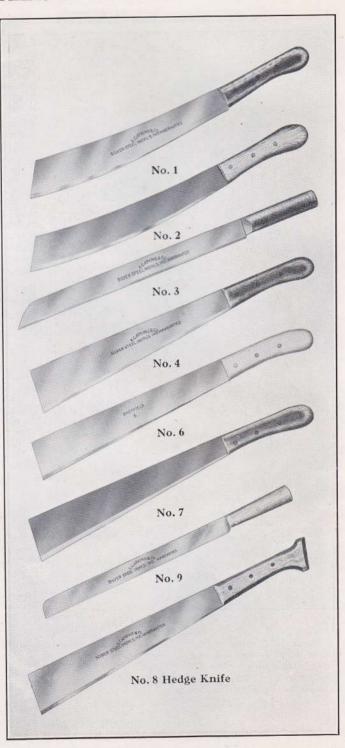
Length of blade, 1734 inches. Width at end, 1½ inches. Length over all, 24 inches. Hardwood handle, natural finish. Number of rivets, 5.

Price.....per dozen \$7.50 Weight, per dozen..pounds 12

No. 8 HEDGE KNIFE SILVER STEEL

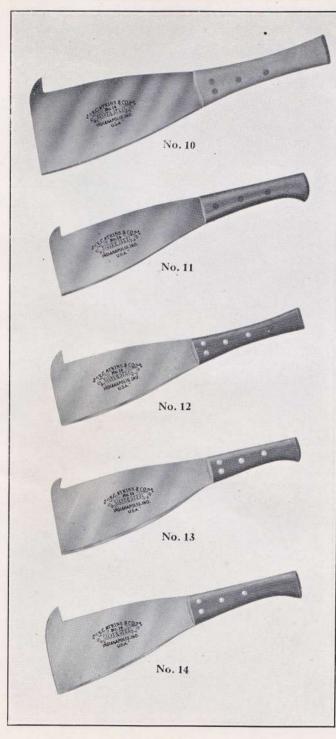
Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, pol-ished bright. Handle, natural fin-ish. Number of rivets, 3.

Price.....per dozen Weight, per dozen..pounds ...per dozen \$5.00 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, 5½ inches. Width at handle, 2½ inches. Length over all, 19¾ inches. Number of rivets, 4. Weight unpacked, per dozen, 13 pounds. 19 gauge.

Price.....per dozen \$8.00

Furnished with either straight or curved hook.

No. 11 CANE KNIFE

Length of blade, 10¾ inches. Width at end, 3¾ inches. Width at handle, 2¼ inches. Length over all, 17½ inches. Beech handle. Number of rivets, 3. Weight, per dozen, 9 pounds. 19 gauge.

Price.....per dozen \$6.50

Furnished with either straight or curved hook.

No. 12 CANE KNIFE

Length of blade, 11 ¼ inches. Width at end, 4 ½ inches. Width at handle, 2 ½ inches. Length over all, 19 ½ inches. Length over all, 19 ½ inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 12 pounds.

Price.....per dozen \$7.50

No. 13 CANE KNIFE

Length of blade, 13 inches. Width at end, $5\frac{1}{16}$ inches. Width at handle, $2\frac{1}{2}$ inches. Length over all, $197\frac{1}{8}$ inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds.

Price.....per dozen \$9.00

No. 14 CANE KNIFE

Length of blade, 115% inches. Width at end, 51% inches. Width at handle, 25% inches. Length over all, 197% inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds. 18 gauge.

Price.....per dozen \$8.50

Above packed one dozen in box.

(A/A)

ATKINS CANE KNIVES

No. 15 CANE KNIFE

Length of blade, 14½ inches. Width at end, 4½ inches. Width at handle, 2½ inches. Length over all, 21½ inches. Hardwood handle. Number of rivets, 5. 15 gauge.

Price.....per dozen \$9.00 Weight, per doz., 20 pounds.

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, 14½ inches. Width at end, 5 inches. Width at handle, 2½ inches. Length over all, 21½ inches. Hardwood handle. Number of rivets, 4, 15 gauge.

Price.....per dozen \$9.00 Weight, per doz., 18 pounds.

No. 17 CANE KNIFE

Length of blade, 14½ inches. Width at end, 5 inches. Width at handle, 2½ inches. Length over all, 21½ inches. Hardwood handle. Number of rivets, 4. 15 gauge.

Price.....per dozen \$9.00 Weight, per doz., 18 pounds.

No. 18 CANE KNIFE

Length of blade, 11½ inches. Width at end, 4½ inches. Width at handle, 2¼ inches. Length over all, 19½ inches. Hardwood handle. Number of rivets, 4. 19 gauge.

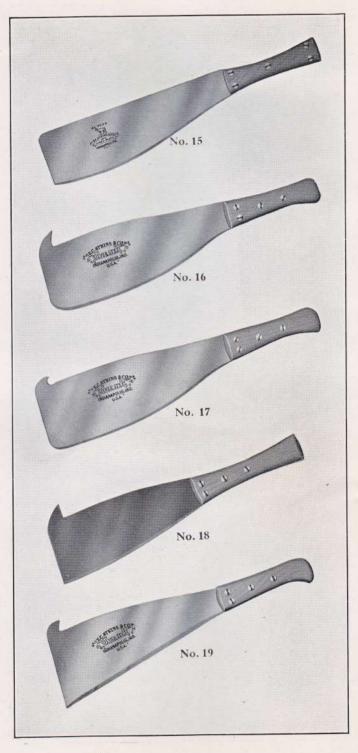
Price.....per dozen \$7.00 Weight, per doz., 14 pounds.

No. 19 CANE KNIFE

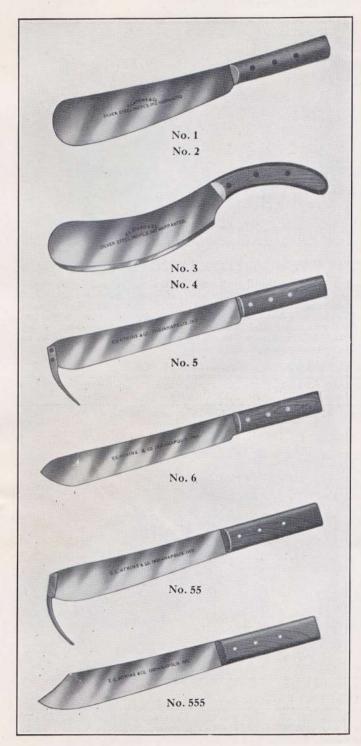
Length of blade, 13½ inches. Width at end, 5½ inches. Width at handle, 2¾ inches. Length over all, 20¼ inches. Hardwood handle. Number of rivets, 4. 15 gauge.

Price.....per dozen \$9.00 Weight, per doz., 17 pounds.

Above packed one dozen in box.



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, 14 gauge. Hardwood handle, natural finish. Number of rivets, 3.

Price.....per dozen \$5.00 Weight, per dozen..pounds 10

No. 2 BEET KNIFE SILVER STEEL

11 gauge, otherwise the same as No. 1 Beet Knife.

Price.....per dozen \$5.60

No. 3 BEET KNIFE SILVER STEEL

Length of blade, 9½ inches. Width at widest part, 2¾ inches. Length over all, 15½ inches. Curved blade, 14 gauge. Hardwood handle, natural finish. Number of rivets, 3.

Price.....per dozen \$6.20 Weight, per dozen..pounds 10

No. 4 BEET KNIFE SILVER STEEL

11 gauge, otherwise the same as No. 3 Beet Knife.

Price.....per dozen \$6.80

No. 5 BEET KNIFE SPECIAL STEEL

Length of blade, 1134 inches. Width at widest part, 2 inches. Length over all, 1814 inches. Straight blade with prong. Hardwood handle, natural finish. Number of rivets, 3

Price per dozen \$8.00 Weight, per dozen pounds 9

No. 6 BEET KNIFE SPECIAL STEEL

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. Hardwood handle, natural finish. Number of rivets, 3.

 $\begin{array}{ll} \text{Price.....per dozen} & \$8.00 \\ \text{Weight, per dozen..pounds} & 9 \end{array}$

No. 555 BEET KNIFE SPECIAL STEEL

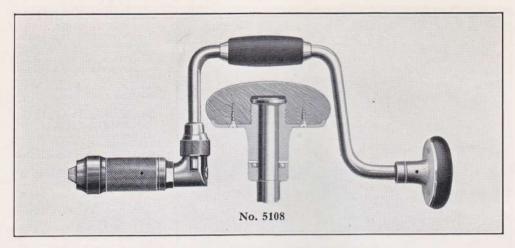
Length of blade, 9½ inches. Width at widest part, 1½ inches. Length over all, 15 inches. Pointed, straight blade. Hardwood handle, natural finish. Number of rivets, 3.

Price.....per dozen \$5.60 Weight, per dozen.pounds 7

All above packed one-half dozen in box.

ATKINS RATCHET BIT BRACES

ENCLOSED FRAME



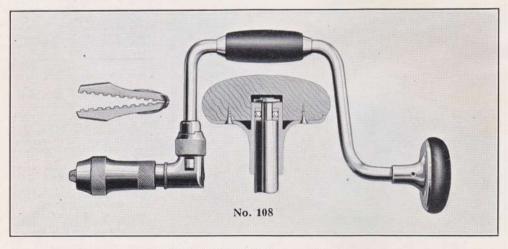
ATKINS RATCHET BIT BRACES

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 $\frac{1}{8}$ to $\frac{1}{2}$ 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	\$42.00	No. 5112, 12-inch sweep per dozen	\$45.00
No. 5110, 10-inch sweep per dozen	43.20	No. 5114, 14-inch sweep per dozen	46.80

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 36 pounds per dozen.

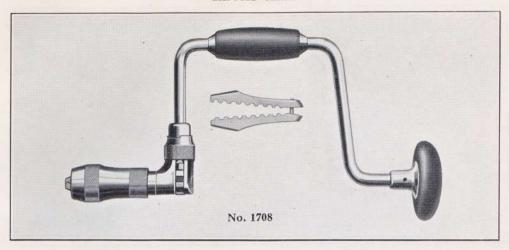


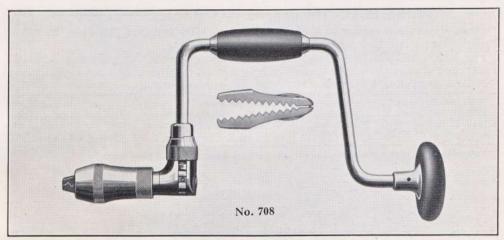
SIZES AND PRICES, Nos. 106-114

No. 106, 6-inch sweep per dozer No. 108, 8-inch sweep per dozer		
No. 110, 10-inch sweep per dozer		

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. 1710, 10-inch sweep per dozen 19.20	o. 1712, 12-inch sweepper dozen	420.00
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No. 508 RATCHET BIT BRACES

Heavily nickeled. Ebonized or mahogany stained and polished hardwood head and handle. Metalclad head. Not ball-bearing.

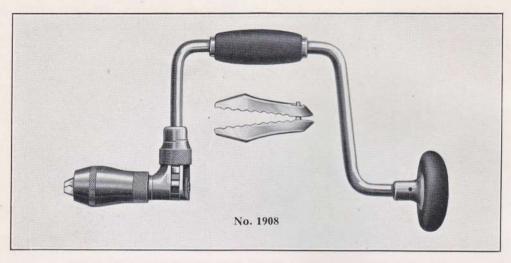
SIZES AND PRICES

No. 508,	8-inch sweep per dozen	\$18.00	No. 512, 12-inch sweep per dozen	\$20.50
No. 510,	10-inch sweep per dozen	19.00		

No. 708 RATCHET BIT BRACES SIMILAR TO ABOVE BUT NOT NICKEL-PLATED-SIZES AND PRICES

No. 708, 8-inch sweepper dozen No. 710, 10-inch sweepper dozen			veep : per dozen	\$17.40
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ATKINS PLAIN OR SLEEVE BIT BRACES



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.

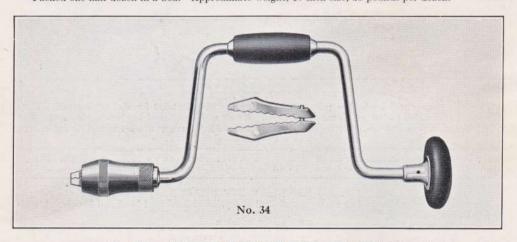
The Heads and Handles are of hardwood, mahoganized. The Head is screwed on and cemented in place. Cast steel Alligator Jaws. Polished and nickel-plated.

Sizes and Prices. Nos. 1908-1912

Sizes and Prices. Nos. 68-72

Sizes and Prices, Nos. 1908-1912		Sizes and Prices, Nos. 68-72		
No. 1908, 8-inch sweep		No. 68, 8-inch sweep per dozen No. 70, 10-inch sweep per dozen No. 72, 12-inch sweep per dozen Similar to opposite side but not nickel-pla	13.20 13.80	

Packed one-half dozen in a box. Approximate weight, 10-inch size, 28 pounds per dozen.



ATKINS PLAIN OR SLEEVE BIT BRACES No. 34

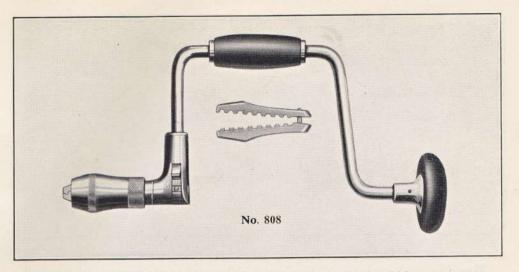
Heavily nickel-plated. Plain, hardwood head and handle, ebonized. Not ball-bearing. A good, low priced brace.

SIZES AND PRICES, Nos. 34-39

No. 34, 8-inch sweepper dozen	\$10.80	No. 37, same, finely polished per dozen	
No. 35, 10-inch sweep per dozen	11.40	No. 38, same, finely polished per dozen	9.00
No. 36, 12-inch sweepper dozen	12.00	No. 39, same, finely polished per dozen	9.60

ATKINS RATCHET BIT BRACES

EXPOSED GEARS



ATKINS RATCHET BIT BRACES, No. 808

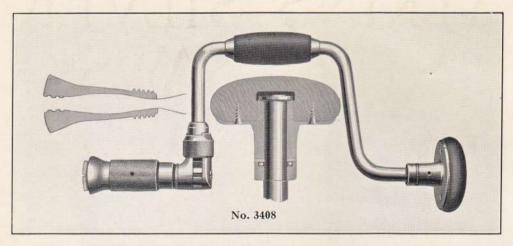
These Braces have the latch pawl style of ratchet ends. The sweep is of cold drawn steel. Hardwood head and handle, mahoganized. Blued finish pawls and cast steel alligator jaws. The head is screwed on and cemented in place. All metal parts polished.

No. 808, 8-inch sweep	\$11.40
at one in the second control of the second c	174 - 070
No. 810, 10-inch sweep	12.00

Packed one-half dozen in a box. Approximate 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. The Chucks are of steel, and Jaws are made of forged steel designed to firmly hold all sizes of square thank bits. The Sweep is made from finished cold drawn steel.



ATKINS SILVER STEEL SAWS

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.

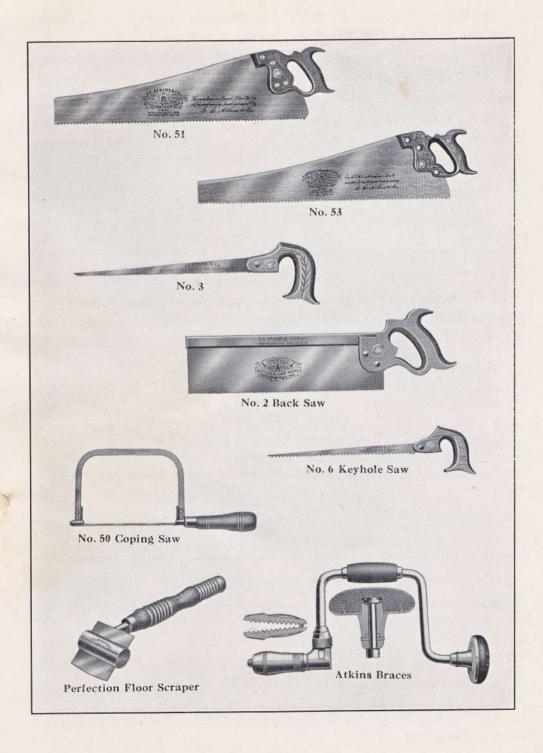
For the metal working departments, Atkins AAA Non-Breakable and Power Hack Saw Blades will be found admirably fitted. These, used in connection with any of the improved patterns of Atkins Hack Saw Frames, will insure most satisfactory service.

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 SILVER A STEEL SAWS

MANUAL TRAINING SAWS AND TOOLS



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 pages 203 and 207.	Lengths from 16 to 30 inches
inclusive.		

Lengthinches	16	18	20	22	24	26
Priceper dozen	\$16.75	\$18.50	\$20.50	\$22.50	\$24.50	\$25.50

No. 51

Lengthinches	16	18	20	22	24	26
Priceper dozen	\$16.00	\$17.75	\$19.50	\$21.75	\$23.50	\$24.50

No. 3 COMPASS

For details, see page 218.	Other styles shown on that page, also on page 21	8.
Lengths, 10, 12, 14 and 16 inch	per dozen	\$5.00

No. 6 KEYHOLE

This saw is shown together with other patterns on page 219.	Made 10 and 12 inc	h.
Price		50

No. 2 BACK SAW

A complete line of back, mitre box and dovetail sa	ws is shown on page 217.
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Lengthinches	8	10	12	14	16	18
Priceper dozen	\$15.00	\$16.00	\$18.00	\$20.00	\$22.50	\$25.00

No. 50 COPING SAW

This and other styles of coping saws will be found on pages 222 and 223.

No. 50, complete with blade	\$10.00
Blades onlyper dozen	.85

PERFECTION FLOOR SCRAPER

This with several other patterns of scrapers and scraper blades is fully listed and described on pages 242 and 243.

Pricepe	er dozen	\$10.00
Extra blades of Silver Steel	er dozen	1.40

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 248 to 252, inclusive.

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.

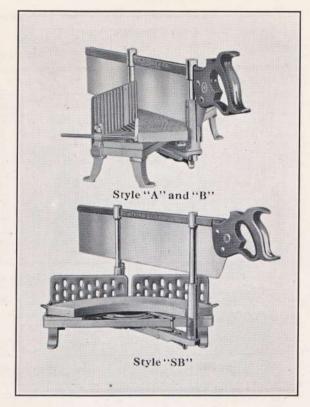
The length gauges have a capacity up to 18 inches and the stock gauges on the back are swiveled, and swing behind box when not in use.

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.



PRESSED STEEL

This box is built entirely of steel. It is practically non-breakable, yet is very light, weighing only 13½ pounds, fully equipped. It has a detachable lever, and may be packed in a small space, and carried with a kit of tools.

The parts are pressed or forged to shape and welded together.

The bed and back are perforated giving a perfect clearance for sawdust, and the plates are roughened to prevent work from slipping. The lever has an adjustment in any direction to correct the run of the saw. The degree scale is cut onto the frame and is clear and easily read. The saw guides are turned from a solid bar and have detent pins to hold saw elevated. The lock for fastening the lever at any point is operated by the finger latch. The feet have steel spurs set into them to prevent them from slipping. The parts are heavily copper plated and oxidized giving a pleasing and rustproof finish.

Size		Saw	Capacity at Right Angles Inches	Capacity at Miter Inches	Price, Each with Saw
A24	Cast Iron	24 x 4	101/4	7	\$12.25
A26	Cast Iron	26 x 4	101/4	7	12.50
A28	Cast Iron	28 x 4	101/4	7	12.75
B26	Cast Iron	26 x 5	101/4	7	13.50
B28	Cast Iron	28 x 5	101/4	7	13.75
B30	Cast Iron	30 x 5	101/4	7	14.00
C30	Cast Iron	30 x 6	101/4	7	15.50
SB26	Pressed Steel	26 x 5	101/4	7	13.00
SB28	Pressed Steel	28 x 5	101/4	7	13.50
SB30	Pressed Steel	30 x 5	101/4	7	14.00

PRICE LIST OF FILES AND RASPS

Flat

Square

Hand and Pillar

Inch	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth	Inch	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	\$3.00 3.20 3.50 3.90 4.30 4.90 5.60 6.70 7.50 9.40 10.70 13.10 14.70 18.20 20.20 24.60 27.40	\$3.50 3.80 4.00 4.60 5.80 6.40 7.80 8.60 10.70 15.00 16.80 20.20 22.70 27.50 30.70	\$3.90 4.10 4.50 4.90 6.30 7.00 8.50 9.40 11.70 13.10 16.10 17.90 21.70 24.30 29.40 32.90	\$3.70 3.90 4.30 4.80 5.30 6.30 7.00 8.60 9.70 11.80 13.30 16.00 17.80 21.50 23.90 28.40 31.50	\$4.30 4.60 4.80 5.50 6.10 7.20 9.80 11.00 13.60 15.30 18.30 20.10 24.20 31.60 35.30	\$4.70 4.90 5.30 6.10 6.60 7.90 8.70 10.70 12.10 14.70 16.70 20.00 22.30 26.50 29.20 34.60 38.30	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	\$3.80 4.10 4.60 5.10 5.50 6.60 7.40 9.10 10.20 12.50 13.90 16.90 18.70 22.50 22.50 29.70 32.80	\$ 4.60 4.80 5.10 6.30 7.70 8.50 10.40 11.50 14.30 16.10 19.20 21.20 25.40 28.20 33.20 36.70	\$4.90 5.30 5.50 6.30 7.00 8.30 9.10 11.30 12.80 15.40 17.50 20.90 23.30 27.50 30.40 35.70 39.30	\$3.70 3.90 4.30 4.90 5.40 6.70 7.50 9.40 10.70 13.30 15.00 17.90 20.10 24.20 35.10	\$4.30 4.70 5.10 5.80 6.30 7.80 8.70 10.90 12.30 15.20 17.00 20.60 22.80 27.10 29.90 35.40 39.20	\$4.80 5.30 5.60 6.30 6.70 8.30 9.40 11.80 13.50 16.20 18.20 21.70 22.4.20 28.60 31.50 37.60 41.60
2 in. Mill Di	unt, Dbl. bl. Cut., ac rrow Poin	lvance 1	in.		lunt) Di nce 2 in.	ol, Cut.,	Squar	re Blunt	advance	1 in.	2 in. Cotter	Blunt of ance 2 in.	r Taper
Inch	One	Mill Round	Edge	Two	Mill Round	Edges	Inch	Та	per	Slim	Taper	Band Blunt Tap	and
						-			1				
	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth		Single Cut	Double Cut	Single Cut	Double Cut	Regular	Slim

Sizes below 4 inches, not extended, take 4-inch price.

Half inches, not specified, take next higher full inch price.

Dead smooth, double the price of bastard cut.

One round edge, advance 121/2 per cent.

Mill and Round

All lengths above those listed, advance 20 per cent on next lower inch price.

Blunt files, not specified, advance one inch on respective kinds and cuts.

Single or float cut, not specified, on regular shapes take double cut price.

Equalings (bellied), advance two inches on respective kinds and cuts.

Two round edges, advance 25 per cent.

Files varying from standard sizes, subject to special prices.

Cuts not specified, made upon regular blanks, advance one inch on respective kind and nearest cut.

PRICE LIST OF FILES AND RASPS

CONTINUED

PRICE PER DOZEN

		f Round ree Squ		1	Warding				Knife			S	hoe Rasps	8
Inch	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth	Inch	Bastard	2d Cut	Smooth	Inch	Flat	Half Round	Oval
Crossi Tumb Feath High		. advan (blunt) . advan . advan	\$6.10 6.40 7.10 8.20 8.90 9.90 10.70 12.70 13.90 21.70 24.20 28.90 32.00 38.10 42.30 Price. ce 2 in. ce 2 in. ce 2 in. ce 2 in. ce 2 in. ce 2 in.	8 inch	1 1 1	.\$ 9.40		Re	gular siz List pric	META e and sha	AL F	ILES 4 inches er dozen	\$8.10 9.30 10.10 12.20 13.70 16.80 18.70 24.80 	

Oval

\$9.30 10.10 12.20 13.70 16.80 18.70 22.40

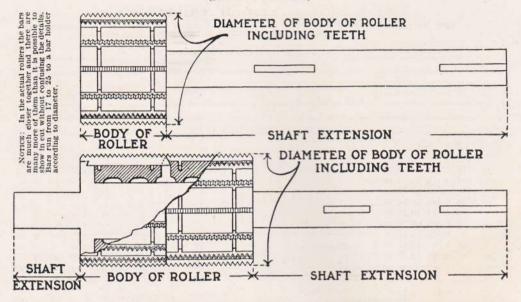
Plain and 34 Rasp Round Plait Round Round Round Round Round Round Round Round		H	Iorse Rasp	s	File	Rasps		,	Wood File	s	Wood Rasps						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Inch	Plain	and	Tanged	Flat		Inch	Flat		Cabinet	Flat		Cabinet				
16 24.40 27.50 32.20 32.90 28.90 17 21.50 24.70 38.90 36.20 38.90 42	7 8 9 10 11 12 13 14 15	\$ 9.40 11.40 12.80 15.20 17.80 20.90 24.40 28.90	\$10.70 12.90 14.40 17.00 20.10 23.60 27.50 31.50	\$12.80 15.20 16.80 19.60 23.10 27.30 32.20	8.60 9.40 11.40 12.80 15.50 17.50 20.90 23.20 27.80 30.80 36.20	9,30 10,10 12,20 13,70 16,80 18,70 22,40 24,80 29,70 32,90 38,90	7 8 9 10 11 12 13 14 15 16 17	4.80 5.30 6.30 7.00 8.60 9.70 11.80 13.30 16.00 17.80 21.50	7.00 7.50 8.50 9.10 10.70 11.80 14.10 15.50 20.60 24.70	9.30 10.10 12.20 13.70 16.80 18.70 22.40 24.80 29.70 32.90 38.90	8.60 9.40 11.40 12.80 15.50 20.90 23.20 27.80 30.80 36.20	9.30 10.10 12.20 13.70 16.80 18.79 22.40 24.80 29.70 32.90 38.90	\$10.10 11.70 12.80 15.50 17.50 20.70 22.80 26.80 29.60 33.90 36.90 42.40 46.90				

Inch	Pit Saw	Cant Saw	Gt. Am. Cross Cut	Hook Tooth	Planer Knife	Tooth or Chisel Tooth	Double Ta	-Ended per
Inch	Single Cut	Single Cut	Single Cut	Single Cut	Single Cut	Price	Inch	Price
4 5 6 7 8 9 10 11 12	\$ 4.80 5.40 6.10 7.00 7.50 8.50 9.10 10.70 11.80	\$ 4.30 4.70 5.40 6.10 6.40 7.80 8.70 10.40 11.40	\$ 4.80 5.40 6.10 7.00 7.50 8.50 9.10 10.70 11.80	\$ 6.70 7.70 8.30 9.40 10.10 11.80 13.00	\$ 6.40 8.60	\$ 8.30 9.40 10.10	6 7 8 9 10	\$3.50 3.50 3.90 4.40 4.90

Climax, advance 2 inches on half round bastard. Round gulleting, take pit saw price.

COLEMAN BOLTER AND LATH MILL ROLLERS

(PATENTS PENDING)



Length						D	iamete	r Body	, Inch	ies					
of Body Inches	21/2	23/4	3	31/4	31/2	33/4	4	41/4	$4\frac{1}{2}$	43/4	5	51/4	51/2	53/4	6
3	8.58	11.12	13.68	13.88	14.09	14.29	14.50	15.36	16.22	17.09	17.96	18.49	19.02	19.55	20.10
4	8.75	11.29	13.84	14.28	14.72	15.17	15.61	16.45	17.58	18.42	19.37	19.94	20.51	21.11	21.7
5	8.92	11.46	13.99	14.68	15.36	16.04	16.73	17.54	18.94	19.75	20.77	21.40	22.00	22.67	23.39
6	9.08	11.63	14.15	15.06	16.00	16.92	17.84	18.65	20.29	21.08	22.18	22.85	23.48	24.23	24.99
8	9.25	11.80	14.30	15.47	16.63	17.80	18.96	19.73	21.65	22.42	23.58	24.30	24.97	25.79	26.55
10	9.42	11.96	14.46	15.86	17.27	18.67	20.08	20.82	23,00	23.75	24.98	25.75	26.45	27.35	28.1
12	9.59	12.13	14.62	16.26	17.90	19.55	21.19	21.91	24.36	25.08	26.39	27.20	27.95	28.91	29.73
14	9.76	12.30	14.76	16.66	18.54	20.43	22.31	23,00	25.72	26.41	27.79	28.66	29.44	30.47	31.30
16	9.92	12.47	14.93	17.05	19.18	21.30	23.42	24.10	27.07	27.84	29.20	30.11	30.92	32.03	32.90
18	10.09	12.64	15.08	17.45	19.81	22.18	24.54	25.19	28.41	29.08	30.60	31.56	32.51	33.59	34.5
20			15.24												
22	10.50	13.00	15.48	18.31	21.14	23.98	26.82	28.48	30.13	31.79	33.48	34.56	35.64	36.72	37.8

Lath mill rollers and bolter rollers measuring more than 22 inches between the shoulders take same price as edger rollers. Extra insertable saw tooth bars, 10.8 cents each.

SHAFT EXTENSIONS

(Total Both Ends)

			D	i	11	n	et	e	r,	1	n	c	he	es												1	21	ric	e per Incl
7	100	-		-				26	12	256	854	324		S		17.					+	ų.							\$0.03
11.							7.	112	16				ij.	4					*				14			86			.04
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3																18											5		.07
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3	ia ve	-2	Tr.	100			Tć 20	Te			0.6			0			**	000		***	911	41		*					.13
7																													.16

Sizes not listed take same price as next size larger. Diameter body measurement over teeth.

Prices net F. O. B. Factory.

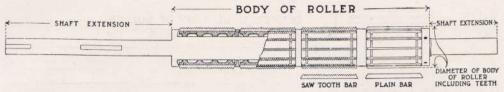
Terms 1% discount 10 days; 30 days net.

TO ESTIMATE SHIPPING WEIGHT

Diam. Body Inches	Weight per ft. lbs.	Diam. Shaft Ext. Inches	Weight per ft. lbs.
21/2	16	$1\frac{7}{16}$	91/2
23/4	19	$1\frac{11}{16}$	12
3	22	115	16
31/4	26	23	19
31/2	30	$2\frac{7}{16}$	23
33/4	351/2	211	261/2
4	40	215	301/2
41/4	45	$3\frac{13}{16}$	341/2
41/2	51	375	391/2
43/4	561/2		
5	631/2		
51/4	70	14.4.4	
51/2	761/2	1212	
53/4	841/2		
6	911/2	74.4.4	

COLEMAN EDGER ROLLERS

(PATENTS PENDING)



Add price shaft extensions to price of body

Length]	Dia	me	ter	Во	dy,	In	che	s									
of Body Inches	21/2	23/4	3	31/4	3	1/2	3	3/4	-		4	1/4	4	1/2	4	3/4		5	51/4	5	1/2	53	4	(3
24	12.25	15.85	17.60	23.6	25	.25	27	.05	29	.00	30	.85	32	.75	34	.30	35	.80	37.00	38	.30	39	.50	40	.20
26			20,00																		.90	42	.05	42	.85
28			22.40																		.55	44	.65	45	.50
30			24.80																		.20	47	.20	48	.10
32			27.20																		.85	49	.80	50	.75
- 34			29.60																		.50	52	.40	53	.40
36			32.00																		.05	54	.95	56	.15
38	26.95	31.40	34.40	40.60	142	.30	44	.65	46	55	48	.65	50	.50	52	.15	53	.50	54.8	5 56	.40	57	.30	58	.45
40	28.85	33.10	37.20	42.2	43	.80	46	.70	48	65	50	.95	53	.00	54	.40	55	.80	57.10	58	.75	59	.65	60	.70
42	27.00274	100000	38.60																		.10	62	.00	63	.00
44			39.95	45.40	146	.80	50	.75	52	85	55	.60	57	.90	59	.00	60	.35	61.70	63	.40	64	.30	65	.30
46	* * * * * *	1,000	41.35	47.0	48	.30	52	.80	54	95	57	.95	60	.35	61	.25	62	65	63.93	65	.75	66	.65	67	.55
48	S. S. S. S. S. S.	ALCOHOL:	42.85	48.8	50	.00	54	.85	57.	10	60	.35	62	.75	63	.50	65	.00	66.33	68	.05	68	.95	69	.95
50					51	.05	55	60	57	70	60	.85	63	.20	64	.25	65	65	67.00	68	.65	69	.60	70	.60
52		* * * * *			52	.15	56	.40	58.	30	61	.30	63	.90	65	.05	66	30	67.70	69	.25	70	.25	71	.30
54					53	.20	57	.20	58.	90	61	.80	64	.00	65	.80	66	.95	68.3	69	.85	70	.90	71	.95
56		11111			54	.30	57	.95	59.	50	62	.30	64	.45	66	.60	67	60	69.00	70	.65	71	.60	72	.60
58		1			55	.40	58	75	60.	10	62	.75	64	.85	67	.40	68	.30	69.63	71	.05	72	.25	73	.20
60																					.50	73	.10	74	.13
62					57	.80	60	.35	61.	30	63	.95	66	.35	69	.10	69	95	71.70	72	.70	74	.40		.60
64					58	.85	61.	.15	61.	90	64	.70	67	.20	69	.95	71.	05	72.8	73	.90		.70	77	7000
66				1000	59	95	61	90	62 .	50	65	40	68	.05	70	.85	72	10	74.00	75	.10		.05		.50
- 68									63.	10	66	.10	68	.90	71	.75	73	20	75.10	76	.30		.35	79	
70		9118191 X1181							63 .	70	66	.85	69	.70	72	65	74	30	76.26	77	.50		.70		.35
72	******								64.	25	67	.55	70.	60	73	.70	75.	60	77.40	78	.70		.00	82	
78													73.	.15	76	.40	78.	85	80.68	82	.50		.60		.50
84	****									+15			75.	65	79	.10	82.	10	82.80	85	.90	570 TE	.20	- TO 731	.10
90					17114					wa.							85.	30	87.10	89	.50			93	
96					1124	1110	- 29			25.	100						88.	55	90.35	93	.10			97	
108					1100	0.00				2.4							95.	05	96.85	100	.30	102	.60	104	.40

Extra Insertable Saw Tooth Bars, 10.8 cents each.

Extra Insertable Plain, 10.8 cents each.

SHAFT EXTENSIONS

(Total Both Ends)

		i	I)i	a	m	ie	ti	er	,	I	n	c	h	es							1	91	i	e	per Inch
17		 																	,							\$0.03
11	*:-					000	100		*		*			*												.04
15				5.																						.05
16				0.4																						.07
7																			*							.08
11		8												14						*						.10
15																			4						4	.11
3	28																									.13
7		1		912	1		1		4	1				12	٠		7							ŭ.		.16

Sizes not listed take same price as next size larger. Diameter body measurement over teeth.

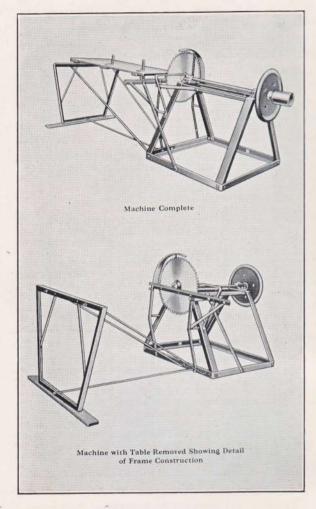
Prices net F. O. B. Factory.

Terms 1% discount 10 days; 30 days net.

TO ESTIMATE SHIPPING WEIGHT

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
3	22	115	16
31/4	26	23	19
31/2	30	27/16	23
33/4	351/2	211	261/2
4	40	215	301/2
41/4	45	3 3 6	341/2
$4\frac{1}{2}$	51	$3\frac{7}{16}$	391/2
43/4	$56\frac{1}{2}$		
5	$63\frac{1}{2}$ -		
51/4	70		***
$5\frac{1}{2}$	$76\frac{1}{2}$		
$5\frac{3}{4}$	841/2	14.4	
6	$91\frac{1}{2}$		

ATKINS STANDARD ALL-STEEL FRAME WOOD SAW MACHINE



DESCRIPTION

In introducing Atkins Standard All-Steel Frame Wood Saw Machine we feel that dealers and users will recognize at a glance the superiority of this machine over the all-wood frame wood saw. The simplicity, strength and durability are at once recognized, as there is no wood used in its construction except the table. The arches, base and table standard are all steel angle, and as constructed, makes a very solid and substantial job.

The arches that carry the saw mandrel are $3 \times 2 \times 14$ steel angle. The angle is cut, bent and welded so that it is as strong as it is possible to make it. The base is made of one piece of angle, bent and welded which forms a solid one-piece base that could not be made better. The arches are bolted to the base through each flange of the angle and is very rigid. The brace at the top of the arches is one solid piece of steel angle, which is attached to the arches with two bolts at the ends, and the box bolts also engage it, so that the top of the arches can not get out of line, therefore the frame is more rigid than if fitted with clumsy cross braces.

The table is carried on two rollers at each end that run on steel track. The rollers are 2½ inches in diameter, which makes one of the very easiest operating tables that it is possible to construct. The standard at the outer end of the table is connected to the main frame by half-inch steel rods threaded with two nuts on each end so that it can be adjusted to keep the rollers on the center of the track.

The base has holes drilled in the bottom flange so that the saw frame can be bolted to the floor, or put on skids for transporting from one place to another. A good way to arrange it when a gasoline engine is used for power is to take two skids 14 or 16 feet long and put the saw on one end and the engine on the other, and it can all be moved from place to place without taking the belt off. By so doing the saw can be moved to small piles of wood and the wood need not be handled until after it is cut.

The mandrel is $1\frac{1}{2}$ inch cold rolled steel fitted for saws with $1\frac{3}{8}$ inch hole. We equip this machine with our 24-inch 11-gauge cordwood saws unless otherwise specified. Larger saws may be had for the extra price for size wanted.

SPECIFICATIONS

A N	3 x 9 x 1/
Arches, angle	3 x 2 x ½
Rase angle	
Standard and brace, angle	
Length of mandrel over all, inches	
Weight of balance wheel, pounds	70
Size of pulley, inches	
Shipping weight complete, pounds	



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ATKINS SILVER A STEEL SAWS



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