E. C. ATKINS & COMPANY

SAWS
SAW TOOLS and MACHINE KNIVES

INDIANAPOLIS
U. S. A.


E. C. ATKINS ALWAYS AHEAD
AAA
TRADE MARK
E.C.ATKINS & CO. INDIANAPOLIS, IND.

Established 1857 · Incorporated 1885

E. C. ATKINS & COMPANY

SAWS

SAW TOOLS *and* MACHINE

KNIVES

No. 19

INDIANAPOLIS, INDIANA, U.S.A.

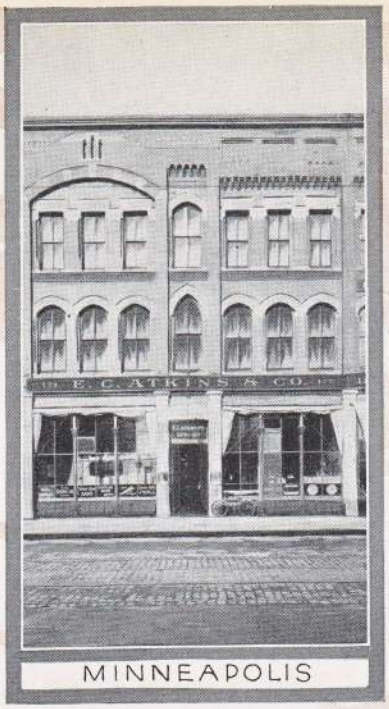
Branch Houses

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

□

Machine Knife Factory: LANCASTER, NEW YORK
Canadian Factory: HAMILTON, ONTARIO

VANCOUVER



MINNEAPOLIS

SEATTLE

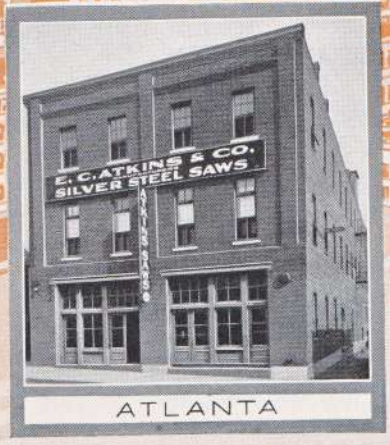
PORTLAND

SAN FRANCISCO

NEW YORK

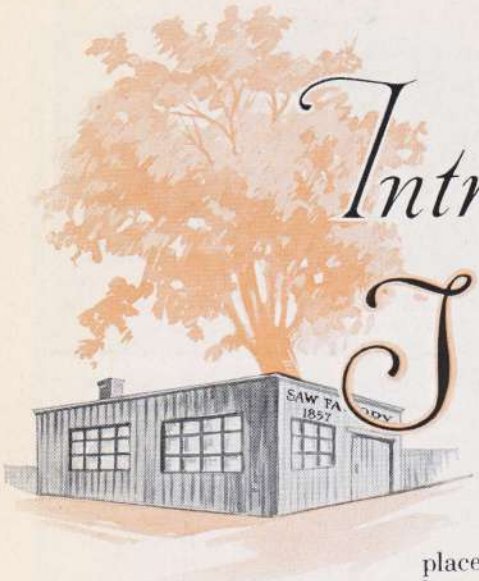
NEW ORLEANS

CHICAGO



ATLANTA

MEMPHIS



Introductory

THE ATKINS FAMILY have been identified with metal working for generations. From one generation to another, they have actually followed the growth of the Saw from its most primitive type to its present state of development. They have been students; they are a family of inventors; to them the world is largely indebted for the innovations that have taken place in the Saw World; the commonplace has never satisfied their ambitions—the slogan has ever been, "Atkins Always Ahead." This means more than a mere catch phrase. It means that the policy of the Atkins Family has been to maintain the highest standard in all things pertaining to the making of the very finest Saws, Saw Tools and Machine Knives.

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

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

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

OUR DEPARTMENTS

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

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

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

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

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

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

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

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

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

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

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

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

GENERAL INFORMATION

CREDITS

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

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

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

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

REMITTANCES

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

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

ORDERS

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

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

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

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

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

SHIPMENTS

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

PARCEL POST

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

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

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

THE ATKINS GUARANTEE

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

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

ATKINS CIRCULAR AND BAND SAWS

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

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

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

METAL SAWS

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

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

ATKINS CROSS CUT SAWS

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

ATKINS SILVER STEEL HAND, WOOD AND OTHER SMALL SAWS

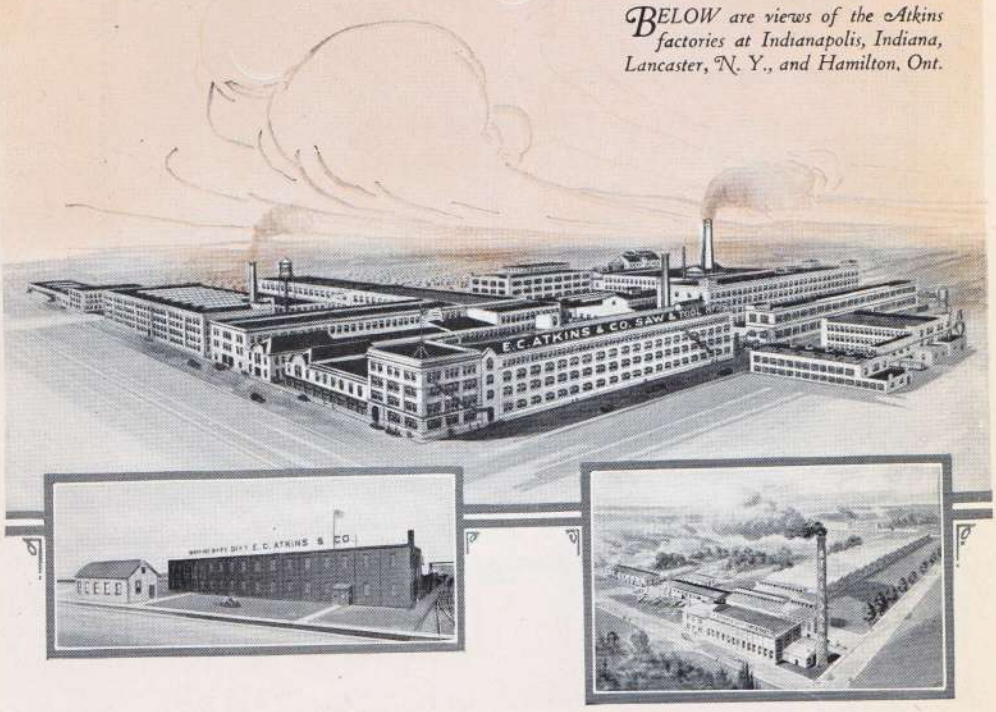
Any Atkins Silver Steel Hand, Rip, Panel, Keyhole, Back, or other saw bearing our name is fully warranted against all defects and guaranteed to give complete satisfaction in every way and is subject to replacement if defective in any particular.

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

Our Branches

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.; Paris, France, and our Canadian factory at Hamilton, Ont., as well as our Machine Knife Factory at Lancaster, N. Y., and numerous distributing agents throughout the world, place the Atkins line within easy reach of the users of saws, saw tools and machine knives everywhere.

BELOW are views of the Atkins factories at Indianapolis, Indiana, Lancaster, N. Y., and Hamilton, Ont.



MEDALS AWARDED E. C. ATKINS & CO.

CENTENNIAL EXPOSITION
PHILADELPHIA, 1876

WORLD'S COLUMBIAN EXPOSITION
CHICAGO, ILLINOIS, 1893

EXPOSITION UNIVERSELLE
INTERNATIONAL
PARIS, 1900

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

ALASKA-YUKON-PACIFIC
EXPOSITION
SEATTLE, 1909

EXPOSITION INTERNATIONALE
DE LEST DE LA FRANCE
NANCY, 1909

INDIANA STATE, 1864

WORLD'S INDUSTRIAL AND COTTON
CENTENNIAL EXPOSITION
PHILADELPHIA, 1884

THE ATKINS TELEGRAPHIC CODE

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

TIME AND MANNER OF SHIPPING

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

SHIPMENT QUESTIONS

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

SHIPMENT ANSWERS

Apace.....Ship via rail.
Apeak....Ship via rail and lakes.
Apery.....Ship via steamer.
Apian.....Ship via express.
Apish.....Ship via sailing vessel.
Aport.....Ship via cheapest route.
Appal.....Ship via quickest route (freight).
Apron....We can ship
Aptly.....We can ship at once.
Araby....We expect to ship today.
Ardor.....We expect to ship
Arear.....We expect to ship order complete.
Areek.....We expect to make partial shipment
Arena.....We expect to ship balance of order
Argon.....We made you shipment
Argot.....We completed your order
Argue.....Shipment was made to
Argus.....Shipment was made by
Arian.....Shipment was made on
Ariel.....We will ship as soon as possible.
Arise.....We can make shipment on receipt of order.
Armed....We cannot promise definitely.
Armor....Impossible for us to fill your order in time specified.
Arose.....If ordered immediately, can ship
Array.....If ordered today, can ship
Arrow.....Will do our best to ship earlier.
Aside.....Will try to ship in 1 day.
Aspen.....Will try to ship in 2 days.
Aspic.....Will try to ship in 3 days.
Assay.....Will try to ship in 4 days.
Astel.....Will try to ship in 5 days.
Astun.....Will try to ship in 6 days.
Asure.....Will try to ship in 7 days.
Atilt.....Will try to ship in 8 days.
Atimy....Will try to ship in 9 days.
Atjar.....Will try to ship in 10 days.
Atluk.....Will try to ship in 2 weeks.
Atman....Will try to ship in 3 weeks.
Atoll.....Will try to ship in 4 weeks.
Atone.....Will try to ship in 5 weeks.
Attic.....Will try to ship in 6 weeks.
Attus.....Will try to ship in 60 days.
Brand.....Will try to ship tomorrow.
Bride.....Will try to ship in week to 10 days.
Beeze.....Will try to ship in 10 days to 2 weeks.
Booze.....Will try to ship in 2 to 3 weeks.
Brade.....Will try to ship in 3 to 4 weeks.
Broad.....Will try to ship in 4 to 5 weeks.
Batem....Will try to ship in 5 to 6 weeks.
Brace.....Will try to ship in 6 to 8 weeks.

SHIPMENT INSTRUCTIONS

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

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....Free on board at
Baler.....Less freight allowance per 100 pounds of
Balky.....Please send specifications in detail.
Balmy....We cannot accept offer
Balsa.....You can quote
Basop.....We have not quoted.
Bater.....If necessary to meet competition, you can quote.

ORDERS

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

THE ATKINS TELEGRAPHIC CODE—Continued

CANCELLATIONS

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

GENERAL

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

DISCOUNTS

	Per Cent		Per Cent		Per Cent		Per Cent
Batch	2	Belay	25	Bites	45	Bloat	65
Bathe	2½	Belie	30	Blame	50	Boast	70
Baton	3	Belle	30–5	Bland	50–5	Bogle	70–5
Bazar	5	Berob	30–10	Blare	50–10	Bogus	70–10
Beaky	7½	Berry	30–10–5	Blast	50–10–5	Boost	70–10–5
Beamy	10	Berth	30–10–10	Blaze	50–10–10	Boots	70–10–10
Beard	15	Beryl	35	Bleak	55	Booty	75
Beast	20	Beset	40	Blear	60	Borne	80
Bedew	20–5	Bight	40–5	Bless	60–5	Bossy	80–5
Beeve	20–10	Bigot	40–10	Blind	60–10	Bower	80–10
Befit	20–10–5	Biped	40–10–5	Blink	60–10–5	Boxer	80–10–5
Befog	20–10–10	Bison	40–10–10	Bliss	60–10–10	Braid	80–10–10

TERMS

Brain	10 days net	Breed	Special terms per contract	Clout	3 days Sight Draft
Brash	30 days net	Bribe	2 per cent cash in 10 days or 60 days net	Close	30 days Sight Draft
Bravo	60 days net			Cloth	60 days Sight Draft
Brawl	90 days net	Brier	2 per cent cash in 30 days	Cluck	90 days Sight Draft
Braxy	4 months net	Clime	Sight Draft	Clung	120 days Sight Draft

CIRCULAR AND MILL SAWS

Cabal....Circular saws, solid tooth rip
Cabby....Circular saws, solid tooth cross cut
Cabin....Circular saws, solid tooth, grooving
Cache....Circular saws, solid tooth shingle or heading saws
Caddy....Circular saws, inserted chisel tooth (style tooth No. 5)
Cadet....Circular saws, inserted chisel tooth (style tooth No. 4)
Cadge....Circular saws, inserted chisel tooth (style tooth No. 3)
Calix....Circular saws, inserted chisel tooth (style tooth No. 2½)
Calla....Circular saws, inserted chisel tooth (style tooth No. 2)
Camel....Circular saws, inserted chisel tooth (style tooth No. 30)
Canal....Circular saws, inserted chisel tooth (short holder pattern)
Canad....Circular saws, inserted chisel tooth, ("S" pattern)
Canbo....Atkins inserted tooth cut-off saw
Candy....Circular saws, solid tooth, edgers
Caned....Circular saws, solid tooth, re-saws
Canny....Circular saws, solid tooth, top saws
Canoe....Circular saws, veneering saws in segments
Canto....Circular saws, slate
Caper....Circular saws, McKam Tooth
Carib....Circular saws, wabble
Carol....Circular saws, lock corner box cutters
Carom....Circular knives
Carpo....Dado heads
Carve....Circular saws, meta
Caste....Circular saws, milling saws for Bryant Machine
Catch....Circular saws, milling saws for Higley Machine
Cater....Circular saws, lathe
Catty....Circular saws, hot
Cattx....Circular saws, cold
Cavil....Band saws (mill)
Chafe....Band saws (scroll)
Chalk....Mulay saws
Chant....Mulay saws, special pattern for Chandler & Taylor Mill
Charm....Gang saws
Chasm....Rift saws
Chaty....Drag saws, tapered 6 x 4 inches
Cheer....Drag saws, tapered 8 x 6 inches
Chide....Drag saws, tapered 7 x 5 inches
Chump....Drag saws, tapered 7½ x 4½ inches
Churn....Drag saws, equal width, 10 inches
Cider....Drag saws, equal width, 8 inches
Cinch....Drag saws, lance tooth
Clash....Drag saws, tuttle tooth
Cleft....Drag saws, mill tooth
Cleve....Drag saws, single hook tooth
Click....Drag saws, diamond tooth
Cliff....Whip saws
Climb....Pit saws
Clink....Cylinder saws
Cloak....Bilge saws

SPEED, REVOLUTIONS PER MINUTE

Clerk	200	Cocoa	675	Comus	1350	Cowan	3000
Clest	250	Codex	700	Couch	1400	Cowle	3250
Clipp	275	Codle	725	Coney	1450	Coxal	3500
Cliga	300	Cohog	750	Conid	1500	Cozen	3750
Clina	325	Coign	775	Conne	1550	Crake	4000
Cling	350	Coind	800	Cooky	1600	Cramp	4500
Clipt	375	Coyne	825	Coomb	1650	Crash	5000
Clont	400	Cokes	850	Cooth	1700	Crawl	5500
Closh	425	Colic	875	Coppy	1750	Craze	6000
Cloud	450	Colly	900	Copsy	1800	Cream	6500
Clove	475	Colon	950	Coque	1850	Credo	7000
Clown	500	Colza	1000	Coral	1900	Creel	7500
Clubs	525	Comal	1050	Corme	1950	Crisp	8000
Clump	550	Combs	1100	Cosey	2000	Croak	8500
Coach	575	Comet	1150	Cough	2100	Crone	9000
Coact	600	Comic	1200	Count	2200	Crust	9500
Coaly	625	Comma	1250	Coury	2500	Cyrer	10000
Coats	650	Compo	1300	Cover	2750	Crexo	12000

THE ATKINS TELEGRAPHIC CODE—Continued

DIAMETER

Daffy	1 inch	Defer	18 inch	Dicky	40 inch	Downy	72 inch
Dairy	2 inch	Deify	19 inch	Digit	42 inch	Drama	74 inch
Daisy	3 inch	Deign	20 inch	Dingy	44 inch	Drape	76 inch
Dally	4 inch	Deity	21 inch	Dirge	46 inch	Drawl	78 inch
Dance	5 inch	Delve	22 inch	Dirty	48 inch	Dread	80 inch
Dandy	6 inch	Demit	23 inch	Doggy	50 inch	Dream	82 inch
Darby	7 inch	Demon	24 inch	Dolce	52 inch	Drego	84 inch
Daunt	8 inch	Demur	25 inch	Dolly	54 inch	Dress	86 inch
Davit	9 inch	Denim	26 inch	Dolor	56 inch	Drier	88 inch
Dawdy	10 inch	Dense	27 inch	Donor	58 inch	Drift	90 inch
Dazed	11 inch	Derby	28 inch	Doric	60 inch	Drink	92 inch
Death	12 inch	Deter	29 inch	Dotty	62 inch	Droll	94 inch
Debar	13 inch	Deuce	30 inch	Doubt	64 inch	Drone	96 inch
Debut	14 inch	Devil	32 inch	Dough	66 inch	Droop	98 inch
Decay	15 inch	Devon	34 inch	Douse	68 inch	Dross	100 inch
Decoy	16 inch	Diana	36 inch	Dower	70 inch		
Decry	17 inch	Diary	38 inch				

GAUGE

Eager	30	Elemi	4	Enarm	7 x 15	Erect	10 x 12
Easel	29	Elfin	3	Endew	7 x 16	Ergal	10 x 13
Eaves	28	Elide	2	Endie	7 x 17	Ergon	10 x 14
Ebrew	27	Elmes	1	Eneid	8 x 8	Erica	10 x 15
Eburn	26	Elode	5 x 5	Enema	8 x 9	Ermin	10 x 16
Eccle	25	Eloge	5 x 6	Enemy	8 x 10	Erose	10 x 17
Echin	24	Eloin	5 x 7	Enerd	8 x 11	Erump	10 x 18
Eclat	23	Elong	6 x 6	Engin	8 x 12	Ervum	11 x 11
Ecole	22	Elope	6 x 7	Engle	8 x 13	Escar	11 x 12
Ectal	21	Elsen	6 x 8	Ensky	8 x 14	Esmal	11 x 13
Edder	20	Elute	6 x 9	Ensue	8 x 15	Essay	11 x 14
Edict	19	Elver	6 x 10	Entad	8 x 16	Estat	11 x 15
Edify	18	Email	6 x 11	Entry	8 x 17	Ester	11 x 16
Edile	17	Emang	6 x 12	Envoy	8 x 18	Estoc	11 x 17
Educt	16	Embar	6 x 13	Enzym	9 x 9	Estre	11 x 18
Efagg	15	Embla	6 x 14	Eosin	9 x 10	Etaac	11 x 19
Egret	14	Embog	6 x 15	Epact	9 x 11	Ethal	11 x 20
Eisel	13	Embry	6 x 16	Ephah	9 x 12	Ether	12 x 12
Ejido	12	Emeer	7 x 7	Ephor	9 x 13	Ethic	12 x 13
Eking	11	Emend	7 x 8	Epoch	9 x 14	Ethos	12 x 14
Elaic	10	Emmet	7 x 9	Epode	9 x 15	Etite	12 x 15
Elamp	9	Emony	7 x 10	Epure	9 x 16	Etude	12 x 16
Elate	8	Empty	7 x 11	Erack	9 x 17	Eurus	12 x 17
Elder	7	Emrod	7 x 12	Erato	9 x 18	Evade	12 x 18
Elect	6	Enact	7 x 13	Erber	10 x 10	Event	12 x 19
Elegy	5	Enage	7 x 14	Erbia	10 x 11	Evict	12 x 20

HAND OF SAWS

Facer.....Left Hand Fable.....Right Hand

NUMBER OF TEETH

Facie	4 teeth	Feast	42 teeth	Finch	80 teeth	Flown	180 teeth
Fadge	6 teeth	Feces	44 teeth	Finis	82 teeth	Fluff	30 to 36
Faggy	8 teeth	Feign	46 teeth	Finit	84 teeth	Fluid	32 to 38
Fagot	10 teeth	Felon	48 teeth	Finny	86 teeth	Flush	34 to 40
Fagus	12 teeth	Fenks	50 teeth	Firth	88 teeth	Flute	36 to 42
Faham	14 teeth	Feoff	52 teeth	Fitab	90 teeth	Flyer	38 to 44
Faint	16 teeth	Ferny	54 teeth	Flail	92 teeth	Focal	40 to 46
Fairy	18 teeth	Fetal	56 teeth	Flake	94 teeth	Focus	42 to 48
Faith	20 teeth	Fetch	58 teeth	Flank	96 teeth	Foggy	44 to 50
False	22 teeth	Fetor	60 teeth	Flash	98 teeth	Foist	46 to 52
Fancy	24 teeth	Fever	62 teeth	Flaxy	100 teeth	Fonde	48 to 54
Fanon	26 teeth	Fibre	64 teeth	Fleak	110 teeth	Foray	50 to 56
Farad	28 teeth	Fiend	66 teeth	Fletz	120 teeth	Forte	52 to 58
Farce	30 teeth	Fiery	68 teeth	Flier	130 teeth	Forum	54 to 60
Faren	32 teeth	Filch	70 teeth	Fling	140 teeth	Fount	56 to 62
Fasel	34 teeth	Filet	72 teeth	Flirt	150 teeth	Foyne	58 to 64
Fatal	36 teeth	Filly	74 teeth	Float	160 teeth	Frack	60 to 66
Fauld	38 teeth	Filum	76 teeth	Flock	170 teeth		
Favel	40 teeth	Final	78 teeth				

POINT TO POINT

Frill	¼ inch	Fugie	1¼ inches	Funny	1¾ inches	Futsy	2½ inches
Frisk	½ inch	Furry	1⅜ inches	Funge	2 inches	Fyord	2¾ inches
Frith	¾ inch	Funic	1½ inches	Furil	2¼ inches	Fylde	3 inches
Fudge	1 inch						

THE ATKINS TELEGRAPHIC CODE—Continued

DIAMETER OF HOLES

Gabby.....Standard mandrel and pin holes.

MANDREL HOLES

Gadhi.....¼ inch
Gaily.....⅜ inch
Galea.....½ inch
Gamba.....⅝ inch
Garum.....¾ inch
Gaudy.....⅞ inch
Gavel.....$\frac{15}{16}$ inch
Gawky.....1 inch
Geist.....1 $\frac{1}{16}$ inches
Gelid.....1⅛ inches
Gemel.....1 $\frac{3}{16}$ inches
Gemma.....1¼ inches
Gemot.....1 $\frac{5}{16}$ inches
Genet.....1⅜ inches
Genie.....1 $\frac{7}{16}$ inches
Genus.....1½ inches
Geode.....1 $\frac{9}{16}$ inches
Gerne.....1⅝ inches
Ghost.....1 $\frac{11}{16}$ inches
Gilet.....1¾ inches
Glace.....1 $\frac{13}{16}$ inches
Glady.....1⅞ inches
Gland.....1 $\frac{15}{16}$ inches
Glick.....2 in. even
Glint.....2 in. full
Globy.....2 in. scant
Glare.....2 $\frac{1}{16}$ inches
Glory.....2⅛ inches
Glove.....2 $\frac{3}{16}$ inches
Glump.....2¼ inches
Gnasp.....2 $\frac{5}{16}$ inches
Gnome.....2⅜ inches
Graff.....2 $\frac{7}{16}$ inches
Grail.....2½ inches
Grape.....2 $\frac{9}{16}$ inches
Greet.....2⅝ inches
Gride.....2 $\frac{11}{16}$ inches
Grief.....2¾ inches
Grill.....2 $\frac{13}{16}$ inches
Grive.....2⅞ inches
Groin.....2 $\frac{15}{16}$ inches
Grope.....3 inches
Groom.....3½ inches
Growl.....4 inches
Guara.....4½ inches
Guile.....5 inches
Guird.....5½ inches
Gumps.....6 inches

PIN HOLES

Habit.....⅛ inch
Haler.....$\frac{3}{16}$ inch
Hamal.....¼ inch
Hanse.....$\frac{5}{16}$ inch
Hatch.....⅜ inch
Haulm.....$\frac{7}{16}$ inch
Haust.....½ inch
Haven.....⅝ inch
Hawse.....$\frac{9}{16}$ inch
Hazel.....⅞ inch
Heave.....$\frac{15}{16}$ inch
Heazy.....1 inch

Haten..Distance from center to center, inches.

INSERTED TEETH AND HOLDERS

	Pattern		Pattern		Pattern		Pattern
Hedge	No. A	Hinch	No. 30	Hoker	No. 4	Hubbs	No. S.B.
Heigh	No. B	Hoard	No. 2½	Holly	No. 3	Humes	No. S.D.
Hemic	No. C	Hobby	Roscer	Honey	No. 2	Hurds	No. S.F.
Hewer	No. D	Hodge	No. 5	Hooch	Short Holder	Husks	Saw Teeth

WIDTH OF POINT OF INSERTED TEETH

Icche.....$\frac{3}{16}$ inch
Ichor.....$\frac{13}{64}$ inch
Ictus.....$\frac{7}{32}$ inch
Ideal.....$\frac{15}{64}$ inch
Idiot.....¼ inch
Idler.....$\frac{17}{64}$ inch
Igloo.....$\frac{9}{32}$ inch
Ileum.....$\frac{19}{64}$ inch
Imago.....$\frac{5}{16}$ inch
Imide.....$\frac{21}{64}$ inch
Impar.....$\frac{11}{32}$ inch
Inane.....$\frac{23}{64}$ inch
Incle.....⅜ inch
Index.....$\frac{25}{64}$ inch
Indin.....$\frac{13}{32}$ inch
Indue.....$\frac{27}{64}$ inch
Inert.....$\frac{7}{16}$ inch
Infer.....$\frac{29}{64}$ inch
Inhex.....$\frac{15}{32}$ inch
Iniad.....$\frac{31}{64}$ inch
Inkle.....$\frac{1}{2}$ inch
Inlet.....$\frac{33}{64}$ inch
Inmid.....$\frac{17}{32}$ inch
Inovo.....$\frac{35}{64}$ inch
Irian.....$\frac{9}{16}$ inch

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
Junta.....Summer
Jauty.....Hanson

DIAMETER OF FLANGES

Kalan.....16 inches
Kalpa.....18 inches
Kambu.....20 inches
Kapok.....21½ inches
Karat.....22 inches
Kedge.....24 inches
Keech.....25 inches
Kelis.....26 inches
Ketch.....27 inches
Ketol.....28 inches
Killa.....30 inches

FEED

Keyel.....1 inch
Keyed.....1½ inch
Kiack.....2 inches
Kieve.....2½ inches
Kilts.....3 inches
Kinch.....3½ inches
Kirle.....4 inches
Kitar.....4½ inches
Kithe.....5 inches
Kitty.....6 inches
Kiver.....7 inches
Klang.....8 inches
Kloof.....9 inches
Knack.....10 inches
Knave.....11 inches
Knell.....12 inches

KIND OF DRESS

Knick.....Spring Set
Knoll.....Spread or Swage Set

THE ATKINS TELEGRAPHIC CODE—Continued

KIND OF TIMBER

Knout.....Hardwood
Knowl.....Softwood
Knuff.....Norway Pine
Knurl.....Yellow Pine
Kokil.....Hickory
Kotow.....Hemlock
Kreel.....Fir
Krore.....Redwood
Kukri.....All Kinds of Timber

LENGTHS, FEET

Lakin..... 1 foot
Lamba..... 2 feet
Lanky..... 3 feet
Lapis..... 3½ feet
Larch..... 4 feet
Lardy..... 4½ feet
Larix..... 5 feet
Laser..... 5½ feet
Lasso..... 6 feet
Lates..... 6½ feet
Lause..... 7 feet
Lavic..... 7½ feet
Lawny..... 8 feet
Lazar..... 8½ feet
Leach..... 9 feet
Leaky..... 9½ feet
Learn.....10 feet
Lease.....10½ feet
Leddy.....11 feet
Leder.....12 feet
Ledge.....13 feet
Leful.....14 feet
Legal.....15 feet
Leger.....16 feet
Leggy.....17 feet
Leman.....18 feet
Lemma.....19 feet
Lends.....20 feet
Lente.....21 feet
Lepal.....22 feet
Lepra.....23 feet
Lerry.....24 feet
Leste.....25 feet
Letch.....26 feet
Leton.....27 feet
Leuch.....28 feet
Leute.....29 feet
Leafy.....30 feet
Levee.....31 feet
Levin.....32 feet
Lewan.....33 feet
Lewth.....34 feet
Libel.....35 feet
Lichi.....36 feet
Licit.....37 feet
Lifen.....38 feet
Ligan.....39 feet
Likes.....40 feet
Liman.....41 feet
Limbo.....42 feet
Limes.....43 feet
Limps.....44 feet
Linch.....45 feet
Linen.....46 feet
Lingo.....47 feet
Lippy.....48 feet
Lisps.....49 feet
Lisse.....50 feet
Litel.....51 feet
Lithe.....52 feet
Litui.....53 feet
Lived.....54 feet
Livar.....55 feet
Livid.....56 feet
Loach.....57 feet
Loans.....58 feet
Loath.....59 feet
Lobar.....60 feet
Lobby.....61 feet
Lobed.....62 feet
Lobus.....63 feet
Local.....64 feet
Locks.....65 feet
Locus.....66 feet
Lodge.....67 feet
Loess.....68 feet
Loffe.....69 feet
Lofty.....70 feet
Logan.....71 feet
Logic.....72 feet
Lokao.....73 feet
Lolly.....74 feet
Looby.....75 feet
Looer.....76 feet
Loony.....77 feet
Lourd.....78 feet
Loppy.....79 feet
Loral.....80 feet
Lorer.....81 feet
Loris.....82 feet
Lorry.....83 feet
Lorum.....84 feet
Loser.....85 feet
Lotah.....86 feet
Loter.....87 feet
Lothe.....88 feet
Loupe.....89 feet
Loves.....90 feet
Lowan.....91 feet
Lowly.....92 feet
Lozel.....93 feet
Lucid.....94 feet
Lucky.....95 feet
Lucre.....96 feet
Lulla..... 97 feet
Lummy.... 98 feet
Lumps..... 99 feet
Lunar..... 100 feet
Lunch..... 105 feet
Lunda..... 110 feet
Lunet..... 115 feet
Lunge..... 120 feet
Lupin..... 125 feet
Luppa..... 130 feet
Lupus..... 135 feet
Lures..... 140 feet
Lurks..... 145 feet
Lusty..... 150 feet
Lutes..... 200 feet
Lyart..... 300 feet
Lycee..... 400 feet
Lycin..... 500 feet
Lyden..... 600 feet
Lymph..... 700 feet
Lynch..... 800 feet
Lynde..... 900 feet
Lyric.....1000 feet

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

FRACTIONS

Maaba.....$\frac{1}{16}$ inch
Mabby.....$\frac{1}{8}$ inch
Macaw.....$\frac{3}{16}$ inch
Macer.....$\frac{1}{4}$ inch
Macfy.....$\frac{5}{16}$ inch
Macle.....$\frac{3}{8}$ inch
Macty.....$\frac{7}{16}$ inch
Macho.....$\frac{1}{2}$ inch
Maddy.....$\frac{9}{16}$ inch
Madam.....$\frac{5}{8}$ inch
Madbo.....$\frac{11}{16}$ inch
Madge.....$\frac{3}{4}$ inch
Madst.....$\frac{13}{16}$ inch
Madly.....$\frac{7}{8}$ inch
Madpa.....$\frac{15}{16}$ inch

WIDTH

Mahoe.....1
Maize.....1¼
Major.....1½
Makwa.....1¾
Malty.....2
Malwa.....2¼
Mammy.....2½
Manas.....2¾
Maneh.....3
Mango.....3¼
Mania.....3½
Manse.....3¾
Manor.....4
Manta.....4¼
Marge.....4½
Marsh.....4¾
Marum..... 5
Marry..... 5¼
Masha..... 5½
Mason..... 5¾
Massy..... 6
Matai..... 6½
Mates..... 7
Matsu..... 7½
Matte..... 8
Maund..... 8½
Mauve..... 9
Mawky..... 9½
Maxim.....10
Mazer.....11
Meach.....12
Mealy.....13
Medal.....14
Media.....15
Melee.....16
Melon.....17
Merge.....18
Merit.....19
Mesad.....20
Meshy.....21
Metif.....22
Metra.....23
Midst.....24
Milky.....25
Mimic.....26
Mince.....27
Minor.....28
Minus.....29
Mirth.....30
Mitty.....31
Mizer.....32
Molar.....33
Molly.....34
Monad.....35
Monte.....36
Moody.....37
Moose.....38
Mopus.....39
Moral.....40
Morai.....41
Morse.....42
Mosca.....43
Mossy.....44
Mothy.....45
Moton.....46
Motto.....47
Mound.....48
Mourn.....49
Mouse.....50
Mover.....51
Mucin.....52
Mucus.....53
Muggy.....54
Mulse.....55
Mumps.....56
Mural.....57
Murex.....58
Musad.....59
Music.....60

THE ATKINS TELEGRAPHIC CODE—Continued

QUANTITY

Paard..... 1
Pacer..... 2
Pacha..... 3
Padat..... 4
Paddy..... 5
Pagan..... 6
Pages..... 7
Pagle..... 8
Paint..... 9
Palas.....10
Palet.....11
Palla.....12
Palms.....13
Palpi.....14
Palsy.....15
Panee.....16
Pandy.....17
Paned.....18
Pangs.....19
Panic.....20
Pants.....21
Paper.....22
Pappy.....23
Parch.....24
Parel.....25
Parka.....26
Parle.....27
Parry.....28
Parst.....29
Party..... 30
Pasan..... 31
Pasch..... 32
Pasha..... 33
Paspy..... 34
Passe..... 35
Pasty..... 36
Patas..... 37
Paten..... 38
Patio..... 39
Patly..... 40
Patno..... 41
Pause..... 42
Pavas..... 43
Pavon..... 44
Pawed..... 45
Payer..... 46
Peach..... 47
Pearl..... 48
Pease..... 49
Peaty..... 50
Pecan..... 60
Pecul..... 70
Pedal..... 75
Pedes..... 80
Pedro..... 90
Pedum.....100
Peeps.....125
Peery.....150
Peggy..... 175
Peine..... 200
Pekoe..... 225
Pelts..... 250
Pelma..... 275
Penal..... 300
Pence..... 325
Penna..... 350
Peony..... 375
Perch..... 400
Perdu..... 450
Perge..... 500
Peril..... 550
Pesky..... 600
Petal..... 650
Peter..... 700
Peths..... 750
Petit..... 800
Petty..... 850
Pewit..... 900
Phase..... 950
Pheer.....1,000
Pheno.....1,100
Phial.....1,200
Phoca.....1,300
Phone.....1,400
Photo.....1,500
Phren.....1,600
Phyla.....1,700
Physy..... 1,800
Piaga..... 1,900
Piano..... 2,000
Picot..... 2,500
Picra..... 3,000
Piend..... 3,500
Pilar..... 4,000
Piles..... 4,500
Pilot..... 5,000
Pilum..... 5,500
Pimel..... 6,000
Pinax..... 6,500
Pinch..... 7,000
Piney..... 7,500
Pinky..... 8,000
Pinna..... 8,500
Pinto..... 9,000
Pipal..... 9,500
Pipet.....10,000
Pique.....1 dozen
Pirol.....2 dozen
Pirry.....3 dozen
Pisky.....4 dozen
Plaga.....5 dozen
Plaid.....6 dozen
Plash.....7 dozen
Plaza.....8 dozen
Plead.....9 dozen
Plebs..... 10 dozen
Pleon..... 11 dozen
Pluck..... 12 dozen
Plume..... 14 dozen
Plyer..... 16 dozen
Poach..... 18 dozen
Poddy..... 20 dozen
Poise..... 25 dozen
Poker..... 30 dozen
Polar..... 35 dozen
Polly..... 40 dozen
Pombe..... 45 dozen
Pongo..... 50 dozen
Popit..... 60 dozen
Poppy..... 70 dozen
Porro..... 75 dozen
Posca..... 80 dozen
Possee..... 90 dozen
Pouch.....100 dozen
Prank.....150 dozen
Prays.....200 dozen
Press.....250 dozen
Pride.....300 dozen
Prime.....350 dozen
Prink.....400 dozen
Prior.....450 dozen
Probe.....500 dozen
Proem.....750 dozen

CROSS CUT SAWS

Prosy.....Pacific Coast pattern cut to ends
Prune.....Silver Steel
Psalm.....Special Steel
Puffy.....Segment Ground

STYLES OF TEETH

Rabgo....No. 1 Rex
Rabny....No. 2 Rex
Radad....No. 3 Peerless
Rapod....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
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
Ravob....No. 273 Moss Back
Razno....No. 76 Moss Back
Razpa....No. 276 Moss Back
React.....No. 225 Victor
Reaks.....No. 227 Lance
Realm....No. 221 Diamond
Rebel.....No. 222 Diamond
Rebus.....No. 223 Lone Star
Redan....No. 330 Tuttle
Redif.....No. 331 Tuttle
Redly.....No. 332 Tuttle
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
Rinty.....No. 518
Rinst.....No. 540
Ricky.....No. 550
Rench....No. 553

HOLLOW BACK SAWS

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

ONE-MAN SAWS

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

PACIFIC COAST PATTERNS

Roody....No. 51
Rowdy....No. 52
Rumly....No. 251
Rupgo....No. 252
Rough....No. 64 Redwood King
Roule.....No. 67 Redwood Falling
Rusty ....No. 556 Perfection
Ruled ....No. 362 Tuttle
Rabby....No. 68 Eureka
Racno.....No. 69 Eureka Falling
Ruach....No. 361 Lance

THE ATKINS TELEGRAPHIC CODE—Continued

AUSTRALASIAN PATTERNS

Rudey....No. 7 Auckland
Ruffy.....No. 46 Auckland
Rudgy....No. 8 Auckland
Rugso....No. 47 Auckland
Rusty.....No. 9 Auckland
Rutga.....No. 48 Auckland
Ruing.....No. 10 Auckland
Runas....No. 49 Auckland
Ruche....No. 15 Auckland
Rucca.....No. 50 Auckland
Rumal....No. 241 Tasmanian
Rumpy ...No. 41 Tasmanian
Rupco....No. 242 Jarrah
Rusly.....No. 42 Jarrah
Rummy...Russian

CROSS CUT SAW HANDLES

Saber.....No. 1 pattern
Sable.....No. 2 pattern
Sabot.....No. 3 pattern
Sacar.....No. 4 pattern
Sadly.....No. 5 pattern
Saffo.....No. 6 pattern
Saiga.....No. 7 pattern
Sairy.....No. 8 pattern
Salad.....No. 9 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
Satin.....No. 21 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
Sofin.....No. 111 pattern

HAND SAWS

Secco.....No. 50
Sedge.....No. 50 Ship point
Seely.....No. 51
Sedan.....No. 51 Ship point
Segue.....No. 52
Siety.....No. 53
Seize .....No. 53 Ship point
Sendo.....No. 54
Serve.....No. 54 Ship point
Sepia.....No. 56
Serge.....No. 57
Serin.....No. 58
Serry .....No. 59
Sessa .....No. 60
Sewer .....No. 62
Shail.....No. 64
Shale.. .....No. 64 Ship point
Shaky.....No. 65
Shaft.....No. 65 Ship point
Shiel.....No. 72 Ship point
Shout.....No. 82
Shute.....No. 93
Shoot..No. 400 Skew back
Shore..No. 400 Skew back, ship point
Shred..No. 400 Straight back
Shrug..No. 400 Straight back, ship point
Shrub..No. 590 Docking

Shurf.....28-inch Rip Saw
Silor.....26-inch Rip Saw
Siege.....26-inch Hand Saw
Silky.....28-inch Hand Saw
Singe.....24-inch Panel Saw
Sipid.....22-inch Panel Saw
Sipol.....Silver Steel
Siren.....20-inch Panel Saw
Sirup.....18-inch Panel Saw
Sissy.....16-inch Panel Saw
Skope.....Hand, Rip and Panel

POINTS TO THE INCH

Skirt.....2 points to inch (1 tooth to the inch)
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)

CROSS CUT AND HAND SAW TOOLS

Sayon....Excelsior No. 1
Scala....Excelsior No. 2
Skido....Excelsior No. 5
Scalp....Perfection
Scamp...Rex
Scant....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
Sebty....No. 4 Saw Set
Sebgo....No. 5 Saw Set
Senty....No. 1 AAA Clamp
Senso....No. 2 AAA Clamp
Seine.....No. 9 Cross Cut Tools
Shale.....No. 13 Cross Cut Tools

CENTS

Watley.....$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	Wobic..... .75	

THE ATKINS TELEGRAPHIC CODE—Continued

DOLLARS

Tabby	$ 1.00	Taunt	$26.00	Thole	$51.00	Trabs	$ 76.00
Tabes	2.00	Tawny	27.00	Thyme	52.00	Track	77.00
Taboo	3.00	Taxis	28.00	Tibia	53.00	Traik	78.00
Tabut	4.00	Tazel	29.00	Tidal	54.00	Tramp	79.00
Tache	5.00	Teach	30.00	Tiddy	55.00	Trash	80.00
Tacit	6.00	Teals	31.00	Tiler	56.00	Trays	81.00
Tacky	7.00	Tease	32.00	Tinca	57.00	Tread	82.00
Taffy	8.00	Tecum	33.00	Tinea	58.00	Treen	83.00
Tagma	9.00	Teens	34.00	Tinge	59.00	Tribe	84.00
Taint	10.00	Telar	35.00	Tinty	60.00	Trick	85.00
Talen	11.00	Telic	36.00	Title	61.00	Trims	86.00
Talky	12.00	Temse	37.00	Toast	62.00	Trist	87.00
Talou	13.00	Tench	38.00	Token	63.00	Troll	88.00
Talus	14.00	Tendo	39.00	Tonal	64.00	Trout	89.00
Tambo	15.00	Tenet	40.00	Tonga	65.00	Truss	90.00
Tamer	16.00	Tenia	41.00	Tonic	66.00	Truth	91.00
Tamus	17.00	Tenor	42.00	Topia	67.00	Tufty	92.00
Tangy	18.00	Tense	43.00	Torso	68.00	Tumid	93.00
Tanha	19.00	Terin	44.00	Torus	69.00	Turba	94.00
Tapis	20.00	Terma	45.00	Toter	70.00	Turfy	95.00
Tardy	21.00	Terza	46.00	Totty	71.00	Turps	96.00
Taree	22.00	Testa	47.00	Touch	72.00	Tutor	97.00
Tarse	23.00	Teyne	48.00	Towar	73.00	Twang	98.00
Taste	24.00	Theak	49.00	Towse	74.00	Twill	99.00
Tauga	25.00	Thein	50.00	Toyon	75.00	Twine	100.00

ATKINS SPECIALTIES

Vabar....No. 7 Kwik-Kut
Vabes....No. 7 Kwik-Kut Motor Drive
Vabet....No. 18 Kwik-Kut
Vabby....No. 14 Kwik-Kut
Vabut....No. 12 Kwik-Kut
Vebal....No. 00 Ideal Swage
Vebor....No. 0 Ideal Swage
Vecac....No. 1 Ideal Swage
Veces....No. 2 Ideal Swage
Vecby....No. 3 Ideal Swage
Vedgo....No. 4 Ideal Swage
Vedka....No. 5 Ideal Swage
Venet....No. 6 Ideal Swage
Veppy....No. 7 Ideal Swage
Vibba....No. 8 Ideal Swage
Vicco....No. 9 Ideal Swage
Vidab....Pribnow Shapers
Villa.....Pribnow Swages
Vobby....HamletDimension Gauge
Vocar....AAA Saw Guard
Vodan....AAA Car Mover
Vodor....Rogers Belt Punch
Vogab....Atkins Load Binder

ATKINS HACKSAW BLADES

Yemek	No. 200	Yenle	No. 400	Yepry	No. 435
Yemil	No. 205	Yenno	No. 402	Yepyr	No. 436
Yemja	No. 210	Yenon	No. 405	Yeran	No. 437
Yemke	No. 215	Yenup	No. 409	Yerep	No. 438
Yemmo	No. 220	Yeoxy	No. 410	Yerna	No. 439
Yempy	No. 300	Yepal	No. 415	Yeror	No. 440
Yemyp	No. 305	Yepem	No. 420	Yerpe	No. 441
Yenak	No. 310	Yepla	No. 422	Yerro	No. 445
Yenel	No. 315	Yepme	No. 423	Yerty	No. 447
Yenka	No. 320	Yepop	No. 425	Yerus	No. 450
		Yepop	No. 430		

HACKSAW FRAMES

Yeryt	No. 1	Yesso	No. 7	Yetuv	No. 2 Rail
Yesap	No. 2	Yesut	No. 8	Yetwy	No. 3 Rail
Yesir	No. 3	Yesvy	No. 9	Yevar	No. 4 Rail
Yesos	No. 4	Yesyv	No. 10	Yevit	No. 5 Rail
Yespa	No. 5	Yeter	No. 1 Rail	Yevov	No. 6 Rail
		Yetre	No. 1½ Rail		

CIRCULAR METAL SAWS

Yevra....Higley
Yevse....Cochrane Bly
Yevvo....Newton
Yevyx....Burr
Yewas....Burke
Yewet....Lea Simplex
Yewiv....Espen Lucas
Yewsa....Knowlton
Yewte....Q. & C.
Yewux....Bryant
Yeyat....Pipe Saws
Yeybd....Copper Slitters
Yeycf....Nutter & Barnes
Yeyev....Highspeed Slitting
Yeyhk....Semi-Highspeed Slitting
Yeyjl....Commutator Slotting
Yyeln....Screw Slotting
Yeymp....Friction Discs
Yeyoy....Hot Saws

METAL CUTTING BAND SAWS

Yeyta.....Hardstock Band Yeyuz.....Hack Band

No. 3 BAND SAW MACHINE

Yeyve.....Belt Driven Yezav.....Motor Driven

CURRENT SPECIFICATIONS—MOTOR DRIVEN MACHINES

Yezix.....110
Yezoz.....220
Yezub.....440
Yezva.....550
Yezwe.....600

CURRENT

Yezzo.....Alternating
Yiagh.....Direct

CYCLE

Yiahj.....60
Yiajk.....25

PHASE

Yialm.....Single Yiamn.....Two Yianp.....Three

NUMERICAL CODE

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

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

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

FOR EXAMPLE

For No. 1001 the word would be Nabab.
For No. 2100 the word would be Pabuy.
For No. 3168 the word would be Radkf.
For No. 4444 the word would be Sahft.
For No. 5561 the word would be Tajip.
For No. 6650 the word would be Vakgy.
For No. 7795 the word would be Wamug.
For No. 8905 the word would be Yaqag.
For No. 9999 the word would be Zaqux.

1 Mabab	58 Mabik	115 Madas	172 Madma	229 Mafdi	286 Mafox	343 Magfr
2 Mabac	59 Mabim	116 Madat	173 Madmn	230 Mafdo	287 Mafpa	344 Magft
3 Mabad	60 Mabin	117 Madau	174 Madmu	231 Mafds	288 Mafra	345 Magfu
4 Mabaf	61 Mabip	118 Madav	175 Madng	232 Mafed	289 Mafrm	346 Magfy
5 Mabag	62 Mabiq	119 Madaw	176 Madns	233 Mafej	290 Mafrn	347 Maggm
6 Mabah	63 Mabis	120 Madax	177 Madnu	234 Mafek	291 Mafru	348 Maggn
7 Mabaj	64 Mabit	121 Maday	178 Madnx	235 Mafen	292 Mafsa	349 Maggu
8 Mabak	65 Mabiu	122 Madaz	179 Madog	236 Mafeq	293 Mafuc	350 Maggy
9 Mabal	66 Mabiw	123 Madca	180 Madom	237 Mafer	294 Mafud	351 Magia
10 Mabam	67 Mabix	124 Madce	181 Madon	238 Mafes	295 Mafug	352 Magib
11 Maban	68 Mabkf	125 Madck	182 Madop	239 Mafew	296 Mafun	353 Magid
12 Mabap	69 Mabko	126 Madcm	183 Mador	240 Mafex	297 Mafur	354 Magif
13 Mabaq	70 Mabku	127 Madcs	184 Mados	241 Maffa	298 Mafus	355 Magig
14 Mabar	71 Mabky	128 Madcu	185 Madou	242 Maffn	299 Mafux	356 Magih
15 Mabas	72 Mabma	129 Maddi	186 Madox	243 Maffr	300 Mafuy	357 Magij
16 Mabat	73 Mabmn	130 Maddo	187 Madpa	244 Mafft	301 Magab	358 Magik
17 Mabau	74 Mabmu	131 Madds	188 Madra	245 Maffu	302 Magac	359 Magim
18 Mabav	75 Mabng	132 Maded	189 Madrm	246 Maffy	303 Magad	360 Magin
19 Mabaw	76 Mabns	133 Madej	190 Madrn	247 Mafgm	304 Magaf	361 Magip
20 Mabax	77 Mabnu	134 Madek	191 Madru	248 Mafgn	305 Magag	362 Magiq
21 Mabay	78 Mabnx	135 Maden	192 Madsa	249 Mafgu	306 Magah	363 Magis
22 Mabaz	79 Mabog	136 Madeq	193 Maduc	250 Mafgy	307 Magaj	364 Magit
23 Mabca	80 Mabom	137 Mader	194 Madud	251 Mafia	308 Magak	365 Magiu
24 Mabce	81 Mabon	138 Mades	195 Madug	252 Mafib	309 Magal	366 Magiw
25 Mabck	82 Mabop	139 Madew	196 Madun	253 Mafid	310 Magam	367 Magix
26 Mabcm	83 Mabor	140 Madex	197 Madur	254 Mafif	311 Magan	368 Magkf
27 Mabcs	84 Mabos	141 Madfa	198 Madus	255 Mafig	312 Magap	369 Magko
28 Mabcu	85 Mabou	142 Madfn	199 Madux	256 Mafih	313 Magaq	370 Magku
29 Mabdi	86 Mabox	143 Madfr	200 Maduy	257 Mafij	314 Magar	371 Magky
30 Mabdo	87 Mabpa	144 Madft	201 Mafab	258 Mafik	315 Magas	372 Magma
31 Mabds	88 Mabra	145 Madfu	202 Mafac	259 Mafim	316 Magat	373 Magmn
32 Mabed	89 Mabrm	146 Madfy	203 Mafad	260 Mafin	317 Magau	374 Magmu
33 Mabej	90 Mabrn	147 Madgm	204 Mafaf	261 Mafip	318 Magav	375 Magug
34 Mabek	91 Mabru	148 Madgn	205 Mafag	262 Mafiq	319 Magaw	376 Magns
35 Maben	92 Mabsa	149 Madgu	206 Mafah	263 Mafis	320 Magax	377 Magnu
36 Mabeq	93 Mabuc	150 Madgy	207 Mafaj	264 Mafit	321 Magay	378 Magnx
37 Maber	94 Mabud	151 Madia	208 Mafak	265 Mafiu	322 Magaz	379 Magog
38 Mabes	95 Mabug	152 Madib	209 Mafal	266 Mafiw	323 Magca	380 Magom
39 Mabew	96 Mabun	153 Madid	210 Mafam	267 Mafix	324 Magce	381 Magon
40 Mabex	97 Mabur	154 Madif	211 Mafan	268 Mafkf	325 Magck	382 Magop
41 Mabfa	98 Mabus	155 Madig	212 Mafap	269 Mafko	326 Magcm	383 Magor
42 Mabfn	99 Mabux	156 Madih	213 Mafaq	270 Mafku	327 Magcs	384 Magos
43 Mabfr	100 Mabuy	157 Madij	214 Mafar	271 Mafky	328 Magcu	385 Magou
44 Mabft	101 Madad	158 Madik	215 Mafas	272 Mafma	329 Magdi	386 Magox
45 Mabfu	102 Madac	159 Madim	216 Mafat	273 Mafmn	330 Magdo	387 Magpa
46 Mabfy	103 Madad	160 Madin	217 Mafau	274 Mafmu	331 Magds	388 Magra
47 Mabgm	104 Madaf	161 Madip	218 Mafav	275 Mafng	332 Maged	389 Magrm
48 Mabgn	105 Madag	162 Madiq	219 Mafaw	276 Mafns	333 Magej	390 Magrn
49 Mabgu	106 Madah	163 Madis	220 Mafax	277 Mafnu	334 Magek	391 Magru
50 Mabgy	107 Madaj	164 Madit	221 Mafay	278 Mafnx	335 Magen	392 Magsa
51 Mabia	108 Madak	165 Madiu	222 Mafaz	279 Mafog	336 Mageq	393 Maguc
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 Magun
55 Mabig	112 Madap	169 Madko	226 Mafcm	283 Mafor	340 Magex	397 Magur
56 Mabih	113 Madaq	170 Madku	227 Mafcs	284 Mafos	341 Magfa	398 Magus
57 Mabij	114 Madar	171 Madky	228 Mafcu	285 Mafou	342 Magfn	399 Magux

NUMERICAL CODE—Continued

400 Maguy
401 Mahab
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866 Maniw
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988 Maqrm
989 Maqrn
990 Maqru
991 Maqry
992 Maqsa
993 Maqsy
994 Maquc
995 Maqud
996 Maqug
997 Maqun
998 Maqur
999 Maqux
1000 Maquy

MILLIMETERS TO INCHES

NOTE—Fractions are not exact, but are given to the nearest 1/64 inch.

MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction
1	.0394	1/64	84	3.3071	3 5/16	167	6.5749	6 37/64	250	9.8426	9 27/32	333	13.1103	13 7/64	416	16.3781	16 3/8
2	.0787	5/64	85	3.3465	3 11/32	168	6.6142	6 41/64	251	9.8820	9 7/8	334	13.1497	13 3/32	417	16.4175	16 27/64
3	.1181	3/32	86	3.3859	3 25/64	169	6.6536	6 21/32	252	9.9213	9 59/64	335	13.1891	13 5/32	418	16.4569	16 29/64
4	.1575	5/32	87	3.4252	3 27/64	170	6.6930	6 11/16	253	9.9607	9 61/64	336	13.2285	13 25/64	419	16.4962	16 1/2
5	.1969	13/64	88	3.4646	3 1/2	171	6.7323	6 47/64	254	10.0001	10	337	13.2678	13 13/64	420	16.5356	16 33/64
6	.2362	15/64	89	3.5040	3 1/2	172	6.7717	6 49/64	255	10.0395	10 1/64	338	13.3072	13 3/16	421	16.5750	16 17/32
7	.2756	9/32	90	3.5433	3 35/64	173	6.8111	6 13/16	256	10.0788	10 1/64	339	13.3466	13 13/64	422	16.6143	16 35/64
8	.3150	5/16	91	3.5827	3 37/64	174	6.8505	6 53/64	257	10.1182	10 1/8	340	13.3859	13 27/64	423	16.6538	16 21/32
9	.3543	23/64	92	3.6221	3 5/8	175	6.8898	6 27/32	258	10.1576	10 5/64	341	13.4253	13 7/32	424	16.6931	16 37/64
10	.3937	25/64	93	3.6614	3 21/32	176	6.9292	6 55/64	259	10.1969	10 13/64	342	13.4647	13 29/64	425	16.7324	16 47/64
11	.4331	7/16	94	3.7008	3 43/64	177	6.9686	6 63/64	260	10.2363	10 1/4	343	13.5040	13 1/2	426	16.7718	16 49/64
12	.4724	15/32	95	3.7402	3 47/64	178	7.0078	7 1/64	261	10.2757	10 9/32	344	13.5434	13 35/64	427	16.8112	16 25/32
13	.5118	33/64	96	3.7796	3 49/64	179	7.0472	7 1/64	262	10.3151	10 5/16	345	13.5828	13 37/64	428	16.8505	16 27/32
14	.5512	35/64	97	3.8189	3 25/32	180	7.0867	7 3/64	263	10.3544	10 21/64	346	13.6222	13 9/32	429	16.8899	16 55/64
15	.5906	19/32	98	3.8583	3 55/64	181	7.1260	7 1/8	264	10.3938	10 11/32	347	13.6615	13 23/64	430	16.9293	16 57/64
16	.6299	5/8	99	3.8977	3 27/32	182	7.1654	7 5/64	265	10.4332	10 3/16	348	13.7009	13 45/64	431	16.9686	16 31/32
17	.6693	43/64	100	3.9370	3 15/16	183	7.2048	7 13/64	266	10.4725	10 15/64	349	13.7403	13 47/64	432	17.0080	17 1/64
18	.7087	45/64	101	3.9764	3 31/32	184	7.2442	7 1/4	267	10.5119	10 33/64	350	13.7796	13 49/64	433	17.0474	17 1/64
19	.7480	3/4	102	4.0158	4 1/64	185	7.2835	7 9/32	268	10.5513	10 17/32	351	13.8190	13 25/32	434	17.0868	17 3/64
20	.7874	25/32	103	4.0552	4 1/16	186	7.3229	7 47/64	269	10.5906	10 35/64	352	13.8584	13 55/64	435	17.1261	17 1/8
21	.8268	53/64	104	4.0945	4 3/32	187	7.3623	7 49/64	270	10.6300	10 9/16	353	13.8978	13 57/64	436	17.1655	17 11/64
22	.8661	55/64	105	4.1339	4 5/32	188	7.4016	7 25/32	271	10.6694	10 43/64	354	13.9371	13 29/32	437	17.2049	17 13/64
23	.9055	29/32	106	4.1733	4 11/64	189	7.4410	7 55/64	272	10.7087	10 11/16	355	13.9765	13 59/64	438	17.2442	17 7/32
24	.9449	15/16	107	4.2126	4 7/32	190	7.4804	7 31/32	273	10.7481	10 45/64	356	14.0159	14 1/64	439	17.2836	17 9/32
25	.9843	63/64	108	4.2520	4 1/4	191	7.5198	7 63/64	274	10.7875	10 23/32	357	14.0552	14 1/16	440	17.3230	17 29/64
26	1.0236	1 1/32	109	4.2914	4 19/64	192	7.5591	7 1/16	275	10.8269	10 47/64	358	14.0946	14 3/32	441	17.3624	17 15/32
27	1.0630	1 1/16	110	4.3308	4 21/64	193	7.5985	7 7/64	276	10.8662	10 49/64	359	14.1339	14 5/64	442	17.4017	17 31/64
28	1.1024	1 1/64	111	4.3701	4 3/8	194	7.6379	7 15/64	277	10.9056	10 27/32	360	14.1733	14 1/8	443	17.4411	17 7/16
29	1.1417	1 9/64	112	4.4095	4 13/32	195	7.6772	7 31/64	278	10.9449	10 55/64	361	14.2127	14 7/32	444	17.4805	17 33/64
30	1.1811	1 3/16	113	4.4489	4 29/64	196	7.7166	7 33/64	279	10.9843	10 63/64	362	14.2520	14 1/4	445	17.5198	17 17/32
31	1.2205	1 7/64	114	4.4882	4 31/64	197	7.7560	7 3/4	280	11.0237	11 1/32	363	14.2915	14 19/64	446	17.5592	17 35/64
32	1.2599	1 1/4	115	4.5276	4 7/32	198	7.7953	7 51/64	281	11.0631	11 1/16	364	14.3308	14 21/64	447	17.5986	17 19/32
33	1.2992	1 19/64	116	4.5670	4 9/16	199	7.8347	7 53/64	282	11.1024	11 7/64	365	14.3702	14 3/8	448	17.6379	17 41/64
34	1.3386	1 21/64	117	4.6063	4 23/64	200	7.8741	7 7/8	283	11.1418	11 9/64	366	14.4096	14 13/32	449	17.6773	17 43/64
35	1.3780	1 3/8	118	4.6457	4 15/32	201	7.9135	7 59/64	284	11.1812	11 5/32	367	14.4489	14 29/64	450	17.7167	17 23/32
36	1.4173	1 27/64	119	4.6851	4 11/64	202	7.9528	7 61/64	285	11.2206	11 7/32	368	14.4883	14 15/32	451	17.7561	17 45/64
37	1.4567	1 29/64	120	4.7245	4 23/32	203	7.9922	8	286	11.2599	11 17/64	369	14.5277	14 31/64	452	17.7954	17 47/64
38	1.4961	1 15/32	121	4.7638	4 49/64	204	8.0316	8 1/64	287	11.2993	11 19/64	370	14.5671	14 7/16	453	17.8349	17 49/64
39	1.5354	1 31/64	122	4.8032	4 25/32	205	8.0709	8 1/32	288	11.3387	11 5/16	371	14.6064	14 33/64	454	17.8742	17 7/8
40	1.5748	1 1/2	123	4.8426	4 51/64	206	8.1103	8 5/64	289	11.3780	11 9/32	372	14.6458	14 17/32	455	17.9135	17 29/32
41	1.6142	1 33/64	124	4.8819	4 7/8	207	8.1497	8 3/32	290	11.4174	11 27/64	373	14.6852	14 37/64	456	17.9529	17 57/64
42	1.6536	1 21/32	125	4.9213	4 59/64	208	8.1890	8 7/64	291	11.4568	11 29/64	374	14.7245	14 39/64	457	17.9923	18
43	1.6929	1 11/16	126	4.9607	4 61/64	209	8.2284	8 1/8	292	11.4962	11 15/32	375	14.7639	14 49/64	458	18.0316	18 1/32
44	1.7323	1 47/64	127	5.0000	5	210	8.2678	8 17/64	293	11.5355	11 31/64	376	14.8033	14 25/32	459	18.0710	18 3/64
45	1.7717	1 49/64	128	5.0394	5 1/64	211	8.3072	8 5/16	294	11.5749	11 61/64	377	14.8426	14 53/64	460	18.1104	18 1/16
46	1.8110	1 13/16	129	5.0788	5 1/64	212	8.3465	8 11/32	295	11.6143	11 31/64	378	14.8820	14 7/8	461	18.1498	18 3/32
47	1.8504	1 29/32	130	5.1182	5 1/8	213	8.3859	8 25/64	296	11.6536	11 33/64	379	14.9214	14 59/64	462	18.1891	18 7/64
48	1.8898	1 59/64	131	5.1575	5 5/64	214	8.4253	8 27/64	297	11.6930	11 17/32	380	14.9608	14 61/64	463	18.2286	18 15/64
49	1.9291	1 61/64	132	5.1969	5 3/16	215	8.4646	8 1/2	298	11.7324	11 47/64	381	15.0001	15	464	18.2679	18 17/64
50	1.9685	1 31/32	133	5.2363	5 15/64	216	8.5040	8 33/64	299	11.7717	11 49/64	382	15.0395	15 1/64	465	18.3072	18 9/32
51	2.0079	2 1/64	134	5.2756	5 9/32	217	8.5434	8 35/64	300	11.8111	11 13/16	383	15.0789	15 1/64	466	18.3466	18 37/64
52	2.0473	2 1/64	135	5.3150	5 5/16	218	8.5828	8 27/32	301	11.8505	11 51/64	384	15.1182	15 1/8	467	18.3860	18 19/32
53	2.0866	2 3/32	136	5.3544	5 23/64	219	8.6221	8 55/64	302	11.8899	11 53/64	385	15.1576	15 5/64	468	18.4253	18 39/64
54	2.1260	2 1/8	137	5.3937	5 25/64	220	8.6615	8 21/32	303	11.9292	11 59/64	386	15.1969	15 13/64	469	18.4647	18 41/64
55	2.1654	2 11/64	138	5.4331	5 7/16	221	8.7009	8 55/64	304	11.9686	11 31/32	387	15.2363	15 15/64	470	18.5041	18 1/2
56	2.2047	2 11/64	139	5.4725	5 15/32	222	8.7402	8 57/64	305	12.0079	12 1/64	388	15.2757	15 1/4	471	18.5435	18 43/64
57	2.2441	2 1/4	140	5.5119	5 29/64	223	8.7796	8 29/32	306	12.0473	12 1/32	389	15.3151	15 5/16	472	18.5828	18 23/32
58	2.2835	2 9/32	141	5.5512	5 15/64	224	8.8190	8 59/64	307	12.0867	12 3/64	390	15.3545	15 23/64	473	18.6222	18 47/64
59	2.3229	2 19/64	142	5.5906	5 31/64	225	8.8583	8 55/64	308	12.1261	12 1/8	391	15.3938	15 25/64	474	18.6616	18 3/4
60	2.3622	2 23/64	143	5.6300	5 5/8	226	8.8977	8 7/8	309	12.1655	12 5/64	392	15.4332	15 7/16	475	18.7009	18 49/64
61	2.4016	2 3/32	144	5.6693	5 43/64	227	8.9371	8 61/64	310	12.2049	12 3/32	393	15.4726	15 31/64	476	18.7403	18 47/64
62	2.4410	2 1/16	145	5.7087	5 45/64	228	8.9765	8 31/32	311	12.2442	12 1/4	394	15.5119	15 1/2	477	18.7797	18 25/32
63	2.4803	2 31/64	146	5.7481	5 3/4	229	9.0158	9 1/64	312	12.2836	12 9/32	395	15.5513	15 33/64	478	18.8191	18 51/64
64	2.5197	2 33/64	147	5.7875	5 25/64	230	9.0552	9 1/64	313	12.3229	12 21/64	396	15.5907	15 17/32	479	18.8584	18 53/64
65	2.5591	2 1/8	148	5.8268	5 53/64	231	9.0946	9 3/64	314	12.3623	12 23/64	397	15.6300	15 39/64	480	18.8979	18 27/32
66	2.5984	2 17/64	149	5.8662	5 27/32	232	9.1339	9 9/64	315	12.4017	12 25/64	398	15.6694	15 41/64	481	18.9372	18 55/64
67	2.6378	2 21/64	150	5.9056	5 59/64	233	9.1733	9 11/64	316	12.4410	12 13/32	399	15.7088	15 43/64	482	18.9765	18 57/64
68	2.6772	2 43/64	151	5.9449	5 61/64	234	9.2127	9 3/32	317	12.4804	12 31/64	400	15.7482	15 3/4	483	19.0159	19 1/64
69	2.7166	2 45/64	152	5.9843	5 61/64	235	9.2520	9 1/64	318	12.5198	12 1/32	401	15.7875	15 25/64	484	19.0553	19 1/16
70	2.7559	2 3/4	153	6.0237	6 1/32	236	9.2914	9 29/64	319	12.5592	12 7/64	402	15.8269	15 25/64	485	19.0946	19 3/64
71	2.7953	2 51/64	154	6.0630	6 1/16	237	9.3308	9 15/32	320	12.5985	12 17/32	403	15.8663	15 51/64	486	19.1340	19 3/64
72	2.8347	2 53/64	155	6.1024	6 3/64	238	9.3702	9 31/64	321	12.6379	12 33/64	404	15.9056	15 53/64	487	19.1734	19 7/32
73	2.8740	2 7/8	156	6.1418	6 9/64	239	9.4095	9 33/64	322	12.6773	12 41/64	405	15.9450	15 13/16	488	19.2128	19 15/64
74	2.9134	2 29/32	157	6.1812	6 5/16	240	9.4489	9 29/64	323	12.7166	12 21/32	406	15.9844	15 29/32	489	19.2521	19 1/4
75	2.9528	2 61/64	158	6.2205	6 7/32	241	9.4883	9 31/64	324	12.7560	12 3/4	407	16.0238	16 1/32	490	19.2915	19 19/64
76	2.9922	3	159	6.2599	6 1/4	242	9.5276	9 15/32	325	12.7954	12 51/64	408	16.0631	16 1/16	491	19.3309	19 21/64
77	3.0315	3 1/32	160	6.2993	6 19/64	243	9.5670	9 35/64	326	12.8347	12 53/64	409	16.1025	16 5/64	492	19.3702	19 3/8
78	3.0709	3 5/64	161	6.3386	6 11/32	244	9.6064	9 39/64	327	12.8741	12 7/8	410	16.1419	16 1/8	493	19.4096	19 23/32
79	3.1103	3 7/64	162	6.3780	6 3/8	245	9.6458	9 41/64	328	12.9135	12 29/32	411	16.1812	16 13/64	494	19.4490	19 25/64
80	3.1496	3 1/8	163	6.4174	6 27/64	246	9.6851	9 11/16	329	12.9528	12 61/64	412	16.2206	16 7/32	495	19.4884	19 13/32
81	3.1890	3 1/16	164	6.4568	6 29/64	247	9.7245	9 23/32	330	12.9922	13	413	16.2599	16 17/64	496	19.5277	19 27/64
82	3.2284	3 3/32	165	6.4961	6 1/2	248	9.7639	9 45/64	331	13.0316	13 1/32	414	16.2993	16 9/32	497	19.5671	19 7/16
83	3.2677	3 1/64	166	6.5355	6 17/32	249	9.8032	9 49/64	332	13.0709	13 5/64	415	16.3388	16 11/32	498	19.6065	19 29/64

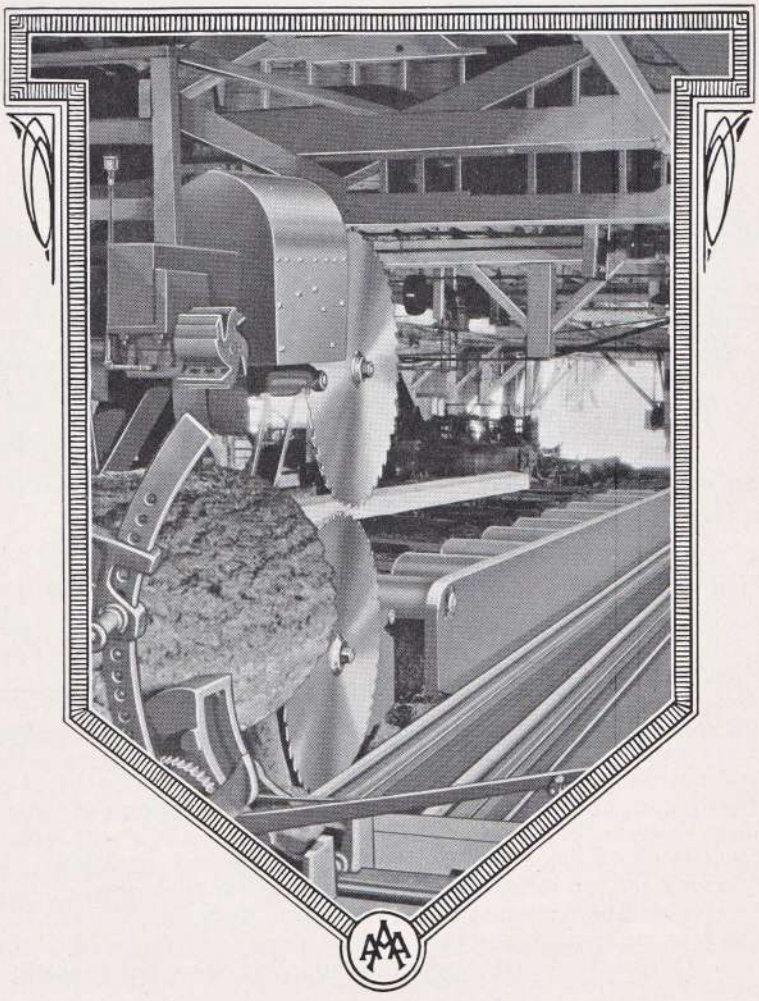
MILLIMETERS TO INCHES

(CONTINUED)

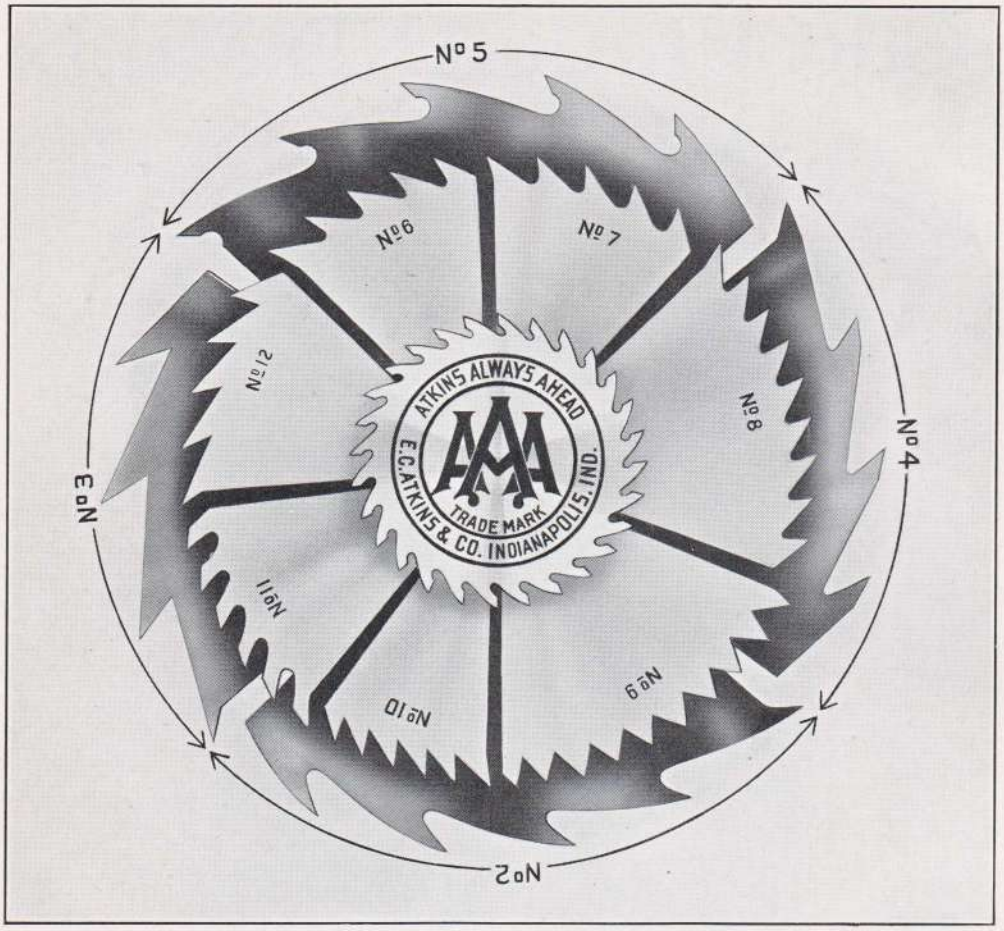
NOTE—Fractions are not exact, but are given to the nearest 1/64 inch.

MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction
499	19.6458	19 41/64	583	22.9530	22 41/64	667	26.2601	26 17/64	751	29.5672	29 9/16	835	32.8743	32 7/8	919	36.1814	36 3/16
500	19.6852	19 11/16	584	22.9923	23	668	26.2994	26 9/32	752	29.6066	29 19/64	836	32.9137	32 29/32	920	36.2208	36 7/32
501	19.7246	19 23/32	585	23.0317	23 1/32	669	26.3388	26 11/32	753	29.6459	29 41/64	837	32.9530	32 61/64	921	36.2602	36 17/64
502	19.7640	19 49/64	586	23.0711	23 3/64	670	26.3782	26 3/8	754	29.6853	29 11/16	838	32.9924	33	922	36.2995	36 9/32
503	19.8033	19 25/32	587	23.1104	23 7/64	671	26.4175	26 27/64	755	29.7247	29 23/32	839	33.0318	33 1/32	923	36.3389	36 11/32
504	19.8427	19 51/64	588	23.1499	23 5/32	672	26.4569	26 29/64	756	29.7640	29 47/64	840	33.0712	33 3/64	924	36.3783	36 3/8
505	19.8821	19 13/16	589	23.1892	23 11/64	673	26.4963	26 15/32	757	29.8034	29 51/64	841	33.1105	33 1/16	925	36.4176	36 27/64
506	19.9214	19 53/64	590	23.2285	23 15/64	674	26.5357	26 31/64	758	29.8428	29 27/32	842	33.1499	33 5/64	926	36.4571	36 29/64
507	19.9608	19 27/32	591	23.2679	23 1/4	675	26.5750	26 1/2	759	29.8821	29 59/64	843	33.1893	33 3/32	927	36.4964	36 1/2
508	20.0002	20	592	23.3073	23 9/64	676	26.6144	26 33/64	760	29.9215	29 15/16	844	33.2286	33 7/64	928	36.5357	36 17/32
509	20.0395	20 1/64	593	23.3467	23 5/32	677	26.6538	26 17/32	761	29.9609	29 31/32	845	33.2681	33 9/64	929	36.5751	36 37/64
510	20.0789	20 5/64	594	23.3860	23 23/64	678	26.6931	26 35/64	762	30.0003	30	846	33.3074	33 5/32	930	36.6145	36 19/32
511	20.1183	20 1/8	595	23.4254	23 15/32	679	26.7325	26 43/64	763	30.0396	30 1/64	847	33.3467	33 11/64	931	36.6539	36 39/64
512	20.1577	20 5/64	596	23.4648	23 29/64	680	26.7719	26 45/64	764	30.0790	30 1/32	848	33.3861	33 3/32	932	36.6932	36 5/8
513	20.1970	20 13/64	597	23.5041	23 15/32	681	26.8113	26 23/32	765	30.1184	30 3/64	849	33.4255	33 27/64	933	36.7326	36 41/64
514	20.2364	20 15/64	598	23.5435	23 31/64	682	26.8506	26 47/64	766	30.1577	30 1/16	850	33.4649	33 15/32	934	36.7720	36 21/32
515	20.2758	20 17/64	599	23.5829	23 3/4	683	26.8900	26 3/4	767	30.1971	30 5/64	851	33.5042	33 1/2	935	36.8113	36 43/64
516	20.3151	20 1/4	600	23.6222	23 49/64	684	26.9294	26 49/64	768	30.2365	30 3/32	852	33.5436	33 35/64	936	36.8507	36 11/16
517	20.3545	20 23/64	601	23.6616	23 25/32	685	26.9687	26 25/32	769	30.2758	30 7/64	853	33.5830	33 37/64	937	36.8901	36 45/64
518	20.3939	20 25/64	602	23.7010	23 51/64	686	27.0081	27 1/64	770	30.3152	30 1/16	854	33.6223	33 19/32	938	36.9295	36 23/32
519	20.4332	20 13/64	603	23.7404	23 47/64	687	27.0475	27 3/64	771	30.3546	30 7/64	855	33.6617	33 21/32	939	36.9688	36 47/64
520	20.4726	20 29/64	604	23.7797	23 15/16	688	27.0868	27 1/32	772	30.3940	30 9/64	856	33.7011	33 43/64	940	37.0082	37 1/64
521	20.5120	20 31/64	605	23.8192	23 31/32	689	27.1262	27 1/8	773	30.4333	30 5/32	857	33.7404	33 11/16	941	37.0476	37 3/64
522	20.5514	20 33/64	606	23.8585	24 1/64	690	27.1656	27 5/64	774	30.4727	30 11/64	858	33.7798	33 45/64	942	37.0869	37 3/32
523	20.5908	20 17/32	607	23.8978	24 1/32	691	27.2050	27 3/32	775	30.5121	30 3/32	859	33.8192	33 23/32	943	37.1263	37 1/8
524	20.6301	20 5/8	608	23.9372	24 3/64	692	27.2443	27 1/4	776	30.5514	30 25/64	860	33.8586	33 47/64	944	37.1657	37 11/64
525	20.6695	20 43/64	609	23.9766	24 1/16	693	27.2838	27 9/32	777	30.5908	30 13/32	861	33.8979	33 49/64	945	37.2050	37 13/64
526	20.7088	20 45/64	610	24.0160	24 1/64	694	27.3231	27 5/64	778	30.6302	30 15/64	862	33.9373	33 25/32	946	37.2444	37 1/4
527	20.7482	20 3/4	611	24.0553	24 1/16	695	27.3624	27 11/64	779	30.6696	30 7/32	863	33.9767	33 51/64	947	37.2838	37 19/64
528	20.7876	20 49/64	612	24.0947	24 3/32	696	27.4018	27 3/16	780	30.7089	30 1/4	864	34.0200	34 1/64	948	37.3232	37 5/16
529	20.8269	20 13/16	613	24.1341	24 5/64	697	27.4412	27 7/32	781	30.7483	30 17/64	865	34.0554	34 1/16	949	37.3625	37 21/64
530	20.8663	20 53/64	614	24.1734	24 11/64	698	27.4805	27 15/64	782	30.7877	30 19/64	866	34.0948	34 3/32	950	37.4019	37 11/32
531	20.9057	20 27/32	615	24.2128	24 7/32	699	27.5199	27 13/32	783	30.8270	30 5/16	867	34.1342	34 7/64	951	37.4413	37 23/64
532	20.9451	20 55/64	616	24.2522	24 1/4	700	27.5593	27 7/16	784	30.8664	30 21/64	868	34.1735	34 11/64	952	37.4806	37 3/8
533	20.9844	20 59/64	617	24.2915	24 19/64	701	27.5987	27 29/64	785	30.9058	30 11/32	869	34.2129	34 7/32	953	37.5200	37 25/64
534	21.0238	21 1/64	618	24.3309	24 5/32	702	27.6380	27 15/32	786	30.9451	30 31/64	870	34.2523	34 1/4	954	37.5594	37 13/32
535	21.0632	21 1/16	619	24.3703	24 25/64	703	27.6774	27 31/64	787	30.9845	30 1/2	871	34.2916	34 19/64	955	37.5988	37 27/64
536	21.1025	21 3/64	620	24.4097	24 13/32	704	27.7168	27 1/2	788	31.0239	31 1/64	872	34.3310	34 21/64	956	37.6381	37 29/64
537	21.1419	21 1/8	621	24.4490	24 27/64	705	27.7561	27 33/64	789	31.0633	31 1/32	873	34.3704	34 3/8	957	37.6775	37 15/32
538	21.1813	21 7/64	622	24.4885	24 31/64	706	27.7955	27 17/32	790	31.1026	31 3/64	874	34.4097	34 13/32	958	37.7169	37 31/64
539	21.2207	21 7/32	623	24.5278	24 1/2	707	27.8349	27 35/64	791	31.1420	31 1/16	875	34.4491	34 29/64	959	37.7562	37 3/4
540	21.2600	21 17/64	624	24.5671	24 33/64	708	27.8743	27 9/16	792	31.1814	31 5/64	876	34.4885	34 15/32	960	37.7956	37 33/64
541	21.2995	21 17/64	625	24.6065	24 17/32	709	27.9136	27 37/64	793	31.2207	31 7/32	877	34.5279	34 17/32	961	37.8350	37 17/32
542	21.3388	21 11/32	626	24.6459	24 41/64	710	27.9530	27 19/32	794	31.2601	31 11/64	878	34.5672	34 9/16	962	37.8743	37 35/64
543	21.3781	21 3/8	627	24.6852	24 21/32	711	27.9924	28	795	31.2995	31 13/64	879	34.6066	34 23/64	963	37.9137	37 9/16
544	21.4175	21 27/64	628	24.7246	24 43/64	712	28.0317	28 1/32	796	31.3389	31 7/32	880	34.6459	34 11/16	964	37.9531	37 37/64
545	21.4569	21 29/64	629	24.7640	24 45/64	713	28.0711	28 3/64	797	31.3782	31 3/8	881	34.6853	34 47/64	965	37.9925	38
546	21.4962	21 1/2	630	24.8034	24 11/16	714	28.1105	28 1/16	798	31.4176	31 27/64	882	34.7247	34 23/32	966	38.0318	38 1/32
547	21.5356	21 17/32	631	24.8427	24 23/32	715	28.1498	28 5/32	799	31.4570	31 29/64	883	34.7641	34 49/64	967	38.0712	38 1/64
548	21.5750	21 35/64	632	24.8821	24 7/8	716	28.1892	28 7/64	800	31.4963	31 1/2	884	34.8035	34 25/32	968	38.1106	38 1/64
549	21.6144	21 37/64	633	24.9215	24 51/64	717	28.2286	28 9/32	801	31.5357	31 33/64	885	34.8428	34 51/64	969	38.1499	38 3/32
550	21.6537	21 39/64	634	24.9608	24 61/64	718	28.2680	28 11/64	802	31.5751	31 17/32	886	34.8822	34 7/8	970	38.1893	38 7/64
551	21.6931	21 11/16	635	25.0002	25	719	28.3073	28 5/16	803	31.6144	31 35/64	887	34.9216	34 55/64	971	38.2287	38 15/64
552	21.7325	21 43/64	636	25.0396	25 1/64	720	28.3467	28 13/64	804	31.6538	31 21/32	888	34.9609	34 31/32	972	38.2680	38 3/16
553	21.7718	21 45/64	637	25.0790	25 1/64	721	28.3861	28 25/64	805	31.6932	31 11/16	889	35.0003	35	973	38.3074	38 7/64
554	21.8112	21 11/16	638	25.1183	25 1/8	722	28.4254	28 7/16	806	31.7326	31 47/64	890	35.0397	35 1/64	974	38.3468	38 19/64
555	21.8506	21 47/64	639	25.1578	25 5/32	723	28.4648	28 29/64	807	31.7719	31 49/64	891	35.0790	35 1/64	975	38.3862	38 25/64
556	21.8900	21 55/64	640	25.1971	25 13/64	724	28.5042	28 1/2	808	31.8113	31 25/32	892	35.1184	35 1/8	976	38.4255	38 27/64
557	21.9293	21 57/64	641	25.2364	25 15/64	725	28.5436	28 35/64	809	31.8507	31 51/64	893	35.1578	35 5/64	977	38.4649	38 15/32
558	21.9687	21 59/64	642	25.2758	25 1/4	726	28.5829	28 37/64	810	31.8900	31 27/32	894	35.1972	35 11/64	978	38.5043	38 31/64
559	22.0081	22 1/64	643	25.3152	25 5/16	727	28.6223	28 5/8	811	31.9294	31 59/64	895	35.2365	35 3/32	979	38.5436	38 1/2
560	22.0474	22 3/64	644	25.3545	25 21/64	728	28.6617	28 41/64	812	31.9688	31 63/64	896	35.2759	35 13/64	980	38.5830	38 33/64
561	22.0868	22 1/16	645	25.3939	25 11/32	729	28.7010	28 21/32	813	32.0081	32 1/64	897	35.3153	35 7/32	981	38.6224	38 17/32
562	22.1262	22 5/64	646	25.4333	25 1/16	730	28.7404	28 43/64	814	32.0475	32 1/32	898	35.3546	35 15/64	982	38.6618	38 35/64
563	22.1655	22 11/64	647	25.4727	25 29/64	731	28.7798	28 23/32	815	32.0869	32 3/64	899	35.3940	35 29/64	983	38.7011	38 9/16
564	22.2049	22 7/32	648	25.5120	25 15/32	732	28.8191	28 47/64	816	32.1263	32 1/16	900	35.4334	35 7/16	984	38.7405	38 37/64
565	22.2443	22 1/4	649	25.5514	25 31/64	733	28.8585	28 3/4	817	32.1656	32 11/64	901	35.4727	35 15/32	985	38.7799	38 19/32
566	22.2837	22 9/32	650	25.5908	25 1/2	734	28.8979	28 51/64	818	32.2050	32 13/64	902	35.5121	35 31/64	986	38.8192	38 39/64
567	22.3230	22 11/32	651	25.6301	25 33/64	735	28.9373	28 13/16	819	32.2444	32 1/4	903	35.5516	35 1/2	987	38.8586	38 5/8
568	22.3624	22 23/64	652	25.6695	25 17/32	736	28.9766	28 53/64	820	32.2837	32 9/32	904	35.5909	35 17/32	988	38.8980	38 41/64
569	22.4018	22 7/32	653	25.7089	25 35/64	737	29.0160	29 7/64	821	32.3231	32 21/64	905	35.6303	35 9/16	989	38.9373	38 21/32
570	22.4411	22 7/16	654	25.7483	25 3/4	738	29.0554	29 1/16	822	32.3625	32 11/32	906	35.6697	35 43/64	990	38.9767	38 43/64
571	22.4805	22 15/64	655	25.7876	25 37/64	739	29.0947	29 9/32	823	32.4019	32 23/64	907	35.7091	35 45/64	991	39.0161	39 1/64
572	22.5199	22 31/64	656	25.8270	25 19/32	740	29.1341	29 5/64	824	32.4412	32 7/16	908	35.7484	35 3/4	992	39.0555	39 1/16
573	22.5592	22 9/16	657	25.8664	25 39/64	741	29.1735	29 11/64	825	32.4806	32 31/64	909	35.7878	35 25/32	993	39.0948	39 3/32
574	22.5986	22 33/64	658	25.9057	25 5/8	742	29.2129	29 3/32	826	32.5200	32 33/64	910	35.8271	35 51/64	994	39.1342	39 5/64
575	22.6380	22 41/64	659	25.9451	25 41/64	743	29.2522	29 1/4	827	32.5593	32 3/4	911	35.8665	35 53/64	995	39.1736	39 7/64
576	22.6774	22 43/64	660	25.9845	25 53/64	744	29.2916	29 7/32	828	32.5987	32 17/32	912	35.9058	35 57/64	996	39.2129	39 5/32
577	22.7167	22 45/64	661	26.0238	26 3/32	745	29.3310	29 15/64	829	32.6381	32 41/64	913	35.9452	35 29/32	997	39.2523	39 1/4
578	22.7561	22 3/4	662	26.0632	26 1/16	746	29.3703	29 3/8	830	32.6774	32 21/32	914	35.9846	35 59/64	998	39.2917	39 19/64
579	22.7955	22 47/64	663	26.1026	26 5/64	747	29.4097	29 13/32	831	32.7168	32 43/64	915	36.0239	36 1/32	999	39.3310	39 21/64
580	22.8349	22 23/32	664	26.1420	26 7/64	748	29.4491	29 29/64	832	32.7562	32 3/4	916	36.0633	36 1/16	1000	39.3704	39 3/8
581	22.8742	22 7/8	665	26.1813	26 1/8	749	29.4884	29 31/64	833	32.7956	32 45/64	917	36.1027	36 7/64			
582	22.9136	22 29/32	666	26.2207	26 9/32	750	29.5278	29 15/32	834	32.8349	32 47/64	918	36.1420	36 9/64			

CIRCULAR AND MILL SAW DIVISION



ATKINS CIRCULAR SAWS



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

No. 2 tooth is used on large and small solid saws and to a large extent on bolters.

No. 3 tooth is an old pattern for ripping, but is not used to as large an extent as heretofore.

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

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

No. 6 tooth is used principally for equalizer saws.

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

No. 8 is also one used on cross cut and equalizers, 3-inch diameter and larger, also on half and half saws. It can be used for both ripping and cross cutting on saws ½ space to ¼ space any diameter up to 20 inches.

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

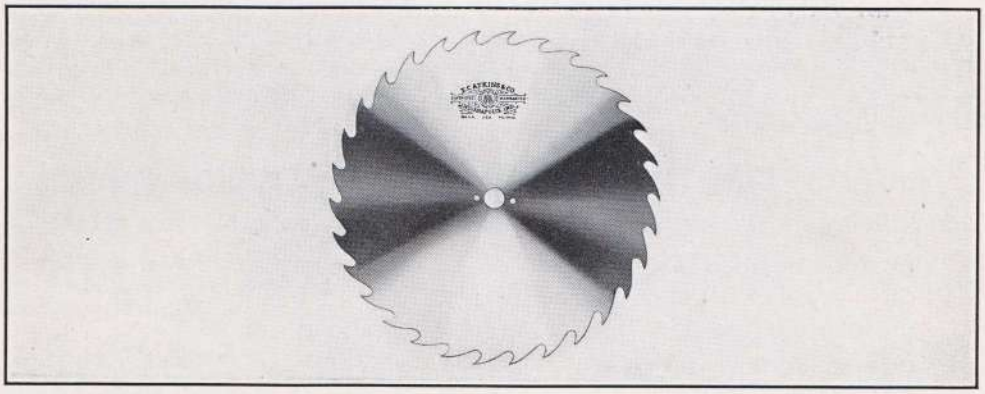
No. 10 tooth is a very fine rip saw style.

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

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

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

ATKINS SOLID TOOTH SAWS
FOR THE MILL



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

This Steel is manufactured in enormous quantities for us exclusively.

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

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

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

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

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

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

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

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

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

ATKINS CIRCULAR SAWS

FOR THE MILL

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

INSTRUCTIONS FOR ORDERING ATKINS CIRCULAR SAWS

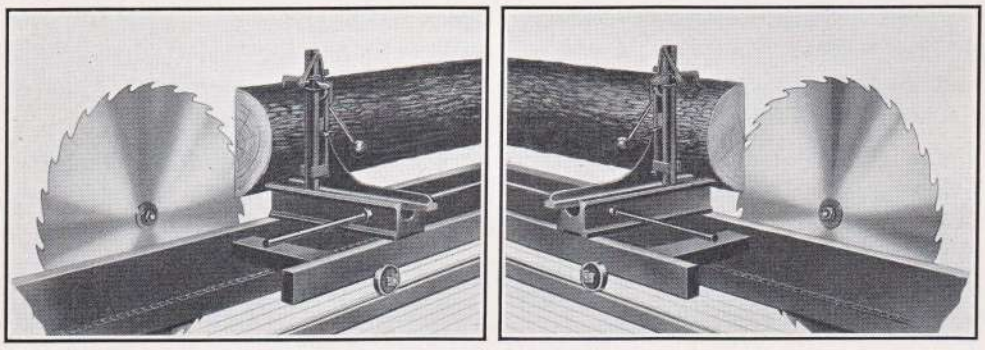
In ordering circular saws be careful to give following specifications in detail:

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

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

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

ILLUSTRATING THE HAND OF CIRCULAR SAWS



Left Hand **Right Hand**

See illustration on page 35, showing hand of shingle saws.

Copy of our pamphlet showing care of saws in the mill can be had for the asking.

ATKINS CIRCULAR SAWS

SPEED OF CIRCULAR SAWS

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

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

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

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

TABLE OF SPEED OF CIRCULAR SAWS

Size of Saw Inches	Rev. per Minute Speed	Size of Saw Inches	Rev. per Minute Speed	Size of Saw Inches	Rev. per Minute Speed	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	..	....	..	...	..	...

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

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

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

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

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

Problem 3. To ascertain the size of the driver.

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

THICKNESSES OR GAUGES OF SAWS

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

No. of Wire Gauge	Birmingham or Stubbs Wire	American or Brown & Sharpe	Imperial Wire Gauge	U. S. Std. for Plate	No. of Wire Gauge	Birmingham or Stubbs Wire	American or Brown & Sharpe	Imperial Wire Gauge	U. S. Std. for Plate
000000	....	.....	.464	.46875	18	.049	.040303	.048	.050
00000	....	.....	.432	.4375	19	.042	.03589	.040	.04375
0000	.454	.460	.400	.40625	20	.035	.031961	.036	.0375
000	.425	.40964	.372	.375	21	.032	.028462	.032	.034375
00	.380	.3648	.348	.34375	22	.028	.025347	.028	.03125
0	.340	.32486	.324	.3125	23	.025	.022571	.024	.028125
1	.300	.2893	.300	.28125	24	.022	.0201	.022	.025
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	.00664062
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	17/64	.265625	33/64	.515625	49/64	.765625
1/32	.03125	9/32	.28125	17/32	.53125	25/32	.78125
3/64	.046875	19/64	.296875	35/64	.546875	51/64	.796875
1/16	.0625	5/16	.3125	9/16	.5625	13/16	.8125
5/64	.078125	21/64	.328125	37/64	.578125	53/64	.828125
3/32	.09375	11/32	.34375	19/32	.59375	27/32	.84375
7/64	.109375	23/64	.359375	39/64	.609375	55/64	.859375
1/8	.125	3/8	.375	5/8	.625	7/8	.875
9/64	.140625	25/64	.390625	41/64	.640625	57/64	.890625
5/32	.15625	13/32	.40625	21/32	.65625	29/32	.90625
11/64	.171875	27/64	.421895	43/64	.671875	59/64	.921875
3/16	.1875	7/16	.4375	11/16	.6875	15/16	.9375
13/64	.203125	29/64	.453125	45/64	.703125	61/64	.953125
7/32	.21875	15/32	.46875	23/32	.71875	31/32	.96875
15/64	.234375	31/64	.484375	47/64	.734375	63/64	.984375
1/4	.25	1/2	.5	3/4	.75	..	.....

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

STANDARD NUMBER OF TEETH IN SOLID TOOTH CIRCULAR SAWS

SMALL SAWS

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

SAW MILL OR LOG SAWS

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

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

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

RE-SAWS, EDGERS AND SHINGLE SAWS

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

ATKINS SOLID TOOTH CIRCULAR SAWS

Diameter Inches	Thickness Gauge	Size of Hole Inches	Price Each	Extra for Each Gauge Heavier	Extra for Each Gauge Beveling	Approx. Weight Pounds
6	18	3/4	$ 3.30	$0.07	$0.25	3/4 Net
8	18	7/8	4.40	.10	.35	1 Net
10	16	1	5.60	.20	.45	1½ Net
12	15	1	7.00	.30	.55	2½ Net
14	14	1 1/8	8.50	.40	.65	3½ Net
16	14	1 1/8	10.50	.50	.75	4½ Net
18	13	1 1/4	12.50	.60	.90	6 Net
20	13	1 5/16	15.00	.75	1.05	7 Net
22	12	1 5/16	17.50	.90	1.20	10 Net
24	11	1 3/8	20.50	1.05	1.35	13 Net
26	11	1 3/8	24.00	1.25	1.55	16 Net
28	10	1½	28.00	1.50	1.75	21 Net
30	10	1½	32.00	1.75	1.95	24½ Net
32	10	1 5/8	36.50	2.00	2.15	27 Net
34	9	1 5/8	41.00	2.25	2.35	33 Net
36	9	1 5/8	47.00	2.60	2.55	40 Net
38	9	1 5/8	54.00	3.00	2.75	49 Net
40	9	2	62.00	3.40	2.95	100 Gross
42	8	2	71.00	3.80	3.25	105 Gross
44	8	2	83.00	4.40	3.55	115 Gross
46	8	2	98.00	5.15	3.85	125 Gross
48	8	2	112.00	5.90	4.15	136 Gross
50	7	2	127.00	6.65	4.45	148 Gross
52	7	2	142.00	7.40	4.80	160 Gross
54	7	2	157.00	8.80	5.15	170 Gross
56	7	2	180.00	10.25	5.50	180 Gross
58	7	2	200.00	11.75	5.95	195 Gross
60	6	2	224.00	13.25	6.40	210 Gross
62	6	2	250.00	14.75	6.85	225 Gross
64	6	2	280.00	17.60	7.35	240 Gross
66	6	2	310.00	22.00	7.85	265 Gross
68	5	2	350.00	26.40	8.45	285 Gross
70	5	2	400.00	30.80	9.05	295 Gross
72	5	2	450.00	35.20	9.65	325 Gross
74	5	2	510.00	39.60	10.30	335 Gross
76	5	2	575.00	44.00	11.00	350 Gross
78	5	2	690.00	49.85	11.85	365 Gross
80	5	2	810.00	55.75	12.90	375 Gross
82	5	2	940.00	63.05	14.10	390 Gross
84	5	2	1,075.00	70.40	15.40	500 Gross

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

All saws filed and set, ready for use.

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

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

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

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

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

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

RE-SAWING OR SIDING SAWS

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

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

SOLID TOOTH EDGER SAWS

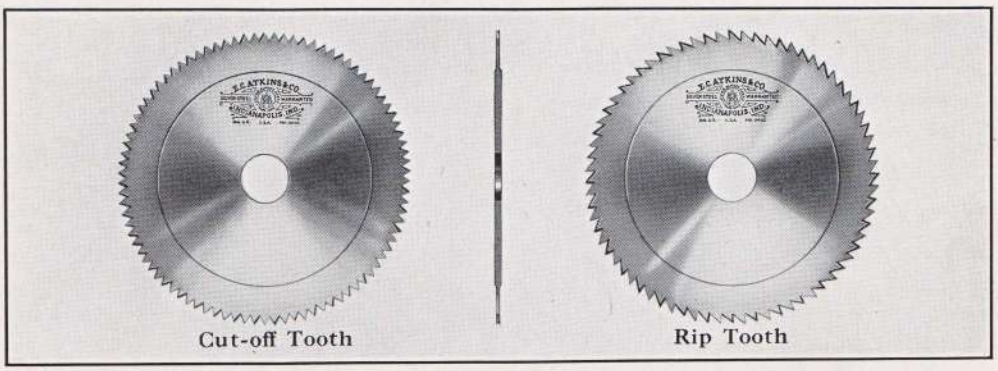
Diameter Inches	Price, Each				
	8 Gauge	9 Gauge	10 Gauge	11 Gauge	12 Gauge
12	$ 8.80	$ 8.50	$ 8.20	$ 7.90	$ 7.60
14	10.50	10.10	9.70	9.30	8.90
16	13.00	12.50	12.00	11.50	11.00
18	14.90	14.30	13.70	13.10	.....
20	18.00	17.25	16.50	.....	.....
22	20.20	19.30	18.40	.....	.....
24	22.60	21.55	20.50	.....	.....

LATHE SAWS

Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge Heavier	Diameter Inches	Gauge	Price Each	Extra for Each Additional Gauge Heavier
8	9	$3.40	$0.20	13	6	$5.40	$0.35
9	8	3.60	.20	14	6	6.00	.35
10	7	4.00	.25	15	5	6.60	.40
11	7	4.40	.30	16	5	7.40	.40
12	6	4.80	.30	..	..	....	.....

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

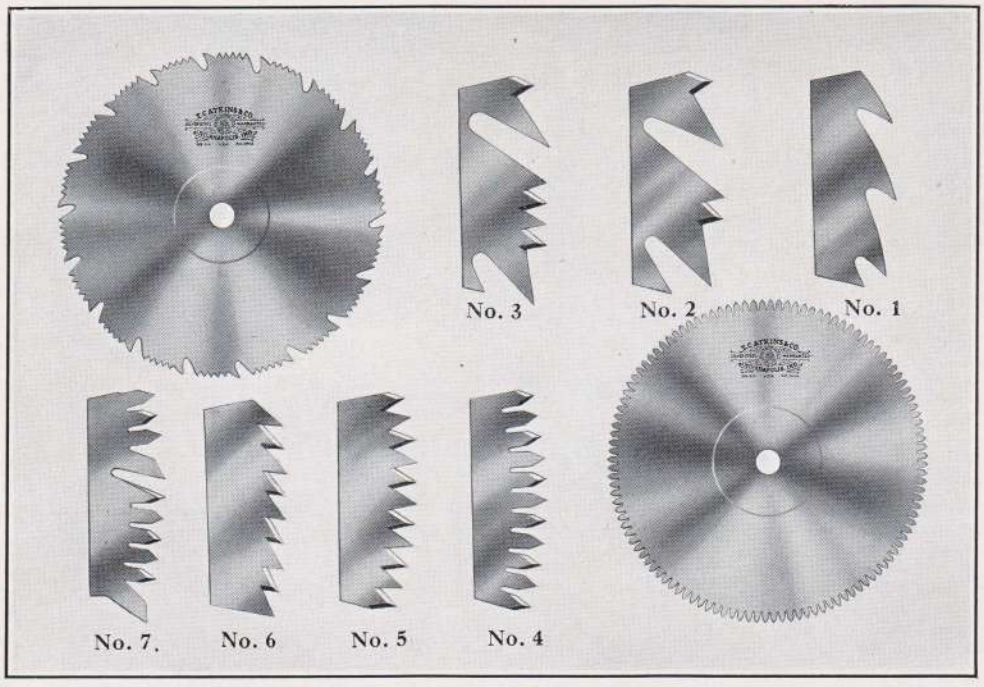
THIN RIM SPECIAL GROUND SAWS WHERE NARROW KERF IS DESIRED



PRICES ON APPLICATION

ATKINS CIRCULAR MITRE SAWS

SILVER STEEL, HOLLOW GROUND, FOR FINE WORK



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

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

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

In ordering, it is important to give diameter of saw, gauge at toothed edge, gauge at hole and, if desired, the additional gauges beveling, also state whether to be made with plain or cleaner teeth. See styles as numbered. Give size of center hole, also diameter of collar on mandrel.

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

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

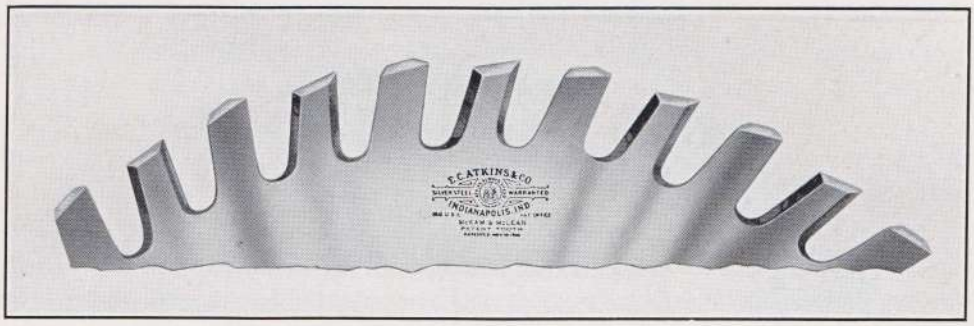
Sectional View Showing Method of Grinding Above Saws

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

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

ATKINS "McKAM TOOTH" CIRCULAR SAWS

SILVER STEEL



ATKINS "McKAM TOOTH" SAW

UNEQUALLED FOR SMOOTH SAWING, RIPPING, MITREING OR CROSS CUTTING

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

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

HOW TO ORDER

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

HOW TO FILE

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

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

ATKINS "McKAM TOOTH" CIRCULAR SAWS

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

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

ATKINS SHINGLE AND HEADING SAWS

SILVER STEEL, PATENT TAPER GROUND

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

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

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

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

WHEN ORDERING SHINGLE AND HEADING SAWS, GIVE FOLLOWING SPECIFICATIONS

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

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

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

SHINGLE AND HEADING SAWS

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

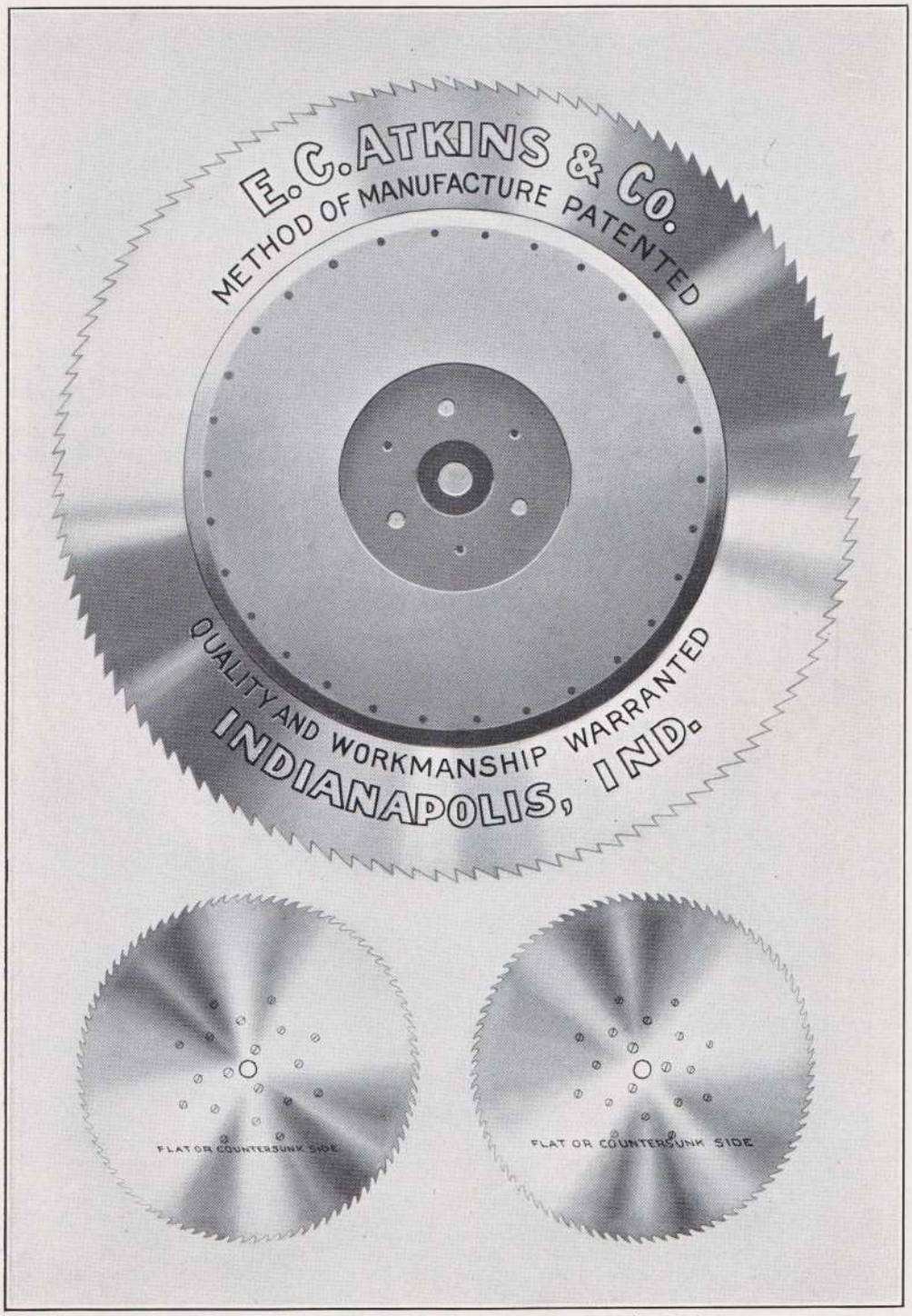
Above list is for saws beveled not more than eight gauges, and with thickness at center of the same gauge as shown in solid tooth circular saw list for saws of the same diameter, but one gauge thicker is allowed without extra charge.

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

Ask for lowest current prices on Shingle Saw Collars.

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

ATKINS SHINGLE AND HEADING SAWS

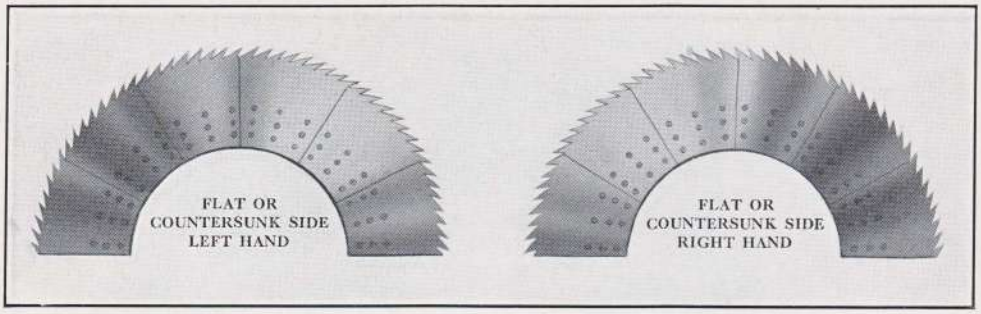


Left Hand Right Hand

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

ATKINS SEGMENT VENEER SAWS

SILVER STEEL



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

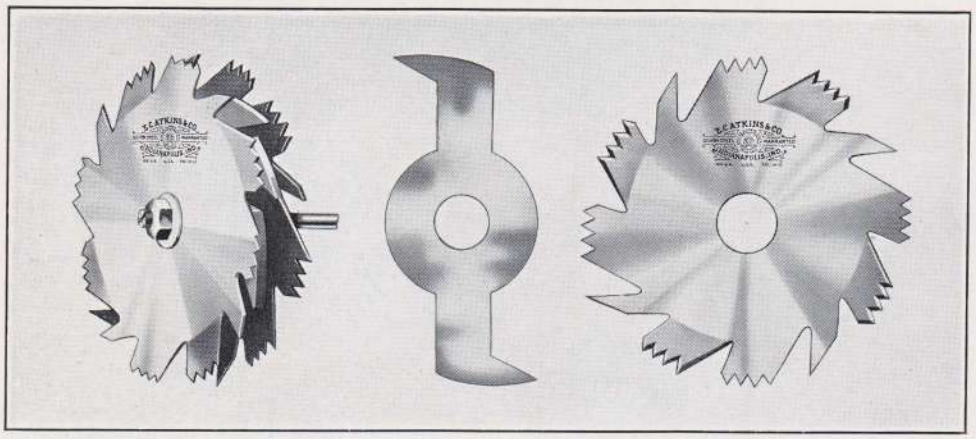
In ordering for a flange that has been drilled, send a sheet iron or tin template, or a correct tracing showing holes and other particulars, or preferably one of the old segments giving the depth they originally were.

PRICE PER FOOT IN DIAMETER OF SAW

	19 Gauge and Thinner	18 Gauge and Thicker
12 inches deep, 5 gauge	$29.00	$25.00
12 inches deep, 6 gauge	28.00	24.00
12 inches deep, 7 gauge	27.00	23.00
12 inches deep, 8 gauge	26.00	22.00
12 inches deep, 9 gauge	25.00	21.00
12 inches deep, 10 gauge	24.00	20.00

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

ATKINS GROOVER OR DADO HEADS



These dado heads are our own make. They have a capacity for cutting any width of groove from ⅛ to 4 inches and can be made with an even greater capacity. They are made in six different combination sets as listed on page 37. No. 6 set will cut any groove from ⅛ to 2 inches. No. 5 from ⅛ to 1½ 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 ¼ inch thick. The outside cutters are ⅛ inch thick. It will cut a perfect groove, either with or across the grain and makes an exceedingly smooth, even cut. See page 37.

SIZE OF ATKINS DADO HEADS

ILLUSTRATED AT FOOT OF PAGE 36

INSIDE, OUTSIDE CUTTERS AND GROOVERS

The groovers are arranged in sets, as follows: **No. 1 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$. **No. 2 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$. **No. 3 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$. **No. 4 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1. **No. 5 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1, $1\frac{1}{16}$, $1\frac{1}{8}$, $1\frac{3}{16}$, $1\frac{1}{4}$, $1\frac{5}{16}$, $1\frac{3}{8}$, $1\frac{7}{16}$, $1\frac{1}{2}$. **No. 6 set,** cutting grooves, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1, $1\frac{1}{16}$, $1\frac{1}{8}$, $1\frac{3}{16}$, $1\frac{1}{4}$, $1\frac{5}{16}$, $1\frac{3}{8}$, $1\frac{7}{16}$, $1\frac{1}{2}$, $1\frac{9}{16}$, $1\frac{5}{8}$, $1\frac{11}{16}$, $1\frac{3}{4}$, $1\frac{13}{16}$, $1\frac{7}{8}$, $1\frac{15}{16}$, 2. **No. 7 set,** cutting grooves, $\frac{1}{8}$ to 3 inches wide. **No. 8 set,** cutting grooves, $\frac{1}{8}$ to 4 inches wide.

No. of Set	Diameter, Inches										
	6	7	8	9	10	11	12	14	16	18	20
1	$11.50	$13.15	$14.85	$16.50	$19.00	$21.65	$25.15	$29.65	$34.50	$37.15	$43.85
2	13.85	15.65	17.50	19.35	22.00	24.85	28.65	34 00	39.85	43.15	50.35
3	16.60	18.65	20.85	23.00	26.00	29.15	33.35	39.35	45.65	50.00	58.35
4	18.90	21.15	23.50	25.85	29.00	32.35	36.85	43.65	51.00	56.00	65.85
5	23.60	26.15	28.85	31.50	35.00	38.65	43.85	52.35	61.65	68.00	80.85
6	28.25	31.15	34.15	37.15	41.00	45.00	50.85	61.00	72.35	80.00	95.85
7	37.60	41.15	44.85	48.50	53.00	57.65	64.85	78.35	93.65	104.00	125.85
8	46.90	51.15	55.50	59.85	65.00	70.35	78.85	95.65	115.00	126.65	155.85

INSIDE CUTTERS

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

ATKINS SPECIAL TOOTH SOLID PLATE GROOVING SAWS

OUTSIDE CUTTERS AND SOLID GROOVING SAWS OF SAME PATTERN

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

Diameter Inches	Price, Each Thickness, Inches						
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
5	$ 4.15	$ 5.00	$ 7.10	$ 9.15	$11.50	$13.15	$14.85
6	4.90	5.85	8.35	10.85	13.15	14.85	16.50
7	5.65	6.65	9.60	12.50	14.85	16.50	18.65
8	6.40	7.90	11.25	14.50	16.50	18.15	20.85
9	7.15	9.15	12.90	16.65	18.35	20.00	23.00
10	8.35	10.40	14.60	19.15	20.85	22.90	26.00
11	9.60	12.50	16.25	21.65	23.35	25.40	29.15
12	11.25	13.75	20.00	24.15	26.85	29.15	33.35
14	13.35	15.00	25.00	26.65	31.35	33.85	39.35
16	15.70	16.65	30.00	33.35	36.15	39.15	45.65

Special Tooth Solid Plate Grooving Saw

INSERTED TOOTH GROOVING SAWS

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

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

No extra teeth or holders furnished with the above saws.

One wrench furnished with each saw or set of saws.

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

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

Extra teeth to cut 1/4 in., 5/16 in. or 3/8 in..... 6 cents each
7/16 in. or 1/2 in.....12 " "
9/16 in. or 5/8 in.....14 " "
11/16 in. or 3/4 in.....16 " "
Holders, 60 cents each

Inserted Tooth Grooving Saw


Lock Corner Cutters
Two and Five Tooth

Grooving Saw

ATKINS LOCK CORNER CUTTERS

TWO AND FIVE TOOTH

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

ATKINS SILVER STEEL GROOVING SAWS

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

Diameter Inches	Thickness, Inches								
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
4	$ 3.60	$ 3.80	$ 6.20	$ 7.00	$ 8.00	$ 8.80	$ 9.60	$14.00	$14.60
5	4.20	4.40	7.20	8.00	9.20	10.20	11.20	16.80	17.80
6	5.20	5.40	8.20	9.20	10.40	11.60	12.80	19.60	21.00
7	6.00	6.40	9.20	10.40	11.60	13.00	14.40	22.80	23.60
8	6.80	7.40	10.20	11.60	13.20	14.80	16.40	26.00	27.00
9	7.40	8.40	11.40	13.00	14.80	16.60	18.40	29.20	31.00
10	8.20	9.40	12.60	14.40	16.40	18.40	20.40	33.40	35.00
11	10.60	11.80	14.00	16.80	18.80	21.00	22.40	36.60	39.00
12	11.60	12.80	15.40	19.20	21.40	23.60	24.80	39.80	43.00
14	13.80	15.40	17.80	22.20	26.00	28.20	29.80	45.00	49.80
16	15.40	18.40	21.20	26.00	30.60	33.40	35.60	53.00	59.00
Tooth Space	1/2 in.	1 in.	1 in.	1 1/4 in.	1 1/2 in	1 3/4 in.	2 in.	2 in.	2 in.

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

ATKINS WABBLE SAWS

SILVER STEEL

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

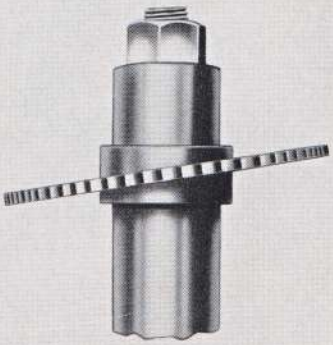
Prospective users are requested to send us samples of the work to be done so that we may determine whether or not the wabble saw is adapted for the purpose intended.

It can be made for use on shaper spindles to meet almost any requirement and does work better and often cheaper than by any other process. In many cases shaping with the band saw can be eliminated, thus saving one operation. In ordering wabble saws, it is important in the case of grooving, to give the width of groove. When rounded edges are to be made, specify the amount of wabble desired in inches or fractional parts of an inch. State also the diameter and thickness. Saws made in diameters of 5 to 10 inches. Usual thickness, ¼ inch. Collars are usually 2 to 3 inches in diameter.

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

Prices on application.

Wabble Saw



Wabble Saw with Collar

ATKINS SPECIAL HEADING CUTTERS

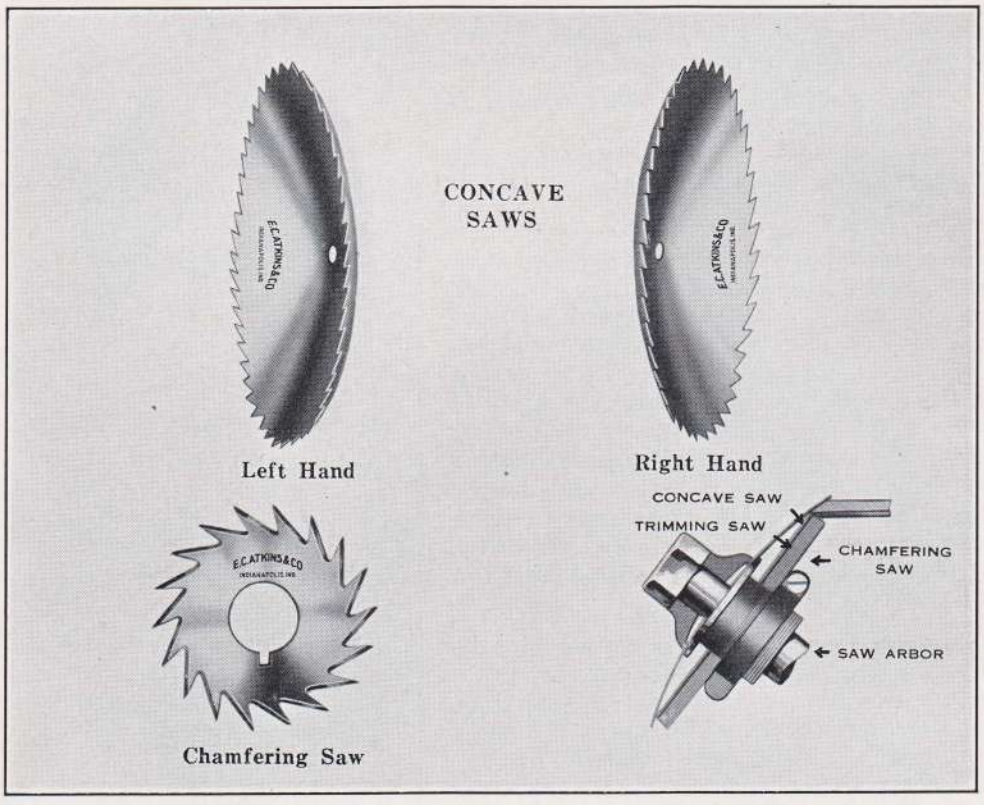
SOLID OR INSERTED TEETH

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.

Heading Cutter

CONCAVE, CHAMFERING AND TRIMMING SAWS



ATKINS CONCAVE SAWS

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

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

Any saw made to a circle 16 inches and under, advance list 20%.
Extra sizes made to order.
Above list covers concave saws only.
Prices on Trimmer and Chamfering Saws quoted on application.

ATKINS SPECIAL CIRCULAR KNIVES

Atkins Slitter Knives

Circular Knife

ATKINS CIRCULAR SLITTER KNIVES OR CUTTERS

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

ATKINS SILVER STEEL CIRCULAR KNIVES

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

In ordering please give these specifications:

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

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

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

PRICE LIST CIRCULAR KNIVES

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

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

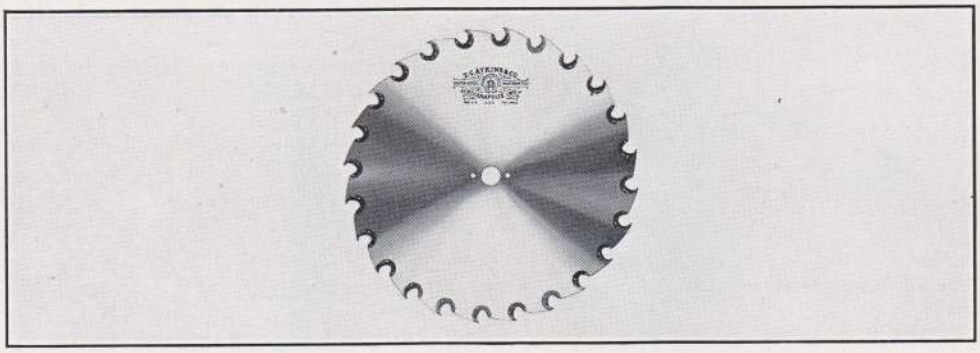
ATKINS EXCELSIOR SPURS

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

6 x $\frac{3}{8}$, 16 or 18 gauge	per pound	$1.15
Spurs, 19 gauge and thinner, add per gauge	per pound	.10
Dividers, 16 to 18 gauge	per pound	.80

ATKINS INSERTED TOOTH SAWS

SILVER STEEL



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

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

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

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

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

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

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

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

ATKINS INSERTED TOOTH SAWS

SILVER STEEL

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

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

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

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

INSERTED TOOTH SAWS

Diam. Inches	Thickness Gauge at Rim	Standard Number No. 2½ Teeth	Greatest Number Teeth That Can Be Put in Saw No. 2½	Standard Number Teeth Nos. 3 and 30	Greatest Number Teeth That Can Be Put in Saws Nos. 3 and 30	Size Hole Inches	Price Each No. 2½	Price Each Nos. 3, 30 and F	Extra for Each Additional Gauge Heavier	Price for Beveling New Saws per Gauge
10	12	10	10	..	..	1	$27.00	.....	$0.20	$0.45
12	11	12	12	..	..	1	32.00	.....	.30	.55
14	10	14	14	..	..	1 1/8	37.00	.....	.40	.65
16	10	16	16	12	12	1 1/8	43.00	$39.00	.50	.75
18	10	18	20	14	14	1¼	49.00	44.00	.60	.90
20	9	20	22	14	16	1 5/16	55.00	50.00	.75	1.05
22	9	22	24	16	18	1 5/16	61.00	56.00	.90	1.20
24	9	24	26	18	18	1⅜	68.00	62.00	1.05	1.35
26	9	26	28	18	20	1⅜	75.00	68.00	1.25	1.55
28	9	28	30	18	22	1½	82.00	74.00	1.50	1.75
30	9	30	32	20	24	1½	90.00	80.00	1.75	1.95
32	8	32	34	22	26	1⅝	100.00	88.00	2.00	2.15
34	8	36	36	22	28	1⅝	110.00	97.00	2.25	2.35
36	8	38	38	24	30	1⅝	120.00	106.00	2.60	2.55
38	8	40	42	24	32	1⅝	130.00	115.00	3.00	2.75
40	8	42	44	26	34	2	140.00	125.00	3.40	2.95
42	8	44	46	28	36	2	150.00	137.00	3.80	3.25
44	8	46	50	30	38	2	165.00	150.00	4.40	3.55
46	8	48	52	32	40	2	180.00	165.00	5.15	3.85
48	8	50	54	34	42	2	200.00	180.00	5.90	4.15
50	8	52	56	36	44	2	220.00	200.00	6.65	4.45
52	7	56	60	38	44	2	245.00	220.00	7.40	4.80
54	7	58	62	40	46	2	275.00	250.00	8.80	5.15
56	7	60	64	42	48	2	310.00	280.00	10.25	5.50
58	7	62	66	44	50	2	340.00	310.00	11.75	5.95
60	7	64	70	46	52	2	375.00	340.00	13.25	6.40
62	6	66	74	48	54	2	420.00	380.00	14.75	6.85
64	6	68	76	48	56	2	470.00	425.00	17.60	7.35
66	6	72	78	50	58	2	520.00	470.00	22.00	7.85
68	6	76	80	52	60	2	575.00	520.00	26.40	8.45
70	6	78	82	54	62	2	630.00	570.00	30.80	9.05
72	6	80	84	56	64	2	685.00	620.00	35.20	9.65

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

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

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

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

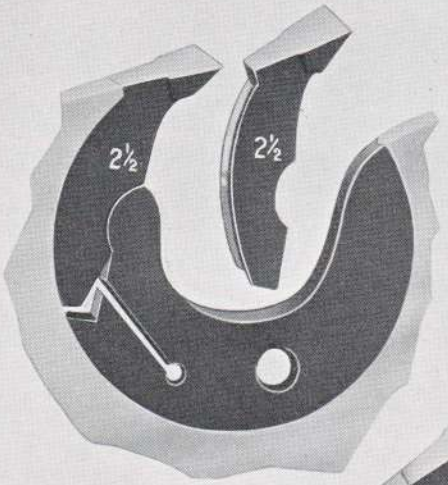
Saws 48 inches and under, and 62 inches and over, in diameter, more than two gauges thinner than list not warranted. Saws 50 inches to 60 inches in diameter thinner than 10 gauge not warranted.

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

Ask for lowest current prices on extra Teeth and Holders.

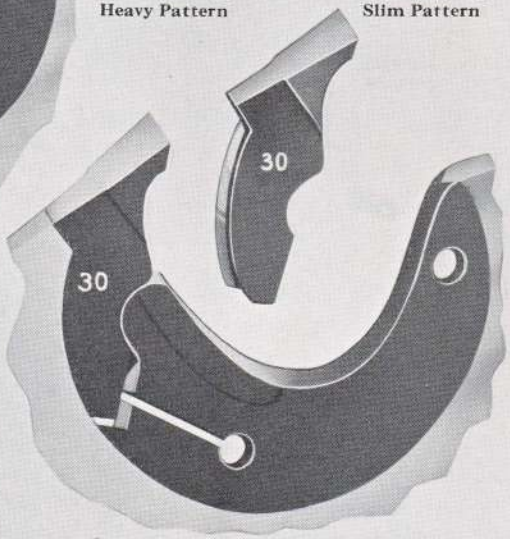
ATKINS INSERTED TOOTH SAWS

SILVER STEEL



Number 2½
Heavy Pattern

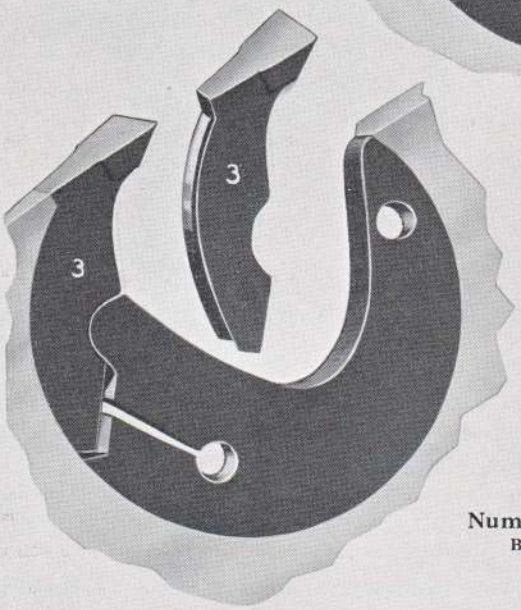
Number 2½
Slim Pattern



There are two styles of No. 2½ Inserted Teeth—heavy and light patterns.

In filling orders for these bits we use the heavy pattern for Rift Edgers, Board Edgers and Mill Saws which go into fast mills, and the light pattern for light board saws in small mills.

For Yellow Pine Edgers we use the bell shape point entirely.



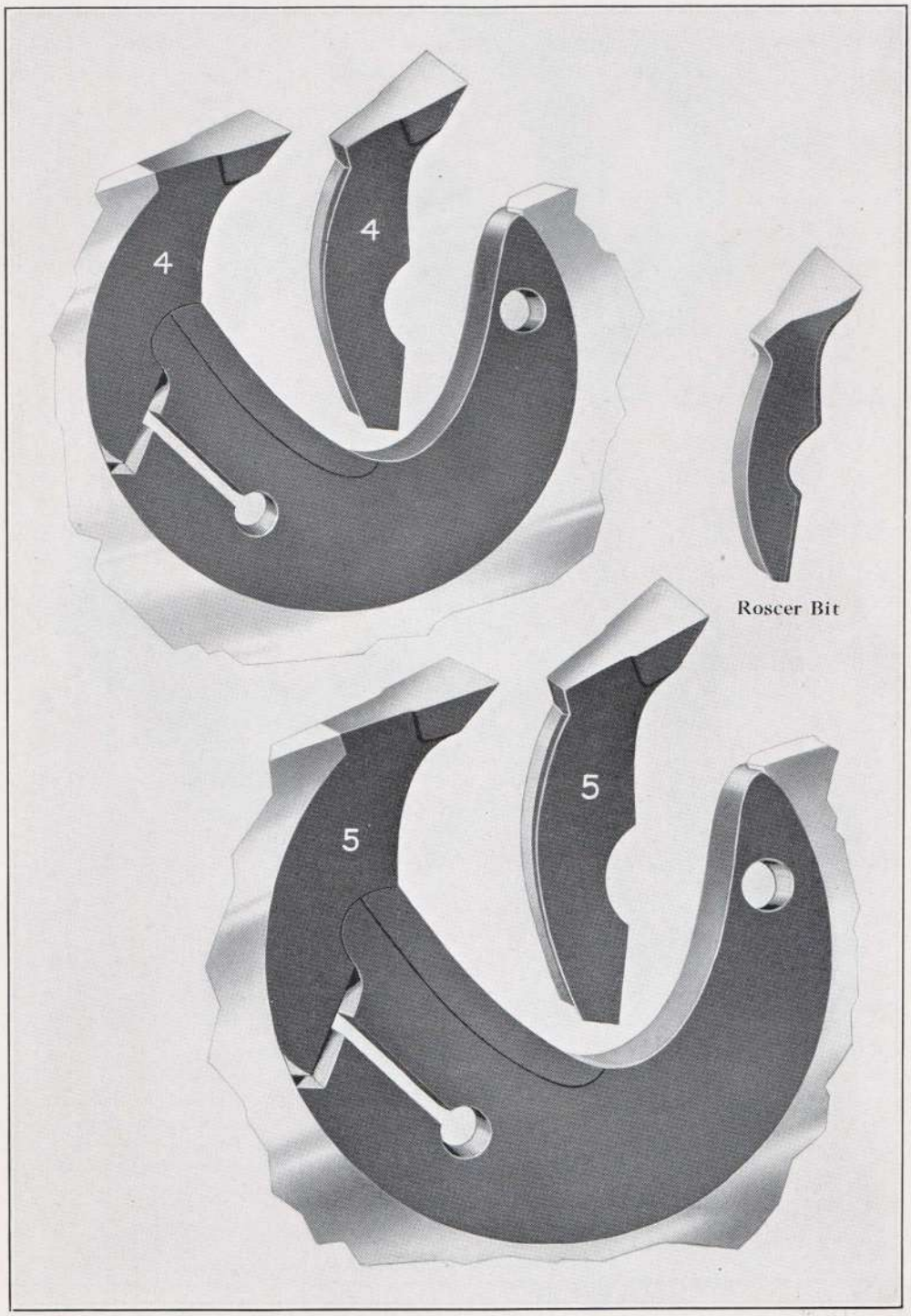
In ordering give number, gauge and width of cutting point.

Number 2½ or 3
Bell Shape

Number 2½ or 3
Regular Swage

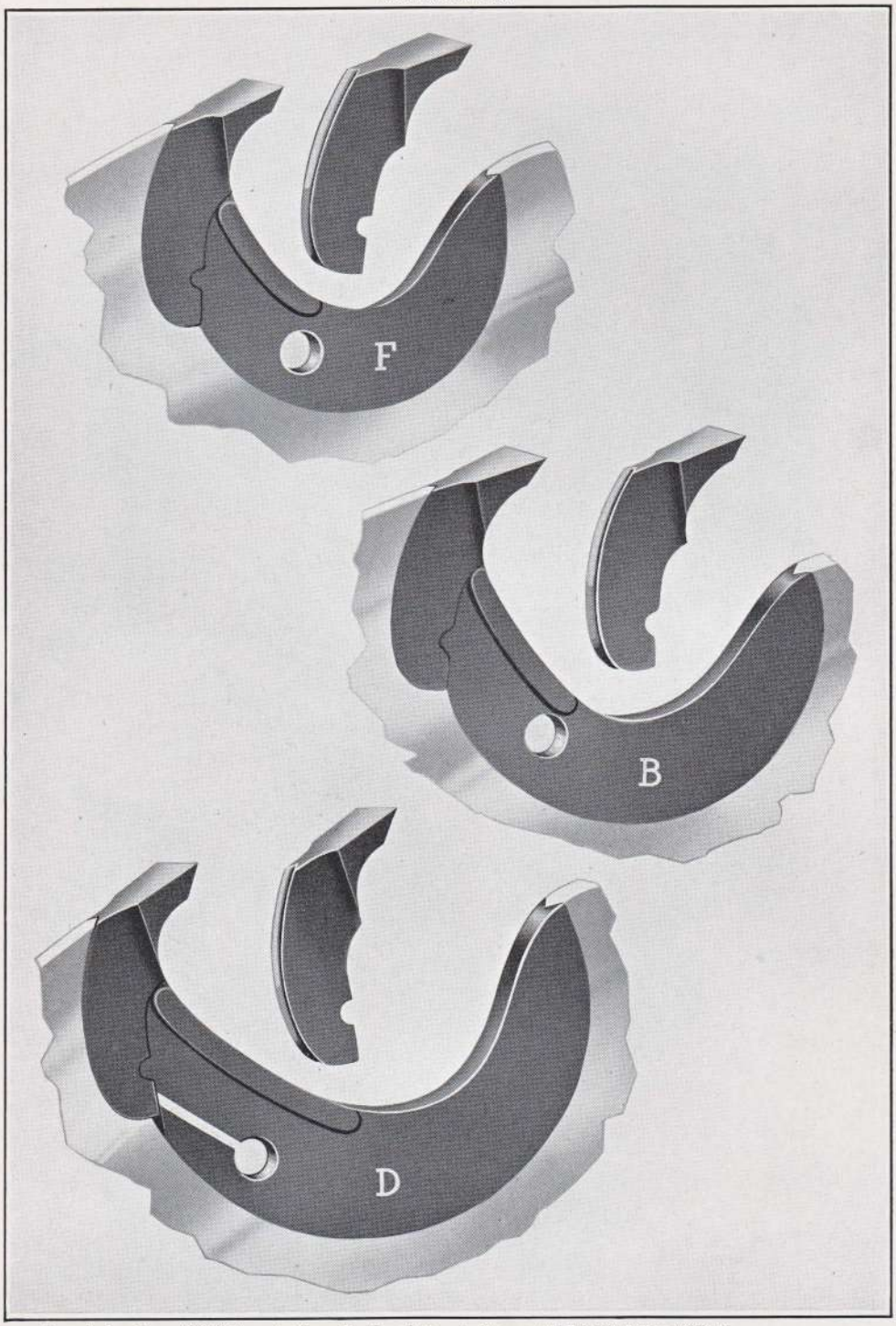
ATKINS INSERTED TOOTH SAWS

SILVER STEEL



ATKINS "S" PATTERN INSERTED TOOTH SAWS

SILVER STEEL



In ordering these "S" Pattern teeth and holders designate them as "S.F.," "S.B." or "S.D."
In addition to above patterns we furnish Pattern "S.K.," a smaller size corresponding to our No. 2½.

ATKINS INSERTED TOOTH SAWS

SILVER STEEL

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

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

No. 2½ is of medium size and suitable for saws for high feed mills where a large number of teeth are necessary, and for small saws in light gauges. See page 43.

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

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

Nos. 4 AND 5 SAWS

Diam. Inches	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 Nos. 4-5 B and D	Extra for Each Additional Gauge Heavier	Price for Beveling New Saws per Gauge
22	9	8	12	14	10	12	1 5/16	$56.00	$0.90	$1.20
24	9	8	14	16	12	14	1 3/8	62.00	1.05	1.35
26	9	8	14	16	12	14	1 3/8	68.00	1.25	1.55
28	9	8	16	18	14	14	1½	74.00	1.50	1.75
30	9	8	16	20	14	18	1½	80.00	1.75	1.95
32	9	8	18	22	16	20	1 5/8	88.00	2.00	2.15
34	8	8	20	24	18	20	1 5/8	97.00	2.25	2.35
36	8	8	20	26	18	22	1 5/8	106.00	2.60	2.55
38	8	8	22	28	20	22	1 5/8	115.00	3.00	2.75
40	8	7	24	30	20	24	2	125.00	3.40	2.95
42	8	7	26	32	22	26	2	137.00	3.80	3.25
44	8	7	26	34	24	26	2	150.00	4.40	3.55
46	8	7	28	36	26	28	2	165.00	5.15	3.85
48	8	7	30	36	26	28	2	180.00	5.90	4.15
50	8	7	32	38	28	30	2	200.00	6.65	4.45
52	7	6	34	40	30	32	2	220.00	7.40	4.80
54	7	6	36	42	32	34	2	250.00	8.80	5.15
56	7	6	36	42	32	34	2	280.00	10.25	5.50
58	7	6	38	44	34	36	2	310.00	11.75	5.95
60	7	6	40	46	34	36	2	340.00	13.25	6.40
62	6	6	42	48	36	38	2	380.00	14.75	6.85
64	6	5	42	50	36	38	2	425.00	17.60	7.35
66	6	5	44	52	38	40	2	470.00	22.00	7.85
68	6	5	44	54	38	40	2	520.00	26.40	8.45
70	6	5	46	54	42	44	2	570.00	30.80	9.05
72	6	5	48	56	42	44	2	620.00	35.20	9.65

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

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

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

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

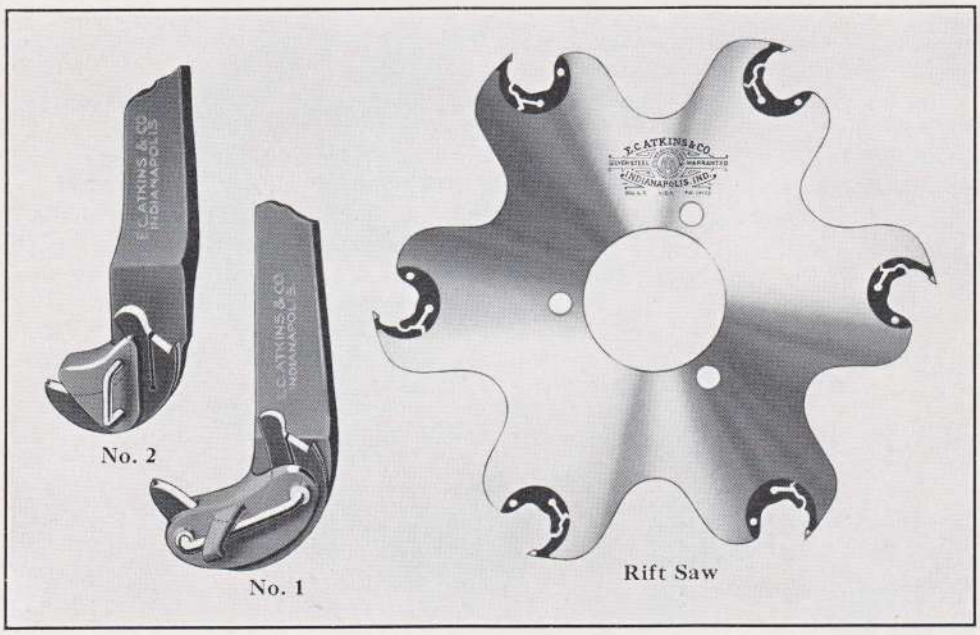
Ask for lowest current prices on extra Teeth and Holders.

ROSCER BITS (See page 45)

These bits or teeth are made for both 3 and 5 gauge saws. The point of 3 gauge tooth is ⅞ of an inch wide and of 5 gauge, ¾ of an inch wide. In ordering, specify whether 3 or 5 gauge is desired.

ATKINS INSERTED TOOTH SAWS

SILVER STEEL



ATKINS RIFT SAWS

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

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

In ordering, be particular to send template of holes.

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

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

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

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

ATKINS INSERTED TOOTH SAW WRENCHES

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

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

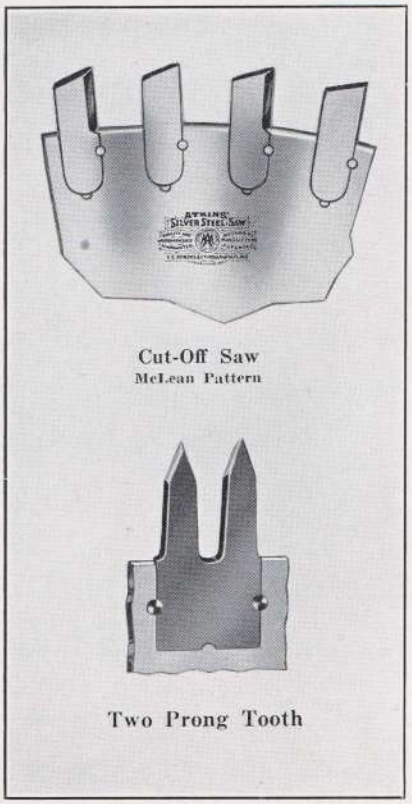
No. 1 Style for Nos. 3, 4, 5 and 30 Pattern Holders.....each $2.20
No. 2 Style for No. 2½ Pattern Holder.....each 2.20

In ordering wrenches, specify style or number of tooth.

ATKINS INSERTED TOOTH SAWS—SILVER STEEL

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

Diameter Inches	Gauge	Width of Tooth Inches	Size of Hole Inches	Price Each	Diameter Inches	Gauge	Width of Tooth Inches	Size of Hole Inches	Price Each
36	9	3/4	1 5/8	$110.00	68	6	3/4	2	$520.00
38	8	3/4	1 5/8	118.00	70	6	3/4	2	565.00
40	8	3/4	2	127.00	72	5	3/4	2	610.00
42	8	3/4	2	139.00	74	5	3/4	2	675.00
44	8	3/4	2	153.00	76	5	3/4	2	765.00
46	8	3/4	2	167.00	78	5	3/4	2	890.00
48	8	3/4	2	182.00	80	5	3/4	2	1030.00
50	7	3/4	2	204.00	82	5	3/4	2	1170.00
52	7	3/4	2	232.00	84	5	3/4	2	1310.00
54	7	3/4	2	262.00	86	5	3/4	2	1470.00
56	7	3/4	2	290.00	88	4	3/4	2	1650.00
58	7	3/4	2	320.00	90	4	3/4	2	1840.00
60	6	3/4	2	350.00	92	4	3/4	2	2040.00
62	6	3/4	2	390.00	94	4	3/4	2	2280.00
64	6	3/4	2	430.00	96	4	3/4	2	2550.00
66	6	3/4	2	475.00	..	.	..	..	.....



Cut-Off Saw
McLean Pattern

Two Prong Tooth

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

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

No extra charge for saws one gauge thicker than list. If more than one gauge thicker an extra charge will be made for each additional gauge the same as on solid tooth circular saws.

For changing solid tooth saws into Inserted Tooth Cut-off, charge is $1.65 per tooth plus one-half the list price of a solid tooth saw of same size. The price is based on the size the saw will finish after cutting down. This type of saw is not recommended in small diameters and thin gauges, and therefore is not practical for trimming or equalizing lumber or small timbers.

Ask for lowest current prices on extra teeth for above saws.

TWO-PRONG AND FOUR-PRONG TEETH

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

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

SAWS—COMPLETE

Diam. Inches	Thickness Gauge	Number of Tooth Sections Either Two or Four-Prong	Size of Hole Inches	Price Each	Diam. Inches	Thickness Gauge	Number of Tooth Sections Either Two or Four Prong	Size of Hole Inches	Price Each
36	8	24	1 5/8	$101.00	62	5	44	2	$360.00
38	8	24	1 5/8	109.00	64	5	44	2	403.00
40	8	26	2	118.00	66	5	48	2	440.00
42	8	28	2	129.00	68	5	48	2	476.00
44	7	30	2	140.00	70	5	52	2	520.00
46	7	30	2	152.00	72	5	52	2	572.00
48	7	32	2	165.00	74	5	54	2	630.00
50	7	34	2	185.00	76	4	54	2	704.00
52	6	36	2	217.00	78	4	56	2	836.00
54	6	38	2	242.00	80	4	56	2	968.00
56	6	40	2	264.00	82	4	58	2	1100.00
58	6	42	2	293.00	84	4	58	2	1232.00
60	5	42	2	323.00					

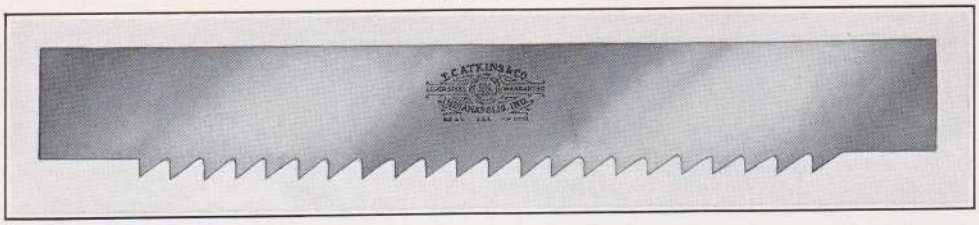
No extra teeth included in above prices. For extra gauge heavier, beveling and approximate weights see solid tooth list, page 30.

EXTRA TEETH

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

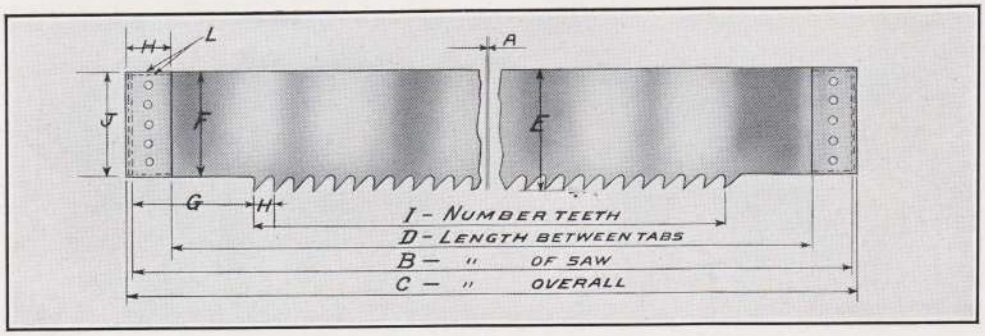
ATKINS GANG AND RIFT SAWS

SILVER STEEL



HOW TO ORDER GANG SAWS

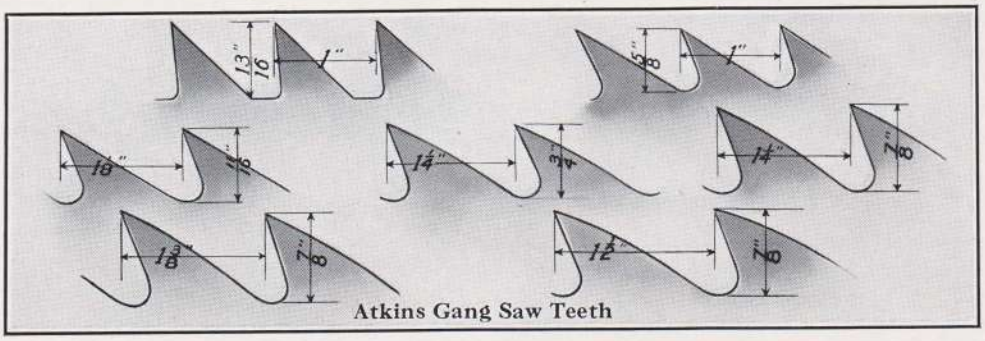
Specify as Follows



ATKINS SILVER STEEL GANG SAWS

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

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



Atkins Gang Saw Teeth

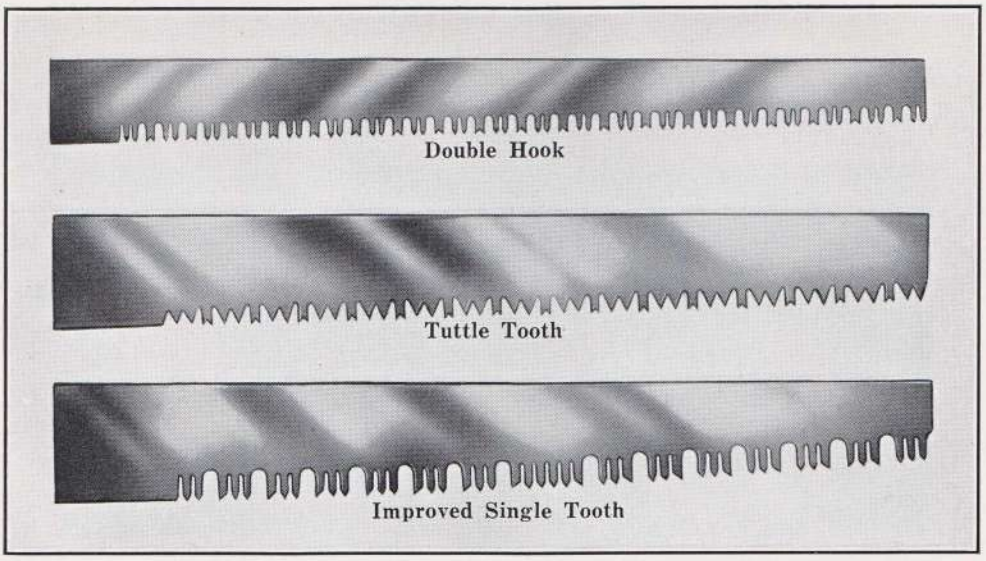
TABBING GANG SAWS

Tabbing Gang Saws, with solid bent tabs, or two plate tabs.

4-Hole	$1.00	6-Hole	$1.50
5-Hole	1.25	Round	1.25

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

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

All saws fitted, ready for use.

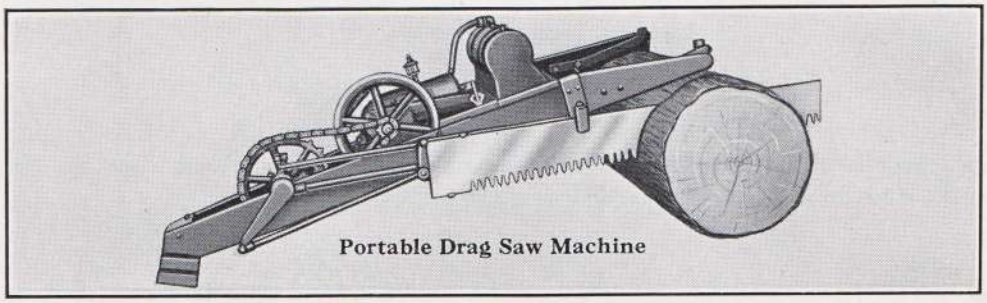
Tapered drag saws wider or thicker than the above will be figured by the Mill, Mulay and Drag saw list, using the average width as the basis.

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

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

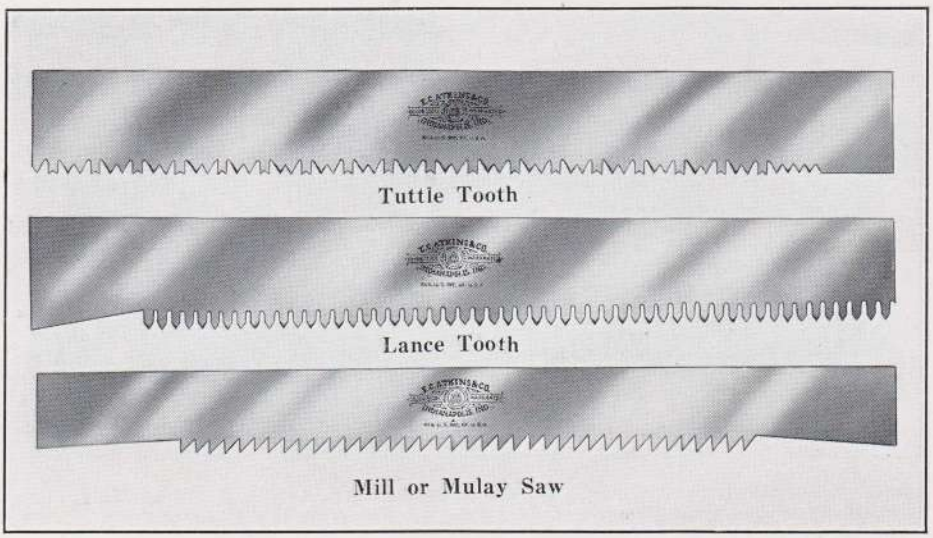
PORTABLE DRAG SAW MACHINES

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



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

SILVER STEEL



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

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

All saws fitted, ready for use.

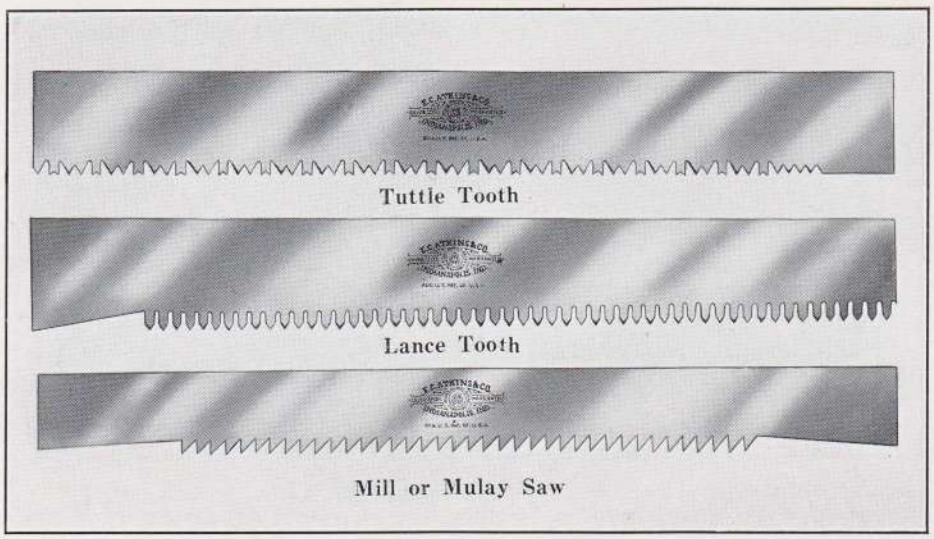
Above prices are for saws with Plain, Mill, Tuttle, or Lance tooth. Saws with special pattern teeth, special prices.

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

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

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

SILVER STEEL



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

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

All saws fitted, ready for use.

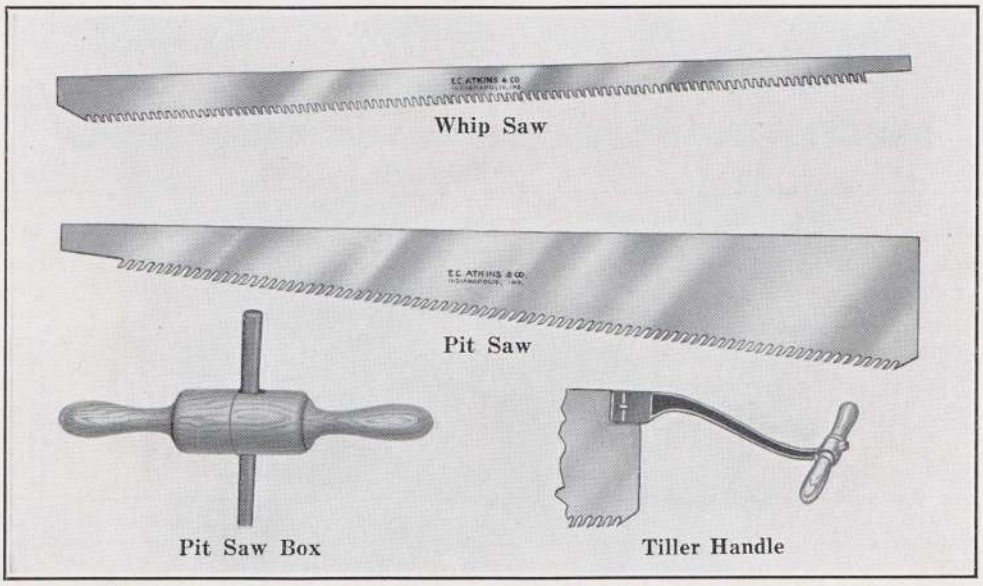
Above prices are for saws with Plain, Mill, Tuttle, or Lance tooth. Saws with special pattern teeth, special prices.

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

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

ATKINS WHIP AND PIT SAWS

SILVER STEEL



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

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

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

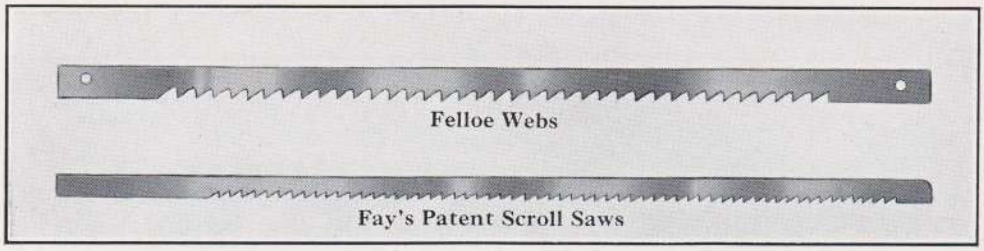
ATKINS PIT AND WHIP SAWS

PIT SAWS				WHIP SAWS			
Length Feet	Width at Point Inches	Width at Butt Inches	Price Each	Length Feet	Width at Point Inches	Width at Butt Inches	Price Each
5	3¼	10	$8.00	5	1½	4	$4.80
5½	3¼	10¼	8.80	5½	1¾	4¼	5.40
6	3½	10½	9.60	6	1⅞	4½	5.80
6½	3½	10¾	10.40	6½	2	4¾	6.40
7	3½	11	11.20	7	2	5	6.80
7½	3½	11¼	12.00	7½	2	5¼	7.20
8	3½	11½	12.80	...	...	...	.....

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

Saws set and filed, ready for use

ATKINS FELLOE WEBS AND SCROLL SAWS



ATKINS FELLOE WEBS

Length Inches	Gauge	Width Inches	Price per Dozen	Length Inches	Gauge	Width Inches	Price per Dozen
6	19	3/16 to 1/2	$2.60	22	17	1/4 to 3/4	$6.60
7	19	3/16 to 1/2	2.80	24	17	1/4 to 7/8	7.40
8	19	3/16 to 1/2	3.00	26	17	1/4 to 7/8	8.20
10	18	3/16 to 1/2	3.40	28	17	1/4 to 1	9.00
12	18	1/4 to 1/2	3.80	30	16	1/4 to 1	9.80
14	17	1/4 to 1/2	4.20	32	16	1/4 to 1	10.80
16	17	1/4 to 5/8	4.80	34	16	1/4 to 1	11.80
18	17	1/4 to 5/8	5.40	36	16	1/4 to 1	12.80
20	17	1/4 to 3/4	6.00	..	..	.....	.....

This list is for saws ground three gauges thin on back. One gauge heavier than above list, no extra charge. Five per cent extra for each additional gauge to 14 gauge; over 14 gauge special prices. Extra width, 10% for each 1/8 inch. Web saws 1/8 inch and narrower will be made with wide ends in order to give strength at hole; price 25% advance. If above furnished with pins, advance list 85c per dozen.

FAY'S PATENT SCROLL SAWS

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

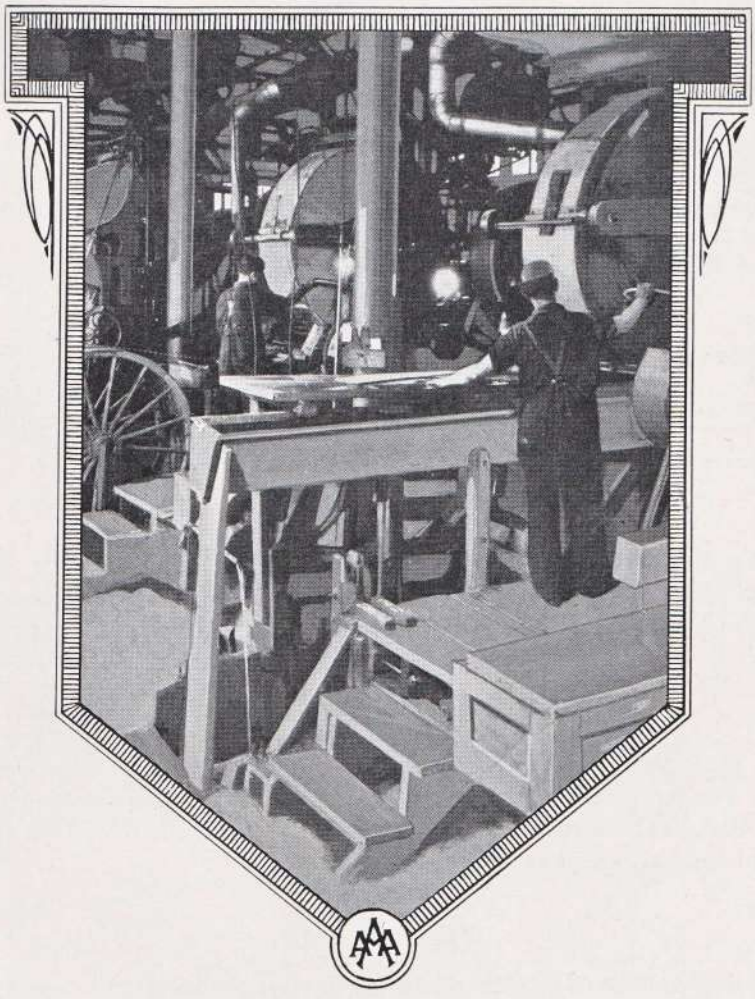
Webs to 16 inches, over 3/4 inch wide, extra price; 18 to 24 inches over 1 inch wide, extra price. We make the above webs from 13 to 16 gauge in thickness. With pins, 85c per dozen additional, list.

CABINET PATTERN WEBS

Length Inches	Thickness Gauge	Price, per Dozen—Width, Inches			
		3/8 to 3/4	7/8 to 1 1/8	1 1/4 to 1 1/2	1 5/8 to 2
18	23	$4.20	$4.80	$5.20	$5.80
20	23	4.40	5.00	5.40	6.00
22	23	4.60	5.20	5.60	6.40
24	23	4.80	5.40	5.80	6.80
26	23	5.10	5.80	6.20	7.20
28	23	5.40	6.20	6.60	7.60
30	23	5.80	6.60	7.20	8.20
32	22	6.20	7.00	7.80	8.80
34	22	6.60	7.40	8.40	9.40
36	22	7.00	7.80	9.00	10.00

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

ATKINS BAND SAWS



ATKINS BAND SAWS

SILVER STEEL

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

ANALYSIS

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

EQUIPMENT FOR TEMPERING

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

HEAT TREATMENT

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

GRINDING

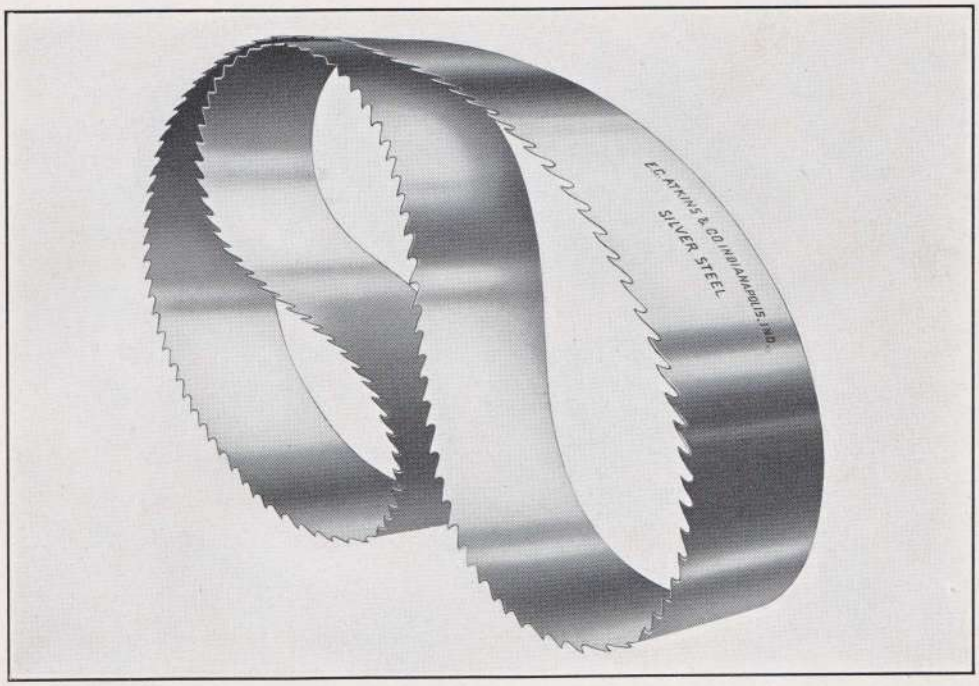
Special machinery is used in grinding, whereby we are able to secure uniform gauge over the entire width of the blade. In this process we employ ponderous machinery that has been invented by ourselves, the use of which adds to the perfect operation of the finished blade.

TENSIONING

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

ATKINS WIDE BAND SAWS

SILVER STEEL



Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot	Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot	Width Inches	Usual Gauge	Approx. Weight per Ft.	Price per Foot
2	18 to 20	.28	$1.00	5½	17 to 19	.89	$2.70	12	13 to 15	3.37	$6.00
2½	18 to 20	.35	1.20	6	17 to 19	1.06	3.00	13	13 to 15	3.65	7.20
3	18 to 20	.42	1.40	7	16 to 18	1.37	3.40	14	13 to 15	4.50	8.40
3½	18 to 20	.50	1.60	8	14 to 18	1.76	3.80	15	12 to 14	4.82	10.20
4	18 to 20	.57	2.00	9	14 to 18	2.20	4.30	16	12 to 14	5.92	12.00
4½	18 to 20	.64	2.20	10	14 to 16	2.81	4.80	17	12 to 14	6.29	16.80
5	17 to 19	.83	2.40	11	14 to 16	3.09	5.40	18	12 to 14	6.66	21.60

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

For saws of heavier gauge than listed, add 5% to list for each gauge heavier.

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

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

Toothed blanks—same price as finished saws.

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

REVISED TABLE OF STRAINS

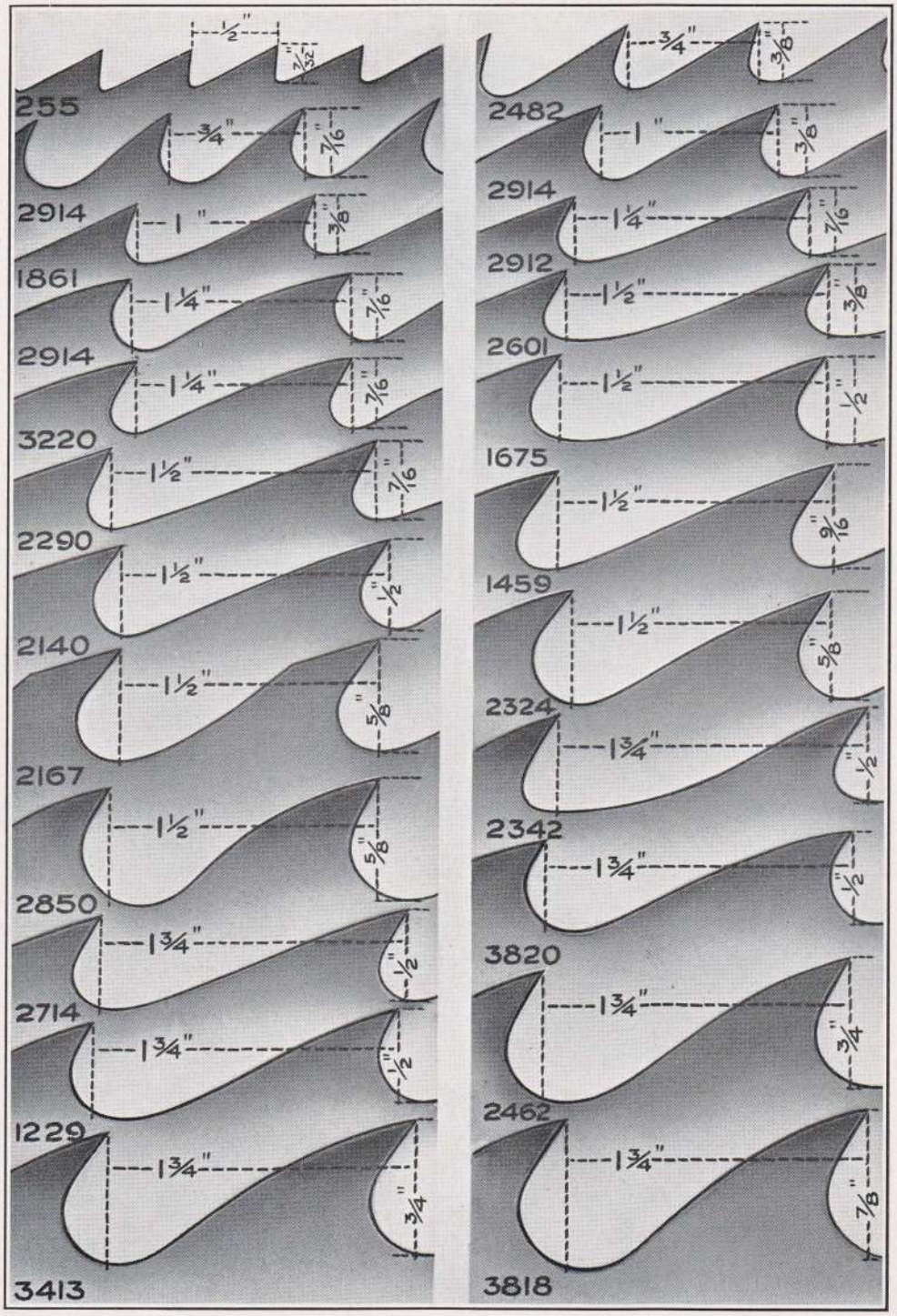
SUITED TO DIFFERENT WIDTHS OF BAND SAW BLADES

Width Inches	Thickness		Pounds Strain	Width Inches	Thickness		Pounds Strain
	Gauge	Inches			Gauge	Inches	
2	20	.035	700	10	15	.072	7200
2½	20	.035	900	11	15	.072	8000
3	20	.035	1150	12	14	.083	10000
4	20	.035	1400	13	14	.083	10800
5	19	.042	2100	14	14	.083	11500
6	18	.049	2750	15	13	.095	13500
7	17	.058	4050	16	13	.095	15000
8	17	.058	4650	17	12	.109	18000
9	16	.065	5850	18	12	.109	19000

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

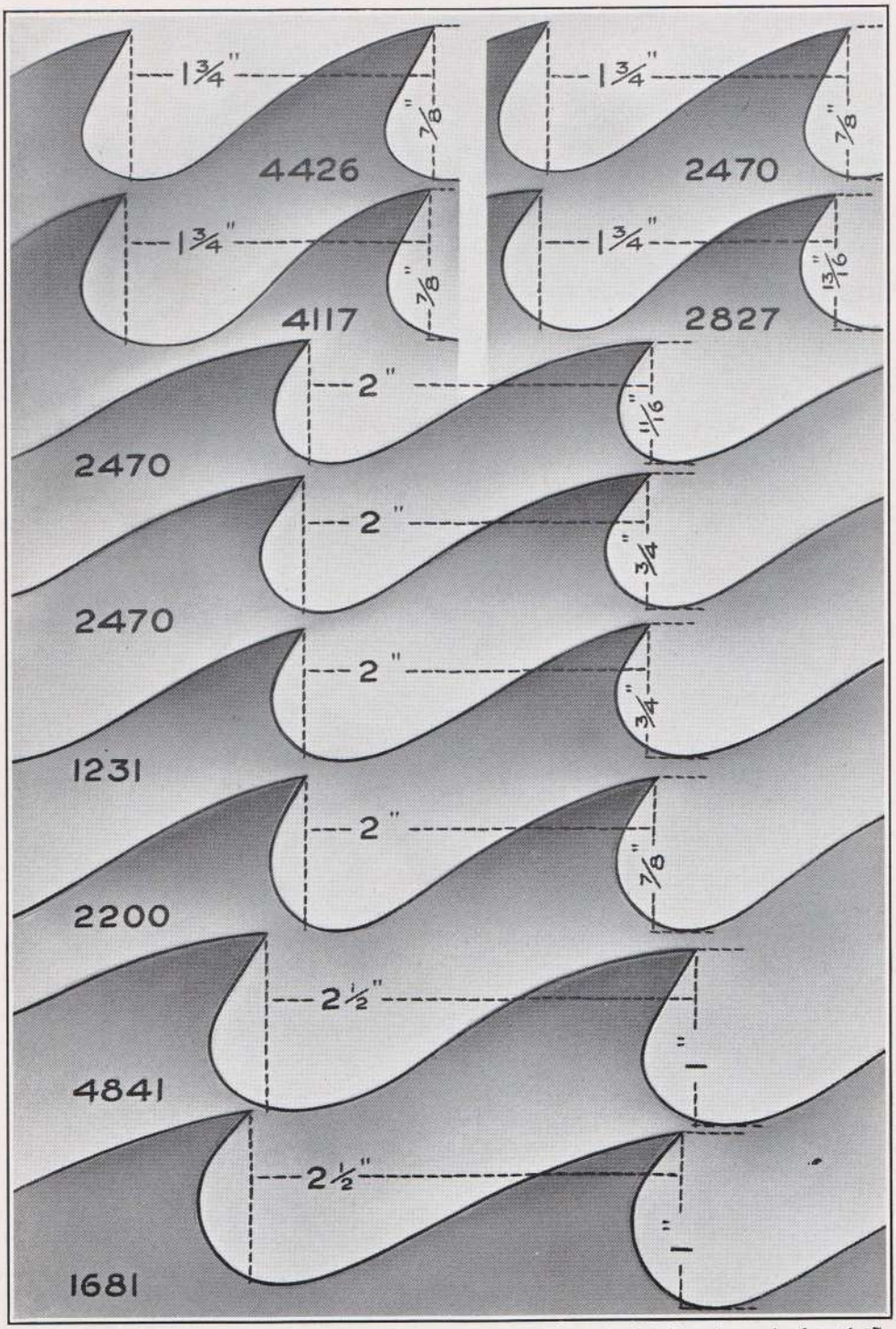
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH

STANDARD



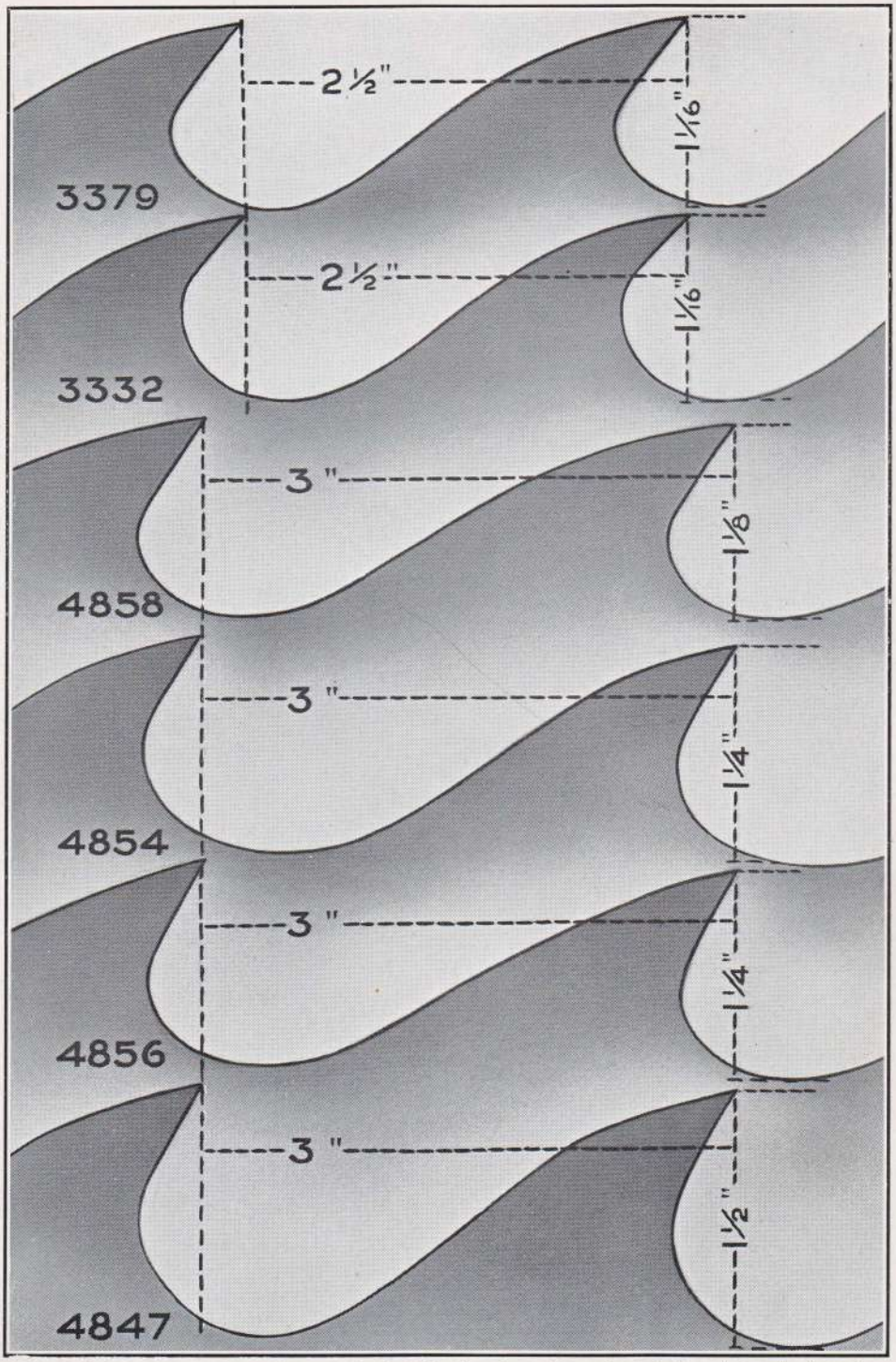
If any of the patterns shown above are desired, kindly refer to "number" designating style of tooth.

ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



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

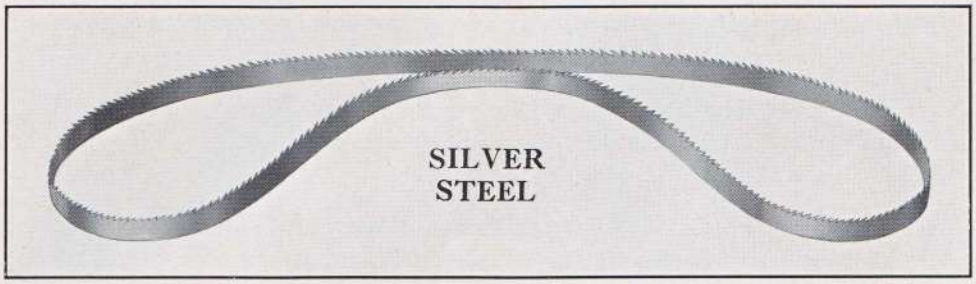
ATKINS SILVER STEEL BAND SAWS—PATTERNS OF TEETH



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

ATKINS BAND SAWS

NARROW



FOR RE-SAWING AND SCROLL SAWING

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

Width Inches	Standard Gauge	Standard Points per Inch	Approx. Weight (lbs.) per 100 Feet	Price per Foot	Width Inches	Standard Gauge	Standard Points per Inch	Approx. Weight (lbs.) per 100 Feet	Price per Foot
1/8	23	8	*1.05*	$0.13	7/8	21	4	*9.39*	$0.20
3/16	23	7	*1.57*	.13	1	20	3½	*11.75*	.22
1/4	22	6	*2.35*	.13	1⅛	20	3½	*13.16*	.24
3/8	22	5½	*3.52*	.14	1¼	20	3½	*14.71*	.26
1/2	21	5	*5.36*	.15	1⅜	20	3	*16.08*	.28
5/8	21	4½	*6.70*	.16	1½	20	3	*17.63*	.32
3/4	21	4	*8.05*	.18	1¾	20	3	*20.57*	.38

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

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

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

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

POINTS OR TEETH

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

BRAZING

Width of Saw	Per Braze	Width of Saw	Per Braze
1/4 to 1/2 inch	each $0.50	1 to 1¼ inch	each $0.70
5/8 to 7/8 inch	each .60	1⅜ to 1¾ inch	each .80

SPECIAL BAND SAWS

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

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

For Metal Bands, see pages 139, 140.

REPAIRING

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

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

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

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

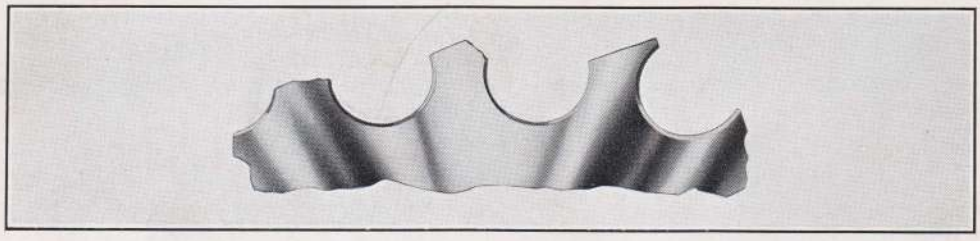
In forwarding saws for repair, you will facilitate matters by adhering closely to the following instructions:

(1) Mark *our* name and address plainly on the package.

(2) See that *your* name, postoffice address and shipping address, if different, is plainly marked on the outside of the package for identification.

(3) Advise us by mail of shipment, giving full instructions as to the work which you wish to have done.

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



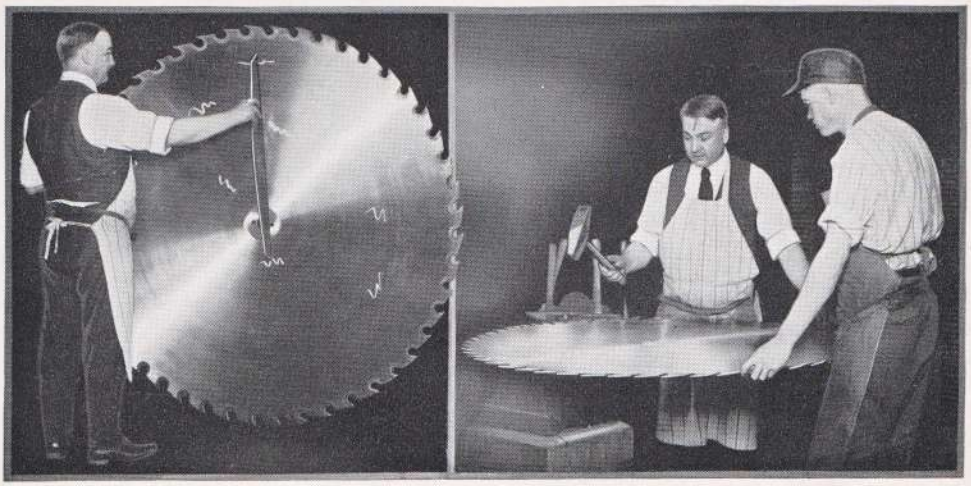
Don't throw it away. Don't cut it down. Send it on to us; we'll fix it "good as new;" won't cost much, either.

Breakage in repairing is at owner's risk.

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

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

PRICE LIST FOR REPAIRING SOLID TOOTH CIRCULAR SAWS



Diameter Inches	Hammering Only	Gumming and Hammering	Cutting Down Re-toothing and Hammering	Grinding First Gauge	Grinding Additional Gauges per Gauge	Setting and Sharpening	
						Cut-off Saws	Rip Saws
6	$0.45	$0.55	$0.75	$0.65	$0.35	$0.45	$0.35
8	.55	.75	1.00	.85	.55	.55	.40
10	.75	1.00	1.30	1.05	.75	.65	.50
12	.90	1.35	1.60	1.15	.85	.75	.60
14	1.05	1.60	1.90	1.35	1.00	.85	.70
16	1.20	1.80	2.20	1.60	1.15	.95	.80
18	1.45	2.10	2.55	1.95	1.30	1.05	.90
20	1.65	2.50	2.95	2.20	1.45	1.15	1.00
22	1.90	2.85	3.30	2.40	1.60	1.30	1 10
24	2.10	3.25	3.70	2.70	1.75	1.45	1.20
26	2.40	3.70	4.20	3.00	1.90	1.60	1.30
28	2.70	4.15	4.75	3.40	2.05	1.75	1.40
30	3.00	4.60	5.35	3.75	2.20	1.95	1.50
32	3.30	5.05	6.00	4.15	2.35	2.15	1.60
34	3.70	5.55	6.90	4.50	2.55	2.35	1.75
36	4.30	6.15	7.80	4.90	2.80	2.55	1.90
38	4.80	7.00	9.00	5.25	3.00	2.75	2.05
40	5.55	8.05	10.20	5.65	3.30	2.95	2.20
42	6.30	9.15	11.55	6.00	3.60	3.15	2.35
44	7.05	10.35	13.05	6.45	4.05	3.35	2.50
46	7.95	11.80	14.70	7.00	4.50	3.60	2.65
48	8.85	13.20	16.50	7.60	4.95	3.80	2.85
50	9.75	14.65	18.40	8.25	5.40	4.10	3.05
52	10.65	16.05	20.25	9.00	5.95	4.40	3.25
54	11.55	17.55	22.15	9.90	6.30	4.70	3.50
56	12.45	19.05	24.00	10.90	6.75	5.00	3.75
58	13.50	20.70	25.90	12.00	7.20	5.30	4.00
60	14.70	22.50	27.75	13.20	7.75	5.60	4.25
62	15.90	24.30	30.40	14.40	8.25	6.00	4.50
64	17.10	26.10	33.00	15.60	8.85	6.30	4.75
66	18.30	27.90	35.65	16.80	9.45	6.60	5.00
68	19.50	29.70	38.25	18.00	10.15	6.90	5.25
70	20.50	31.50	40.90	19.50	11.05	7.20	5.50
72	21.90	33.30	43.50	21.00	12.00	7.50	5.75
74	23.10	35.10	46.15	22.50	13.15	7.80	6.00

Saws smaller than 6 inch, take 6 inch price. Saws of odd diameters take price of next larger size.

Converting solid tooth saws into inserted tooth saws, use half the list price of the same sized finished solid tooth saw, plus $2.00 per tooth.

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

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

LIST FOR CIRCULAR SAWS

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

REPAIRING BURNED SAWS

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

REPAIRING SEGMENT VENEER SAWS

Per Foot in Diameter		Per Foot in Diameter
Grinding first and second gauge $1.25	Hammering	$3.25
Grinding each additional gauge ..... .25	Retoothing and hammering	4.25

REPAIRING LONG SAWS

MILL MULAY AND EQUAL WIDTH DRAG SAWS

Length ..... feet	To 5	Over 5
Re-toothing and hammering ..... each	$2.25	$3.00
Hammering only ..... each	1.50	2.25

TAPER DRAG SAWS

Re-toothing, hammering and filing	each	$3.00
Hammering only	each	1.50
Setting and sharpening only	each	1.50
Re-toothing and hammering only	each	2.25

CROSSCUT SAWS

Hammering	each	$1.05
Gumming and hammering	each	1.50
Gumming, hammering, filing and setting	each	2.25
Re-toothing, hammering, filing and setting	each	3.00
Setting and sharpening only	each	1.05
Skimming and polishing	each	.75

BAND SAW BLADES

Brazing wide blade for log mill	per inch in width	$0.75
Hammering	per inch in width	.07½
Gumming and toothing	per running foot	.12
Filing and swaging	per running foot	.12

NARROW BAND SAWS

Filing and setting	per foot	$0.08
Brazing ¼ inch to ½ inch	per braze	$0.90
Brazing ⅝ inch to ⅞ inch	per braze	1.13
Brazing 1 inch to 1¼ inch	per braze	1.35
Brazing 1⅜ inch to 1½ inch	per braze	1.80
Brazing 1¾ inch	per braze	2.05

TURNING OR CHAIR WEBS

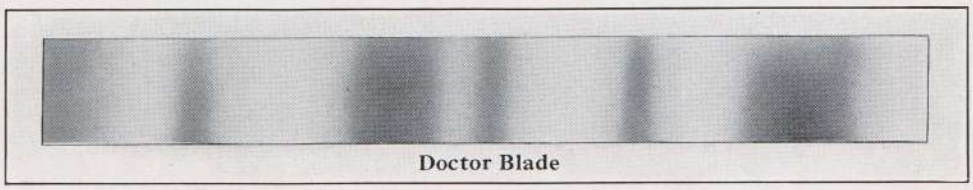
Length Inches	Gauge	Price per Dozen	Width Inches	Number of Points to the Inch							
				3/16	1/4	3/8	1/2	5/8	3/4	7/8	1
6	23	$2.40	3/16 to 1/4	10	9	7½	7	.....	.....	.....	.....
7	22	2.50	3/16 to 1/4	10	9	7½	7	.....	.....	.....	.....
8	22	2.60	3/16 to 1/4	10	9	7½	7	.....	.....	.....	.....
10	22	2.80	3/16 to 1/4	10	9	7½	7	.....	.....	.....	.....
12	21	3.00	3/16 to 5/16	10	9	7½	7	.....	.....	.....	.....
14	21	3.20	3/16 to 5/16	10	8	7½	7	.....	.....	.....	.....
16	20	3.60	1/4 to 3/8	10	8	7½	7	.....	.....	.....	.....
18	20	4.00	1/4 to 1/2	10	8	7½	7	.....	.....	.....	.....
20	20	4.50	1/4 to 5/8	10	8	7½	7	6½	.....	.....	.....
22	20	5.00	1/4 to 5/8	.....	8	7½	7	6½	6	5½	.....
24	19	5.60	1/4 to 3/4	.....	8	7½	7	6½	6	5½	.....
26	19	6.20	1/4 to 3/4	.....	8	7½	7	6½	6	5½	.....
28	19	6.90	1/4 to 7/8	.....	8	7½	7	6½	6	5½	5
30	19	7.60	1/4 to 1	.....	8	7½	7	6½	6	5½	5
32	18	8.40	1/4 to 1	.....	8	7½	7	6½	6	5½	5
34	18	9.20	1/4 to 1	.....	8	7½	7	6½	6	5½	5
36	18	10.00	1/4 to 1	.....	8	7½	7	6½	6	5½	5

One gauge heavier than above list, no extra charge.

When blades are furnished two gauges or more heavier than list, Felloe Web prices (page 54) will be charged.

Extra width, 10% additional for each 1/8 inch.

DOCTOR BLADES



Doctor Blade

	per dozen
33 inches x 2½ inches x 19 to 24 gauge	$10.10
36 inches x 2½ inches x 19 to 24 gauge	11.25
42 inches x 2½ inches x 19 to 24 gauge	12.75
44 inches x 2½ inches x 19 to 24 gauge	13.50
46 inches x 2½ inches x 19 to 24 gauge	14.25
48 inches x 2½ inches x 19 to 24 gauge	15.00

For additional inch in length, 5% extra.

33 inches x 3 inches x 19 to 24 gauge	$11.65
36 inches x 3 inches x 19 to 24 gauge	12.75
42 inches x 3 inches x 19 to 24 gauge	15.00
44 inches x 3 inches x 19 to 24 gauge	15.75
46 inches x 3 inches x 19 to 24 gauge	16.50
48 inches x 3 inches x 19 to 24 gauge	17.65

For additional inch in length, 5% extra.

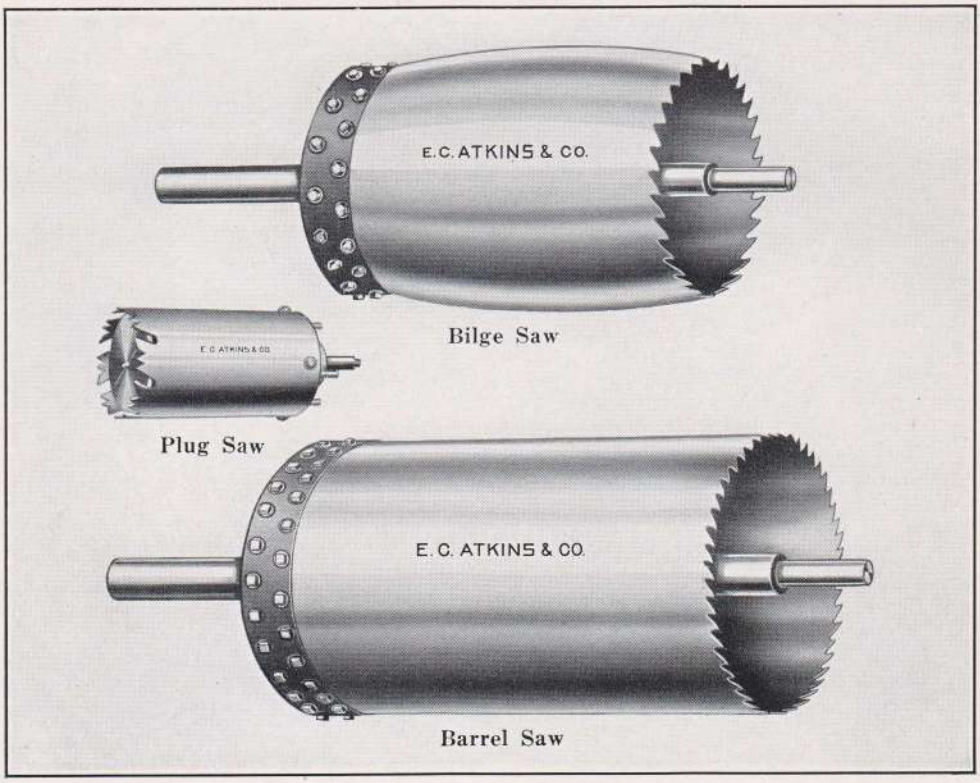
33 inches x 3½ inches x 19 to 24 gauge	$13.10
36 inches x 3½ inches x 19 to 24 gauge	14.25
42 inches x 3½ inches x 19 to 24 gauge	16.50
44 inches x 3½ inches x 19 to 24 gauge	17.65
46 inches x 3½ inches x 19 to 24 gauge	18.75
48 inches x 3½ inches x 19 to 24 gauge	20.25

For each additional inch in length, 5% extra.

For each gauge heavier, 5% extra.

ATKINS BILGE AND BARREL STAVE SAWS

SILVER STEEL



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

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

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

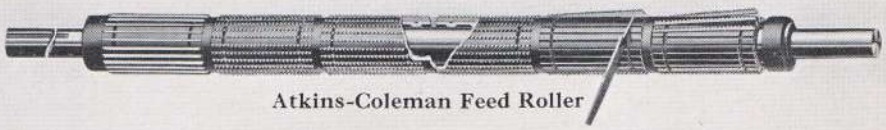
In ordering Plug, Barrel or Bilge Saws, give the name of the machine in use, the length between journals, the size of journal, the diameter, gauge of steel, and state if special tooth is desired.

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

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

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

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

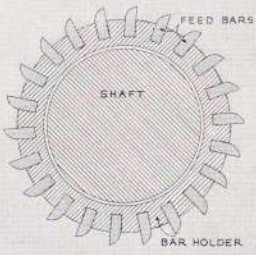


Atkins-Coleman Feed Roller

Saw Tooth Bar

Plain Bevel Bar

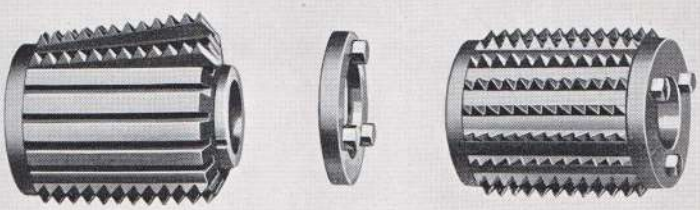
Compare these two Sections. Which Roller will feed lumber best?



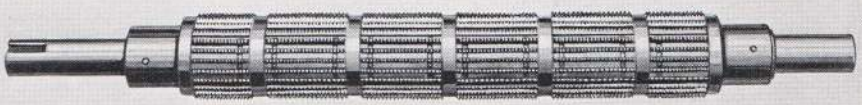
Section of Ordinary Fluted Roller

Section of Atkins-Coleman Feed Roller

Bolter Roller



Enlarged Sections of Lath Mill Roller



Atkins-Coleman Gang Roller

ATKINS-COLEMAN LATH-MILL ROLLERS

Lgth. of Body Inches	DIAMETER OF BODY—INCHES														
	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	4¾	5	5¼	5½	5¾	6
2	18.80	24.45	30.05	30.55	30.95	31.45	31.85	33.75	35.60	37.60	39.55	40.65	41.75	43.05	44.15
4	19.25	24.80	30.45	31.45	32.40	33.35	34.35	36.15	38.65	40.50	42.55	43.85	45.25	46.45	47.75
5	19.60	25.25	30.80	32.35	33.75	35.25	36.80	38.55	41.60	43.35	45.25	46.95	48.40	49.95	52.85
6	20.00	25.60	31.15	33.15	35.20	37.20	39.25	41.05	44.65	46.40	48.75	50.25	51.65	53.25	54.80
8	20.35	25.95	31.55	34.05	36.65	39.15	41.65	43.35	47.60	49.25	51.85	53.45	54.85	56.75	58.35
10	20.65	26.35	31.75	34.85	38.00	41.15	44.15	45.75	50.55	52.35	54.85	56.65	58.15	60.15	61.85
12	21.15	26.65	32.35	35.75	39.45	43.05	46.65	48.25	53.60	55.20	58.05	59.85	61.55	63.60	65.45
14	21.45	27.05	32.45	36.65	40.75	44.85	49.15	50.55	56.55	58.05	61.15	63.05	64.80	67.05	70.55
16	21.85	27.25	32.85	37.55	42.15	46.80	51.45	52.95	59.60	61.25	64.25	66.25	68.00	70.45	72.45
18	22.15	27.85	33.20	38.40	43.55	48.75	53.95	55.45	62.45	64.00	67.25	69.45	71.55	73.95	76.00
20	22.55	28.15	33.55	39.25	44.95	50.75	56.45	57.85	65.55	66.85	70.40	72.65	74.55	77.40	79.55
22	23.05	28.55	33.95	40.35	46.25	54.35	58.95	62.65	66.25	69.95	73.65	76.00	78.40	80.80	83.15

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

SHAFT EXTENSIONS

(Total Both Ends)

Diameter, Inches	Price, per Inch
1 7/16	$0.07
1 11/16	.08
1 15/16	.09
2 3/16	.12
2 7/16	.16
2 11/16	.19
2 15/16	.21
3 3/16	.28
3 7/16	.29

Sizes not listed take same price as next size larger.

Diameter body measurement over teeth.

TO ESTIMATE SHIPPING WEIGHT

Diam. Body Inches	Weight per Ft., Lbs.	Diam. Shaft Ext. Inches	Weight per Ft., Lbs.
2½	16	1 7/16	9½
2¾	19	1 11/16	12
3	22	1 15/16	16
3¼	26	2 3/16	19
3½	30	2 7/16	23
3¾	35½	2 11/16	26½
4	40	2 15/16	30½
4¼	45	3 3/16	34½
4½	51	3 7/16	39½
4¾	56½	.....	.....
5	63½	.....	.....
5¼	70	.....	.....
5½	76½	.....	.....
5¾	84½	.....	.....
6	91½	.....	.....

ATKINS-COLEMAN FEED ROLLERS

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

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

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

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

ATKINS-COLEMAN EDGER ROLLERS

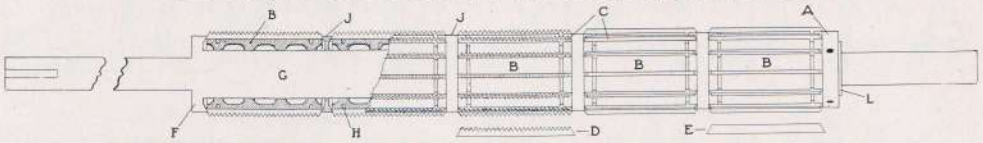


Diagram of Atkins-Coleman Edger Roller, Showing Construction and Names of Parts

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

Add price shaft extensions to price of body.

Length of Body, Inches	DIAMETER OF BODY—INCHES														
	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	4¾	5	5¼	5½	5¾	6
24	26.95	34.85	38.75	52.00	55.55	59.55	63.60	67.80	71.95	75.45	78.75	81.35	84.25	85.15	88.40
26	31.60	39.65	44.00	57.55	61.25	65.15	69.45	73.35	77.45	81.15	84.40	87.15	89.95	92.45	94.25
28	36.05	44.65	49.25	63.05	66.85	70.55	75.15	76.55	83.20	86.95	89.85	94.45	95.85	98.25	100.05
30	40.80	49.45	54.55	68.65	72.55	76.05	80.75	84.45	88.65	92.45	95.45	98.45	101.55	103.85	105.75
32	45.45	54.35	59.85	74.05	78.35	81.75	86.40	89.95	94.25	98.25	100.95	104.15	107.45	109.55	111.65
34	50.05	59.25	65.15	79.75	83.95	87.20	92.25	95.35	99.85	103.85	106.45	110.95	113.25	115.25	117.45
36	54.65	64.15	70.40	85.75	89.75	93.65	97.75	101.75	105.65	109.65	112.75	115.60	118.85	120.85	123.55
38	59.25	69.05	75.65	89.25	93.05	98.25	102.95	107.05	111.05	114.75	116.80	122.40	124.05	126.00	128.55
40	63.45	72.80	80.95	92.85	96.35	102.75	107.05	112.35	116.45	119.65	122.75	125.60	129.25	131.20	133.55
42	.....	.....	84.85	96.35	99.60	107.15	111.65	117.20	120.25	124.75	127.75	130.65	134.40	136.40	138.55
44	.....	.....	87.95	99.85	102.95	111.65	116.25	122.35	127.35	129.75	132.80	135.65	139.45	141.45	143.60
46	.....	.....	90.95	103.25	106.25	116.15	120.85	127.55	132.80	134.70	138.00	140.75	144.65	146.65	148.65
48	.....	.....	94.25	107.45	110.00	120.65	125.60	132.80	138.05	139.65	142.95	146.00	149.65	151.65	152.25
50	.....	.....	.....	.....	112.35	122.35	126.75	134.00	139.05	141.35	144.40	147.55	151.05	153.15	155.25
52	.....	.....	.....	.....	114.75	124.05	128.35	134.80	140.65	143.15	145.85	148.85	152.65	154.60	157.75
54	.....	.....	.....	.....	117.05	125.85	129.55	135.95	142.15	145.15	147.25	150.40	154.40	156.20	160.85
56	.....	.....	.....	.....	119.45	127.55	130.85	137.15	143.35	147.25	148.95	152.00	156.40	157.95	163.85
58	.....	.....	.....	.....	121.85	129.25	132.15	138.05	144.55	149.55	150.65	153.80	158.55	159.80	167.20
60	.....	.....	.....	.....	124.75	131.15	133.60	139.15	145.75	151.95	153.00	155.80	160.65	161.80	170.55
62	.....	.....	.....	.....	127.15	132.80	134.80	140.75	147.00	154.45	155.60	158.15	162.80	163.80	173.85
64	.....	.....	.....	.....	129.45	134.55	136.15	142.35	148.20	157.05	158.60	160.85	164.95	165.95	177.20
66	.....	.....	.....	.....	131.95	136.25	137.45	143.85	149.40	159.65	161.85	163.75	167.35	168.20	180.85
68	.....	.....	.....	.....	.....	.....	138.85	145.35	151.95	162.25	165.35	166.60	169.65	170.80	184.60
70	.....	.....	.....	.....	.....	.....	140.05	147.05	153.20	165.25	168.80	169.55	172.20	173.60	188.35
72	.....	.....	.....	.....	.....	.....	141.35	150.40	154.45	168.25	172.40	173.60	174.80	176.45	192.20
78	.....	.....	.....	.....	.....	.....	.....	.....	155.85	171.25	175.85	176.05	177.55	179.55	195.85
84	.....	.....	.....	.....	.....	.....	.....	.....	157.35	174.55	179.55	181.15	181.40	184.35	199.80
90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	183.45	182.15	183.05	185.95	203.85
96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	187.95	186.55	186.00	189.25	208.20
108	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	192.05	191.80	189.05	192.05	212.85

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

SHAFT EXTENSIONS

(Total Both Ends)

Diameter, Inches	Price, per Inch
1 7/16	$0.07
1 11/16	.08
1 15/16	.09
2 3/16	.12
2 7/16	.16
2 11/16	.19
2 15/16	.21
3 3/16	.28
3 7/16	.29

Sizes not listed take same price as next size larger.

Diameter body measurement over teeth.

TO ESTIMATE SHIPPING WEIGHT

Diam. Body Inches	Weight per Ft., Lbs.	Diam. Shaft Ext. Inches	Weight per Ft., Lbs.
2½	16	1 7/16	9½
2¾	19	1 11/16	12
3	22	1 15/16	16
3¼	26	2 3/16	19
3½	30	2 7/16	23
3¾	35½	2 11/16	26½
4	40	2 15/16	30½
4¼	45	3 3/16	34½
4½	51	3 7/16	39½
4¾	56½	.....	.....
5	63½	.....	.....
5¼	70	.....	.....
5½	76½	.....	.....
5¾	84½	.....	.....
6	91½	.....	.....

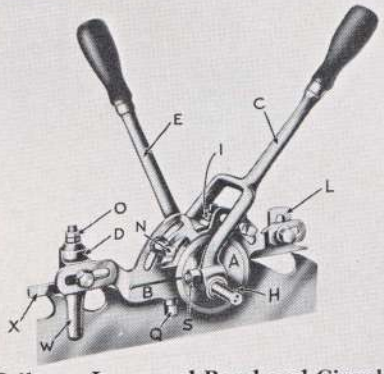
ATKINS TOOLS

For the Filing Room

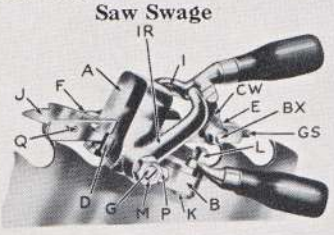
THE PRIBNOW IMPROVED SWAGE; THE PRIBNOW NEW MODEL AND ORIGINAL IMPROVED SWAGE SHAPERS

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

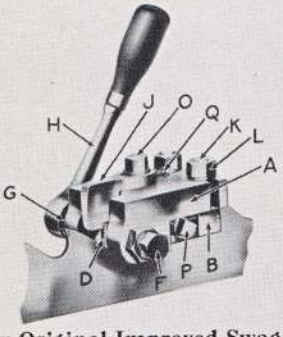
The first Pribnow Shaper was made in 1890, since which time the advantages obtained by compression instead of side-dressing swaged saw teeth have been generally recognized. When this has not been the case it is largely due to the fact that the Swage did not work in harmony with the Shaper.



Pribnow Improved Band and Circular Saw Swage



Pribnow New Model Swage Shaper



Pribnow Original Improved Swage Shaper

THE PRIBNOW NEW MODEL SWAGE SHAPER

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

THE PRIBNOW ORIGINAL IMPROVED SWAGE SHAPER

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

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

THE PRIBNOW IMPROVED SWAGE
FOR BAND, GANG AND CIRCULAR SAWS

WITH OVAL DIE AND ECCENTRIC BUSHINGS

No.	Gauge	Size of Die Inches	Weight	List Price	No.	Gauge	Size of Die Inches	Weight	List Price
16	8 to 13	7/8	14½	$73.25	*18G	14 to 16	39/64	8	$58.75
26	12 to 14	3/4	10	66.50	19	16 to 18	17/32	7	54.75
17	13 to 15	5/8	9	62.75	*19G	16 to 18	17/32	7	54.75
*27G	13 to 15	21/32	9	62.75	20	17 to 20	31/64	5	50.75
18	14 to 16	39/64	8	58.75	22	19 to 22	23/64	4	48.00

WITH SOLID DIE AND BEARINGS

17S	12 to 14	23/32	9	$59.25	19S	14 to 17	19/32	7	$51.25
*27GS	12 to 14	3/4	9	59.25	*19GS	14 to 17	19/32	7	51.25
18S	13 to 16	11/16	8	55.25	20S	16 to 19	9/16	5	47.25
*18GS	13 to 16	11/16	8	55.25	22S	18 to 20	3/8	4	45.00

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

THE PRIBNOW NEW MODEL SWAGE SHAPER
FOR BAND, GANG, CIRCULAR AND CYLINDER SAWS
PATENTED SEPTEMBER 17, 1918

SINGLE LEVER STYLE

No.	Gauge	Weight	List Price
31	5 to 10	10	$50.75
32GH	10 to 13	7	48.00
32G	14 to 17	7	48.00
32CY	11 to 18	7	48.00
33	18 to 22	5	42.75

SINGLE LEVER STYLE WITH BENCH BRACKET

31CB	5 to 10	13	56.00
32CB	10 to 17	10	53.25

DOUBLE LEVER STYLE

31D	5 to 10	11	56.00
32D	11 to 14	8	53.25
32GHD	10 to 13	8	53.25
32GD	14 to 17	8	53.25
33D	15 to 22	5½	46.75

DOUBLE LEVER STYLE WITH BENCH BRACKET

31CBD	5 to 10	15	61.25
32GHBD	10 to 13	11	58.75

THE ORIGINAL PRIBNOW
SWAGE SHAPER IMPROVED
FOR BAND AND GANG SAWS

No.	Gauge	Weight	List Price
A1	12 to 16	5	$40.00
A2	17 to 24	2¼	36.75
A3	11 to 14	6	43.25

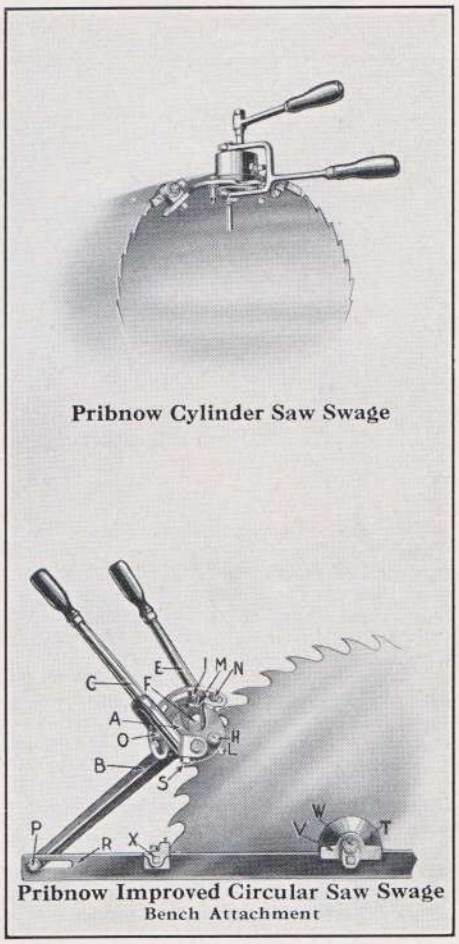
THE PRIBNOW NEW MODEL CYLINDER SAW SWAGE

WITH OVAL DIE AND ECCENTRIC BUSHINGS

No.	Gauge	Size of Die Inches	Weight	List Price
18C	14 to 16	$\frac{39}{64}$	8	$58.75
19C	16 to 18	$\frac{9}{16}$	7	54.75

WITH SOLID DIE AND BEARINGS

18CS	13 to 14	$\frac{11}{16}$	8	$55.25
19CS	14 to 16	$\frac{19}{32}$	7	51.25



Pribnow Cylinder Saw Swage

Pribnow Improved Circular Saw Swage
Bench Attachment

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

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

THE PRIBNOW NEW MODEL CIRCULAR SAW SWAGE

BENCH ATTACHMENT STYLE

WITH OVAL DIE AND ECCENTRIC BUSHINGS

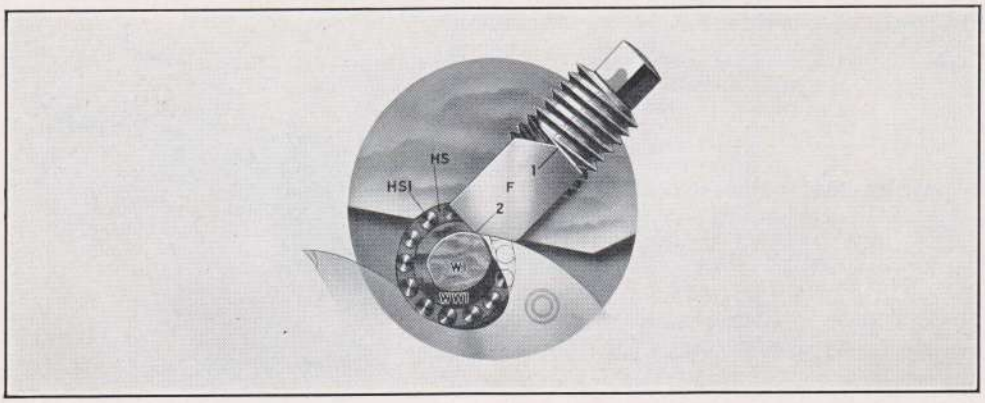
No.	Gauge	Size of Die Inches	Weight	List Price
1B	5 to 10	$\frac{7}{8}$	20	$73.25
2B	8 to 12	$\frac{3}{4}$	15	66.75
3B	12 to 16	$\frac{5}{8}$	10	62.75
4B	16 to 20	$\frac{17}{32}$	6	54.75

Bench Attachment—Extra $9.25
Jointer—Extra 3.25
Special Cones to Fit Edger Saw Collars 6.75

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

THE PRIBNOW ROLLER-BEARING SWAGE
1921 MODEL

(PATENTED JUNE 28, 1921)



A NEW DEPARTURE

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

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

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

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

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

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

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

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

With Oval Die and Eccentric Bushings

No.	Gauge	Size of Die	Weight, lbs.	List Price
16-RB	8 to 13	7/8"	14½	$100.00
26-RB	10 to 14	3/4"	10	90.00
26G-RB	10 to 14	3/4"	9½	90.00
27-RB	13 to 15	5/8"	9	86.75
*27G-RB	13 to 15	5/8"	9	86.75

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

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

With Oval Die and Eccentric Bushings

No.	Gauge	Size of Die	Weight, lbs.	List Price
1B-RB	5 to 10	7/8"	20	$100.00
2B-RB	8 to 12	3/4"	15	90.00
3B-RB	12 to 16	5/8"	10	90.00

Bench Attachment—Extra $9.25

Jointer—Extra 3.25

SELECT DIES AND BUSHINGS FOR PRIBNOW SWAGES FROM THIS LIST

Oval Dies and Bushings				Solid Dies		
Dies		Bushings				
Dies Marked	Working Diameter Inches	Medium Eccentric Marked	Deep Eccentric Marked	Working Diameter Inches	Medium Eccentric Marked	Deep Eccentric Marked
FOR No. 1B SWAGE						
W1	7/8	W1	WW1			
W3	13/16	W3	WW3			
V1	7/8	V1	VU1			
V2	13/16	V2	VU2			
FOR No. 2B SWAGE						
W3	13/16	W3	WW3			
W5	3/4	W5	WW5			
V2	13/16	V2	VU2			
V3	3/4	V3	VU3			
FOR No. 3B SWAGE						
U1	43/64		UU1			
U4	5/8		UU4			
V4	11/16	V4	VU4			
V5	5/8	V5	VU5			
FOR No. 4B SWAGE						
V6	9/16	V6	VU6			
V7	1/2	V7	VU7			
V8	3/8	V8	VU8			
FOR No. 16 SWAGE						
W1	7/8	W1	WW1			
W3	13/16	W3	WW3			
V1	7/8	V1	VU1			
V2	13/16	V2	VU2			
FOR No. 17 SWAGE						
U4	5/8		UU4	23/32	D	DD
V5	5/8	V5	VU5	5/8	D1	DD1
FOR No. 18 SWAGE						
R1	39/64	RR1	RS1	11/16	D	DD
R4	9/16	RR4	RS4	5/8	D1	DD1
V6	9/16	V6	VU6			
V7	1/2	V7	VU7			
FOR No. 19 SWAGE						
R6	17/32	RR6	RS6	19/32	D	DD
R9	31/64	RR9	RS9	9/16	D1	DD1
V7	1/2	V7	VU7	17/32	D2	DD2
V8	7/16	V8	VU8	1/2	D3	DD3
FOR No. 20 SWAGE						
P4	7/16	P4	PP4	9/16	D	DD1
O8	3/8	O8	OP8	17/32	D2	DD2
V8	7/16	V8	VU8	1/2	D3	DD3
V9	3/8	V9	VU9	7/16	D4	DD4
FOR No. 22 SWAGE						
N1	11/32	N1	NN1	3/8	D5	DD5
N3	5/16	N3	NN3	11/32	D6	DD6
V9	3/8	V9	VU9			
V10	5/16	V10	VU10			
FOR No. 26 SWAGE						
T1	3/4	T1	TU1			
V3	3/4	V3	VU3			
V4	11/16	V4	VU4			
FOR No. 27 SWAGE						
U1	43/64		UU1			
U4	5/8		UU4			
V4	11/16	V4	VU4			
V5	5/8	V5	VU5			

IMPORTANT

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

REPAIR PARTS FOR PRIBNOW SWAGES

FOR BAND, GANG AND CIRCULAR SAWS

LIST PRICES

Stock Letter	Description	16	26	17	27
A	Block	$24.00	$22.75	$21.25	$21.25
B	Guide Frame	10.75	9.25	8.00	8.00
C	Die Lever (complete)	12.00	11.50	10.50	10.50
D	Spring Fork Body	2.00	2.00	2.00	2.00
E	Clamping Lever (complete)	4.25	4.25	4.25	4.25
***F	Anvils, 1-2 or 3-4	2.60	2.60	2.60	2.60
*G	Clamping Screw R. or L. Hand Thread	2.00	2.00	2.00	2.00
*H	Stationary Clamping Screw, R. or L. Hand	1.25	1.25	1.25	1.25
I	Anvil Adjusting Screw	1.25	1.25	1.25	1.25
J	Anvil Set Screw	1.00	1.00	1.00	1.00
K	Lock Nut for "H", R. or L. Hand	.35	.35	.35	.35
L	Rear Tooth Rest	1.25	1.25	1 25	1.25
LG	Rear Tooth Rest for Gang	.....	.....	2.00	2.00
N	Die Lever Stop (complete)	1.25	1.25	1.25	1.25
NN	Nut for "N"	.50	.50	.50	.50
O	Nut for Spring Fork "W"	.25	.25	.25	.25
P	Spring	.75	.75	.75	.75
Q	Bolt for Guide Frame "B"	.75	.75	.75	.75
R	Bolt for Spring Fork "W"	.35	.35	.35	.35
S	Grip Bolt and Nut for "C"	1.25	1.25	1.25	1.25
SS	Nut for "S"	.25	.25	.25	.25
T	Bolt for Rear Tooth Rest "L"	.35	.35	.35	.35
U	Nut for "G," R. or L. Hand	.35	.35	.35	.35
V	Nut for Rear Tooth Rest "L"	.35	.35	.35	.35
W	Spring Fork	3.50	3.50	3.50	3.50
X	Spring Fork Tooth Rest	.75	.75	.75	.75
Y	Washer for "R" and "T"	.15	.15	.15	.15
Z	Washer for "N"	.15	.15	.15	.15
AZ	Swivel Point Clamping Screw	2.50	2.50	2.50	2.50
BY	Swivel Point only	1.25	1.25	1.25	1.25
EV	Washer for "L"	.35	.35	.35	.35
**OD	Oval Die	11.50	11.50	11.50	11.50
**BU	Oval Die Bushings (2), per pair	7.25	6.75	6.00	6.00
**SD	Solid Die	.....	.....	5.20	5.20
CX	Die Bearings (2), per pair	2.75	2.75	2.75	2.75
DW	Wrench	1.00	1.00	1.00	1.00

Extra Parts Required for Roller Bearing Swage

HS	Roller Bearing Cages (2), per pair	$16.00	$14.00	.....	$12.00
HSI	Roller Bearings (set), per set	8.75	8.00	.....	7.00
GT	Washers (2), per pair	2.00	1.75	.....	1.50

FOR BAND, CIRCULAR, GANG AND CYLINDER SAWS

LIST PRICES

Stock Letter	Description	18	19	20	22
A	Block	$20.00	$20.00	$18.75	$17.35
B	Guide Frame	8.00	8.00	6.75	6.00
C	Die Lever (complete)	9.50	9.50	8.75	8.00
D	Spring Fork Body	1.75	1.75	1.25	1.25
E	Clamping Lever (complete)	4.00	4.00	3.50	3.25
***F	Anvils, 1-2 or 3-4	2.25	2.25	2.25	1.75
*G	Clamping Screw R. or L. Hand Thread	1.75	1.75	1.25	1.25
*H	Stationary Clamping Screw, R. or L. Hand	1.25	1.25	1.00	1.00
I	Anvil Adjusting Screw	1.25	1.25	1.00	1.00
J	Anvil Set Screw	1.00	1.00	.75	.75
K	Lock Nut for "H," R. or L. Hand	.35	.35	.....	.....
L	Rear Tooth Rest	1.25	1.25	.75	.75
LG	Rear Tooth Rest for Gang	2.00	2.00	.....	.....
N	Die Lever Stop (complete)	1.25	1.25	1 00	1.00
NN	Nut for "N"	.50	.50	.35	.35
O	Nut for Spring Fork "W"	.25	.25	.20	.20
P	Spring	.75	.75	.50	.50
Q	Bolt for Guide Frame "B"	.75	.75	.50	.50
R	Bolt for Spring Fork "W"	.35	.35	.25	.25
S	Grip Bolt and Nut for "C"	1.25	1.25	1.00	1.00
SS	Nut for "S"	.25	.25	.25	.25
T	Bolt for Rear Tooth Rest "L"	.35	.35	.25	.25
U	Nut for "G," R. or L. Hand	.35	.35	.25	.25
V	Nut for Rear Tooth Rest "L"	.35	.35	.20	.20
W	Spring Fork	2.75	2.75	2.50	2.50
X	Spring Fork Tooth Rest	.75	.75	.50	.50
Y	Washer for "R" and "T"	.15	.15	.15	.15
Z	Washer for "N"	.15	.15	.15	.15
AZ	Swivel Point Clamping Screw	2.00	2.00	1.50	.....
BY	Swivel Point only	1.00	1.00	.75	.....
EV	Washer for "L"	.35	.35	.....	.....
FU	Set Screw for "H"	.....	.....	.35	.35
**OD	Oval Die	9.75	9.75	8.75	7.25
**BU	Oval Die Bushings (2), per pair	5.50	5.50	4.00	.....
**SD	Solid Die	5.20	4.50	3.25	.....
CX	Die Bearings (2), per pair	2.75	2.00	2.00	.....
DW	Wrench	1.00	1.00	.75	.75

IMPORTANT NOTICE

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

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

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

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

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

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

REPAIR PARTS FOR PRIBNOW CIRCULAR SWAGES

BENCH ATTACHMENT PATTERN

LIST PRICES

Stock Letter	Description	1B	2B	3B	4B
A	Block	$24.00	$20.00	$18.75	$17.50
B	Bracket (A one-piece guide)	8.00	7.50	6.75	6.00
C	Forked Die Lever (complete)	12.50	10.50	9.75	8.75
E	Clamping Lever (complete)	6.25	1.25	4.50	3.75
***F	Anvil, 1-2 or 3-4	3.25	2.75	2.25	2.00
G	Clamp Screw (old style)	3.50	2.75	2.50	2.00
H	Stationary Clamp Screw	2.75	2.00	1.75	1.50
I	Anvil Adjusting Screw	1.75	1.50	1.50	1.00
J	Anvil Set Screw	1.00	1.00	1.00	.75
K	Lock Nut for "H"	1.00	.75	.75	.35
L	Set Screw for "H"	1.00	.75	.75	.35
N	Die Lever Stop Bolt	1.00	1.00	.75	.50
NN	Die Lever Stop Nut	.75	.75	.50	.35
Q	Cap Screw for "B"	.25	.25	.20	.20
S	Grip Bolt and Nut	1.75	1.50	1.50	1.00
SS	Nut for "S"	.25	.25	.25	.25
U	Nut for "G"	.35	.35	.25	.25
Z	Washer for "N"	.20	.20	.15	.15
AZ	Swivel Point Clamp Screw	3.50	2.75	2.35	.....
BY	Swivel Point only	1.75	1.75	1.50	.....
**OD	Oval Die	11.50	10.50	9.75	9.75
**BU	Oval Die Bushings (2), per pair	7.50	6.00	5.50	4.75
**SD	Solid Die	.....	7.25	6.25	4.75
CX	Die Bearings (2), per pair	.....	3.50	2.75	2.00
DW	Wrench	1.00	1.00	1.00	.75

EXTRA PARTS REQUIRED FOR ROLLER BEARING SWAGE

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

REPAIR PARTS FOR BENCH ATTACHMENT

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

IMPORTANT

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

REPAIR PARTS FOR PRIBNOW NEW MODEL SWAGE SHAPERS DOUBLE LEVER STYLE

FOR BAND AND CIRCULAR SAWS

LIST PRICES

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

REPAIR PARTS FOR PRIBNOW NEW MODEL SWAGE SHAPERS SINGLE LEVER STYLE

FOR BAND, GANG, CIRCULAR AND CYLINDER SAWS

LIST PRICES

Stock Letter	Description	31 and 31CB	32G and 32GH	32CB and 32CY	33	Stock Letter	Description	31 and 31CB	32G and 32GH	32CB and 32CY	33
A	Base	$24.00	$20.00	$20.00	$16.00	O	Adjusting Screw for "D"	$0.35	$0.35	$0.35	$0.35
B	Jaw Holder (left)	3.50	3.25	3.25	2.75	P	Cap Screw for "D"	.35	.35	.35	.35
C	Jaw Holder (right)	3.50	3.25	3.25	2.75	Q	Taper Pins for "J" (2), per pair	.25	.25	.25	.25
D	Shaping Jaws (2), per pair	6.25	5.25	5.25	4.50	S	Set Screws for "F" and "G" (2), per pair	.25	.25	.25	.25
E	Tooth Rest Bar (for all except 32GH)	5.50	4.75	4.75	4.00	T	Washer for "N"	.15	.15	.15	.15
EH	Tooth Rest Bar for 32GH	.....	4.75	.....	.....	U	Adjusting Knob	.35	.35	.35	.35
F	Clamping Screw (right hand)	2.75	2.75	2.75	2.00	V	Washers for "P," "K" and "BX" (2 each), per pair	.25	.25	.25	.25
G	Clamping Screw (left hand)	2.75	2.75	2.75	2.00	AY	Spring for "E"	.75	.75	.75	.75
H	Clamping Lever	3.25	2.75	2.75	2.25	BX	Stud Bolt and Nuts for "E"	1.00	1.00	1.00	1.00
*J	Tooth Gauge	4.50	4.50	4.50	3.50	CW	Clamping Lever Stop	.75	.75	.75	.75
K	Swivel Bolts for "B" and "C" (2), per pair	1.00	1.00	1.00	1.00	DV	Nut for "N"	.20	.20	.20	.20
L	Nuts for "K" (2), per pair	.50	.50	.50	.50	FT	Bench Bracket for 31CB and 32CB	.....	.....	4.75	.....
M	Nuts for "F" or "G" (2), per pair	.50	.50	.50	.50	GS	Adjusting Screw for "E"	.25	.25	.25	.25
N	Cap Screw for "E"	.35	.35	.35	.35	X	Wrench	1.00	.75	.75	.75

REPAIR PARTS FOR PRIBNOW ORIGINAL IMPROVED SWAGE SHAPERS

FOR BAND AND GANG SAWS

LIST PRICES

Stock Letter	Description	1 and A1	2 and A2	3 and A3
A	Base	$16.00	$13.50	$16.00
B	Jaw Holder (left)	3.50	2.75	3.50
C	Jaw Holder (right)	3.50	2.75	3.50
D	Shaping Jaws (2), per pair	5.25	4.75	5.25
E	Back Guide	.75	.75	.75
F	Stationary Clamping Screw	1.00	1.00	1.00
G	Movable Clamping Screw	1.75	1.75	1.75
H	Clamping Lever	3.25	2.60	3.75
I	Set Screw for "H"	.15	.15	.15
*J	Tooth Gauge	3.90	3.75	3.60
K	Swivel Bolts for "B" and "C" (2), per pair	1.00	.75	1.00
L	Nuts for "K" (2), per pair	.50	.35	.50
M	Nut for "F"	.35	.25	.35
N	Cap Screw for "J"	.35	.25	.35
O	Adjusting Screws for "D" (2), per pair	.50	.50	.50
P	Cap Screws for "D" (2), per pair	$0.75	$0.50	$0.75
Q	Adjusting Screw for "J"	.25	.25	.25
R	Washers for "K" (2), per pair	.25	.25	.25
S	Washer for "N"	.15	.15	.15
V	Washers for "P" (2), per pair	.25	.25	.25
W	Back Guide Support	.....	.....	3.00
X	Cap Screws for "W" (2), per pair	.....	.....	.50

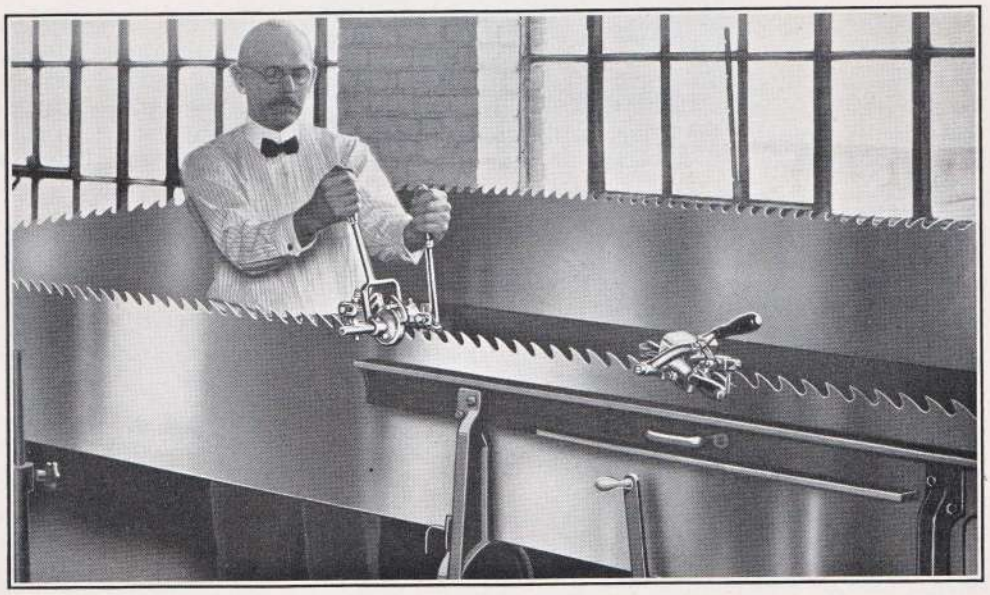
Parts Required for Grinding Gauge

T	Grinding Gauge Base	$1.50
U	Clamp	.35
Y	Cap Screw	.35

IMPORTANT

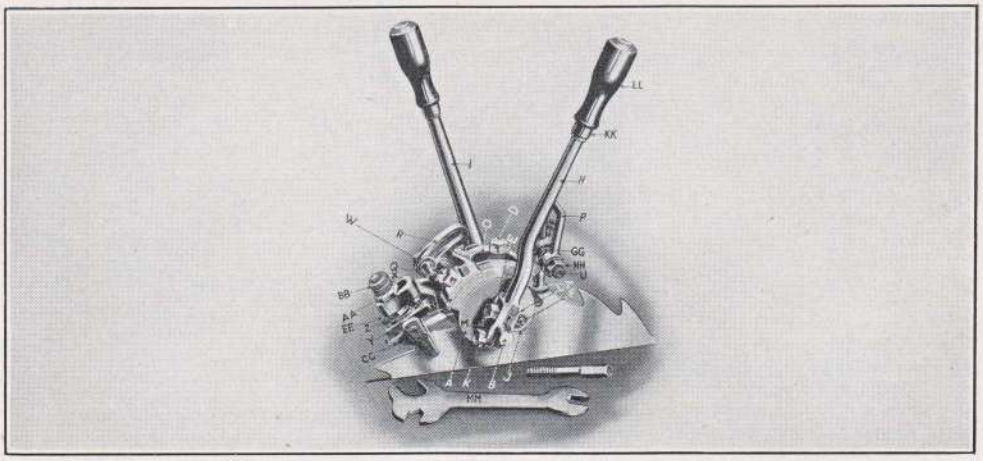
(1) When ordering repairs always give the number of the shaper, also stock letter and name of parts.

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



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

ATKINS IDEAL SWAGE
WITH SOLID DIES



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

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

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

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

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

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

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

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

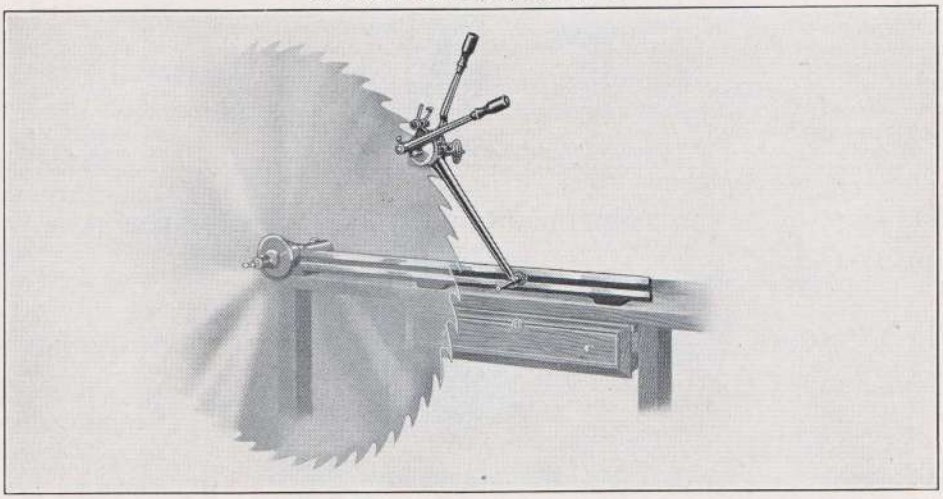
The use of Atkins Ideal Swage in connection with Pribnow Swage Shaper gives a combination which will enable even the most inexperienced operators to produce the most perfect teeth with least effort and expense.

ATKINS IDEAL SWAGES
NUMBERS AND LIST PRICES

Ideal Swage No.	Size Die Inches	Depth of Tooth Not Less Than In.	Gauge and Thickness of Saws	These Swages Are Made for	List Price
0	Shallow	5/16	19 gauge and thinner	Band saws	$42 75
00	3/8	3/8	16–17–18–19	*Band saws	46.75
1	9/16	9/16	13–14–15–16	Band and gang saws	53.50
9	11/16	11/16	12–13–14–15	Band saws	53.50
2	5/8	5/8	8–9–10–11–12	Circular saws	61.50
5	5/8	5/8	12–13–14	Band and gang saws	53.50
3	3/4	3/4	6–7–8–9–10	Circular saws	64.00
6	3/4	3/4	11–12–13–14	†Band saws	61.50
4	7/16	7/16	14–15–16–17–18–19	‡Shingle saws	46.75
7	9/16	9/16	11–12–13–14	Circular saws	53.50
8	9/16	9/16	11–12–13–14–15–16	Cylinder saws	53.50

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

ATKINS IDEAL CIRCULAR SAW SWAGE
WITH BENCH ATTACHMENT
SWAGE Nos. 2, 3, 4 AND 7



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

The construction is shown very plainly in the accompanying illustration.

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

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

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

No.	Gauge	Size of Die, Inches	Weight	List Price*
2	8 to 12	5/8	46 3/4	$70.80
3	6 to 10	3/4	54 1/2	73.50
4	14 to 19	7/16	42 1/4	56.00
7	11 to 14	9/16	44 1/4	62.75
Bench Attachment Extra				$9.50

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

REPAIR PARTS FOR ATKINS IDEAL SWAGES

LIST PRICES FOR BAND, GANG AND CIRCULAR SAWS

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

*No. 3 and No. 2—Part T includes TT.

LIST PRICES FOR BAND, CIRCULAR, SHINGLE AND CYLINDER SAWS

Stock Letter	Description	7	8	4	0 and 00	Stock Letter	Description	7	8	4	0 and 00
A	Block	$20.00	$20.00	$18.75	$17.50	W	Cap Screws for "O" (2), per pair	$0.20	$0.20	$0.20	$0.20
B	Die	4.50	3.25	3.50	3.25	X	Sleeve	.75	.....	.75	.75
C	Anvil	2.00	2.00	1.50	1.50	Y	Front Fork	2.00	1.75	2.00	1.50
D	Anvil Screw	1.75	1.75	1.75	1.50	Z	Spring for "Y"	.25	.....	.25	.25
E	Anvil Set Screws (2), per pair	.50	.50	.50	.50	AA	Lock Nuts for "X" (2), per pair	.50	.....	.50	.50
F	Stationary Clamping Screw	2.25	2.25	2.25	2.00	BB	Lock Nuts for "Y" (2), per pair	.50	.50	.50	.50
G	Movable Clamping Screw	2.25	2.25	2.25	2.00	CC	Plate for "Y"	.75	.75	.75	.75
H	Die Lever (complete)	4.50	4.50	4.50	3.50	DD	Rivets for "Y"	.20	.20	.20	.20
I	Clamping Lever (complete)	4.50	4.50	4.50	3.50	EE	Adjusting Screws for "CC" (2), per pair	.25	.25	.25	.....
J	Lock Nut for "F"	.50	.50	.50	.35	FF	Collar	.50	.....	.....	.....
K	Cap Screws for "H" (2), per pair	.25	.25	.25	.20	GG	Lock Nut for "U"	.25	.....	.....	.....
L	Key for "H"	.75	.75	.75	.75	HH	Lock Nut for "P"	.20	.....	.....	.20
M	Lock for "H"	.50	.50	.50	.35	II	Button Head Screws (2), per pair	.20	.20	.20	.20
N	Set Screw for "I"	.20	.20	.20	.20	JJ	Indicator	1.00	.....	.....	1.00
O	Saddle	4.00	3.50	3.50	3.50	KK	Ferrules (2), per pair	.20	.20	.20	.20
P	Die Opening Stop	.75	.75	.75	.75	LL	Wood Handles (2), per pair	.50	.50	.50	.50
Q	Die Finishing Stop	.75	.75	.75	.75	NN	Front Fork Rest Swivel for Cylinder Saws	.....	1.00	.....	.....
R	Bracket for "Q"	1.50	1.50	1.50	1.50	OO	Cap Screws for "P" (2), per pair	.....	.20	.20	.....
S	Bushings (2), per pair	2.50	2.50	2.50	.....	MM	Wrench	1.50	1.50	1.50	1.00
T	Rear Rest	....	.....	.....	1.25						
*TT	Plate for "T"	.....	.....	.....	.75						
U	Stud for "T" (including nuts and washers)	1.50	.....	.....	1.00						
V	Saddle Cap	1.25	1.25	1.25	1.00						

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

ATKINS UPSET SWAGES

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

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

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

ATKINS No. 2

FOR BAND AND CYLINDER SAWS

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

ATKINS UPSET

FOR CIRCULAR AND OTHER SAWS

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

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

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

Price.....each $5.50
Weight, each...pounds 1⅛

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

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

No. 3, for small circular saws.

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

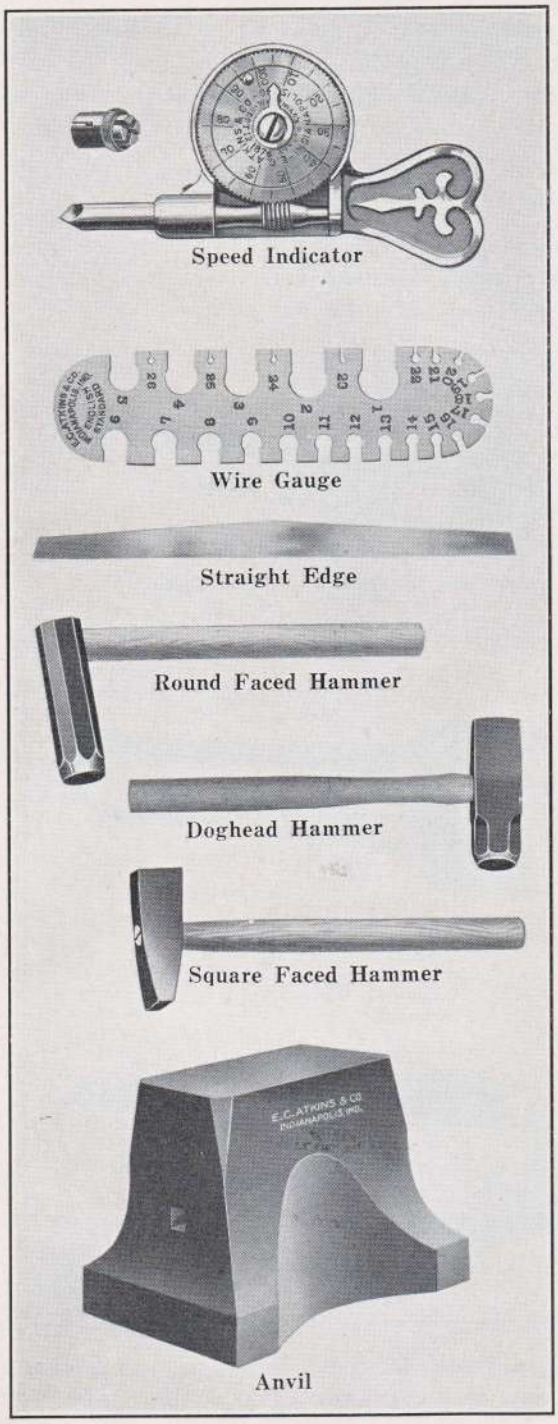
No. 2, for Band and Cylinder Saws

Nos. 0, 1, 2 and 3

Inside Construction of Above

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

ATKINS SAW MAKERS' TOOLS



Speed Indicator

Wire Gauge

Straight Edge

Round Faced Hammer

Doghead Hammer

Square Faced Hammer

Anvil

IMPROVED SPEED INDICATORS

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

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

STANDARD WIRE SAW GAUGES

Oblong gauges Nos. 1 to 26 ..... each $2.00

Round saw gauges, Nos. 6-36 ..... each 1.65

STRAIGHT EDGE

Price.....per foot $2.00

Made in lengths of 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 40, 42, 48 and 60 inches. These sizes are carried in stock.

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

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

TENSION GAUGE

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

Prices on application.

BACK GAUGE WITH DOUBLE EDGE

Made to order. Prices on application.

ROUND FACED HAMMER

Price.....per pound $2.00

Furnished any weight desired.

COMBINATION HAMMER

Price.....per pound $2.00

Furnished any weight desired.

SQUARE FACED HAMMER

Price.....per pound $2.00

Furnished any weight desired.

ANVILS

STEEL FACED

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

Prices on application.

ATKINS SIDE FILES

ADJUSTABLE No. 1
FOR LARGE CIRCULAR SAWS

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

ADJUSTABLE No. 2
FOR BAND AND GANG SAWS

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

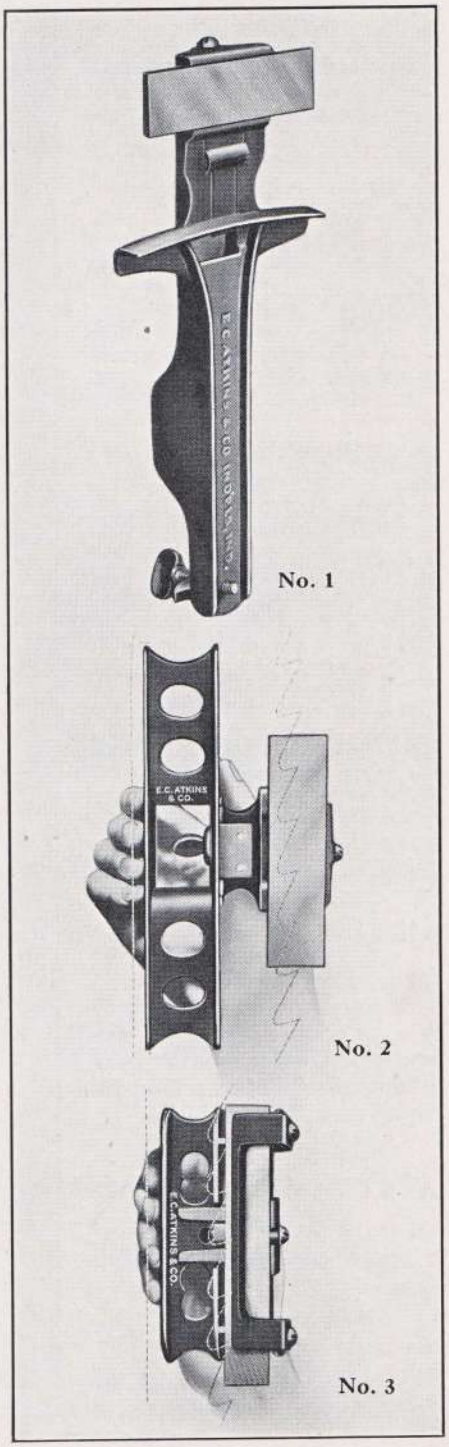
ADJUSTABLE No. 3
FOR BAND, RE-SAWS AND GANG SAWS

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

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

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

No. 1, for circular saws	each	$1.35
No. 2, for band, gang and circular saws	each	1.35
No. 3, for band saws	each	1.35
Extra files for Nos. 1 and 2	per dozen	4.00
Extra files for No. 3	per dozen	4.80
Weight, No. 1, each	pounds	2
Weight, No. 2, each	pounds	$1\frac{3}{16}$
Weight, No. 3, each	pounds	$1\frac{3}{8}$



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 $15.60

Made to suit saws of different sizes.

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

Small, for band saws, single handle.....each $2.60

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

Weight, small, 10 ounces each.

SWAGE BARS

No.	No. of Sides	Dimensions Inches	Wt. Lbs.	Price Each
1	6 or 8	11x1 x½	1½	$7.00
2	6 or 8	11x1¼x⅝	2	8.40
3	6 or 8	11x1½x¾	2 9/16	9.70
4	6 or 8	11x1¾x⅞	3½	11.00

HAMMERS FOR SWAGE BARS

Size, Inch	Weight Lbs.	Price Each
¾.....	½	$2.75
⅞.....	11/16	3.30
1.....	13/16	3.80

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

ATKINS SHINGLE SAW SET GAUGE

For cylinder, shingle and heading saws.

An accurate tool that will produce good results.

Price, nickel-plated....each $1.00

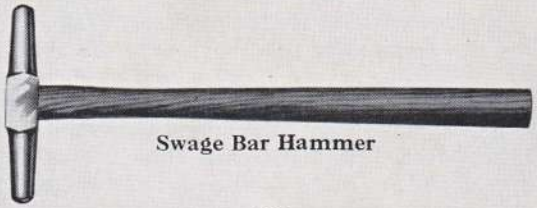
Weight, each.....ounces 4½

Shingle Saw Set

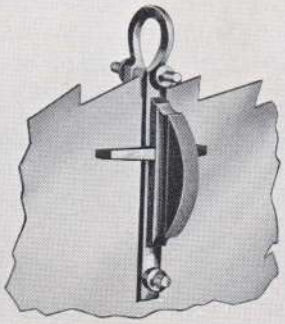
Single Saw Set, Small

Double Saw Set, Large

Swage Bar



Swage Bar Hammer

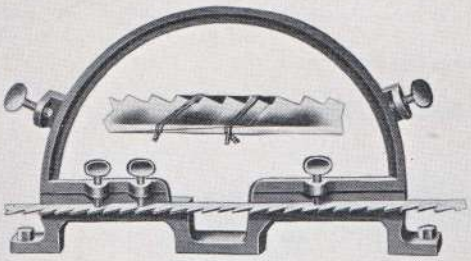


Shingle Saw Set Gauge

ATKINS BRAZING TOOLS

Silver Solder

Brazing Torch



Brazing Clamps

Criterion Band Saw Set

Brazing Tongs

SILVER SOLDER

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

We will furnish Silver Solder at the lowest market price, predicated on the price of silver.

BRAZING TORCH No. 92

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

Price.....each $10.00
Weight, each.....pounds 2

ATKINS BRAZING AND FILING CLAMPS

FOR BRAZING NARROW BAND SAWS UNDER 1¼ INCH IN WIDTH

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

Price.....each $5.00
Weight, each.....pounds 13

ATKINS CRITERION BAND SAW SETS

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

Price.....per dozen $13.35
Weight, one-half dozen...pounds 7⅛

BRAZING TONGS AND CLAMPS FOR BAND SAWS

LARGE

To braze saws from 2 to 6 inch, with clamp.

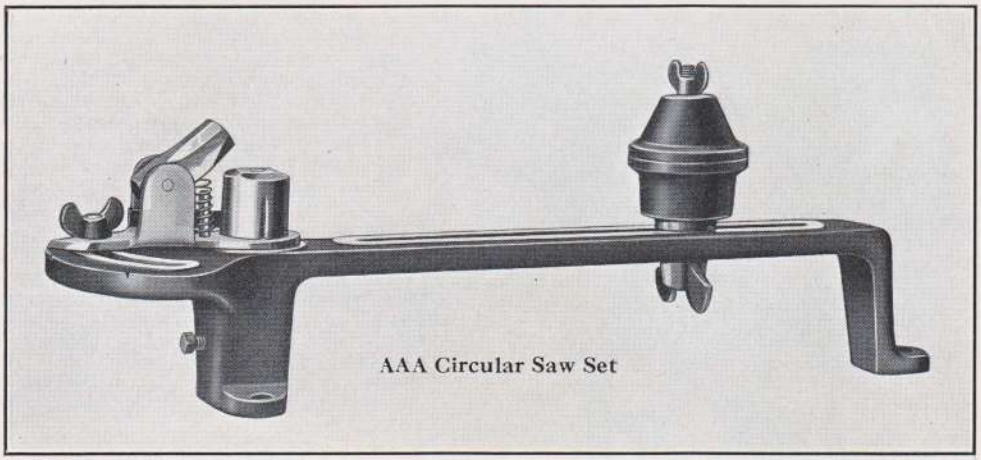
Price.....each $10.00
Weight, each.....pounds 11

SMALL

For bands 1½ inch and smaller, no clamp.

Price.....each $4.00
Weight, each.....pounds 5½

ATKINS "AAA" CIRCULAR SAW SET

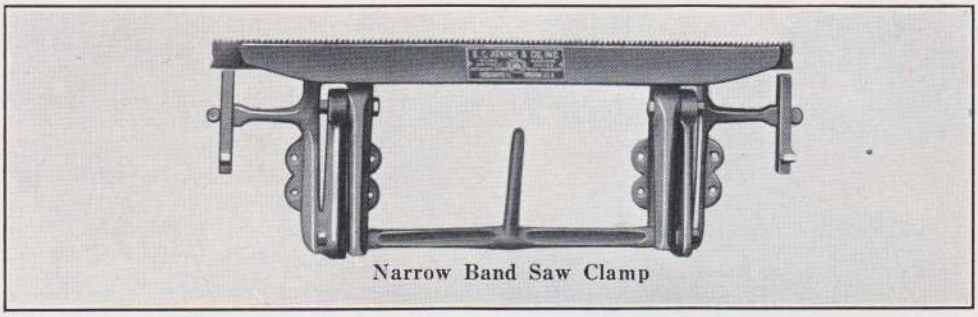


AAA Circular Saw Set

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

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

ATKINS NARROW BAND SAW CLAMP



Narrow Band Saw Clamp

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

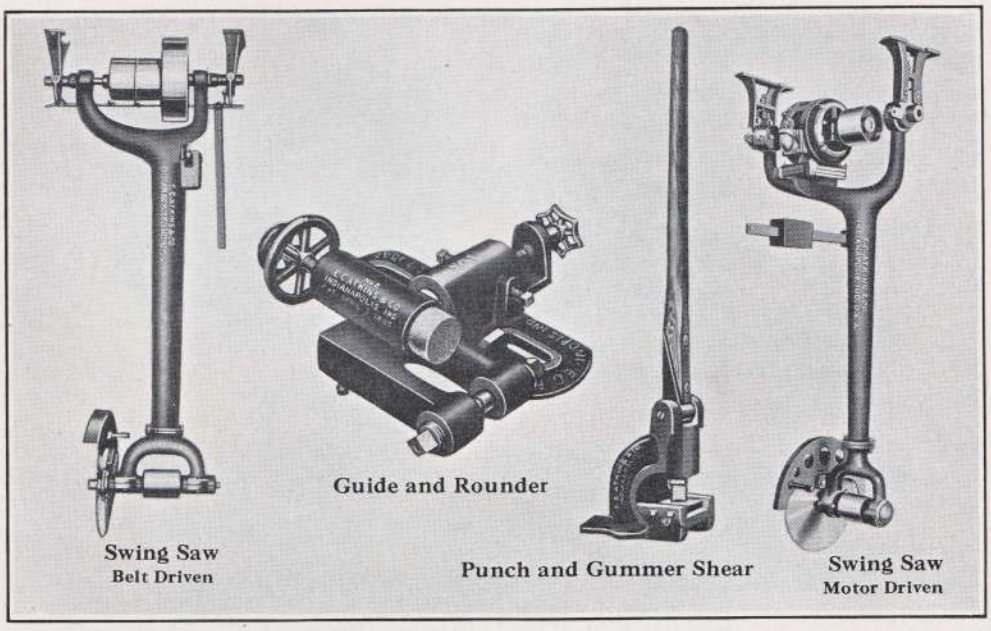
Its advantages lie in the simplicity of construction, ease of adjustment and convenience for the many uses to which it may be put. It may be fastened to any vertical surface by the use of eight common wood screws. The attachments on the sides underneath the Clamp are for adjusting to accommodate the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

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

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

Price..... each $17.00

ATKINS SPECIALTIES



THE SAW GUIDE

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

THE ROUNDER

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

No. 1, for Ordinary Mills

Guide, without rounder		$13.35
Combined guide and rounder		16.65
Weight, guide only	pounds	32
Weight, rounder only	pounds	6½

No. 2, for Heavy Work

Guide, without rounder		$16.65
Combined guide and rounder		20.00
Weight, guide only	pounds	47
Weight, rounder only	pounds	7

ATKINS SWING SAW

The frame hangs on hangers, doing away with imperfect alignment and insuring the utmost rigidity. The head is detachable, permitting of great ease in adjusting, and may be removed for rebabbitting. Countershaft and hangers of $1\frac{7}{16}$ inch steel shafting, have an up and down adjustment, equipped with belt shifter.

Through the use of adjustable counter weight, saw may be made to hang at any angle. The saw guard will accommodate saws up to 20 inches, or to 24 inches when so specified, at extra cost. Length of frame, 6 feet, tight and loose pulley 8 x 5 inches, drive pulley 16 x 5 inches, arbor pulley 5 x 5½ inches, size of arbor in bearing $1\frac{7}{16}$ inches, size of arbor where saw goes on 1⅛ inches. Speed of countershaft 450 revolutions per minute, weight, 400 pounds.

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

ATKINS DIRECT MOTOR DRIVEN SWING SAW

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

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

ATKINS PUNCH GUMMER AND SHEAR

A very handy device for punching teeth in band and cross cut saws. We furnish dies to any specification. Will accommodate dies up to 3¼ inches square by 7/8 inch thick.

Price	each	$46.00
Extra punches and dies	per set	18.40
Weight	pounds	75

We furnish dies for shearing band saws, to be used in Atkins Gummer.

Price ..... per pair $18.40

ATKINS SPECIALTIES

ATKINS COUNTERSHAFT

Arbor 24 inches long by $1\frac{3}{16}$-inch diameter. Made from the best grade of material and guaranteed to run smooth and true.

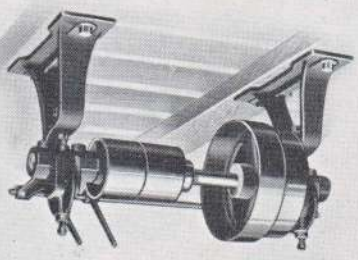
Tight and loose pulleys $4\frac{1}{2}$-inch diameter by 3-inch face for 3-inch belt.

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

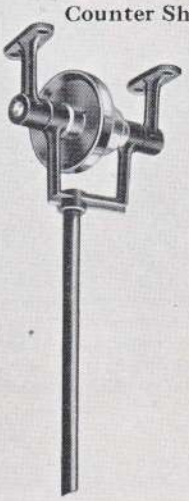
This is one of the best countershafts on the market.

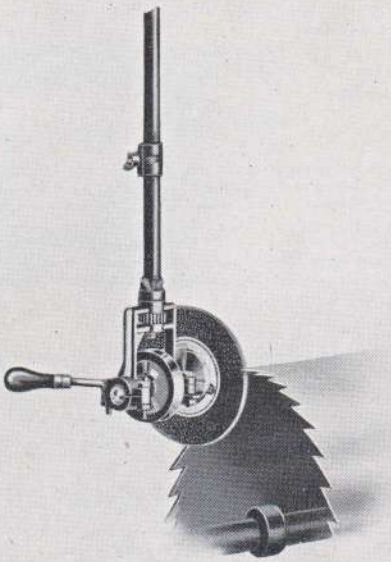
The many orders we have received for this countershaft from Planing Mills, Sash and Door, Wagon and Carriage, Pattern and Furniture factories, indicate the high quality of this product.

Price.....each $20.00
Weight, each.....pounds 40



Counter Shaft





Cylinder Saw Gummer

ATKINS CYLINDER SAW GUMMER

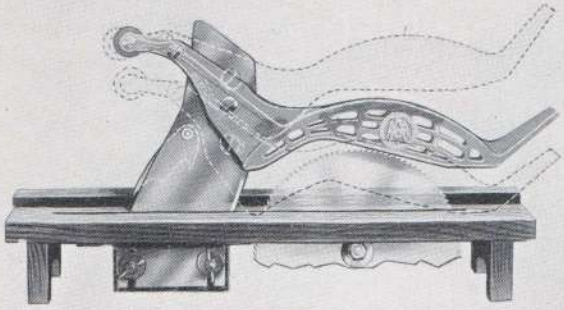
These can be used for gumming any kind of a saw, Band, Circular, Barrel and Cylinder.

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

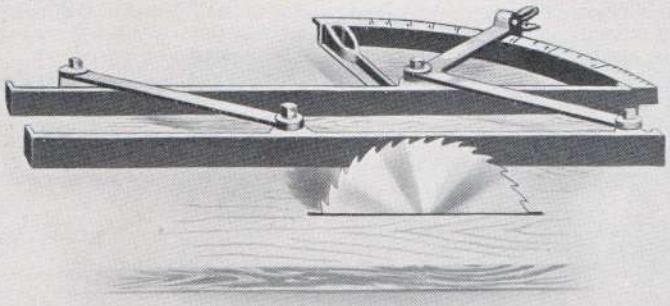
Price.....each $46.65
Weight (packed) each..pounds 40

Above price includes belt and grinding wheel.

ATKINS "AAA" SAW GUARD



AAA Saw Guard



Hamlet Dimension Gauge

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

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

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

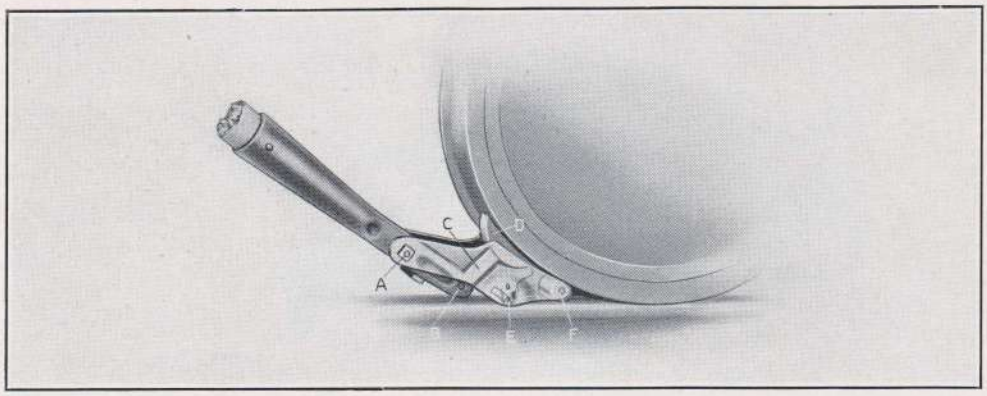
ATKINS HAMLET DIMENSION GAUGE

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

The Atkins Hamlet Dimension Gauge is designed to cover a range from ⅛ to 9 inches and is furnished either right or left hand.

Price, right or left hand, ⅛ to 9 inches capacity.....each $16.00
Weight, each.....pounds 29

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.

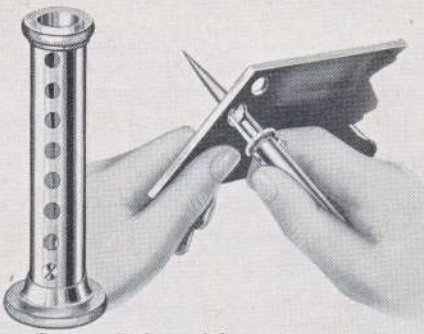
The roller "F" permits the Mover to slide easily along the rail. The hardened steel key "E" with four corners, which may be changed when desired, clinches the top of rail and prevents slipping. The link "C" is fastened to the shoe "D," so that when pressure is applied on the handle, the shoe "D" is moved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

Price.....each $8.80
Weight, each, net.....pounds 18

PARTS FOR "AAA" CAR MOVER

Letter and Name of Parts	Price Each	Name of Parts	Price Each
G Frame	$3.65	Lever	$5.75
D Wheel shoe	1.05	Short Pin	.20
E Steel grip	.90	Long pin	.35
F Roller wheel	.50	Wood handle	1.75
C Link	.35		
A Lever bolt	.08		

ROGERS BELT AND STRAP PUNCH



Rogers Belt and Strap Punch

The Rogers Belt and Strap Punch will cut any size from $\frac{1}{16}$ to $\frac{3}{8}$ inch or from $3\frac{1}{2}$ 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. A tool that is indispensable.

Price.....per dozen $9.00
Weight.....per dozen 1 lb. 7 oz.

BAND SAW GUIDE AND SETTING MACHINES

SCROLL BAND SAW GUIDES

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

Guides can be applied to all makes of machines.

	Net Weight	Price
No. 0—⅛ to 1¼ inches	3¼ lbs.	$10.00
No. 1—⅛ to 1½ inches	4⅝ lbs.	12.50
No. 2—¼ to 2½ inches	6⅝ lbs.	15.00

GUIDE REPAIRS NET

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

No.		No. 0	No. 1	No. 2
1	Disk with Spindle	$2.00	$2.25	$2.50
2	Socket (or bushing)	.75	1.00	1.25
3	Hand Adjusting Screw	.40	.40	.40
6	Jaws Plain, with Screws, per pair	1.25	1.25	3.00
7	Jaws Bevel, with Screws, per pair	1.25	1.25	3.00
9	Main Casting	4.00	5.50	6.50
10	Sliding Block	1.50	2.00	2.50
	Regular Straight Shank, ¾-inch	.50	.60	.60
	Special Eccentric Shaft Shank	1.00	1.00	1.00
11	Bevel Washer	.10	.10	.10
12	Spring	.15	.15	.15
13	Steel Ball	.15	.15	.15

INFORMATION DESIRED WITH ORDER

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

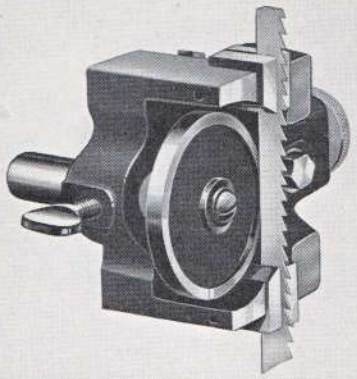
Give size of hole in lug casting.

Show position of bolt as you stand facing the machine.

Give depth and width of slot in bracket if guide bolts to a clevis or opening in frame casting.

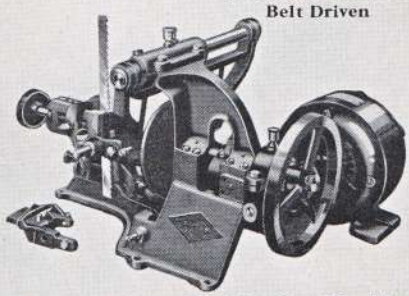
Give distance from bolt to back of the saw.

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



B. T. & B. Band Saw Guide

Band Saw Filing and Setting Machine
Belt Driven



Band Saw Filing and Setting Machine
Motor Driven

BLACK DIAMOND COMBINED FILING AND SETTING MACHINE

FOR NARROW BAND SAWS

Practically two machines in one, and occupies only one square yard of floor space, as the saw is hung on a peg overhead

The feed is accurate and positive, requiring no attention after saw is properly adjusted.

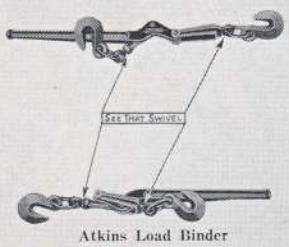
It uses slim taper or ordinary taper files (any make) or special machine files.

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

MADE IN THREE SIZES

No.	Width of Saws Inches	Feed	Weight Belt Driven Pounds	Weight Motor Driven Pounds	Pulleys Tight and Loose Inches	Speed R.P.M.	Belt Driven Price	Motor Driven Price
1	⅛ to 1½	3 to 15 pts. to inch	55	75	9 x 1¼	80	$65.00	$105.00
2	⅛ to 2½	2 to 15 pts. to inch	60	80	9 x 1¼	80	70.00	110.00
3	¼ to 4½	8 pts. to 1½ inch space	100	120	12 x 1¾	60	95.00	150.00

LOAD BINDERS AND CONNECTING LINKS, ETC.



Atkins Load Binder

Keystone Connecting Link, Open

Keystone Connecting Link, Closed

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.

Price Regular Double Swivel.....per pair $4.00
Weight, per pair.....pounds 15

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

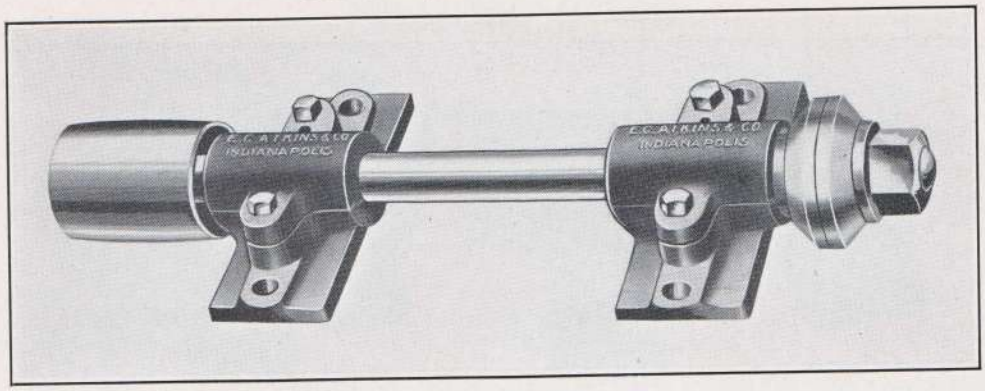
KEYSTONE CONNECTING LINKS

The Keystone Connecting Link for connecting new or repairing broken chains of any kind is composed of two corresponding halves centrally pivoted on the same axis. As shown by the illustration herewith, the inner flat face of each member is provided with a projecting lug and recess, so that when closed and in use they mutually interlock, and by abutting against each other, lateral displacement of the two halves, and their consequent spreading or parting, is rendered impossible. The Keystone Link is drop forged from an especially tough grade of bar steel, is the only one so made, and must not be confused with similar devices which are simply malleable iron castings.

Size, Inches	Price, per Dozen	Weight Pounds, per Dozen
¼	$ 2.00	⅞
5/16	2.25	1½
⅜	2.50	2⅜
7/16	3.25	4
½	4.00	5
⅝	7.50	9¾
¾	10.00	18
1	15.00	43½

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



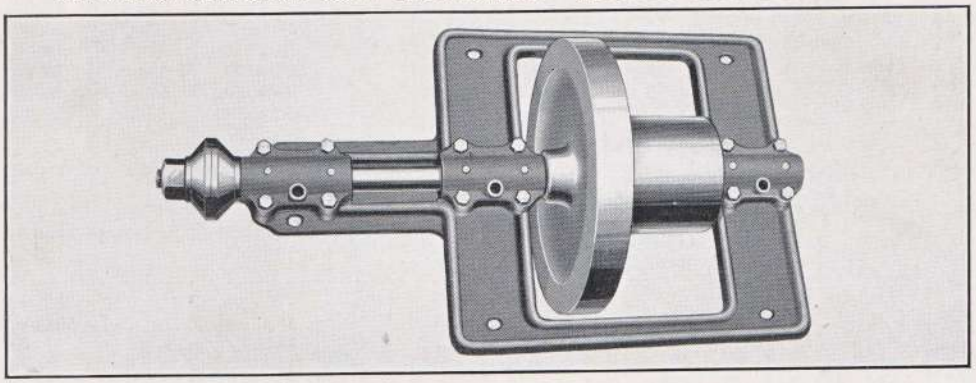
PULLEY OUTSIDE BOXES

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

No.	Extreme Length Inches	Diameter of Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Diameter of Collars Inches	Size Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	16½	1 5/16	3	3	3	1	10 to 12	18½	$ 8.00
2	19	1 5/16	3	3½	3	1	10 to 12	20	8.50
3	21½	1 5/16	3	4	3½	1⅛	14 to 16	27½	9.50
4	24	1 5/16	3½	4½	3½	1⅛	14 to 16	30½	10.75
5	26	1 5/16	4	5	4	1¼	18	35½	12.50
6	28	1 5/16	4½	5½	4	1¼	18	40	14.00
6½	30½	1 7/16	5	6	4½	1 5/16	20 to 22	47½	16.00
7	30½	1 7/16	5	6	4½	1⅜	24 to 26	47½	16.00
8	33½	1 7/16	5½	6½	4½	1⅜	24 to 26	51½	18.00
9	37	1 9/16	6	7	4½	1½	28 to 30	62	22.50
10	41	1 11/16	7	8	5	1⅝	32 to 38	86	28.00
11	44½	1 11/16	8	10	5	1⅝	32 to 38	133	33.50
12	48	1 11/16	10	10	5	1⅝	32 to 38	157	40.00
13	54	2 3/16	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

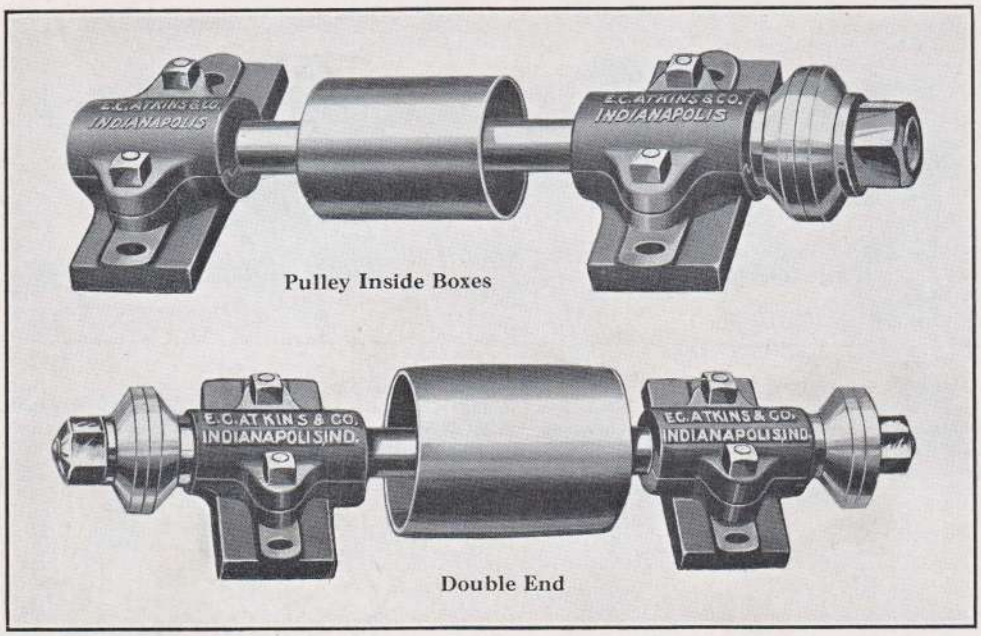


This is a specially constructed mandrel with flywheel in addition to pulley. Runs smoothly without vibration. The price does not include saws.

Extreme Length	Distance from Saw to Wheel	Diameter of Mandrel	Size of Pulley	Diameter Saw Collar	Hole in Saw	Price
38½ Inches	18½ Inches	1 5/16 Inches	7 x 7 Inches	4½ Inches	1¼ Inches	$32.00

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



PULLEY INSIDE BOXES, SINGLE END

No.	Extreme Length Inches	Diameter of Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Diameter of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	14	1 1/16	3	3	3	1	10 to 12	17½	$ 7.50
2	16	1 1/16	3	3½	3	1	10 to 12	19	8.00
3	18	1 3/16	3	4	3½	1⅛	14 to 16	27	9.00
4	20	1 3/16	3½	4½	3½	1⅛	14 to 16	29	10.00
5	22	1 5/16	4	5	4	1¼	18	34	11.50
6	24	1 5/16	4½	5½	4	1¼	18	38½	13.00
6½	26	1 7/16	5	6	4½	1 5/16	20 to 22	38½	14.50
7	26	1 7/16	5	6	4½	1⅜	24 to 26	47	14.50
8	28	1 7/16	5½	6½	4½	1⅜	24 to 26	49	16.00
9	32	1 9/16	6	7	4½	1½	28 to 30	60	20.00
10	36	1 11/16	7	8	5	1⅝	32 to 38	77	26.00

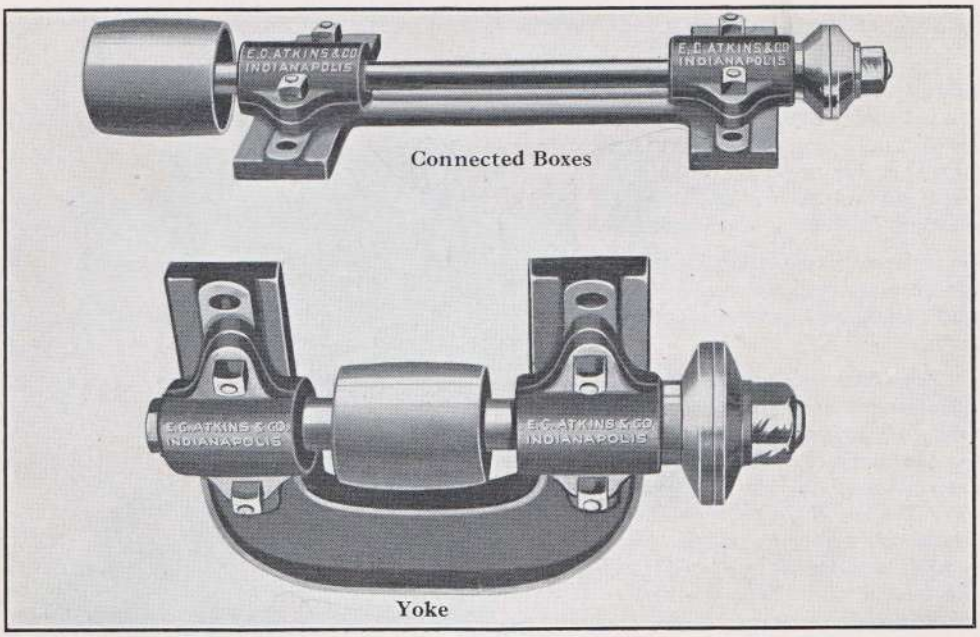
PULLEY INSIDE BOXES, DOUBLE END

No.	Extreme Length Inches	Distance from Saw to Saw on Double End Mandrels Inches	Distance from End to End of Boxes on Double End Mandrels Inches	Diam. of Arbor Inches	Diam. of Pulley Inches	Face of Pulley Inches	Diam. of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	20¼	16	13	1 1/16	3	3	3	1	10 to 12	22	$12.00
2	22¼	18	15	1 1/16	3	3½	3	1	10 to 12	23½	13.00
3	24¾	20	16	1 3/16	3	4	3½	1⅛	14 to 16	31	14.50
4	26¾	22	18	1 3/16	3½	4½	3½	1⅛	14 to 16	34½	16.00
5	28¼	23¼	19¾	1 5/16	4	5	4	1¼	18	41	18.00
6	30¼	25¼	21¾	1 5/16	4½	5½	4	1¼	18	45½	20.00
6½	32¼	26¾	22¾	1 7/16	5	6	4½	1 5/16	20 to 22	45½	22.00
7	32¼	26¾	22¾	1 7/16	5	6	4½	1⅜	24 to 26	49	22.00
8	34¼	28¾	25½	1 7/16	5½	6½	4½	1⅜	24 to 26	59	24.00
9	38¼	32½	27¾	1 9/16	6	7	4½	1½	28 to 30	65	29.00
10	42½	36	30½	1 11/16	7	8	5	1⅝	32 to 38	75	35.00

Prices as listed do not include saws.

ATKINS CIRCULAR SAW MANDRELS

CAST STEEL, SELF-OILING BOXES



CONNECTED BOXES

No.	Extreme Length Inches	Length of Frame Inches	Distance from Center to Center of Bolt Holes Inches	Diam of Arbor Inches	Diam. of Pulley Inches	Face of Pulley Inches	Diam. of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	23¼	17	13¾	15/16	3	4	3	⅞	6 to 8	24	$ 9.00
2	26¼	19	14½	1 1/16	3½	4½	3	1	10 to 12	36½	11.00
3	28½	20½	15¾	1 3/16	4	5	3½	1⅛	14 to 16	45	13.25
4	30½	22	16½	1 5/16	4½	5½	3½	1¼	18	54½	15.50
4½	33½	24	19	1 7/16	5	6	4	1 5/16	20 to 22	56	17.75
5	33½	24	19	1 7/16	5	6	4	1⅜	24 to 26	60	17.75
6	36¾	26	20¾	1 9/16	6	7	4½	1½	28 to 30	78½	20.00

YOKE

No.	End to End Boxes Inches	Diameter to Arbor Inches	Diameter of Pulley Inches	Face of Pulley Inches	Size of Collars Inches	Size of Hole in Saw Inches	Size of Saw Inches	Weight Pounds	Price Each
1	10	15/16	2½	3	3	⅞	6 to 8	18½	$ 9.00
2	14	15/16	3	4	3	⅞	6 to 8	27	10.50
3	16	1 1/16	3½	4½	3	1	10 to 12	36	12.00
4	18	1 3/16	4	5	3½	1⅛	14 to 16	45	14.00
5	20	1 5/16	4½	5½	3½	1¼	18	54½	16.00
5½	22	1 7/16	5	6	4	1 5/16	20 to 22	56½	18.00
6	22	1 7/16	5	6	4	1⅜	24 to 26	61	18.00
7	24	1 9/16	6	7	4½	1½	28 to 30	79	20.00

Prices as listed do not include saws.

MIXTER PATENT CHAMPION GUMMERS

WITH AUTOMATIC SELF-FEED

No. 1 LARGE SIZE

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

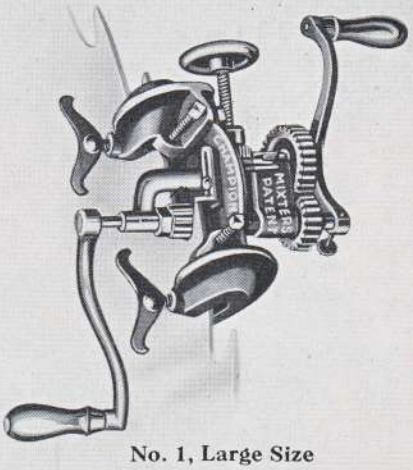
It is self-acting, throwing out of gear when the teeth are cut to the required depth, making them of uniform length.

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

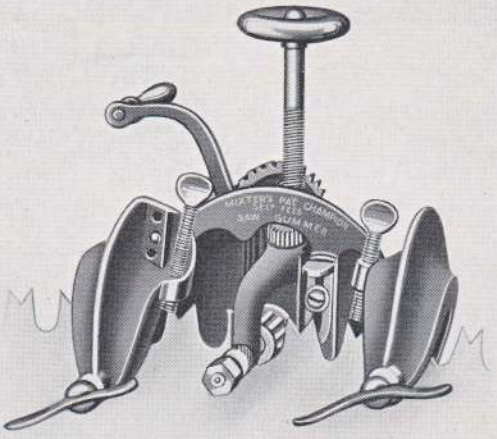
Weight, 24 pounds, packed.

No. 1 Patent Automatic Self-Feeding Gummer, including three cutters (usual size, 3/4, 7/8 and 1 inch) grinder and wrench.....$25.00

Extra arbors for 3/8, 1/2 and 5/8-inch cutter for No. 1 Champion Gummers, net.....$2.00



No. 1, Large Size



In position for Gumming Mill and Cross Cut Saws

No. 2 SMALL SIZE

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

This size is especially adapted for cross cut saws, also small and medium circular saws, etc. Shingle mills, planing mills, sash, door and blind factories, wagon and carriage, pattern and furniture shops, all need this gummer. It is also especially handy for lumbermen to carry in the woods for gumming cross cut saws. It will soon pay its cost in saving time and files.

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

Weight, boxed, 22 pounds.

No. 2 Mixter Patent Automatic Self-Feeding Champion Gummer, including three cutters, 3/8, 1/2 and 5/8 inch, grinder and wrench.....$30.00

Extra arbor for 3/8-inch cutter for No. 2 Champion Gummer, net..... 1.50

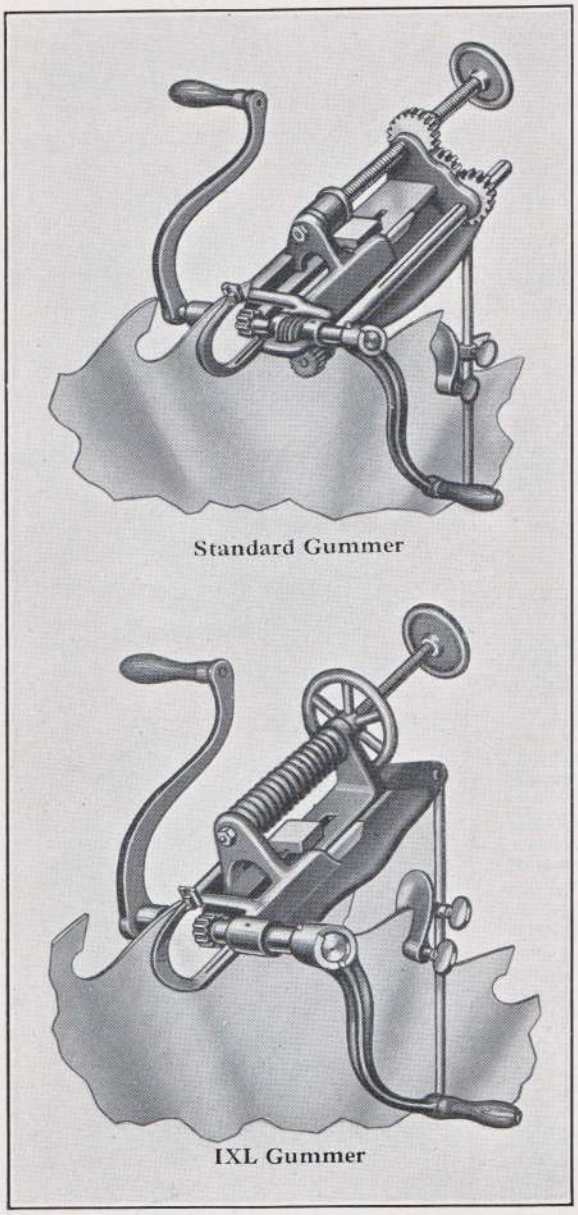
"STANDARD" AND "IXL" SAW GUMMERS

THE "STANDARD"

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

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

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



Standard Gummer

IXL Gummer

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

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

THE "IXL"

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

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

Price, complete.....$16.00
Weight (packed).....pounds 25

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

Price, complete.....$16.00
Weight (packed).....pounds 27

ATKINS GRINDERS

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

	No. 6 Grinder	No. 6-L Grinder
Length of Spindle	11″	12 9/16″
Diameter of Spindle in Bearing	3/4″	3/4″
Diameter of Spindle between Flanges	5/8″	5/8″
Length of Bearing	1 7/8″	1 7/8″
Size of Pulleys	1 7/8″ x 1 3/4″	1 7/8″ x 1 3/4″
Distance between Wheels	6 1/2″	8″
Diameter of Flanges	2 1/4″	2 1/4″
Height to Center of Spindle	5″	5″
Net Weight of Head	10 lbs.	13 lbs.
Net Weight of Column	34 lbs.	42 lbs.
Size of Column	10″ x 12″	10″ x 12″

No. 6 GRINDER

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

No. 6-L GRINDER

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

LIST PRICES

No. 6 Head only	$ 8.00
No. 6-L Head only	10.00
Extra for Rests	2.00
Extra for Wheel Guards	4.00
Extra for Column for No. 6 Grinder	18.00
Extra for Column for No. 6-L Grinder	20.00
Extra for Countershaft	15.00

APPROXIMATE SHIPPING WEIGHTS

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

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

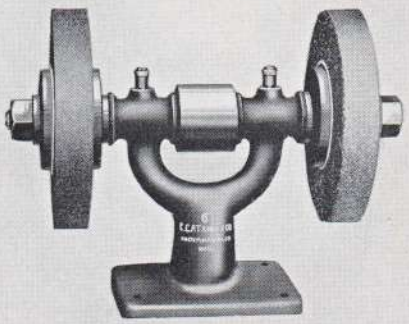
Grinding Wheels are not included but will be furnished in any size suitable for work required at lowest market prices. Give the diameter and thickness and the class of grinding for which they are to be used.

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

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

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

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



Atkins No. 6 Grinder

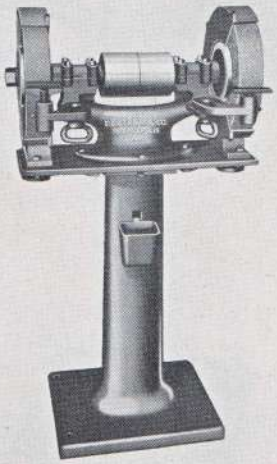
Atkins No. 6L Grinder

ATKINS GRINDERS

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

	No. 10 Grinder	No. 12 Grinder
Wheel Size	10″ x 1½″	12″ x 2″
Length of Spindle	20½″	25⅝″
Diameter Spindle in Bearing	1 1/16″	1 1/16″
Diameter Spindle between Flanges	1″	1″
Length of Bearing	3″	4″
Size of Pulleys	3½″ x 2½″	4¼″ x 3⅜″
Distance between Wheels	14″	17¾″
Diameter of Flanges	4½″	5⅞″
Height to Center of Spindle	7½″	8″
Net Weight of Head	46 lbs.	65 lbs.
Size Base of Column	14″ x 16″	15″ x 18″

Atkins No. 10 Grinder



Atkins No. 12 Grinder

No. 10 GRINDER

With or without Guards. With or without Column. Will carry two wheels 10″ x 1½″ or smaller.

No. 12 GRINDER

With or without Guards. With or without Column. Will carry two wheels 12″ x 2″ or smaller.

LIST PRICES

	No. 10 Grinder	No. 12 Grinder
Head only	$30.00	$40.00
Column only	35.00	40.00
Wheel Guards only	8.00	11.00
Countershaft only	25.00	30.00

APPROXIMATE SHIPPING WEIGHTS

	No. 10 Grinder	No. 12 Grinder
Head only (with rests)	55 lbs.	85 lbs.
Wheel Guards	30 lbs.	40 lbs.
Column	75 lbs.	85 lbs.
No. 3 Countershaft	65 lbs.	.....
No. 4 Countershaft	.....	70 lbs.

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

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

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

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

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

ATKINS GRINDERS

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

	No. 10-S Grinder	No. 14 Grinder
Wheel Size	10″ x 1½″	14″ x 2½″
Length of Spindle	14″	31″
Diameter of Spindle in Bearing	⅞″	1 5/16″
Diameter of Spindle between Flanges	¾″	1¼″
Length of Bearings	7″	5″
Size of Pulleys	3½″ x 2½″	4⅞″ x 4¼″
Distance between Wheels	...	22″
Diameter of Flanges	3⅜″	6⅞″
Height to Center of Spindle	8″	8½″
Net Weight of Head	29 lbs.	104 lbs.
Size of Base of Column	12″ x 14″	18″ x 22″

No. 10-S GRINDER

Single end only. With or without Guard. With or without Column. Will carry one wheel 10″ x 1½″ or smaller.

No. 14 GRINDER

With or without Guards. With or without Column. Will carry two wheels 14″ x 2½″ or smaller.

LIST PRICES

	No. 10-S Grinder	No. 14 Grinder
Head only	$20.00	$55.00
Column only	35.00	55.00
Wheel Guards only (one only)	6.00	15.00
Countershaft	25.00	30.00

APPROXIMATE SHIPPING WEIGHTS

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

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

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

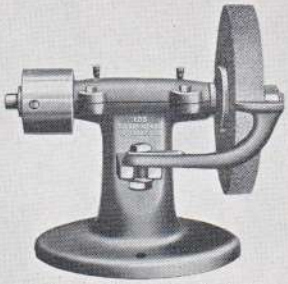
All machines are equipped with nickel-plated oil cups and have oil chambers sufficiently large to avoid the necessity of oiling more than twice a week, even when the grinder is in constant use.

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

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

COUNTERSHAFTS

	No. 1	No. 3	No. 4
Size of Drive Pulley	8″ x 2″	10″ x 3½″	12″ x 4″
Size of Tight and Loose Pulleys	4″ x 2″	5″ x 3″	5″ x 3″
Length of Shaft	18″	24″	26″
Diameter of Shaft	⅞″	1 1/16″	1 1/16″
Drop of Hangers	6″	8″	8″
Length of Bearings	3¼″	4″	4″
For Use with Machine Numbers	6 and 6-L	10 and 10S	12 and 14
List Prices	$15.00	$25.00	$30.00



Atkins No. 10 S Grinder

Atkins No. 14 Grinder

ATKINS ACROLITE AND FERROLITE WHEELS

ACROLITE

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

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

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

Acrolite Wheel

Ferrolite Wheel

Acrolite Wheels are particularly adapted for grinding materials of high tensile strength such as saws, knives, woodworking tools, milling cutters, reamers, shears, shear blades, planer tools, lathe tools, steel castings, forgings, soft malleable iron, etc.

FERROLITE

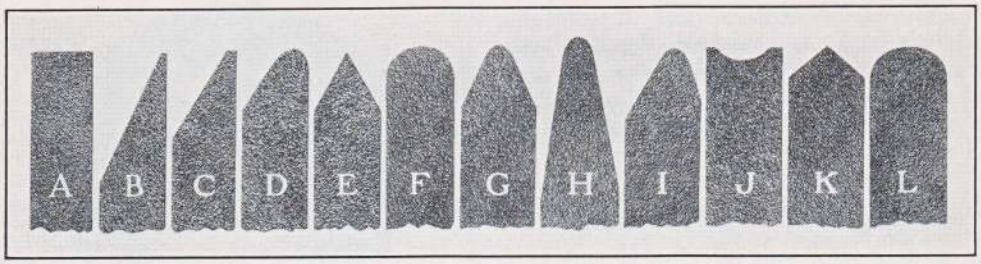
Ferrolite is chemically known as Carbide of Silicon. It is a chemical combination of the two elements, Carbon and Silicon. It is produced from a mixture of coke-salt-sawdust and sand by fusion in an electric furnace at a temperature of about 4000° F. After cooling the resultant mass is crushed into grains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

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

PROCESS OF MANUFACTURE

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

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



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

Acrolite wheels can, however, be supplied in any grain or grade desired to suit the particular requirements of any user.

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

Class of Work	Process of Manufacture	No. of Grain or Degree of Coarseness Usually Furnished	Grade Letters or Degree of Hardness Usually Furnished
WOODWORKING BITS—			
Hand	Elastic	36 to 60	5
Hand	Vitrified	60 to 120	M to N
KNIVES—			
Hog, automatic	Silicate	30 to 46	I to J
Jointer, hand	Silicate	36 to 60	K
Leather Splitting, automatic	Elastic	30 to 36	1½
Leather Shaving, automatic	Vitrified	46	O to P
Meat Chopping, hand	Silicate	20 to 60	M
Molding, hand	Vitrified	36 to 60	K to M
Paper, automatic	Silicate	30	J
Planer, automatic	Silicate	30 to 36	J
Planer Slots, hand	Elastic	16 to 20	I
(In back of)—			
Glidden, automatic	Elastic	60	2
Leather Skiving, automatic	Elastic	60	2
Rag, automatic	Silicate	30 to 36	I to J
Shear, automatic	Silicate	24 to 36	L to N
Slitter, hand	Vitrified	36 to 60	K
Sticker, hand	Vitrified	36 to 60	K
Cigarette, automatic	Silicate	36	J
Veneer, automatic	Silicate	30	J
SAWS—			
Metal, Dish Wheels, automatic	Vitrified	36 to 46	K to M
Metal (Hot), Plain Wheels, automatic	Vitrified	36 to 46	K to M
Tube (Hot), Plain Wheels, automatic	Vitrified	60	P
Metal (Cold), Plain Wheels, automatic	Vitrified	46 to 60	M to O
Cold Saw Inserted Teeth	Vitrified	36 to 46	K to L
Metal (Slotting), Plain Wheel, automatic	Elastic	60 to 80	4 to 5
Wood (Band), Plain Wheels, automatic	Vitrified	36 to 46	L to M
Metal (Band), Plain Wheels, automatic	Elastic	80 to 150	4
Wood (Circular), Plain Wheels, automatic	Vitrified	36 to 46	L to M
Slate (Circular), Plain Wheels, automatic	Vitrified	36 to 60	L to M
Wood (Heavy Band Large Tooth Space), concave automatic	Elastic	30	4

ATKINS ACROLITE AND FERROLITE WHEELS

STANDARD GRADE LIST

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

E ..... Soft
F
G
H
I ..... Medium Soft
J
K
L
MEDIUM ..... M ..... MEDIUM
N
O
P
Medium Hard ..... Q
R
S
T
Hard ..... U
V
W
X
Extremely Hard ..... Y
Z

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

Elastic Wheels are graded as follows: ½, ¾, 1, 1½, 2, 2½, 3, 3½, 4, 4½, 5, 6 and 7, grade ½ is the softest and grade 7 the hardest.

TABLE FOR SELECTION OF GRADES

Class of Work	Acrolite		Ferrolite	
	Grain	Grade	Grain	Grade
Cast Iron—Heavy Castings	16 to 20	Q to R	16 to 24	Q to S
Drills—Twist Point Grinding				
Larger Wheels	36 to 46	K to M	.....	.....
Smaller Wheels	46 to 60	J to M	.....	.....
Internal Grinding—Hardened Steel				
Wheels 4 inches or over	36 to 46	J to M	.....	.....
Wheels under 4 inches	46 to 60	I to M	.....	.....
Internal Grinding—Cast Iron				
Wheels 4 inches or over	.....	.....	30	I to M
Wheels under 4 inches	.....	.....	36 to 60	H to K
Saws—Machine Shop—General Work				
Wheels 10 inches or over	24 to 46	P to Q	.....	.....
Wheels under 10 inches	46 to 60	M to O	.....	.....
Milling Cutters—High-Speed Steel	46 to 60	I to M	.....	.....
Malleable Castings—Annealed				
Large	14 to 20	P to U	.....	.....
Small (vitrified)	20 to 30	P to R	.....	.....
Saw Gumming	30 to 46	L to M	.....	.....
Steel Castings (elastic or shellac)				
Large	10 to 20	Q to W	.....	.....
Small	20 to 30	P to R	.....	.....
Steel—Soft Cylindrical				
Large	30 to 60	L to O	.....	.....
Small	30 to 60	K to P	.....	.....
Hardened Cylindrical	46 to 60	J to L	.....	.....
Soft Surfacing	16 to 36	H to K	.....	.....
Hardened Surfacing	16 to 46	H to K	.....	.....
Stove Castings				
Roughing	.....	.....	14 to 24	Q to S
Finishing	.....	.....	60 to 80	P to Q
Taps	46 to 60	K to O	.....	.....
Tools—Lathe and Planer				
Roughing	20 to 30	P to Q		
Finishing	36 to 60	O to P	.....	.....
High-Speed Tools	46 to 60	M to N	.....	.....
Knives				
Hog	24 to 60	J	.....	.....
Paper	30	J or K	.....	.....
Planer	30	J	.....	.....
Moulding	36	L or M	.....	.....
Cold Metal Cutting	46	O to Q	.....	.....
Metal Steeling	60	P	.....	.....

LIST PRICES—STRAIGHT WHEELS

SUBJECT TO DISCOUNT

VITRIFIED AND SILICATE

Diameter	Thickness of Wheels in Inches																	
	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾
1	$ .55	$ .65	$ .70	$ .75	$ .85	$ .90	$1.00	$1.15	$1.25	$1.40	$1.55	$1.70	$1.85	$2.00	$2.15	$2.25	$2.40	$2.55
1½	.60	.70	.80	.85	.95	1.00	1.10	1.30	1.45	1.65	1.80	2.00	2.15	2.35	2.50	2.70	2.85	3.05
2	.80	.90	1.00	1.10	1.20	1.30	1.40	1.60	1.80	2.00	2.20	2.35	2.55	2.75	2.95	3.15	3.35	3.55
2½	.90	1.05	1.15	1.25	1 35	1.45	1.55	1.80	2.00	2.25	2.45	2.70	2.90	3.15	3.35	3.60	3.80	4.00
3	1.00	1.15	1.25	1.40	1.50	1.65	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50
3½	1.15	1.30	1.45	1.60	1.70	1.85	1.95	2.25	2.50	2.80	3.05	3.35	3.60	3.90	4.15	4.45	4.70	5.00
4	1.40	1.50	1.70	1.85	2.00	2.20	2.35	2.70	3.00	3.35	3.70	4.10	4.45	4.80	5.10	5.45	5.75	6.10
4½	1.60	1.75	2.00	2.20	2.35	2.60	2.80	3.20	3.55	3.95	4.35	4.80	5.20	5.60	6.00	6.40	6.75	7.15
5	1.80	2.00	2.30	2.50	2.70	2.95	3.20	3.65	4.10	4.55	5.00	5.45	5.90	6.35	6.85	7.30	7.70	8.15
6	2.30	2.60	2.90	3.20	3.50	3.80	4.10	4.70	5.30	5.90	6.50	7.10	7.70	8.40	9.00	9.60	10.20	10.80
7	2.75	3.15	3.55	3.90	4.30	4.75	5.15	5.85	6.70	7.50	8.25	9.00	9.85	10.70	11.50	12.25	13.00	13.75
8	3.25	3.75	4.25	4.75	5.30	5.75	6.25	7.25	8.30	9.30	10.30	11.30	12.35	13.35	14.40	15.40	16.45	17.50
9	3.70	4.35	5.00	5.60	6.25	6.80	7.45	8.70	10.10	11.40	12.70	14.00	15.25	16.50	18.00	19.50	21.00	22.50
10	4.30	5.15	5.90	6.70	7.45	8.20	9.00	10.50	12.25	14.00	15.75	17.50	19.25	21.00	22.75	24.50	26.25	27.50
12	5.50	6.20	7.25	8.25	9.35	10.40	11.50	13.75	15.75	17.85	20.00	22.35	24.75	27.25	29.50	31.90	34.25	36.50
14	.....	.....	9.30	10.80	12.30	13.80	15.25	18.25	21.20	24.20	27.15	30.35	33.60	36.85	40.00	43.30	46.50	49.75
16	.....	.....	.....	.....	15.75	17.75	19.75	23.75	27.70	31.70	35.70	39.60	43.55	47.45	51.35	55.25	59.20	63.10
18	.....	.....	.....	.....	.....	.....	24.35	29.40	34.50	39.50	44.50	49.20	53.90	58.55	63.25	68.00	72.65	77.30
20	.....	.....	.....	.....	.....	.....	.....	36.10	42.00	47.75	53.75	59.40	65.00	70.70	76.40	82.00	87.70	93.35
22	.....	.....	.....	.....	.....	.....	.....	44.45	51.60	58.75	65.90	73.00	80.00	87.00	94.00	101.00	108.00	115.10
24	.....	.....	.....	.....	.....	.....	.....	53.00	61.00	70.00	78.00	87.00	95.00	104.00	112.00	120.00	129.00	137.00
26	.....	.....	.....	.....	.....	.....	.....	60.00	70.00	80.00	90.00	101.00	111.00	122.00	133.00	143.00	154.00	165.00
28	.....	.....	.....	.....	.....	.....	.....	69.00	83.00	97.00	111.00	123.00	136.00	148.00	160.00	171.00	183.00	194.00
30	.....	.....	.....	.....	.....	.....	.....	78.00	92.00	107.00	121.00	135.00	149.00	164.00	178.00	192.00	206.00	221.00
32	.....	.....	.....	.....	.....	.....	.....	.....	107.00	124.00	141.00	158.00	175.00	192.00	210.00	225.00	240.00	255.00
34	.....	.....	.....	.....	.....	.....	.....	.....	123.00	143.00	162.00	182.00	201.00	221.00	240.00	256.00	273.00	289.00
36	.....	.....	.....	.....	.....	.....	.....	.....	142.00	164.00	185.00	207.00	229.00	248.00	266.00	285.00	303.00	322.00

SHELLAC AND RUBBER

Diameter	Thickness of Wheels in Inches																		
	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4
1	$ .50	$ .55	$0.70	$0.75	$ .80	$ .90	$ .95	$1.00	$1.20	$1.35	$1.50	$1.65	.....	.....	.....	.....	.....	.....	.....	.....
1½	.55	.65	.80	.90	.95	1.05	1.10	1.20	1.40	1.60	1.80	1.95	.....	.....	.....	.....	.....	.....	.....	.....
2	.70	.80	.90	1.00	1.10	1.20	1.30	1.40	1.60	1.85	2.10	2.35	$2.60	$2.85	$3.10	$3.35	.....	.....	.....	.....
2½	.80	.90	1.10	1.20	1.30	1.40	1.50	1.60	1.80	2.10	2.45	2.75	3.05	3.40	3.70	4.00	.....	.....	.....	.....
3	.90	1.00	1.25	1.35	1.45	1.60	1.70	1.80	2.10	2.50	2.90	3.30	3.70	4.10	4.50	4.90	$5.30	$5.70	$6.10	$6.50
3½	1.05	1.15	1.50	1.60	1.75	1.85	2.00	2.10	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
4	1.25	1.35	1.75	1.90	2.10	2.25	2.45	2.60	3.15	3.75	4.35	4.95	5.55	6.15	6.75	7.35	7.95	8.55	9.15	9.75
4½	1.40	1.55	2.00	2.30	2.55	2.80	3.10	3.40	4.00	4.75	5.45	6.20	6.90	7.65	8.35	9.10	9.80	10.55	11.30	12.00
5	1.60	1.80	2.25	2.70	3.10	3.50	4.00	4.40	5.00	5.90	6.80	7.75	8.65	9.55	10.45	11.35	12.25	13.20	14.10	15.00
6	2.00	2.30	2.75	3.40	4.00	4.65	5.25	5.90	6.50	7.60	8.70	9.75	10.85	11.95	13.05	14.15	15.25	16.30	17.40	18.50
7	2.50	2.80	3.40	4.20	5.00	5.80	6.60	7.40	8.00	9.30	10.60	11.90	13.20	14.50	15.80	17.10	18.40	19.70	21.00	22.30
8	3.00	3.40	4.10	5.10	6.00	7.00	8.00	9.00	9.50	11.00	12.50	14.00	15.55	17.00	18.55	20.00	21.60	23.10	24.60	26.10
9	3.50	4.00	4.90	6.00	7.20	8.40	9.55	10.70	11.00	12.70	14.50	16.20	17.90	19.65	21.40	23.10	24.80	26.55	28.25	30.00
10	4.00	4.65	5.80	7.15	8.50	9.80	11.15	12.50	13.00	14.90	16.80	18.75	20.65	22.55	24.45	26.40	28.30	30.20	32.10	34.00
12	5.00	5.65	7.00	8.70	10.40	12.10	13.80	15.50	17.50	20.25	23.00	25.80	28.60	31.35	34.15	36.90	39.70	42.45	45.25	48.00
14	6.00	6.65	8.50	10.70	12.90	15.10	17.30	19.50	24.00	27.90	31.80	35.75	39.65	43.55	47.45	51.35	55.30	59.20	63.10	67.00
16	8.00	8.50	11.00	13.70	16.40	19.10	21.80	24.50	30.50	35.45	40.40	45.35	50.30	55.30	60.25	65.20	70.15	75.10	80.00	85.00
18	.....	10.00	15.00	18.00	21.00	24.00	27.00	30.00	37.00	43.00	49.00	55.00	61.00	67.00	73.00	78.00	84.00	90.00	96.00	102.00
20	.....	13.00	20.00	23.00	26.00	29.00	32.00	35.00	44.00	51.00	58.00	65.00	72.00	79.00	85.00	92.00	99.00	106.00	113.00	120.00
22	.....	.....	.....	28.00	31.00	35.00	38.00	42.00	52.00	60.00	68.00	76.00	84.00	92.00	100.00	108.00	116.00	124.00	132.00	140.00
24	.....	.....	.....	33.00	37.00	41.00	45.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00
26	.....	.....	.....	.....	.....	49.00	54.00	59.00	70.00	82.00	94.00	106.00	117.00	129.00	141.00	153.00	164.00	176.00	188.00	200.00
28	.....	.....	.....	.....	.....	57.00	62.00	68.00	81.00	95.00	108.00	122.00	135.00	149.00	163.00	176.00	190.00	203.00	217.00	231.00
30	.....	.....	.....	.....	.....	.....	.....	78.00	93.00	109.00	124.00	140.00	155.00	171.00	186.00	202.00	218.00	234.00	250.00	265.00
32	.....	.....	.....	.....	.....	.....	.....	90.00	108.00	126.00	144.00	162.00	180.00	198.00	215.00	233.00	251.00	269.00	287.00	305.00
34	.....	.....	.....	.....	.....	.....	.....	105.00	125.00	146.00	166.00	187.00	207.00	227.00	248.00	268.00	289.00	309.00	330.00	350.00
36	.....	.....	.....	.....	.....	.....	.....	125.00	149.00	173.00	196.00	220.00	244.00	267.00	291.00	315.00	339.00	362.00	386.00	410.00

CUP WHEELS FOR KNIFE GRINDING

CUP WHEEL

Machine	D	W	H	R	B	List
American Woodworking Machine Co.	8	4½	1	1	1	$20.70
Baldwin, Tuthill & Bolton	12	4	1	1¼	1	34.95
Baldwin, Tuthill & Bolton	8	3½	1	¾	¾	16.45
Baldwin, Tuthill & Bolton	6	3	1	¾	¾	9.00
J. A. Fay & Egan Co	8	4½	1½	1	1	20.70
Northampton Emery Wheel Co.	9	4	3¾	1	¾	21.70
Buffalo Knife Grinders	8	3½	1½	1¼	1	16.45
Buffalo Knife Grinders	12	4	2	1¼	1	34.95
Buffalo Knife Grinders	10	3½	1½	1¼	1	26.25
Buffalo Knife Grinders (Bench)	6	3	1	1	1	9.00
The Bridgeport Safety Emery Wheel Co.	20	8	13½	2	1¼	165.35
The Bridgeport Safety Emery Wheel Co.	20	8	4	2	1¼	165.35
The Bridgeport Safety Emery Wheel Co.	24	8	3	2	1¼	217.70
The Bridgeport Safety Emery Wheel Co.	24	8	17	2	1¼	217.70
Diamond Machine Co.	14	4	9½	2	½	46.35
Diamond Machine Co.	14	3⅝	12	Ring	....	35.15
The Safety Emery Wheel Co.	20	8	16	Ring	....	140.80
The Springfield Mfg. Co.	11⅞	5	8⅞	Ring	....	42.40
The Springfield Mfg. Co.	15⅞	5	12⅞	Ring	....	60.10
Capitol Machine Co.	14	7	1¾	1½	1⅛	78.60
Hall & Brown Woodworking Machine Co.	8	4	1¼	1	1½	17.10
Hanchett Swage Works	8	3½	1	1	1	16.45
Hanchett Swage Works	10	4	1	1	1	26.35
Hanchett Swage Works	12	4	1	1	1	33.30

FLARE SIDE CUP WHEEL

Machine	D	W	H	R	B	List
S. A. Woods (No. 227 Side Head Grinder)	6	2½	¾	¼	¾	$7.70
American Woodworking Machine Co.	6	2½	¾	¼	¾	7.70
J. A. Fay & Egan Co.	6	1½	1⅛	⅜	⅜	5.30

YATES SIDE HEAD GRINDER

Machine	D	W	H	R	B	List
P. B. Yates Machine Co. (Side Head Grinder No. 137)	8	1 3/16	1	1/16	⅝	$9.30

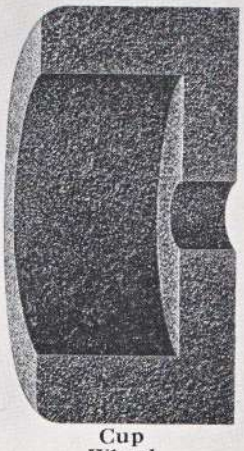
ACROLITE AND FERROLITE BRICKS

Size	List Price per Dozen	Size	List Price per Dozen
4 x 1 x ¼	$2.40	6 x 2 x 2	$13.80
4 x 1 x ½	2.40	6 x 3 x 2	19.20
4 x 2 x ½	3.60	6 x 3 x 3	27.00
4 x 2 x 1	6.00	8 x 2 x 1	9.60
4 x 2 x 2	9.60	8 x 2 x 2	17.40
4 x 3 x 2	13.80	8 x 3 x 2	22.80
4 x 3 x 3	19.20	8 x 3 x 3	36.00
4 x 4 x 4	33.00	8 x 4 x 2	33.00
6 x 2 x ½	5.40	8 x 4 x 3	45.60
6 x 2 x 1	7.20	8 x 4 x 4	60.00

ACROLITE AND FERROLITE JOINTER STONES

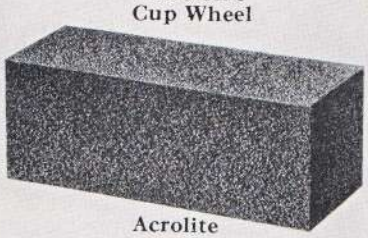
No.	Size	List per Doz.	No.	Size	List per Doz.
.....	1½x¾x½	$3.60	.....	4x¾x 5/16 Bevel end	$4.20
.....	1¾x¾x½	3.60	.....	4 x⅞x 3/16	4.20
.....	2½x 33/32 x¼ Bevel	4.20	.....	4 x⅞x¼	4.20
.....	2¾x¾x¾	4.20	.....	4 x1 Round	6.60
.....	3 x¾x½	4.20	.....	4 x1 x⅜	4.80
.....	3 x¾x 5/16	4.20	.....	4 x1½x½	6.60
.....	3 x¾x¾	4.80	.....	4 x2½x¾	12.00
.....	3 x 1 x½	4.20	.....	4 x3½x¾	15.00
.....	3 x 1 x¾	4.80	.....	4 x2 x¾	12.00
.....	3⅝x1¼x⅜ Taper	5.40	.....	6 x3½x¾	19.20
.....	4 x¾x¼	4.20	.....	6¼x3 x¾	18.00
.....	4 x¾x¾	5.40			

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

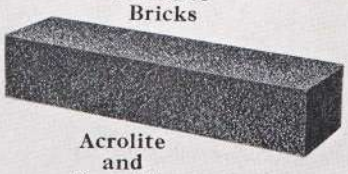


Cup Wheel

Flare Side Cup Wheel



Acrolite and Ferrolite Bricks



Acrolite and Ferrolite Jointer Stones

STANDARD SHAPES OF WHEELS FOR SAW GUMMING

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

WHEELS FOR KNIFE GRINDING

STRAIGHT WHEEL

Machine	D	T	H	List
The Bridgeport Safety Emery Wheel Co.	36	2	24	$185.00
The Springfield Mfg. Co	26	1½	12	70.00
The Springfield Mfg. Co	36	2	24	185.00
Carver Cotton Gin Co	26	1½	6	68.95
Carver Cotton Gin Co	26	1½	1½	70.00
The Defiance Machine Works	22	1½	2	51.60
J. A. Fay & Egan Co	16	¾	1 7/16	15.75
J. A. Fay & Egan Co	24	1½	10	56.10
Hall & Brown Woodworking Machine Co.	22	1½	1¾	51.60
Hanchett Swage Works	26	1½	2	70.00
Hanchett Swage Works	8	½	1	4.25
The W. O. Hickok Mfg. Co	22	1½	1⅝	51.60
E. & B. Holmes Machinery Co	16	1¼	1¼	23.75
Northampton Emery Wheel Co	26	1½	2½	70.00
The Seybold Machine Co	30	1½	16	80.90
The Seybold Machine Co	30	1 1/16	16	68.50
The S. A. Woods Machine Co	26	1½	6	68.95
American Woodworking Machine Co	26	1½	15	61.50
American Woodworking Machine Co	22	1½	1¾	51.60
American Woodworking Machine Co	4	1	¾	2.35
American Woodworking Machine Co	5	1	¾	3.20
American Woodworking Machine Co	6	1	1⅛	4.10
Baldwin, Tuthill & Bolton	26	1½	1¾	70.00

RAISED FLANGE WHEEL

Machine	D	T	H	List
The Bridgeport Safety Emery Wheel Co.	26	1½	12	$ 70.00
The Bridgeport Safety Emery Wheel Co.	36	2	24	185.00
The Safety Emery Wheel Co	36	2	24	185.00
The Safety Emery Wheel Co	26	1½	9	70.00
The Springfield Mfg. Co	26	1½	12	70.00
The Springfield Mfg. Co	36	2	24	185.00
P. B. Yates Machine Co	26	1½	12	70.00

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

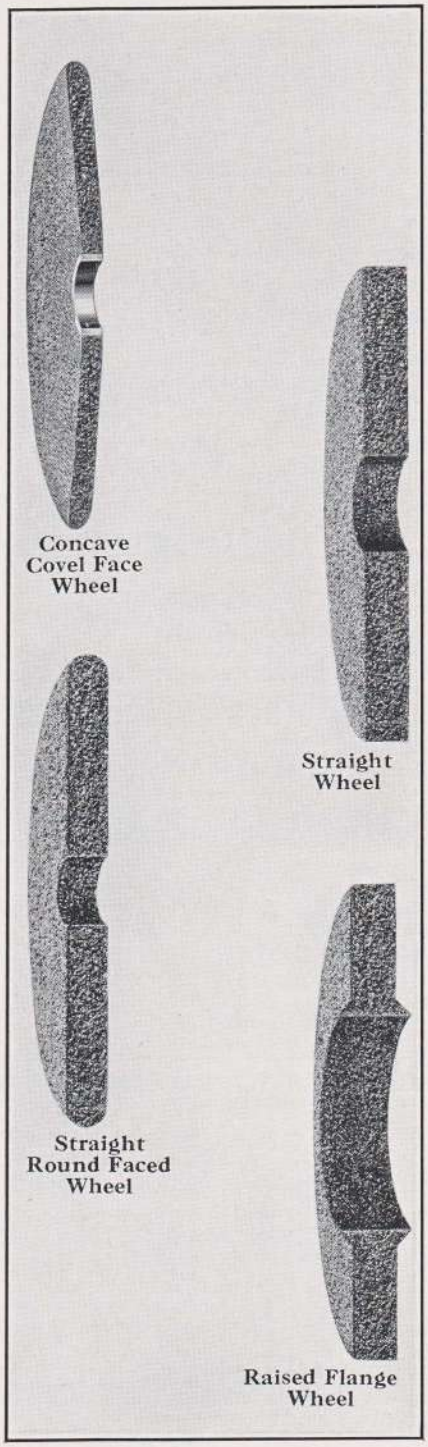
We turn wheels to any desired shape. When special shapes are required a diagram should accompany the order.

* All wheels furnished with square face unless otherwise ordered.

SUGGESTIONS FOR ORDERING

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

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



ATKINS SPECIALTIES

Gummer Cutter

Emery Wheel Dresser

GUMMER CUTTERS

For Mixter's Standard, I.X.L., Boss and Disston's Gummers. When ordering give make of gummer.

Size.....inches	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4
Weight, each.....ounces	1/4	1/2	3/4	1	1 3/4	2	2 1/2	3 1/2	5 1/4	7 1/4
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

Size.....inches	3/4	7/8	1
Price.....each	$0.55	$0.60	$0.65

Approximate weight, 3/4 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.

Price.....each	$0.75
Price, cutters.....per set	.15

Weight, complete, 1 5/8 pounds, each; cutters, only 7/8 pound, per dozen.

IMPROVED CUTTER GRINDERS

Grind cutters perfectly round and true.

Price.....each	$2.00

Weight, 1 3/8 pounds, each.

CANTOL BELT WAX

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

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

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

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

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

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

CANTOL BELT WAX IS KNOWN BY THIS
REGISTERED TRADE MARK

CANTOL BELT WAX

PASTE

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

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

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

BAR

Cantol Belt Wax pound bars are packed 1 doz. per carton (6 doz. per case). It is preferred where belt slip must be stopped quickly without using rosin or other injurious material. It does not melt under 217° Fahr., so is not affected by condensed steam and will not "run" if left in the sun. It is purposely made hard. A little goes a long ways. One carton goes as far as 25 lbs. of stockyard-grease dressing. List 50c per lb.

STICK

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

LIQUID

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

"Wax Your Belts" with Cantol

10 Pound Pail Cantol
(Paste Form)

1 Pound Bar

5 Pound Can Cantol
(Paste Form)

2 Ounce Stick Cantol

30 or 50 Gallon Drum
(Paste or Liquid Form)

ATKINS MACHINE KNIVES

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

MODERN MANUFACTURING METHODS

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

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

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

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

VARIOUS KINDS OF KNIVES

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

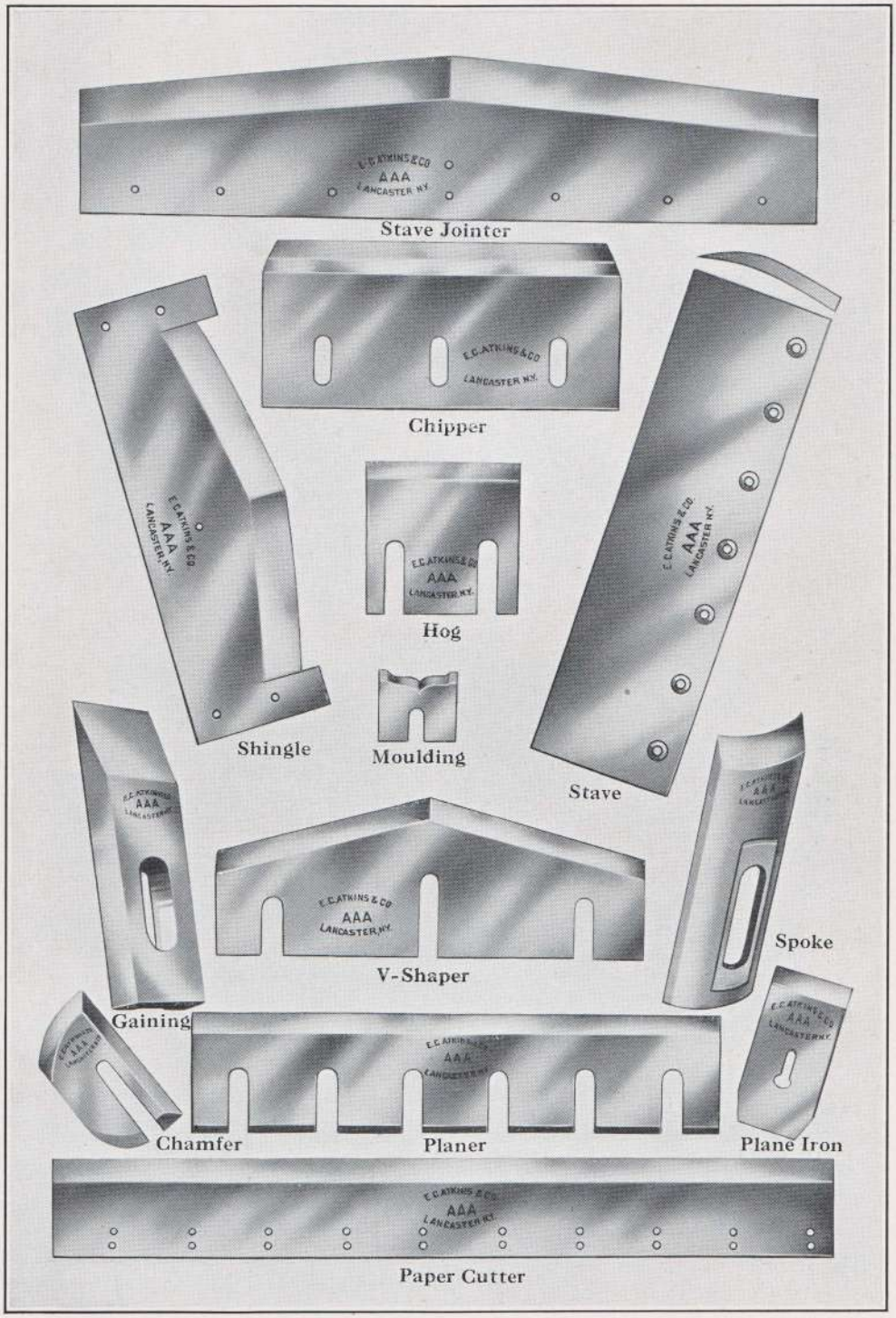
HOW TO ORDER MACHINE AND OTHER KNIVES

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

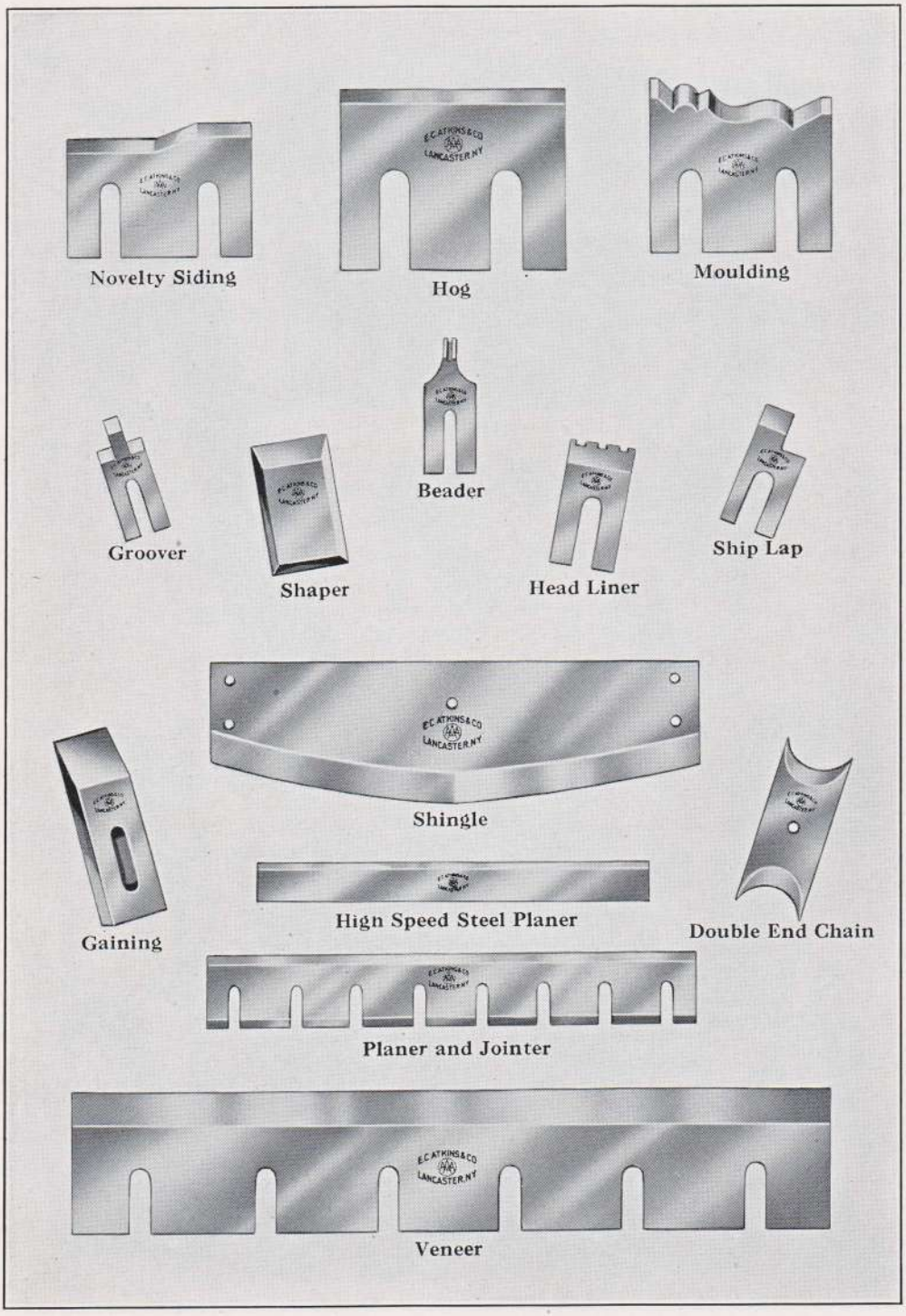
KNIFE INFORMATION

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

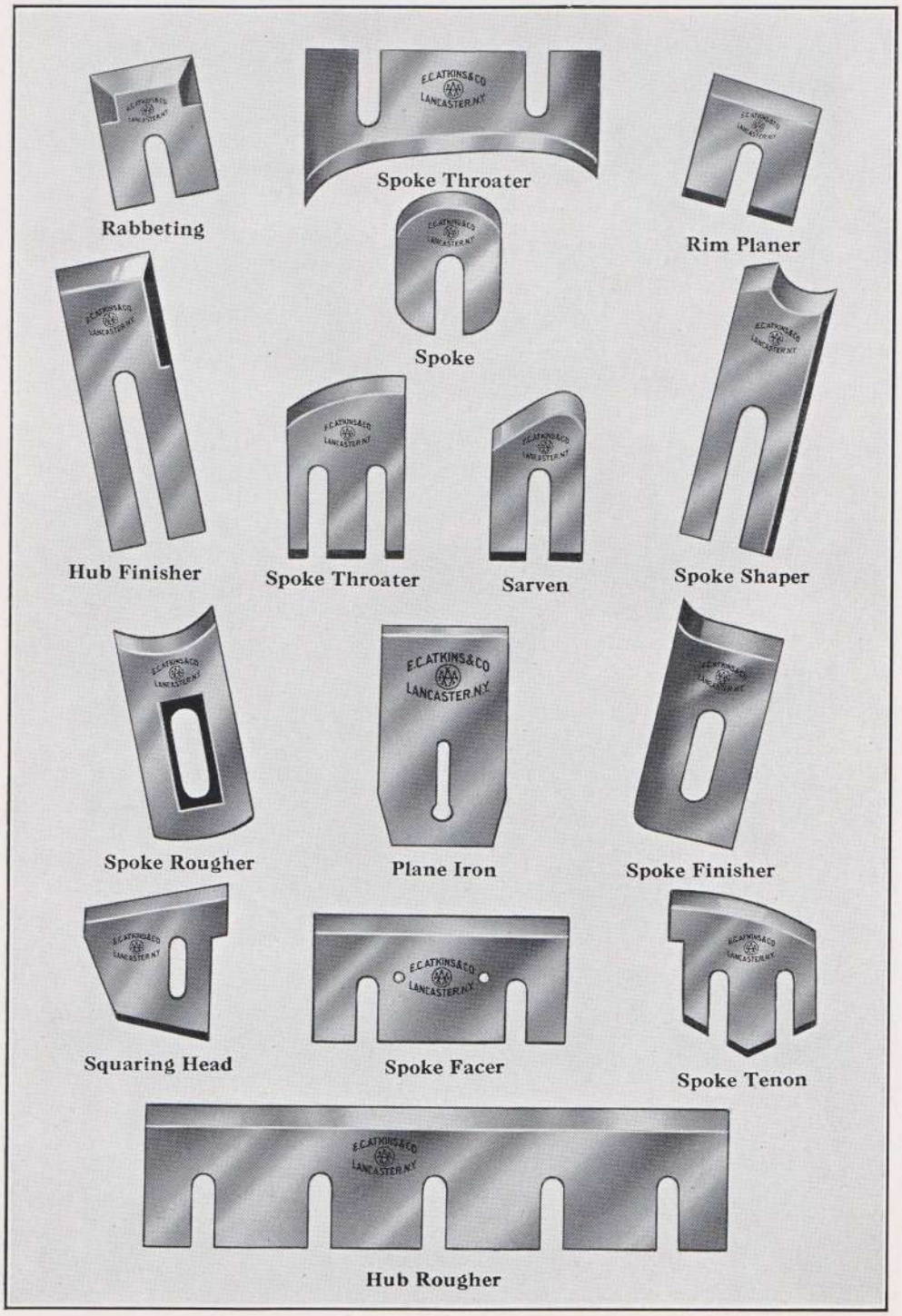
ATKINS MACHINE KNIVES



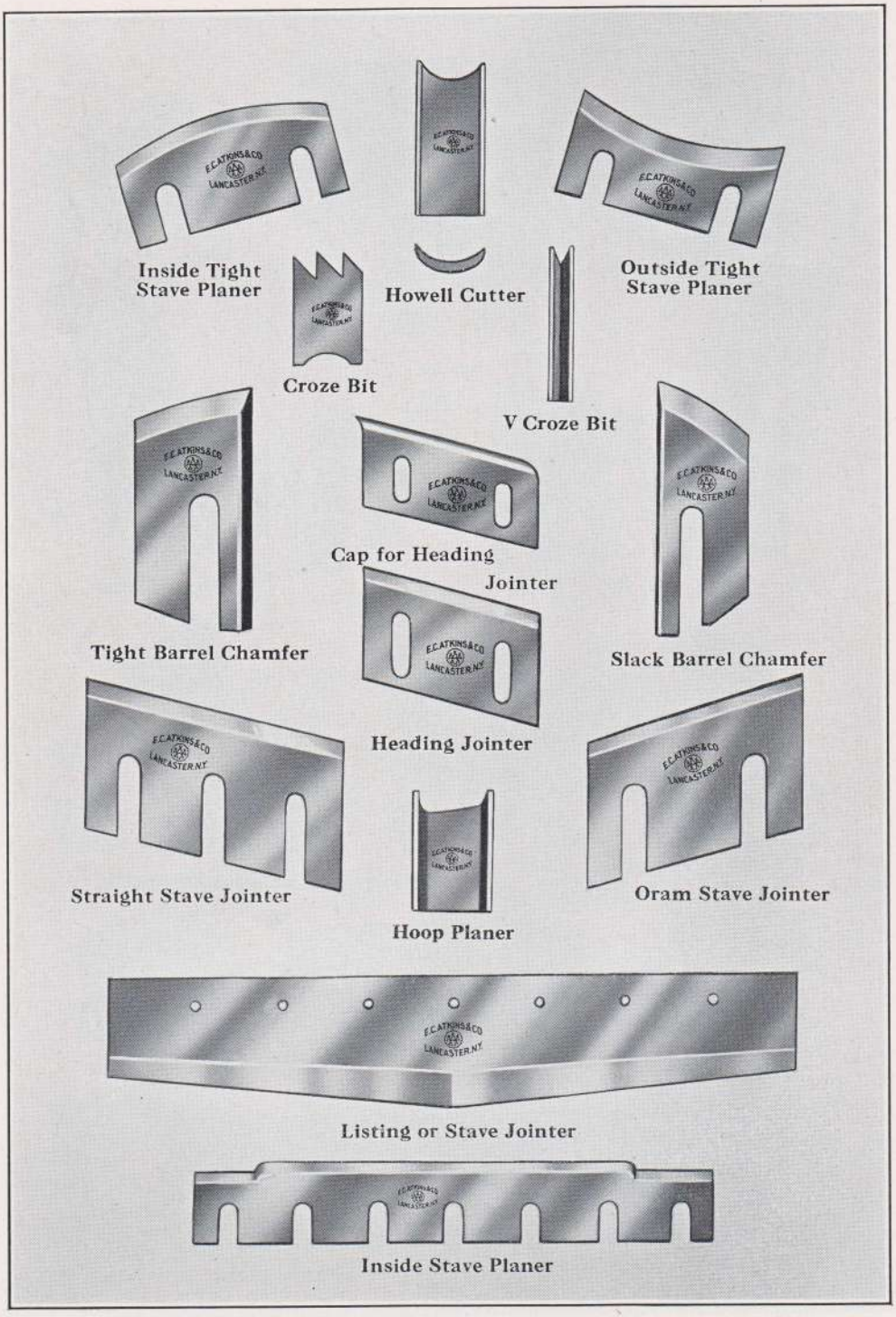
ATKINS MACHINE KNIVES



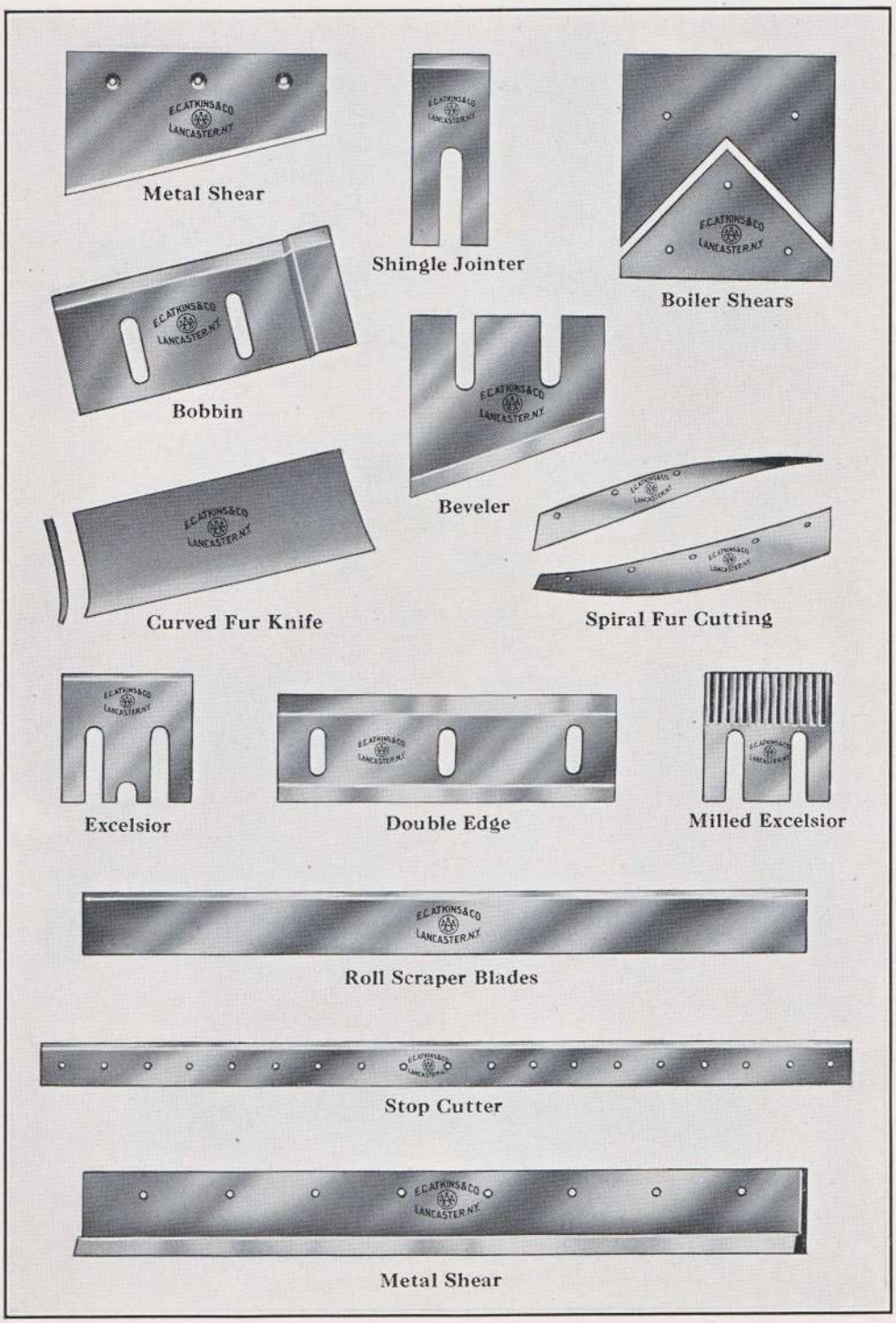
ATKINS MACHINE KNIVES



ATKINS MACHINE KNIVES



ATKINS MACHINE KNIVES



ATKINS MACHINE KNIVES

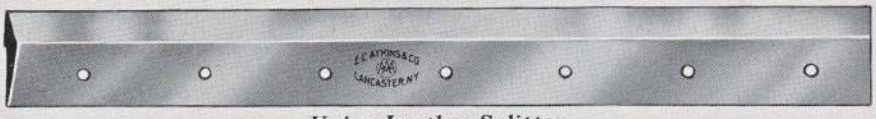
Holbrook Barkmill

Single Bevel Leather Splitter

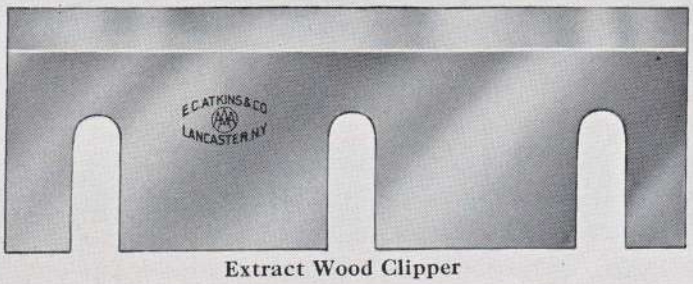
Ott Barkmill

Double Bevel Leather Splitter

Skiving

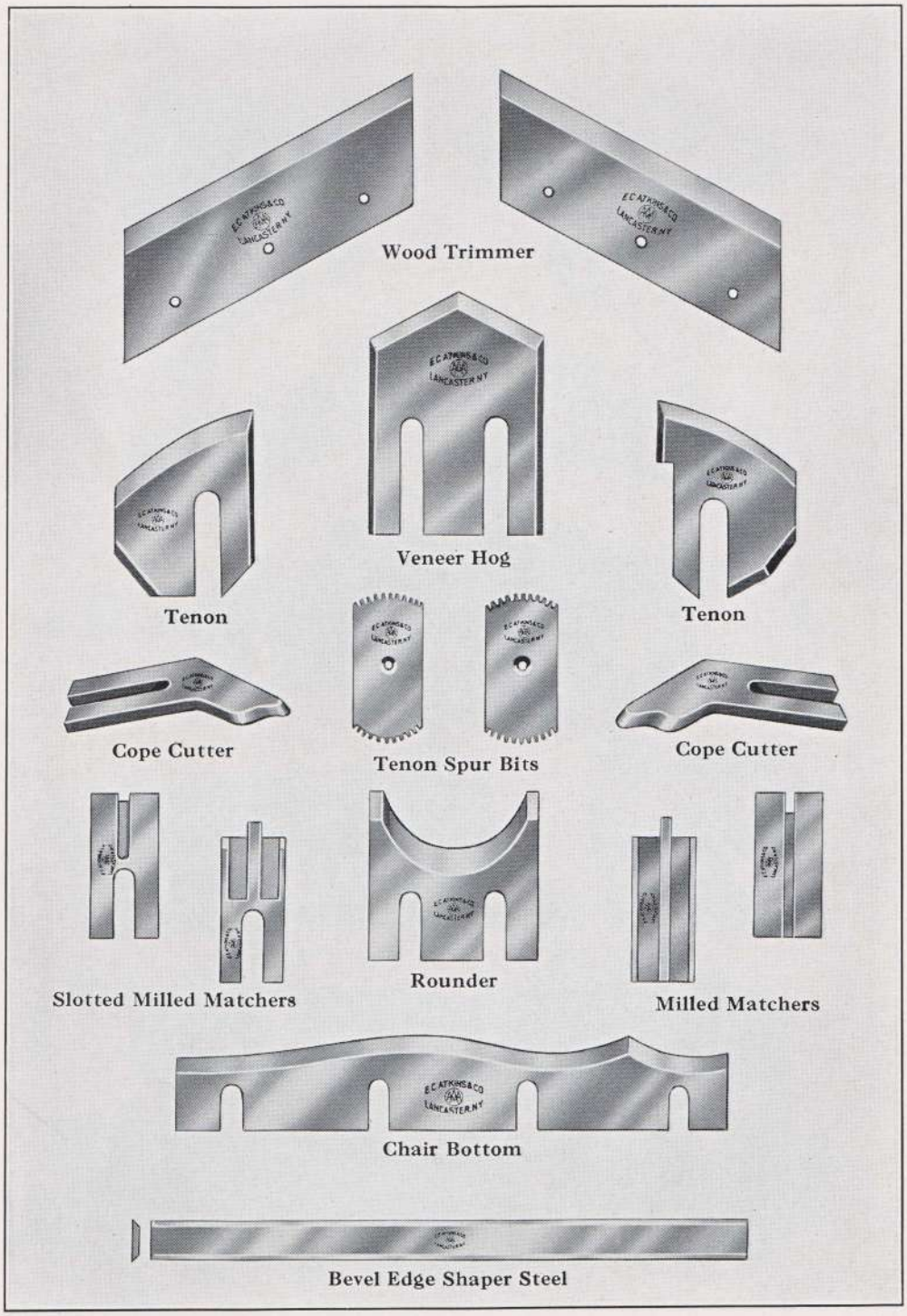


Union Leather Splitter



Extract Wood Clipper

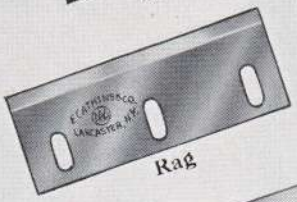
ATKINS MACHINE KNIVES



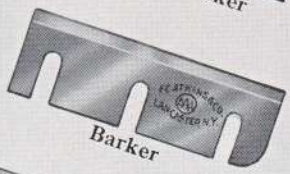
ATKINS MACHINE KNIVES

Mitre

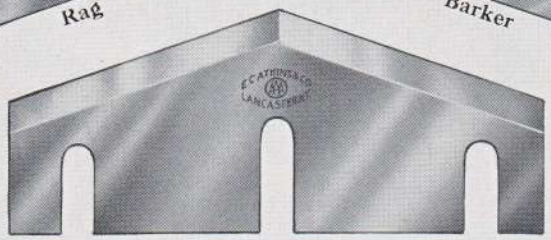
Green Bay Barker



Rag



Barker



Double Bevel Chipper

Corrugated Chipper

Wood Chipper

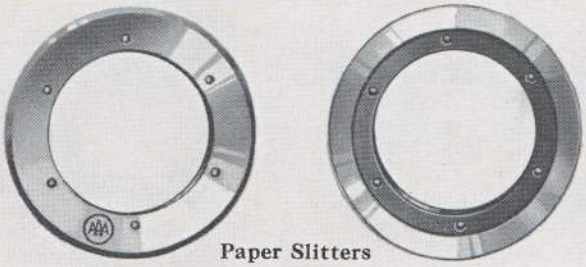
Lithograph Stone Planer

Paper Cutter

ATKINS MACHINE KNIVES

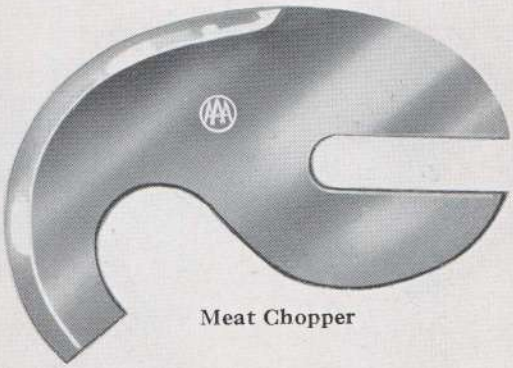
Beet Sugar Knife

Carbon Knife

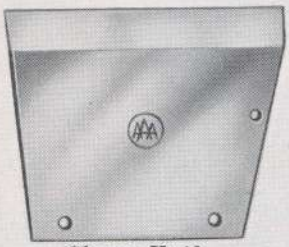


Paper Slitters

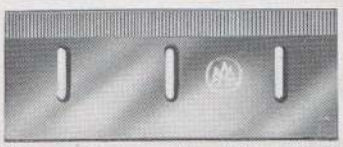
Kraut and Vegetable Knife



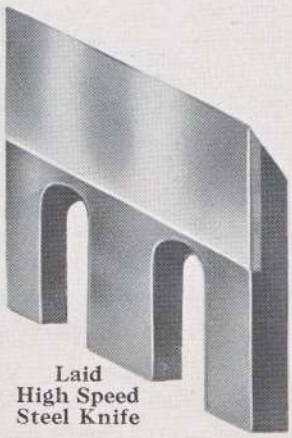
Meat Chopper



Cheese Knife



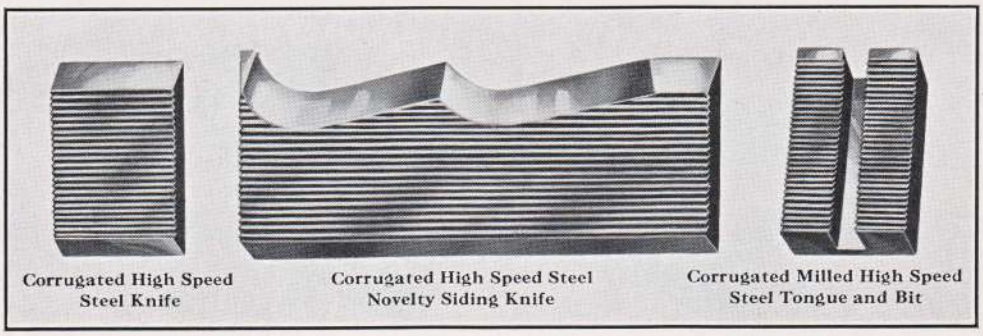
Whitney Scraper Toothing Knife



Laid
High Speed
Steel Knife

CORRUGATED HIGH SPEED STEEL KNIVES

Prices on Application



Corrugated High Speed Steel Knife

Corrugated High Speed Steel Novelty Siding Knife

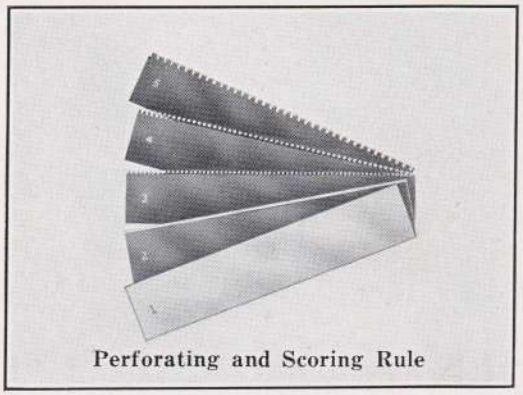
Corrugated Milled High Speed Steel Tongue and Bit

ATKINS SPECIALTIES

ATKINS PERFORATING AND SCORING RULES

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

Prices quoted on application.



Perforating and Scoring Rule

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

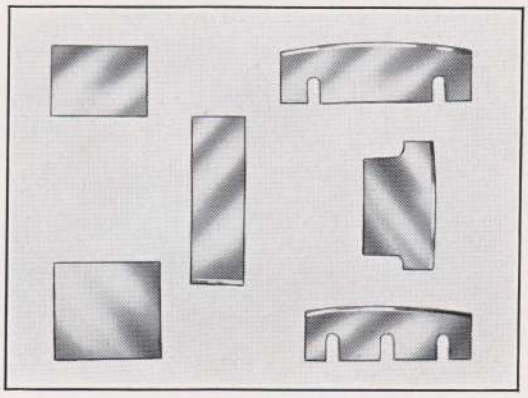
Point	Height	Temper
2-Pt.	.937	Medium Cutting
2-Pt.	.937	Hard Cutting
2-Pt.	.937	Soft Cutting
3-Pt.	.937	Hard Cutting
4-Pt.	.937	Hard Cutting
2-Pt.	.918	Scoring
3-Pt.	.918	Scoring
3-Pt.	.900	Scoring
4-Pt.	.918	Scoring
4-Pt.	.900	Scoring
6-Pt.	.900	Scoring

ATKINS SPECIAL SCRAPER BLADES

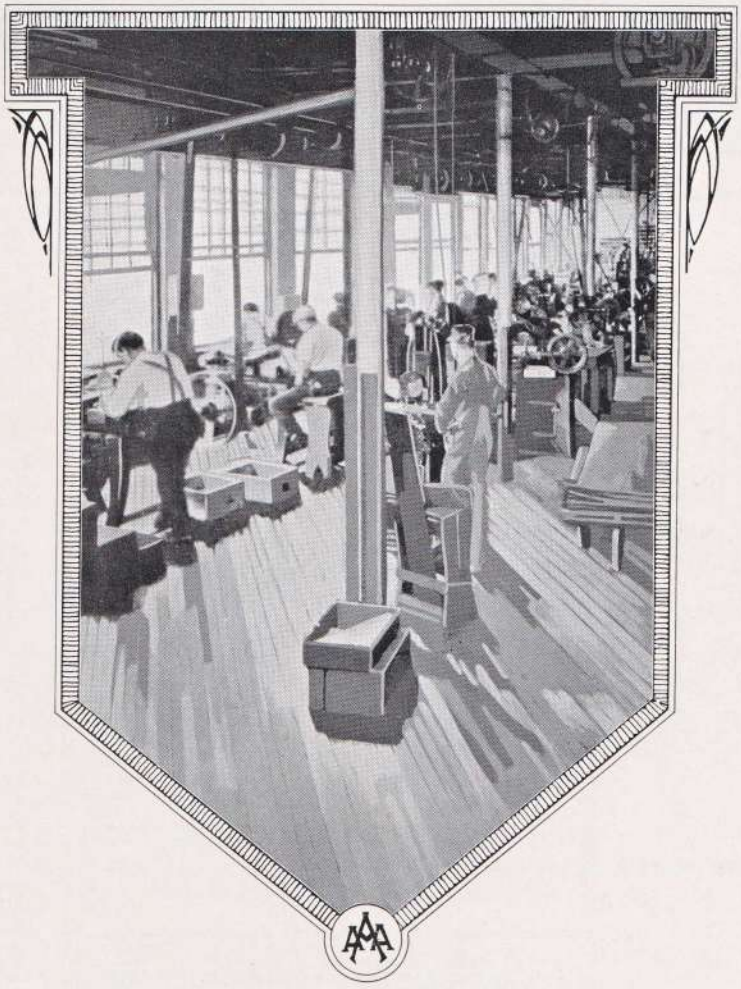
We manufacture blades for all types of hand and power floor scraping machines. These are made of the finest steel, accurately ground, and a trial will convince you that they have no superior for hard service.

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

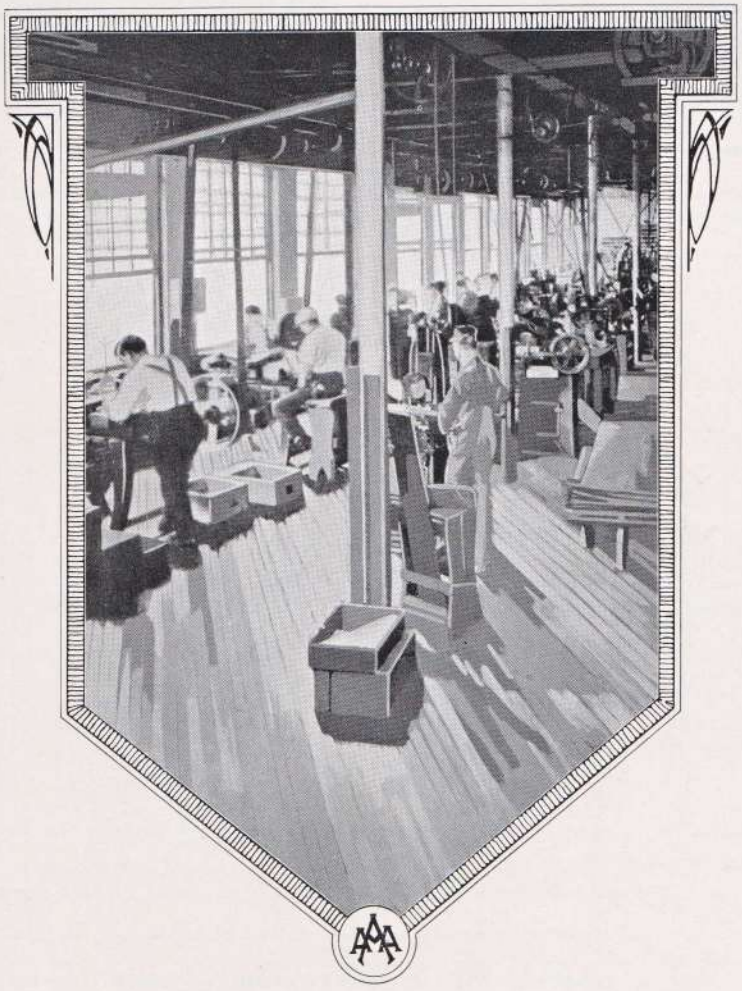
Prices quoted on application.



ATKINS METAL CUTTING SAWS

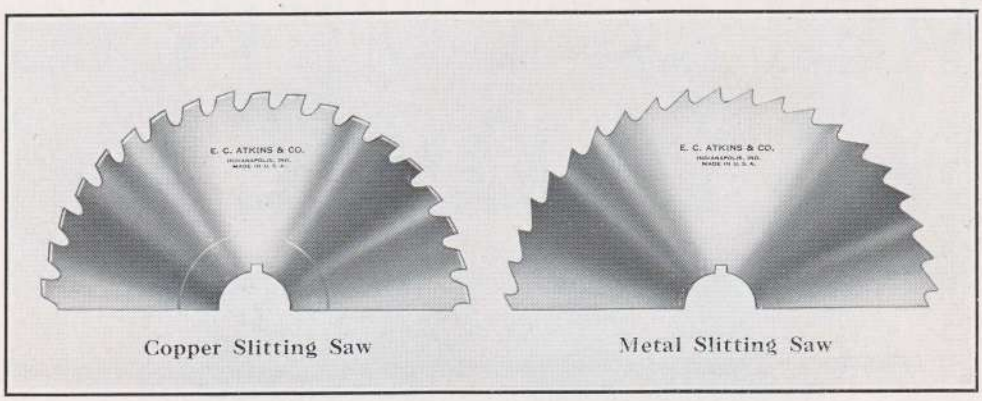


ATKINS METAL CUTTING SAWS



ATKINS METAL SLITTING SAWS

FOR CUTTING METAL AT SLOW SPEED



Copper Slitting Saw — Metal Slitting Saw

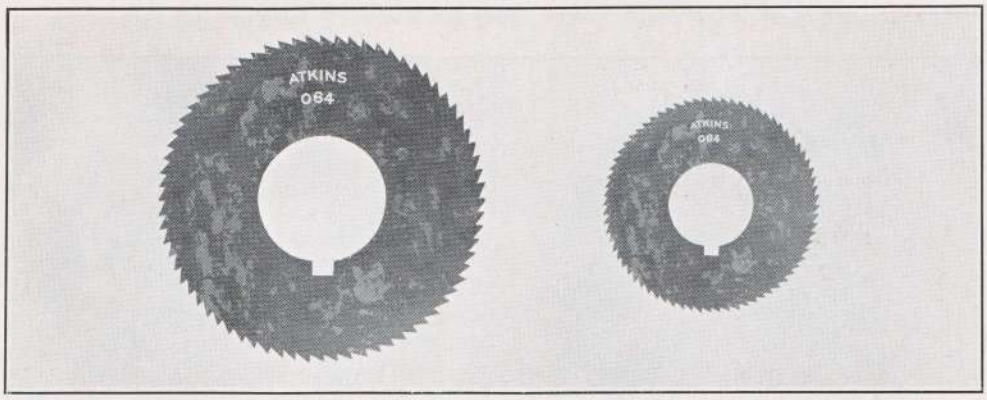
Diameter Inches	Thickness Inches	Hole Inches	Number of Teeth	Semi-High Speed Steel	High Speed Steel
2½	1/32	7/8	28	$1.30	$2.50
2½	3/64	7/8	28	1.20	2.40
2½	1/16	7/8	28	1.15	2.35
2½	3/32	7/8	28	1.15	2.35
2½	1/8	7/8	28	1.15	2.35
2½	1/8	7/8	28	1.40	2.60
3	1/32	1	32	1.60	2.95
3	3/64	1	32	1.45	2.60
3	1/16	1	32	1.30	2.50
3	3/32	1	32	1.30	2.50
3	1/8	1	32	1.30	2.50
3	3/32	1	32	1.50	2.85
4	1/32	1	36	2.85	4.60
4	3/64	1	36	1.85	3.15
4	1/16	1	36	1.60	2.95
4	3/32	1	36	1.55	2.85
4	1/8	1	36	1.55	2.85
4	3/32	1	36	1.80	3.45
4	3/16	1	36	2.10	3.45
5	1/16	1	40	2.30	3.85
5	3/32	1	40	2.00	3.35
5	1/8	1	40	2.00	3.35
5	1/8	1¼	40	2.00	3.35
5	1/8	1½	40	2.00	3.35
5	3/32	1	40	2.45	4.30
5	3/16	1	40	2.90	4.30
6	1/16	1	42	5.10	7.50
6	1/32	1	42	3.85	5.85
6	1/8	1	42	3.45	5.35
6	1/8	1¼	42	3.45	5.35
6	3/16	1½	42	4.45	6.45
6	3/16	1	42	4.45	6.45
7	1/16	1	44	9.50	11.00
7	1/32	1	44	5.70	8.35
7	1/8	1	44	4.85	7.20
7	3/16	1¼	44	6.50	9.05
7	3/16	2	44	6.50	9.05
8	1/8	1	46, 66	7.30	12.00
8	1/8	1¼	46, 66	7.30	12.00
8	3/16	1¼	46, 66	8.90	12.30
8	3/16	1½	46, 66	8.90	12.30

STANDARD KEYWAYS FOR ABOVE SAWS

7/8″—1/8″ wide, 1/16″ deep; 1″—5/32″ wide, 5/64″ deep; 1¼″—3/16″ wide, 3/32″ deep; 1½″—1/4″ wide 1/8″ deep.

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

ATKINS SCREW SLOTTING SAWS



Atkins Screw Slotting Saws or Cutters are made from a Tungsten-Alloy Steel which gives them a keen, tough cutting edge. They are carefully milled with the correct shape tooth and furnished black —no polish.

They run at a speed of 350 to 400 R.P.M., depending on the operation on which they are used. High Speed Steel Screw Slotting Saws can be run between 400 and 600 R.P.M.

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

ATKINS SCREW SLOTTING SAWS

Diameter Inches	Thickness Inches	Hole Inches	Teeth	Semi-High Speed Steel	High Speed Steel	Diameter Inches	Thickness Inches	Hole Inches	Teeth	Semi-High Speed Steel	High Speed Steel	Diameter Inches	Thickness Inches	Hole Inches	Teeth	Semi-High Speed Steel	High Speed Steel
1¾	.006	½, ⅝	90	$0.15	$0.75	2¼	.016	⅝	60	$0.20	$1.00	2¾	.018	½, ⅝, ¾, 1	72	$0.20	$1.00
1¾	.008	½, ⅝	90	.15	.75	2¼	.018	⅝	60	.20	1.00	2¾	.020	½, ⅝, ¾, 1	72	.20	1.00
1¾	.010	½, ⅝	90	.15	.75	2¼	.020	⅝	60	.20	1.00	2¾	.023	½, ⅝, ¾, 1	72	.20	1.00
1¾	.012	½, ⅝	90	.15	.75	2¼	.023	⅝	60	.20	1.00	2¾	.025	½, ⅝, ¾, 1	72	.20	1.00
1¾	.014	½, ⅝	90	.15	.75	2¼	.025	⅝	60	.20	1.00	2¾	.028	½, ⅝, ¾, 1	72	.20	1.00
1¾	.016	½, ⅝	90	.15	.75	2¼	.028	⅝	60	.20	1.00	2¾	.032	½, ⅝, ¾, 1	72	.20	1.00
1¾	.018	½, ⅝	90	.15	.75	2¼	.032	⅝	60	.20	1.00	2¾	.035	½, ⅝, ¾, 1	72	.20	1.00
1¾	.020	½, ⅝	90	.15	.75	2¼	.035	⅝	60	.20	1.00	2¾	.040	½, ⅝, ¾, 1	72	.20	1.00
1¾	.023	⅝	90	.20	1.00	2¼	.040	⅝	60	.20	1.00	2¾	.045	½, ⅝, ¾, 1	72	.20	1.00
1¾	.025	⅝	90	.20	1.00	2¼	.045	⅝	60	.20	1.00	2¾	.051	½, ⅝, ¾, 1	72	.20	1.00
1¾	.028	⅝	90	.20	1.00	2¼	.051	⅝	60	.20	1.00	2¾	.057	½, ⅝, ¾, 1	72	.20	1.00
1¾	.032	⅝	90	.20	1.00	2¼	.057	⅝	60	.20	1.00	2¾	.064	½, ⅝, ¾, 1	72	.30	1.50
1¾	.035	⅝	90	.20	1.00	2¼	.064	⅝	60	.20	1.00	2¾	.072	¾, 1	72	.30	1.50
1¾	.040	⅝	90	.20	1.00	2¼	.072	⅝	60	.20	1.00	2¾	.081	¾, 1	72	.35	1.75
1¾	.045	⅝	90	.20	1.00	2¼	.081	⅝	60	.30	1.50	2¾	.091	¾, 1	72	.40	2.00
1¾	.051	⅝	90	.20	1.00	2¼	.091	⅝	60	.35	1.75	2¾	.102	¾, 1	72	.45	2.25
1¾	.057	⅝	90	.20	1.00	2¼	.102	⅝	60	.40	2.00	2¾	.114	¾, 1	72	.50	2.50
1¾	.064	⅝	90	.20	1.00	2¾	.006	¾, 1	72	.20	1.00	2¾	.128	¾, 1	72	.55	2.75
2¼	.006	⅝	60	.20	1.00	2¾	.008	¾, 1	72	.20	1.00	2¾	.144	1	72	.65	3.25
2¼	.008	⅝	60	.20	1.00	2¾	.010	¾, 1	72	.20	1.00	2¾	.162	1	72	.75	3.75
2¼	.010	⅝	60	.20	1.00	2¾	.012	¾, 1	72	.20	1.00	2¾	.182	1	72	.90	4.50
2¼	.012	⅝	60	.20	1.00	2¾	.014	¾, 1	72	.20	1.00						
2¼	.014	⅝	60	.20	1.00	2¾	.016	¾, 1	72	.20	1.00						

ATKINS CIRCULAR METAL SAWS

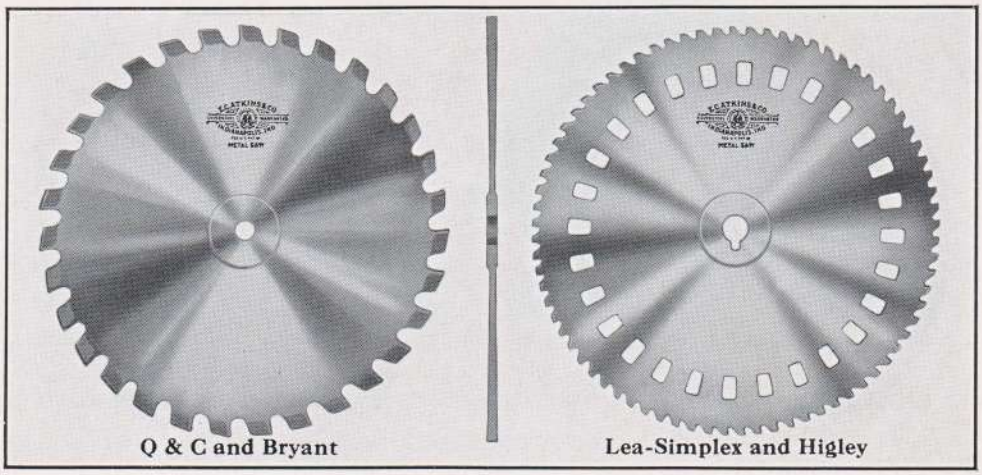
For cutting Brass, Aluminum; Copper; Aluminum and Steel Tubing; Rubber, Fibre, Paper; Formica; Bakelite; Micarta, Ivory, Bone, Pearl, and other materials that cannot be cut by a wood cutting circular saw.

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

Diameter Inches	Thickness Inches	List Each	Diameter Inches	Thickness Inches	List Each	Diameter Inches	Thickness Inches	List Each
2½	1/32	$1.25	4	1/16	$1.70	9	3/32	$5.50
2½	3/64	1.25	5	3/64	2.05	10	1/16	6.50
2½	1/16	1.25	5	1/16	2.05	10	3/32	6.75
3	1/32	1.40	6	3/64	2.50	12	1/16	8.00
3	3/64	1.40	6	1/16	2.50	12	3/32	8.00
3	1/16	1.40	7	1/16	2.90	12	1/8	8.50
4	1/32	1.70	8	1/16	4.00	14	3/32	9.75
4	3/64	1.70	9	1/16	5.25	14	1/8	9.75

Any size hole or keyway furnished.

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.	Thickness In.	Size of Hole In.	Style of Machine	No. of Teeth	Price Each	B-P No.	Dia. In.	Thickness In.	Size of Hole In.	Style of Machine	No. of Teeth	Price Each	B-P No.
16	9/64	7/8	5	31	$13.50	.....	27	1/4	2 1/2	Universal Saw	150	$37.50	2 AU
16	9/64	7/8	5A	31	13.50	.....							
16	5/16	7/8	5	31	13.50	.....	27	5/16	2	Cut-off Type	114	37.50	2 ACO
16	5/16	7/8	5A	31	13.50	.....							
18	5/16	1 3/4	1M	44	15.50	.....	28	1/4	1 3/4	3B	52	37.50	.....
18	5/16	1 1/8	7P Rail	35	15.50	.....	28	17/64	1 3/4	3B	52	38.75	.....
20 1/2	5/16	1 1/4	6, 6A, 10	38	21.95	.....	31 1/4	1/4	1 3/4	20	58	53.00	.....
20 1/2	1/4	1 1/4	6, 6A, 10	38	24.75	.....	31 1/4	17/64	1 3/4	20	58	54.75	.....
20 1/2	5/16	1 1/4	6, 6A, 10	38	26.85	.....	31 1/4	1/4	1 3/4	4B	58	53.00	.....
			Universal				31 1/4	17/64	1 3/4	4B	58	53.00	.....
21	1/4	2	Saw	118	24.75	1 AU				Universal			
			Cut-off				33	3/8	2 1/2	Saw	138	67.00	3 AU
21	1/4	2	Type	88	24.75	1 ACO	33	1/4	2 1/2	Cut-off Type	118	59.00	3 ACO
23 1/2	1/4	1 3/4	2B	44	30.50	.....							
25	1/4	1 3/4	15	46	34.00	.....	36	9/32	2	20	67	69.50	.....
							36	9/32	2	51	67	69.50	.....

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

FOR HIGLEY AND LEA-SIMPLEX MACHINES

Diameter Inches	Thickness Inch	Size of Hole Inches	New Style of Machine	Old Style of Machine	Pitch of Teeth Inches	Price Each	Diameter Inches	Thickness Inch	Size of Hole Inches	New Style of Machine	Old Style of Machine	Pitch of Teeth Inches	Price Each
12 1/2	1/8	1 1/4	11	Bench	1/4, 5/16, 3/8, 7/16	$9.75	21	3/16	1 1/4	17	.....	1/4, 3/8, 7/8	$21.50
13 1/2	1/8	1 1/4	10	....	5/16, 3/8, 7/16, 1/2	10.55	26	3/16	1 1/4	17	26" Cambria	3/8, 7/16, 9/16, 3/4, 7/8	28.50
13 1/2	9/32	1 1/4	....	5	9/16, 3/8, 7/16, 1/2	11.00	26	3/16	1 1/2	19	1	3/8, 7/16, 9/16, 3/4, 7/8	28.50
13 1/2	11/64	1 1/4	11	.....	5/16, 3/8, 7/16, 1/2	11.45	26	1/4	1 1/2	19	1	3/8, 7/16, 9/16, 3/4, 7/8	32.50
14	5/32	1 1/4	11 1/2	.....	1/4, 3/8, 1/2	11.00	28	3/16	1 1/2	....	1	3/8, 7/16, 9/16, 3/4, 7/8	35.50
15	5/32	1 1/4	12	.....	1/4, 5/16, 3/8, 7/16, 1/2	13.10	28	3/16	1 1/2	25	.....	5/16, 3/8, 11/16	35.50
16	3/16	1 1/4	13	3	3/8, 7/16, 1/2, 9/16, 5/8	13.50	30	3/16	1 1/2	....	1	3/8, 7/16, 9/16, 3/4, 7/8	45.00
17 1/2	3/16	1 1/4	30	.....	3/8, 7/16, 1/2, 9/16, 5/8	15.50	31	1/4	1 1/2	18	7	7/16, 9/16, 5/8, 3/4, 7/8	53.00
18	11/64	1 1/4	14	2	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	15.00	31	1/4	1 1/2	20	11/2	7/16, 9/16, 5/8, 3/4, 7/8	53.00
18	3/16	1 1/4	14	2	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	15.50	31	1/4	1 1/2	21	9	7/16, 9/16, 5/8, 3/4, 7/8	53.00
18	1/4	1 1/4	14	2	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	16.50	33	1/4	1 1/2	26	.....	3/8, 7/8	58.50
18 1/2	7/32	1 1/4	14	2	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	19.70	36	9/32	1 1/2	21 1/2	.....	7/16, 9/16, 5/8, 3/4, 7/8	73.50
20	5/16	1 1/4	15	3	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	18.50	36	5/32	1 1/2	21 1/2	.....	7/16, 9/16, 5/8, 3/4, 7/8	79.50
20	5/16	1 1/4	16	20" Cambria	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	18.50	40	5/16	1 1/2	22	.....	7/16, 9/16, 5/8, 3/4, 7/8	106.75
20	3/32	1 1/4	16	20" Cambria	5/8, 7/16, 9/16, 3/4, 7/8	19.70	40	11/32	1 1/2	22	.....	7/16, 9/16, 5/8, 3/4, 7/8	112.75
20	1/8	1 1/4	31	.....	3/8, 7/16, 9/16, 5/32, 7/8	18.50	50	1/2	1 1/2	24	.....	7/16, 9/16, 5/8, 3/4, 7/8	207.75

ATKINS CIRCULAR MILLING SAWS

FOR CUTTING COLD METAL AT SLOW SPEED

Diam. Inches	Thickness Inch	Semi-High Speed Steel	High Speed Steel	Diam. Inches	Thickness Inch	Semi-High Speed Steel	High Speed Steel	Diam. Inches	Thickness Inch	Semi-High Speed Steel	High Speed Steel
9	1/16	$5.25	$13.25	18	7/32	$16.25	$105.00	36	11/32	$75.50	$575.50
9	3/32	5.50	16.00	18	1/4	17.25	116.00	36	3/8	77.00	622.00
9	1/8	5.80	19.00	18	5/16	18.75	138.00	36	7/16	80.00	715.00
9	5/32	6.15	22.00	20	5/32	17.50	101.00	36	1/2	102.50	810.00
9	3/16	6.45	25.00	20	3/16	18.10	115.00	38	9/32	80.50	.....
9	7/32	6.90	28.00	20	7/32	19.30	128.00	38	5/16	88.50	.....
9	1/4	7.35	31.00	20	1/4	20.50	142.00	38	3/8	92.50	.....
9	5/16	7.80	36.00	20	5/16	22.30	170.00	38	7/16	96.50	.....
10	1/16	6.50	15.50	21	3/16	21.50	126.00	38	1/2	121.00	.....
10	3/32	6.70	18.50	21	7/32	22.90	140.00	40	9/32	97.50	.....
10	1/8	7.10	22.50	21	1/4	24.30	156.00	40	5/16	108.50	.....
10	5/32	7.70	26.50	21	5/16	26.40	158.00	40	3/8	114.00	.....
10	3/16	7.90	30.00	22	3/16	21.50	137.00	40	7/16	119.50	.....
10	7/32	8.30	33.00	22	7/32	22.90	152.00	40	1/2	143.00	.....
10	1/4	8.70	36.50	22	1/4	24.30	170.00	42	5/16	107.50	.....
10	5/16	9.30	44.00	22	5/16	26.40	205.00	42	3/8	114.50	.....
11	1/8	8.50	32.00	24	3/16	26.25	161.00	42	7/16	121.50	.....
11	5/32	9.25	36.00	24	7/32	27.85	179.00	42	1/2	157.50	.....
11	3/16	9.50	40.00	24	1/4	29.45	200.00	44	5/16	117.50	.....
11	7/32	10.00	44.00	24	5/16	31.85	240.00	44	3/8	126.50	.....
11	1/4	10.50	48.00	25	1/4	32.50	219.00	44	7/16	135.50	.....
11	5/16	11.00	54.00	25	5/16	35.50	260.00	44	1/2	172.00	.....
12	1/8	8.50	36.50	26	3/16	28.50	190.00	46	5/16	127.50	.....
12	5/32	9.25	41.50	26	1/4	32.50	235.00	46	3/8	138.50	.....
12	3/16	9.50	46.50	26	5/16	35.50	280.00	46	7/16	149.50	.....
12	7/32	10.00	51.00	28	7/32	35.50	252.50	46	1/2	187.50	.....
12	1/4	10.50	56.00	28	1/4	38.00	275.00	48	5/16	142.50	.....
12	5/16	11.00	62.00	28	5/16	41.75	320.00	48	3/8	155.50	.....
14	1/8	9.75	47.00	30	1/4	43.30	315.00	48	7/16	168.50	.....
14	5/32	10.80	54.00	30	5/16	47.50	366.00	48	1/2	210.50	.....
14	3/16	11.15	60.50	30	11/32	47.80	400.00	50	3/8	194.00	.....
14	7/32	11.85	67.00	30	3/8	48.90	435.00	50	7/16	209.50	.....
14	1/4	12.55	74.00	31	1/4	53.00	335.00	50	1/2	236.00	.....
14	5/16	13.60	84.00	31	5/16	58.25	396.00	52	3/8	214.00	.....
15	5/32	12.15	57.00	31	11/32	59.00	434.00	52	7/16	232.00	.....
15	3/16	12.55	68.00	31	3/8	60.00	470.00	52	1/2	250.00	.....
15	7/32	13.35	76.00	32	1/4	53.00	346.00	54	3/8	224.00	.....
15	1/4	14.15	84.00	32	5/16	58.25	422.00	54	7/16	244.00	.....
15	5/16	15.35	96.00	32	11/32	59.00	460.00	54	1/2	264.00	.....
16	5/32	12.15	67.00	32	3/8	60.00	498.00	56	3/8	244.00	.....
16	3/16	12.55	76.00	34	1/4	58.50	400.00	56	7/16	266.00	.....
16	7/32	13.35	85.00	34	5/16	64.50	450.00	56	1/2	288.00	.....
16	1/4	14.15	94.00	34	11/32	65.50	520.00	58	7/16	274.00	.....
16	5/16	15.35	108.00	34	3/8	66.50	560.00	58	1/2	299.00	.....
18	5/32	14.75	83.00	36	1/4	65.00	427.00	60	7/16	299.00	.....
18	3/16	15.25	94.00	36	5/16	74.00	529.00	60	1/2	327.00	.....

PITCH OF TEETH

Diameter Inches	Points to Inch	Distance Pt. to Pt.	Diameter Inches	Distance Pt. to Pt.	Diameter Inches	Distance Pt. to Pt.
8 and 9	5, 6, 7, 8	.....	14	1/4, 3/8, 5/16, 1/2	24 to 36	3/8 to 7/8
10	4, 5, 6, 7	.....	16, 18, 20	5/16 to 7/8	24 to 36	7/16 to 7/8
12	.....	1/8, 3/16, 1/4, 5/16	21	5/16 to 7/8	38 to 60	1/2 to 1

ATKINS CIRCULAR METAL CUTTING SAWS

FOR CUTTING HOT METALS AT HIGH SPEED

Diameter Inches	Thickness of Plate Gauge	Thickness of Plate Inch	Price Each	Each Gauge Heavier Add	Diameter Inches	Thickness of Plate Inch	Price Each	Each 1/32 Inch Heavier Add
14	10	1/8	$ 4.50	$0.25	36	3/16	$37.00	$2.30
16	10	1/8	5.00	.30	38	3/16	42.00	2.55
18	9	5/32	6.50	.35	40	1/4	49.00	2.85
20	8	11/64	8.00	.40	42	1/4	53.00	3.15
22	7	3/16	10.00	.50	44	1/4	56.00	3.45
24	6	3/16	12.00	.60	46	1/4	60.00	3.75
26	6	3/16	14.00	.75	48	1/4	64.00	4.10
28	5	15/64	16.00	.95	50	5/16	77.00	4.45
30	5	15/64	19.00	1.10	52	5/16	84.00	4.80
32	5	15/64	22.00	1.25	54	5/16	90.00	5.15
34	5	15/64	25.00	1.40	56	5/16	106.00	5.55
..	..	..	.....	.....	58	5/16	113.00	5.95
..	..	..	.....	.....	60	5/16	121.00	6.40

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

Diameter Inches	Thickness of Plate Gauge	Thickness of Plate Inch	Price Each	Each Gauge Heavier Add	Net Price Each Nicked Edge	Diameter Inches	Thickness of Plate Inch	Price Each	Each 1/32 Inch Heavier Add	Net Price Each Nicked Edge
14	10	1/8	$ 4.05	$0.25	$0.40	36	1/4	$30.00	$1.90	$0.95
16	10	1/8	4.50	.30	.45	38	1/4	32.00	2.15	1.00
18	9	5/32	5.85	.35	.50	40	1/4	35.00	2.40	1.05
20	8	11/64	7.20	.40	.55	42	1/4	37.00	2.60	1.10
22	7	3/16	9.00	.50	.60	44	1/4	40.00	2.85	1.20
24	6	3/16	10.80	.60	.65	46	1/4	43.00	3.15	1.25
26	6	3/16	12.60	.75	.70	48	1/4	46.00	3.45	1.30
28	5	15/64	14.40	.95	.75	50	5/16	57.00	3.70	1.35
30	5	15/64	17.10	1.10	.80	52	5/16	63.00	4.00	1.45
32	5	15/64	19.80	1.25	.85	54	5/16	68.00	4.30	1.55
34	5	15/64	22.50	1.40	.90	56	5/16	82.00	4.60	1.65
..	..	..	.....	.....	.....	58	5/16	88.00	4.95	1.80
..	..	..	.....	.....	.....	60	5/16	95.00	5.30	1.95

SLATE SAWS

Tempered and Hollow Ground					Straight Ground				
Diameter Inches	Thickness of Plate Gauge	Thickness of Plate Inch	Price Each	Each Gauge Heavier Add	Diameter Inches	Thickness of Plate Gauge	Thickness of Plate Inch	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	9	5/32	10.50	.50	18	9	5/32	6.50	.35
20	8	11/64	13.50	.65	20	8	11/64	8.00	.40
22	7	3/16	16.00	.80	22	7	3/16	10.00	.50
24	6	3/16	20.00	1.00	24	6	3/16	12.00	.60
26	6	3/16	23.00	1.20	26	6	3/16	14.00	.75
..	..	..	.....	.....	28	5	15/64	16.00	.90
..	..	..	.....	.....	30	5	15/64	19.00	1.10
..	..	..	.....	.....	32	5	15/64	22.00	1.25
..	..	..	.....	.....	34	5	15/64	25.00	1.40

SLATE SAWS—UNGROUND

Diameter Inches	Thickness of Plate Gauge	Thickness of Plate Inch	Price Each	Each Gauge Heavier Add	Thickness of Plate Gauge	Price Each	Thickness of Plate Gauge	Thickness of Plate Inch	Price Each	Each Gauge Heavier Add
36	4	15/64	$26.00	$1.55	0	$34.00	00	3/8	$37.00	$2.30
38	4	15/64	29.00	1.70	0	38.00	00	3/8	41.00	2.55
40	4	15/64	32.00	1.90	0	42.00	00	3/8	45.00	2.85
42	3	17/64	38.00	2.40	0	45.00	00	3/8	49.00	3.15
44	3	17/64	40.00	2.70	0	49.00	00	3/8	53.00	3.45
46	3	17/64	42.00	3.00	0	53.00	00	3/8	57.00	3.75
48	2	9/32	47.00	3.40	0	57.00	00	3/8	61.00	4.10

ATKINS KWIK-KUT METAL CUTTING MACHINES

THE "STRATE-CUT" PATENTED HACK SAW GUIDE

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

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

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

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

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

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

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

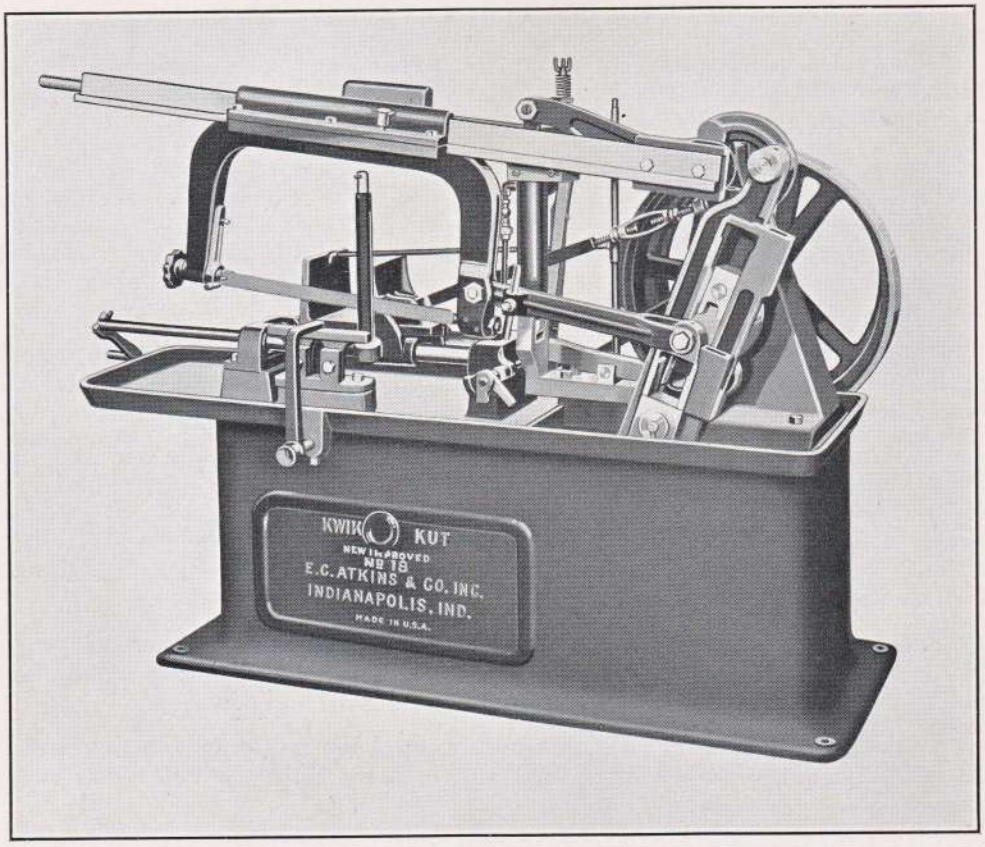
Compensating bearings are used on the saw frame, all of which are direct and finished, and no babbitt metal is used. Gibs on side and top are provided to take up any possible wear.

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

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

No.	Tubing		Iron and Soft Steel			Tool Steel			Structural Shapes		
	Thin Wall up to ⅛ 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 & 18	425	430	435	435	436	425	430	435	425	430	430
14	409	425	430	435	435	425	430	430	425	425	430
12	409	410	420	420	422	415	420	420	415	415	420
Blade travel in inches per minute.....			720 inches			450 inches			450-500 inches		

ATKINS KWIK-KUT METAL CUTTING MACHINES



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

We are now making a complete line of Kwik-Kut Metal Cutting machines for cutting all sizes of stock up to 8 inches x 8 inches. Furnished with a solid vise, unless otherwise specified, for cutting material at right angles. When desired, they are equipped with a swivel vise for cutting at any angle up to 45 degrees. The swivel vise at 45 degrees angle reduces the capacity to 4½ inches x 8 inches, and at angle of 90 degrees 7 inches x 8 inches. Floor space, 48 inches x 20 inches.

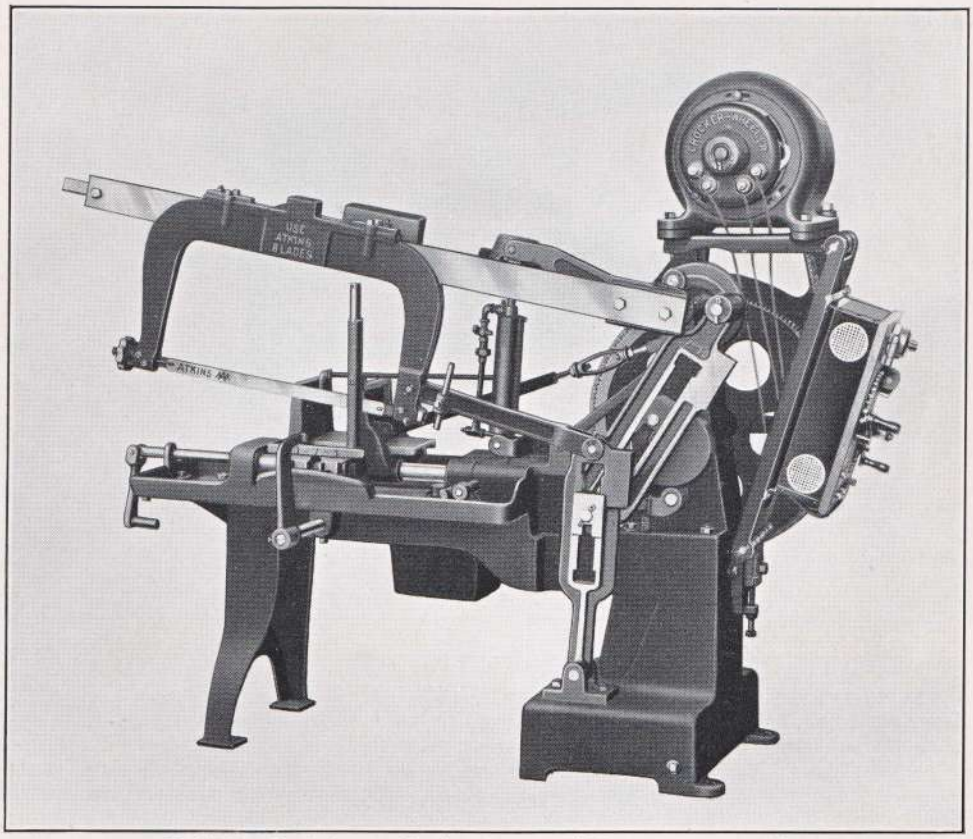
A lubricating system consisting of pump, tank and pipe is so arranged that the compound used for keeping the saw cool drops automatically into the cut and is then filtered back into the tank for further use.

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

For prices see page 133.

ATKINS KWIK-KUT METAL CUTTING MACHINES

CONTINUED



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

MOTOR-DRIVEN MACHINES

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

TWO-SPEED PULLEY

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

ATKINS AAA KOOLING KOMPOUND

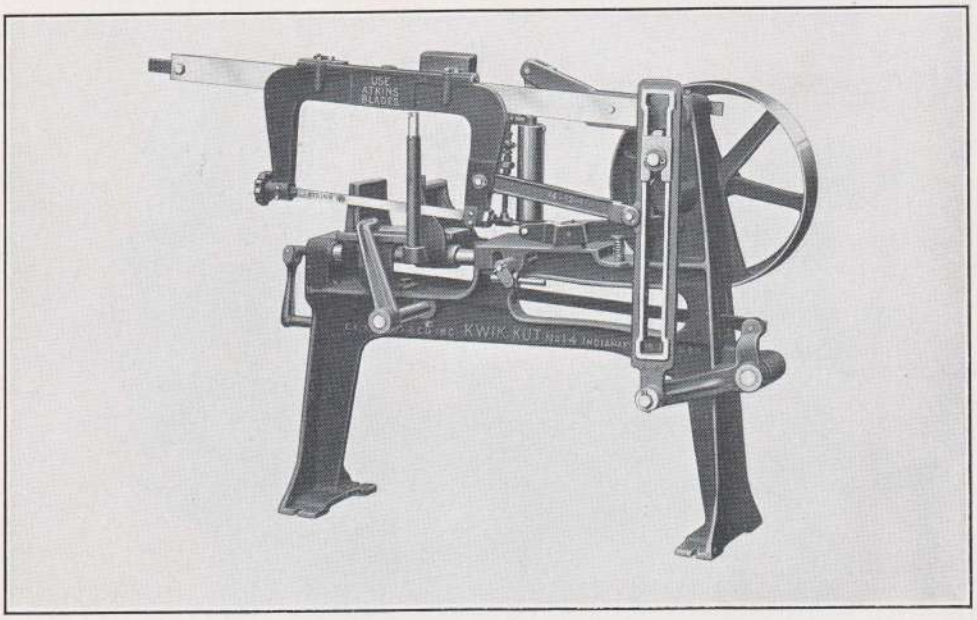
We include free with our No. 7 and No. 18 Kwik-Kut Metal Cutting Machines a sample pail of our Kooling Kompound sufficient to make a solution of twenty gallons suitable for use in connection with this machine and an excellent preparation for screw cutting, tapping or any other work where a compound of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

Prices in various quantities will be quoted upon application.

For prices of machines see page 134.

ATKINS KWIK-KUT METAL CUTTING MACHINES

CONTINUED



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

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

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

See page 134 for prices.

CAPACITIES

The capacity of the No. 7 and 18 machines with solid vise is 8 x 8 inches. With swivel vise they have a capacity of 7 x 8 inches on a straight cut and 4½ 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 3¼ x 6 inches.

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

ATKINS STOCK REST FOR KWIK-KUT MACHINES

We have designed the Atkins Stock Rest for Kwik-Kut Machines in order to facilitate the handling of long lengths of material in the cut.

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

Price.....each $12.00

Weight.....pounds 58

ATKINS KWIK-KUT METAL CUTTING MACHINE No. 18

SPECIFICATIONS

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

No. 18—BELT DRIVEN

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

No. 18—EQUIPPED FOR MOTOR DRIVE, WITHOUT MOTOR

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

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

No. 18—MOTOR-DRIVEN MACHINES, COMPLETE

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

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

When turned to an angle of 45 degrees, the capacity is 4½ x 8 inches.

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

ATKINS KWIK-KUT METAL CUTTING MACHINES

SPECIFICATIONS

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

No. 7 BELT DRIVEN

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

No. 7 EQUIPPED FOR MOTOR DRIVE, WITHOUT MOTOR

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

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

No. 7 MOTOR-DRIVEN MACHINES, COMPLETE

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

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees, the capacity is 4½ x 8 inches.

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

No. 14 KWIK-KUT METAL CUTTING MACHINE

No.	Description	Capacity, Inches	Approx. Shipping Weight	List Price, Each
14-K	Solid Vise 1 speed	6 x 6	400	$150.00
14-S	Swivel Vise 1 speed	5 x 6*	400	155.50

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees the capacity is 3½ x 6 inches.

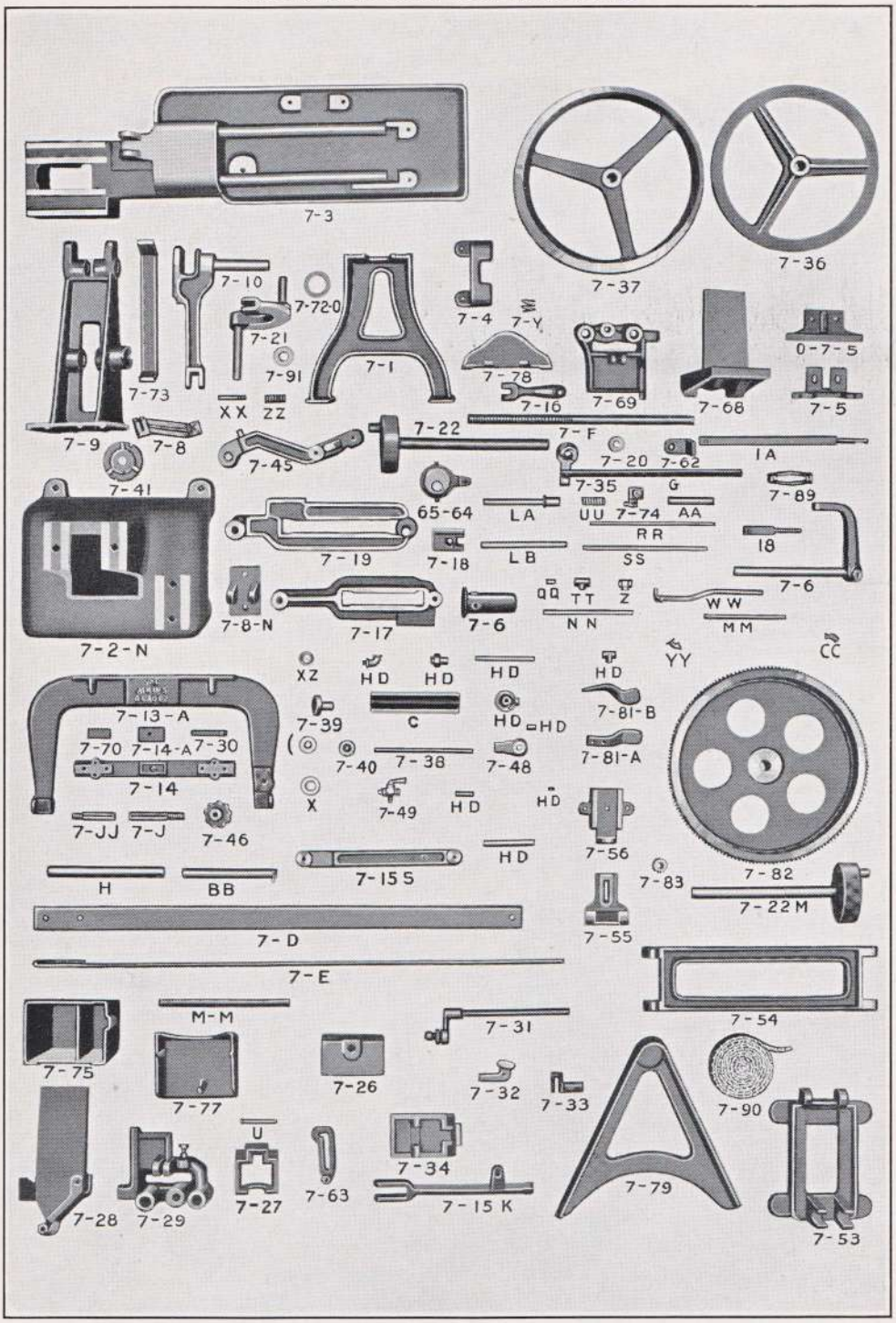
No. 12 KWIK-KUT METAL CUTTING MACHINE

No.	Description	Capacity, Inches	Approx. Shipping Weight	List Price, Each
12-K	Solid Vise 1 speed	4 x 4	350	$140.00
12-S	Swivel Vise 1 speed	4 x 4*	350	145.00

(*) The capacity given is the size of stock which the vise will accommodate when cutting straight. When turned to an angle of 45 degrees the capacity is 2½ x 4 inches.

ILLUSTRATED LIST OF PARTS

ATKINS KWIK-METAL CUTTING MACHINES



PRICE LIST OF PARTS

ATKINS KWIK-KUT METAL CUTTING MACHINES

Nos. 7, 12 and 14

Parts illustrated are for No. 7 only

PARTS FOR KWIK-KUT MACHINES
For No. 7 Machines

No.	Description	Wt.	Each	Complete
7-1	Front Leg	18		$ 5.95
7-2-N	Back Tank Base	70		22.50
7-3	Bed Plate	95	$37.80	41.20
	Guide Bar	6½	3.40	
7-4	Front Support for Vise Bar	5½		2.25
0-7-5	Upper Outside Vise Rest	2		.75
7-5	Lower Outside Vise Rest	1¾		.65
7-6	Stock Gauge and Bar	5		1.75
7-8N	Hinge for Lower Link	3½		2.15
7-9	Housing	44		18.40
7-10	Saw Frame Guide Support and Bar	12½		4.55
7-13A	Saw Frame	25	13.90	17.80
7J	Front Draw Bolt	½	.70	
7JJ	Back Draw Bolt	½	.65	
7-46	Tightening Nut	1	.70	
7-14	Cap for Saw Frame	1¼	1.20	
7-14A	Cover for Oil Cup	¼	.35	
7-30	Top Gibs for Frame	¼	.15	
7-70	Side Gibs for Frame	¼	.15	
7-16	Crank Handle	1½		.50
7-17	Lower Link	9		7.65
7-18	Link Blocks	1½		1.15
7-19	Upper Link	15		10.50
7-21	Link Hanger and Pins	7		3.95
7-22B	Cam Crank and Pins	14		5.20
7-26	Feed Weight	15		4.40
7-31	Starting Crank	1	.70	.95
	Starting Crank Shaft	¾	.25	
7-32	Trip Trigger	¾		.40
7-33	Sleeve Support for Trip Trigger	1		.50
7-35	Clutch Collar	1½	1.10	1.55
7G	Trip Rod	1¼	.45	
7-36	Friction Wheel	13		5.50
7-37	Cone Pulley	40		19.95
7-62	Brace for Vise Screw	½		.25
7-64	Eccentric Strap	1¼	1.10	2.85
7-65	Eccentric	1½	1.75	
7-71	Cam Lever for Hydraulic Device	5	2.85	3.70
7-45	Raising Device Roller	1	.85	
7-72-0	Cap for Drain	¾		.40
7-73	Brace for Housing	2¾		.85
7-74	Adj. Spring Holder	½		.60
7-75	Settling Tank	15	6.20	6.60
SS	Settling Tank Pipe		.40	
7-77	Cover for Tank, complete	5		2.15
7-78	Splash Apron	2		.85
7-87	Tie Brace and Pin	2½		1.45
7-91	Collar for Housing and Set Screw	¾		.75
AA	Nipple			.16
UU	Spring for Starting Lever			.15
7-Y	Clutch Spring			.15
1A	Lower Reach Rod	2	1.60	3.50
1B	Upper Reach Rod	¾	1.20	
7-89	Turn Buckle	¾	.70	
7-H	Guide Tube	¼		.85
7-BB	Guide Plunger	1½		1.00
7-D	Saw Frame Guide	17½		5.35
7-E	Brace Bar	4½		1.90

VISES—7

No.	Description	Wt.	Each	Complete
7-F	Vise Screw	5½	$6.25	$7.35
7-20	Collar for Vise Screw	¼	.50	
7-16	Handle for Vise Screw		.60	
7-15-K	Connecting Rod, Straight Vise	3		2.00
7-68	Front Jaw Straight Vise	15		6.10
7-69	Back Jaw Straight Vise	11		5.50
7-15-S	Connecting Rod Swiv. Vise	3		2.00
7-27	Hinge for Front Jaw	2½		.95
7-28	Front Jaw for Swivel Vise	15		8.65
7-29	Back Jaw for Swivel Vise	10		7.70
7-34	Hinge for Back Jaw	4		1.40
7-63	Vise Links	1		.40

PUMP—7

	Pump Complete	7		12.70
7-61	Pump Chamber	3½		2.10
7-LA	Upper Part Plunger	1	.25	.75
7-LB	Lower Part Plunger	1¼	.35	
7-RR	Union		.15	
7-Z	Ball Check Valve			2.50

MOTOR ASSEMBLY—7

	Complete without Motor, Starting Box or Switch	110	87.85
7-22	Cam Crank	7	3.20
	Cam Crank Shafts	6	1.65
7-53	Table for Motor	18	6.00
7-54	Brace for Table	14	4.85
7-55	Sole Plate for Brace	3	1.45
7-56	Adjustable Clamp	4	2.60
7-79	Guard for Chain	12	4.00
7-81A-B	Lug for Chain Guard	¾	.70
7-82	Large Sprocket	41	21.90
7-83	Small Sprocket	1	3.90
7-90	Chain		10.00
	Motor		Prices on application
	Starting Box		Prices on application
	Switch		Prices on application

HYDRAULIC RAISING DEVICE—7

	Complete Device		13.40
	Parts—		
7-38	Piston Head and Rod	1	1.60
7-39	Bottom Head	¾	.95
7-40	Valve Seat	¼	.65
7-47	Top Head	½	.85
7-48	Top Stud End	½	.60
7-49	Regulating Cock		1.25
7-C	Cylinder		.70
XZ	Check Valve Assembly		.45
	Pipe Fittings, complete		1.90
GH	Cup Leather		.25

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

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

PRICE LIST OF PARTS

ATKINS KWIK-KUT METAL CUTTING MACHINES
(CONTINUED)

FOR No. 14 MACHINE

No.	Description	Wt.	Each	Complete
14-1	Main Frame	123	$43.75	$46.90
14-E	Vise Guide Bars	6	3.15	
14-2	Vise Guide Support	5		2.40
14-3	Guide Bar Cast. and Pin	9		3.25
14-4	Saw Blade Frame	16	11.25	
14-F	Front Draw Bolt	½	.65	
14-7-46	Saw Frame Nut	1	.65	15.20
14-G	Back Draw Bolt	½	.65	
14-15	Top Cap for Frame	3	1.60	
14-7-30	Top Gib for Frame	¼	.20	
14-7-70	Side Gib for Frame	¼	.20	
14-6	Hydraulic Lever and Pin	3½	2.45	3.30
14-7-45	Hydraulic Lever Roller	½	.85	
14-7	Link Arm	10	8.10	9.25
14-7-18	Link Block	1½	1.15	
14-8	Bell Crank, complete	7		4.35
14-9	Vise Rest	3		1.10
14-12	Stock Gauge and Bar	7		2.15
14-27	Driving Pulley	19		9.40
14-28	Friction Spider	10		4.65
14-12-31	Starting Crank and Rod	1¾		.90
14-35	Trip Trigger Holder	¾		.90
14-36	Spring Holder for Starting Lever	¾		.50
14-37	Trip Trigger and Rod	½		1.25
14-12-39	Clutch Collar and Rod	2		1.45
14-12-77	Weight	12		3.45
14A	Guide Bar	12		3.25
14B	Brace Bar	4¾		1.65
14C	Reach Rod	4¼		1.15
14D	Vise Screw	3½	2.50	3.00
14-7-16	Vise Screw Handle	1½	.50	
14H	Guide Tube	¼		.75
14I	Guide Plunger	1¼		.95
14J	Clutch Collar Spring			.15
14K	Raising Device Spring			.15
14L	Friction Clutch			.15

VISES

	Straight Vise, complete	30	15.85
	Parts—		
14-40	Connecting Rod	2¾	1.90
14-5	Crank Shaft and Rods	7	3.25
14-12	Front Jaw	11	5.15
14-13	Back Jaw	9	4.95
	Swivel Vise, complete	37	23.45
	Parts—		
14-4-S	Connecting Rod	2¾	1.90
14-5-S	Crank Shaft and Rods	7	3.25
14-17	Front Jaw, complete	11½	9.35
14-18	Back Jaw, complete	9	8.95
14-19	Hinge for Back Jaw	3½	1.20
14-20	Hinge for Front Jaw	2½	.95
14-7-63	Link	2	.40

HYDRAULIC RAISING DEVICE
See No. 7

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

FOR No. 12 MACHINE

No.	Description	Wt.	Each	Complete
12-1	Main Frame	115	$41.25	$44.45
12-E	Vise Bars	6	3.20	
12-2	Vise Bar Support	5		2.35
12-3	Guide Bar Support and Pin	9½		3.25
12-4	Saw Blade Frame	15	10.65	
12F	Front Draw Bolt	½	.65	
12-7-46	Saw Frame Nut	1	.65	14.60
12G	Back Draw Bolt	½	.65	
12-15	Top Cap	3	1.60	
12-7-30	Top Gibs	½	.20	
12-7-70	Side Gibs	½	.20	
12-6	Hydraulic Lever and Pin	4	2.40	3.05
12-7-45	Hydraulic Lever Roller	½	.65	
12-7	Link Arm	10	8.10	9.25
12-7-18	Link Arm Block	1½	1.15	
12-8	Bell Crank, complete	7		4.35
12-9	Vise Rest	3		1.10
12-12	Stock Gauge and Bar	6¼		2.15
12-27	Driving Pulley	19		9.40
12-28	Friction Spider	10		4.65
12-31	Starting Crank and Pin	1¾		.90
12-35	Trip Trigger Holder	¾		.90
12-36	Spring Holder for Starting Lever	¾		.50
12-37	Trip Trigger and Rod	½		1.25
12-39	Clutch Collar and Rod	2¼		1.45
12-14-77	Weight	12		3.45
12A	Guide Bar	9¼		2.75
12B	Brace Rod	4¾		1.60
12C	Reach Rod	4½		1.15
12D	Vise Screw	3	1.45	1.95
12-7-16	Vise Screw Handle	1½	.50	
12H	Clutch Collar Spring	¼		.15
12I	Raising Device Spring	½		.15
12J	Friction Spring	¼		.15

VISES

	Straight Vise, complete	23	14.85
12-4-0	Connecting Rod	2¾	1.90
12-5	Crank Shaft and Rod	4½	3.25
12-13	Back Vise Jaw	7½	4.60
12-14	Front Vise Jaw	11	5.15
	Swivel Vise, complete	33¾	22.20
12-40	Connecting Rod	2¾	1.90
12-5-S	Crank Shaft and Rods	7	3.25
12-17	Front Vise Jaw	11	8.90
12-18	Back Vise Jaw	7½	8.15
12-19	Hinge for Back Jaw	3½	.95
12-20	Hinge for Front Jaw	2½	.70
12-7-63	Link	2	.40

HYDRAULIC RAISING DEVICE
See No. 7

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

ATKINS SLATE HACK SAW BLADES

Number	Length Inches	Width Inches	Thickness or Gauge	No. of Teeth per Inch	Price per Gross
405	8	½	.025 or 23	14	$ 8.00
405	9	½	.025 or 23	14	9.00
405	10	½	.025 or 23	14	10.00
405	12	½	.025 or 23	14	12.00

ATKINS PIPE SAWS

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

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

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

Diameter Inches	Thickness Inches	Number of Points per Inch	List Each	Speed Revolutions per Minute
12	3/32	9	$8.00	6250
14	1/8	9	9.75	5260
16	1/8	9	11.75	4760
18	1/8	9	14.75	4165
20	1/8	9	17.50	3775

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

ATKINS SCREW SLOTTING BLADES

FOR HAND HACK SAW FRAMES

Every machine shop has frequent occasion for cutting slots in screw heads, bolts, set screws and parts of machinery. Atkins Screw Slotting Blades are designed to perform this service easily, accurately and quickly. For convenience, we furnish the set in four thicknesses, viz.: 3/64 inch, 1/16 inch, 3/32 inch and 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, ½ inch wide, 3/64, 1/16, 3/32 and 1/8 inch thick to the set.

Price, 3/64 inch thick	per gross	$33.00
Price, 1/16 inch thick	per gross	35.00
Price, 3/32 inch thick	per gross	37.00
Price, 1/8 inch thick	per gross	39.00
Price of sets of 1 each of the above blades	per gross sets	144.00
Price	per dozen sets	12.00
Price	per set	1.00

SPECIAL HACK SAW BLADES Nos. 500 and 510

FOR METAL WORK

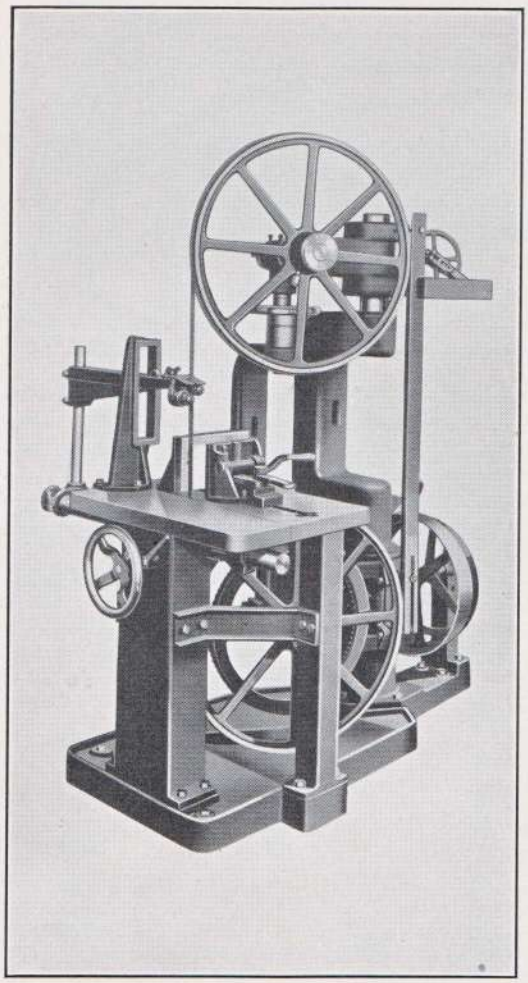
Number	500	500	510
Size inches	5	6	6
Price per gross	$8.40	$9.00	$9.00

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

No. 510 ¼-inch wide, .025-inch thick, 24 teeth to the inch. Special Hack Saw Blade for light work. Furnished either straight or loop ends.

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

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.....21½" x 28¾"
Diameter of Wheels.....30"
Height over all.....79"
Floor Space required: Motor-Driven 60" x 40"
Belt-Driven...60" x 26"

Size and Speed of Drive Pulley: On the Belt-Driven machine, the Drive Pulley is a Two-Step Cone Pulley, each having a 3" face and diameters 18" and 20". The 18" Pulley should run at about 80 R. P. M.; the 20" Pulley at about 50 R. P. M.

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

Approximate Net Weight:
Motor-Driven.....1850 lbs.
Belt-Driven.....1500 lbs.

Approximate Shipping Weight:

	Motor Driven	Belt Driven
Skidded.....	2050 lbs.	1700 lbs.
Crated.....	2250 lbs.	1900 lbs.
Boxed.....	2450 lbs.	2100 lbs.

Capacity: Any size up to.....12" x 14"
Size of Blades.....15' 8" long x ⅝" or ¾" wide

Equipment: We furnish free with each machine one saw blade ¾" wide with 8 teeth to one inch, and one blade ⅝" wide with 14 teeth to one inch, unless otherwise specified.

List Prices:
Direct Motor-Driven, ½ H. P..$1050.00
Direct Motor-Driven, ¾ H. P.. 1075.00
Belt-Driven..... 750.00
Stock Rest (weight 100 lbs.)... 30.00

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

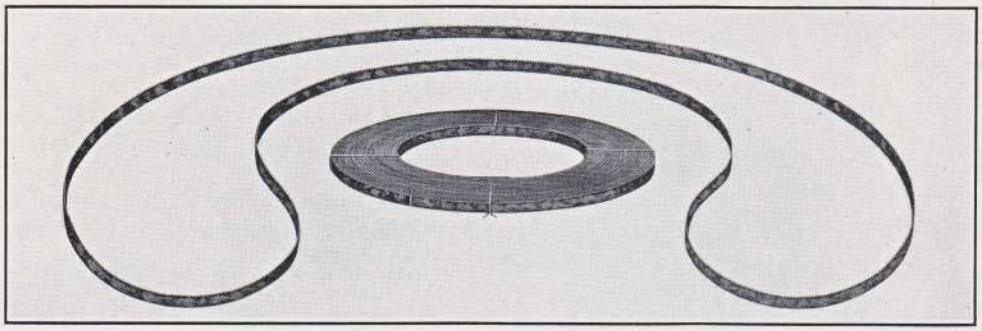
FLEXIBLE BACK METAL BAND SAWS FOR ABOVE MACHINE—Hard teeth, annealed back

Width	Gauge	Ft. in Lb. (Approx.)	Price per Ft. Cut to Length	Price per Lb. in Coils	Width	Gauge	Ft. in Lb. (Approx.)	Price per Ft. Cut to Length	Price per Lb. in Coils
¼	.025	60	14c	$8.40	⅝	.031	16	18c	$2.88
⅜	.025	35	15c	5.26	¾	.031	12	20c	2.40
½	.025	25	16c	4.00	1	.036	9	24c	2.16

Saws are made with 8, 10, 12, 14, 18, 24 or 32 teeth per inch. For cutting all kinds of metals.

In ordering, state the kind of material to be cut, and size. In computing price on brazed saws, if they measure 6" or more over the even foot, an extra foot is charged for, and if less than 6" over the even foot, no charge is made; for example, a brazed saw 15' 8" long will be computed as 16', but if 16' 4", it will be figured as 16'. Brazing, extra, ¼", ⅜", ½", ⅝" 25c net; ¾" 30c net; 1" 35c net.

ATKINS METAL CUTTING BAND SAW BLADES
FLEXIBLE BACK HACK BAND SAWS



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

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

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

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

Brazing extra 3/16", 3/8", 1/4", 1/2" ..... $0.20 net per saw
5/8" ..... .25 net per saw
3/4", 1" ..... .30 net per saw

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

TEMPER TO ORDER

Temper A—Cast Steel, High Speed Steels, Nickel, Chrome, Vanadium, and similar alloy steel.
Temper B—Cold Rolled Steel, Machine Steel, Cast and Wrought Iron, Structurals, Manganese and Government Bronze.
Temper C—Aluminum, Brass, Soft Bronze, Fibre, Pressed Rawhide, Sheet Steel, Brass and Copper Tubing, and thin gauge materials.

ATKINS ALL HARD BAND SAW BLADES

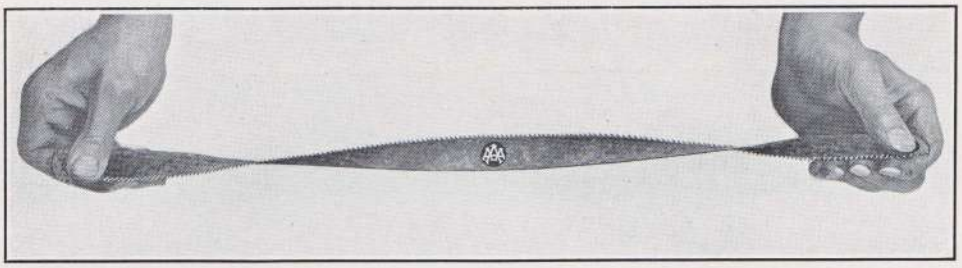
These are made from friction temper stock, for cutting soft metal, thin sheets and metal trim, at high speed. In ordering state the kind of material to be cut, and size, and also number and style tooth. "B" tooth furnished in 7 points only.

3/8" wide, 22 gauge ..... 16c per foot
1/2" wide, 21 gauge ..... 18c per foot
5/8" wide, 21 gauge ..... 20c per foot
3/4" wide, 21 gauge ..... 22c per foot
1" wide, 20 gauge ..... 26c per foot

BRAZING

1/4" to 1/2" ..... each $0.50 list
5/8" to 7/8" ..... each .60 list
1" ..... each .70 list

ATKINS NON-BREAKABLE HACK SAW BLADES



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

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

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

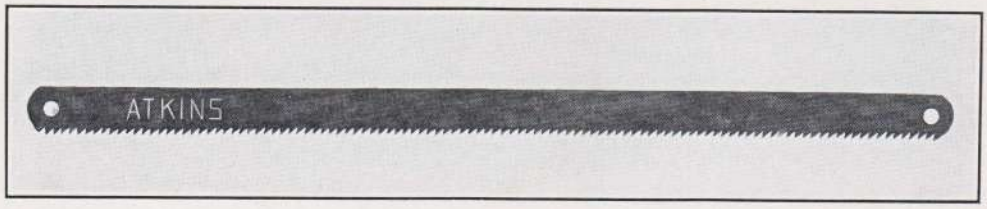
Length of hack saw blades. Hand blades all lengths are measured center to center of holes.

Machine blades up to and including 12 inches are measured center to center of holes. Machine blades longer than 12 inches are ½ inch shorter center to center of holes than the length specified in the list.

No.	Length Inches	Width Inches	Thickness or Gauge	No. Teeth per Inch	Weight per Gross, Lbs.	Price per Gross
300	8	½	.025 or 23	18	4½	$ 8.00
300	9	½	.025 or 23	18	5¼	9.00
300	10	½	.025 or 23	18	5½	10.00
300	12	½	.025 or 23	18	6½	12.00
305	12	9/16	.025 or 23	16	7¼	12.00
305	14	9/16	.025 or 23	16	8½	14.80
305	16	9/16	.025 or 23	16	10	17.00
310	8	½	.025 or 23	24	4½	8.00
310	9	½	.025 or 23	24	5¼	9.00
310	10	½	.025 or 23	24	5½	10.00
310	12	½	.025 or 23	24	6½	12.00
315	8	½	.025 or 23	32	4½	8.00
315	9	½	.025 or 23	32	5¼	9.00
315	10	½	.025 or 23	32	5½	10.00
315	12	½	.025 or 23	32	6½	12.00
320	8	9/16	.028 or 22	14	5	10.80
320	9	9/16	.028 or 22	14	6	12.00
320	10	9/16	.028 or 22	14	6½	13.08
320	12	9/16	.028 or 22	14	8	15.24
320	14	9/16	.028 or 22	14	9	17.52
320	16	9/16	.028 or 22	14	11	19.80
325	12	5/8	.028 or 22	14	9½	16.80
325	14	5/8	.028 or 22	14	10½	19.44
325	17	5/8	.028 or 22	14	13	23.40
330	12	5/8	.028 or 22	18	9½	16.80
330	14	5/8	.028 or 22	18	10½	19.44
330	17	5/8	.028 or 22	18	13	23.40
335	12	¾	.032 or 21	14	12	21.36
335	14	¾	.032 or 21	14	14	24.36
335	17	¾	.032 or 21	14	16½	29.04
335	18	¾	.032 or 21	14	17¾	30.48
335	20	¾	.032 or 21	14	20¼	33.72

ATKINS "AAA" HACK SAW BLADES

"ALL-HARD" HAND BLADES



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

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

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

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

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

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

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

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

It is inadvisable to oil hack saw blades for hand use. Special lubricants are prepared for high-speed power cutting. See note on Atkins Kooling Kompound, page 131.

We shall be very glad of an opportunity to submit, free of charge, sample hack saw blades for comparative tests. Do not feel that you are placing yourself under any obligations by asking for this service.

Should you have difficulty in operating your hack saw blades to the best advantage, and will write us, it is possible that we can make some suggestions. This service is at your disposal.

No.	Length Inches	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	8	1/2	.025 or 23	18	4 1/2	$8.00	215	8	1/2	.025 or 23	32	4 1/2	$8.00
200	9	1/2	.025 or 23	18	5 1/4	9.00	215	9	1/2	.025 or 23	32	5 1/4	9.00
200	10	1/2	.025 or 23	18	5 1/2	10.00	215	10	1/2	.025 or 23	32	5 1/2	10.00
200	12	1/2	.025 or 23	18	6 1/2	12.00	215	12	1/2	.025 or 23	32	6 1/2	12.00
205	12	9/16	.025 or 23	16	7 1/4	12.00	220	8	9/16	.028 or 22	14	5	10.80
205	14	9/16	.025 or 23	16	8 1/2	14.80	220	9	9/16	.028 or 22	14	6	12.00
205	16	9/16	.025 or 23	16	10	17.00	220	10	9/16	.028 or 22	14	6 1/2	13.08
210	8	1/2	.025 or 23	24	4 1/2	8.00	220	12	9/16	.028 or 22	14	8	15.24
210	9	1/2	.025 or 23	24	5 1/4	9.00	220	14	9/16	.028 or 22	14	9	17.52
210	10	1/2	.025 or 23	24	5 1/2	10.00	220	16	9/16	.028 or 22	14	11	19.80
210	12	1/2	.025 or 23	24	6 1/2	12.00							

Sizes not listed take same list as next size larger.

ATKINS "AAA" POWER HACK SAW BLADES

FOR LIGHT GRAVITY FEED MACHINES

SIZES NOT LISTED TAKE SAME LIST AS NEXT SIZE LARGER

No.	Length Inches	Width Inches	Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross	No.	Length Inches	Width Inches	Thickness or Gauge	No. Teeth per Inch	Weight per Gross Lbs.	Price per Gross
400	10	5/8	.028 or 22	14	7¾	$14.40	400	17	5/8	.028 or 22	14	13	$23.40
400	12	5/8	.028 or 22	14	9½	16.80	402	12	5/8	.028 or 22	18	9½	16.80
400	14	5/8	.028 or 22	14	10½	19.44	402	14	5/8	.028 or 22	18	10½	19.44

FOR HEAVY GRAVITY FEED AND POSITIVE FEED

409	12	¾	.032 or 21	18	12	$21.36	422	12	¾	.048 or 18	10	18½	$28.92
409	14	¾	.032 or 21	18	14	24.36	422	14	¾	.048 or 18	10	21½	33.12
410	12	¾	.032 or 21	14	12	21.36	422	17	¾	.048 or 18	10	28	39.72
410	14	¾	.032 or 21	14	14	24.36	423	14	1	.048 or 18	18	27	43.56
410	17	¾	.032 or 21	14	16½	29.04	423	17	1	.048 or 18	18	33	51.72
410	18	¾	.032 or 21	14	17¾	30.48	423	18	1	.048 or 18	18	34½	54.36
410	20	¾	.032 or 21	14	20¼	33.72	425	12	1	.048 or 18	14	23	37.92
415	12	¾	.048 or 18	14	16¼	28.92	425	14	1	.048 or 18	14	25	43.56
415	14	¾	.048 or 18	14	19¼	33.12	425	17	1	.048 or 18	14	27	51.72
422	10	¾	.048 or 18	10	16	24.72	425	18	1	.048 or 18	14	34½	54.36

FOR HEAVY GRAVITY FEED

430	12	1	.048 or 18	12	24½	$37.92	440	24	1	.065 or 16	10	60	$79.32
430	14	1	.048 or 18	12	27	43.56	440	30	1	.065 or 16	10	66	98.64
430	16	1	.048 or 18	12	20	49.08	440	32	1	.065 or 16	10	72	105.00
430	17	1	.048 or 18	12	33	51.72	441	14	1	.065 or 16	14	35½	50.88
430	18	1	.048 or 18	12	34½	54.36	441	17	1	.065 or 16	14	43	59.52
430	20	1	.048 or 18	12	38¾	59.52	441	18	1	.065 or 16	14	48	62.04
430	24	1	.048 or 18	12	46	70.32	441	24	1	.065 or 16	14	60	79.32
435	12	1	.048 or 18	10	24½	37.92	442	14	1	.065 or 16	8	35½	50.88
435	14	1	.048 or 18	10	27	43.56	442	17	1	.065 or 16	8	43	59.52
435	17	1	.048 or 18	10	33	51.72	442	18	1	.065 or 16	8	48	62.04
435	18	1	.048 or 18	10	34¼	54.36	442	24	1	.065 or 16	8	60	79.32
435	20	1	.048 or 18	10	38¾	59.52	445	17	1	.065 or 16	8	43	59.52
435	24	1	.048 or 18	10	46	70.32	445	18	1	.065 or 16	8	48	62.04
436	12	1	.048 or 18	8	24½	37.92	445	24	1	.065 or 16	8	60	79.32
436	14	1	.048 or 18	8	27	43.56	445	30	1	.065 or 16	8	66	98.64
436	17	1	.048 or 18	8	33	51.72	447	17	1½	.065 or 16	6	86	85.32
436	18	1	.048 or 18	8	34½	54.36	447	18	1½	.065 or 16	6	96	90.24
436	20	1	.048 or 18	8	38¾	59.52	447	20	1½	.065 or 16	6	104	99.84
436	24	1	.048 or 18	8	46	70.32	447	24	1½	.065 or 16	6	128	119.04
440	14	1	.065 or 16	10	35½	50.88	447	30	1½	.065 or 16	6	160	147.84
440	16	1	.065 or 16	10	39	56.88	447	36	1½	.065 or 16	6	190	176.76
440	17	1	.065 or 16	10	43	59.52	450	18	1½	.065 or 16	10	96	90.24
440	18	1	.065 or 16	10	48	62.04	450	20	1½	.065 or 16	10	104	99.84
440	19	1	.065 or 16	10	48½	65.04	450	24	1½	.065 or 16	10	128	119.04
440	20	1	.065 or 16	10	49½	67.92	450	30	1½	.065 or 16	10	160	147.84
440	21	1	.065 or 16	10	52	70.44	450	33	1½	.065 or 16	10	176	162.36
440	22	1	.065 or 16	10	55	73.32	450	36	1½	.065 or 16	10	190	176.76
440	23	1	.065 or 16	10	58	76.44	.....	.....	.....	.....	.....	.....	.....

The excellence of Atkins AAA Power Hack Saw Blades is due to the special Tungsten Alloy Steel, milled teeth, even light set, round gullet, and careful tempering process. Each blade is inspected before it is packed, and every blade must pass a very rigid inspection, consequently, you can buy these blades confident that they will give you the most cuts per saw, and therefore per dollar.

ATKINS CHART OF HACK SAW BLADES FOR CUTTING VARIOUS MATERIALS

Material to Be Cut	Atkins "All Hard" Hand Hack Saw Blades					Atkins Non-Breakable Flexible Back Hand Hack Saw Blades					Atkins "All Hard" Hack Saw Blades for a Light Power Machine						Atkins "All Hard" Hack Saw Blades of a Medium Weight Machine					
	Cat. No.	Pitch	Gauge	Width	Length	Cat. No.	Pitch	Gauge	Width	Length	Cat. No.	Pitch	Gauge	Width	Length	Speed in Strokes Per Min.	Cat. No.	Pitch	Gauge	Width	Length	Speed in Strokes Per Min.
Aluminum	220	14	22	9/16	8–16	320	14	22	9/16	8–16	410	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Angles, Light	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	409	18	21	3/4	10–17	60
Angles, Heavy	402	18	22	5/8	12–20	300	18	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Babbitt	205	16	23	9/16	8–14	305	16	23	9/16	8–14	410	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Brass	200	18	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	415	14	18	3/4	10–17	60
Brass Pipe	210	24	23	1/2	8–12	315	32	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	3/4	12–24	60
Bronze	220	14	22	9/16	8–16	320	14	22	9/16	8–16	409	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Cable, Insulated	200	18	23	1/2	8–12	300	18	23	1/2	8–12	....	....	....	....	....	....	....	....	....	....	....	....
Cast Iron	402	18	22	5/8	12–20	320	14	22	9/16	8–16	409	18	21	3/4	10–17	50	415	14	18	3/4	10–17	60
Channels, Light	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	409	18	21	3/4	10–17	60
Channels, Heavy	402	18	22	5/8	12–20	300	18	23	1/2	8–12	410	14	21	3/4	10–17	50	423	18	18	1	12–24	60
Cold Rolled Steel	220	14	22	9/16	8–16	320	14	22	9/16	8–16	410	14	21	3/4	10–17	50	422	10	10	3/4	10–17	60
Conduit	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	....	....	....	....	....	....
Copper	400	14	22	5/8	8–20	310	24	23	1/2	8–12	410	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Cord Tire Wires	210	24	23	1/2	8–12	310	24	23	1/2	8–12	....	....	....	....	....	....	....	....	....	....	....	....
Drill Rod	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	415	14	18	3/4	10–17	50
Electrical Casings	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	....	....	....	....	....	....
Fibre Paper	220	14	22	9/16	8–16	320	14	22	9/16	8–16	....	....	....	....	....	....	....	....	....	....	....	....
Hard Rubber	220	14	22	9/16	8–16	320	14	22	9/16	8–16	....	....	....	....	....	....	....	....	....	....	....	....
Machine Steel	220	14	22	9/16	8–16	320	14	22	9/16	8–16	410	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Metal Trim, under 18 ga. thick	215	32	23	1/2	8–12	315	32	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Metal Trim, over 18 ga. thick	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	415	14	18	3/4	10–17	60
Ornamental Iron	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Pipe, Iron and Steel	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Rails	400	14	22	5/8	8–20	305	16	23	9/16	8–14	410	14	21	3/4	10–17	50	415	14	18	3/4	10–17	50
Rails, Extra Heavy	410	14	21	3/4	12–20	410	14	21	3/4	12–20	415	14	18	3/4	10–17	50	430	12	18	1	12–24	50
Sheet Metal, under 18 ga. thick	215	32	23	1/2	8–12	315	32	23	1/2	8–12	....	....	....	....	....	....	....	....	....	....	....	....
Sheet Metal, over 18 ga. thick	210	24	23	1/2	8–12	310	24	23	1/2	8–12	....	....	....	....	....	....	....	....	....	....	....	....
Solid Stock, Cold Rolled, Machine	200	18	23	1/2	8–12	300	18	23	1/2	8–12	410	14	21	3/4	10–17	50	422	10	18	3/4	10–17	60
Structurals, Light	220	14	22	9/16	8–16	320	14	22	9/16	8–16	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Structurals, Heavy	220	14	22	9/16	8–16	320	14	22	9/16	8–16	410	14	21	3/4	10–17	50	415	14	18	3/4	10–17	60
Tee Iron, Light	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	409	18	21	3/4	10–17	60
Tee Iron, Heavy	402	18	22	5/8	12–20	300	18	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60
Tin	210	24	23	1/2	8–12	315	32	23	1/2	8–12	....	....	....	....	....	....	....	....	....	....	....	....
Tool Steel	200	18	23	1/2	8–12	300	18	23	1/2	8–12	410	14	21	3/4	10–17	50	415	14	18	3/4	10–17	50
Tubing, over 18 ga. thick	210	24	23	1/2	8–12	310	24	23	1/2	8–12	409	18	21	3/4	10–17	50	409	18	21	3/4	10–17	60
Tubing, under 18 ga. thick	215	32	23	1/2	8–12	315	32	23	1/2	8–12	409	18	21	3/4	10–17	50	423	18	18	1	12–24	60

ATKINS CHART OF HACK SAW BLADES FOR CUTTING VARIOUS MATERIALS—Continued

INCLUDING BAND SAW BLADES.

Material to Be Cut	Atkins "All Hard" Hack Saw Blades for Heavy Machine						Atkins "All Hard" Hack Saw Blades for Extra Heavy Machine						Atkins Hack Band Saw Blades for Slow Speed Machine					Atkins "All Hard" Band Blades for High Speed Machine				
	Cat. No.	Pitch	Gauge	Width	Length	Speed in Strokes Per Min.	Cat. No.	Pitch	Gauge	Width	Length	Speed in Strokes Per Min.	Width	Gauge	Pitch	Temper	Speed in Feet Per Min.	Width	Gauge	Pitch	Temper	Speed in Feet Per Min.
Aluminum	436	8	18	1	12–18	60	445	8	16	1	12–18	60	.....	.....	.....	.....	.....	1/2–3/4	21	7	*	1000
Angles, Light	423	18	18	1	12–24	70	441	14	16	1	12–18	70	.....	.....	.....	.....	.....	1/2–3/4	21	9	*	4000
Angles, Heavy	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8	.031	18	B	200	5/8–3/4	21	9	*	4000
Babbitt	430	12	18	1	10–24	70	440	10	16	1	10–24	70	5/8	.031	8	B	200	.....	.....	.....	.....	.....
Brass	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8	.031	18	C	200	1/2–3/4	21	8	*	1000
Brass Pipe	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8	.031	24	C	200	1/2–3/4	21	9	*	1000
Bronze	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8	.031	8	C	200	1/2–3/4	21	8	*	1000
Cast Iron	430	12	18	1	10–24	70	440	10	16	1	10–24	70	5/8, 3/4	.031	12	B	150	.....	.....	.....	.....	.....
Channels, Light	423	18	18	1	12–24	70	441	14	16	1	12–18	70	.....	.....	.....	.....	.....	1/2–3/4	21	9	*	4000
Channels, Heavy	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	18	B	200	.....	.....	.....	.....	.....
Cold Rolled Steel	435	10	18	1	10–24	80	440	10	16	1	10–24	80	5/8–1	.031	10	B	125	.....	.....	.....	.....	.....
Copper	436	8	18	1	12–18	70	445	8	16	1	12–18	70	5/8, 3/4	.031	8	C	200	1/2–3/4	21	6	*	1000
Drill Rod	430	12	18	1	10–24	60	440	10	16	1	10–24	60	5/8, 3/4	.031	14	A	100	.....	.....	.....	.....	.....
Machine Steel	435	10	18	1	10–24	80	445	8	16	1	12–18	80	5/8–1	.031	10	B	125	.....	.....	.....	.....	.....
Metal Trim, under 18 ga. thick	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5/8–3/4	21	9	*	4000
Metal Trim, over 18 ga. thick	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5/8–3/4	21	8	*	4000
Ornamental Iron	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8–3/4	.031	12	B	150	.....	.....	.....	.....	.....
Pipe, Iron and Steel	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8–3/4	.031	14	C	150	.....	.....	.....	.....	.....
Rails	435	10	18	1	10–24	70	445	8	16	1	12–18	70	5/8–1	.031	12	A	100	.....	.....	.....	.....	.....
Rails, Extra Heavy	440	10	16	1	10–24	60	450	10	16	1 1/2	12–36	60	3/4–1	.036	10	A	100	.....	.....	.....	.....	.....
Sheet Metal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1/2–5/8	21	9	*	4000
Solid Stock, Cold Rolled, Machine	435	10	18	1	10–24	80	440	10	16	1	10–24	80	5/8–1	.031	10	B	125	.....	.....	.....	.....	.....
Structurals, Light	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	14	B	150	1/2–5/8	21	9	*	4000
Structurals, Heavy	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	12	B	125	.....	.....	.....	.....	.....
Tee Iron, Light	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	14	B	150	1/2–5/8	21	9	*	4000
Tee Iron, Heavy	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8–1	.031	14	B	125	.....	.....	.....	.....	.....
Tool Steel	425	14	18	1	12–24	50	442	12	16	1	12–18	50	5/8–1	.031	14	A	100	.....	.....	.....	.....	.....
Tubing, over 18 ga. thick	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	18	C	200	.....	.....	.....	.....	.....
Tubing, under 18 ga. thick	423	18	18	1	12–24	70	441	14	16	1	12–18	70	5/8, 3/4	.031	24	C	200	1/2–5/8	21	9	*	4000

*Slow File temper.

ATKINS HACK SAW FRAMES

ATKINS HOOSIER EXTENSION, No. 1

High grade steel; heavily nickeled, highly polished. Takes blades 8 inches to 12 inches, inclusive. Blade can be used in four different positions. Fine enameled handle. Packed one in a box without blade unless otherwise specified.

Price..... per dozen $12.00
Weight, per dozen.....pounds 13

ATKINS INDIANA SOLID STEEL, No. 2

Nickeled and polished. Blade can be faced four different ways. Enameled handle, fine finish. Packed one in a box without blade unless otherwise specified

Size..inches	8	9	10	12
Price..doz.	$9.00	$9.60	$10.80	$13.50
Wt. doz. lbs.	10½	11¼	12	13

ATKINS 8-INCH IRON FRAME, No. 3

Frames are iron, black japanned, with black wood handles. Light, graceful in appearance, strong and rigid. Blade is held by stationary pins, which cannot be lost, and the blade can be used in four different positions. Packed one-half dozen in a box without blade.

Length...inches	8	9	10	12
Price per dozen	$5.20	$5.50	$5.85	$6.20
Wt. per doz. lbs.	20¾	21½	22¼	24½

ATKINS No. 4 GRIP HANDLE

A handle that gives the user not only greater ease of operation, but a much better control of the saw.

Frame is 4½ inches high, adjustable, blades from 8 to 12 inches may be used. Made of extra high-grade steel, ¾ inch wide and $\frac{3}{32}$ inch thick, very strong and stiff, but light. Even when extended to full length, frame is stiff and rigid because the adjusting features are sufficiently large and strong to make it so.

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

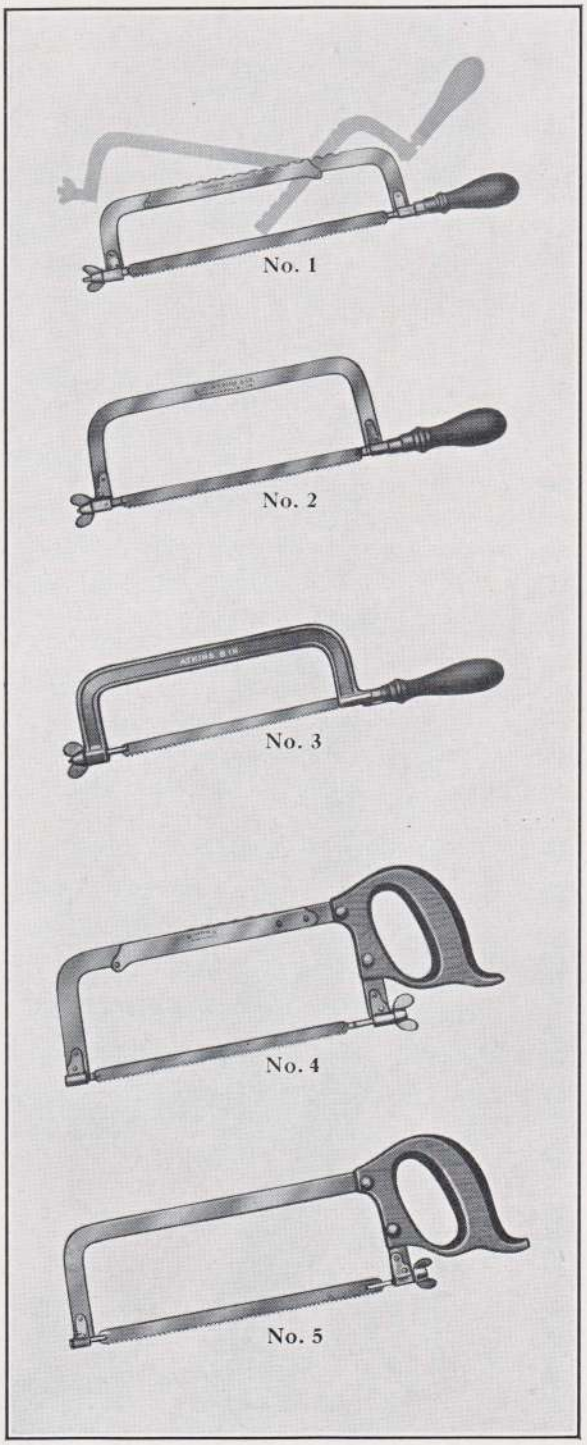
Price.....per dozen $23.50
Weight, per dozen.....pounds 12

ATKINS No. 5

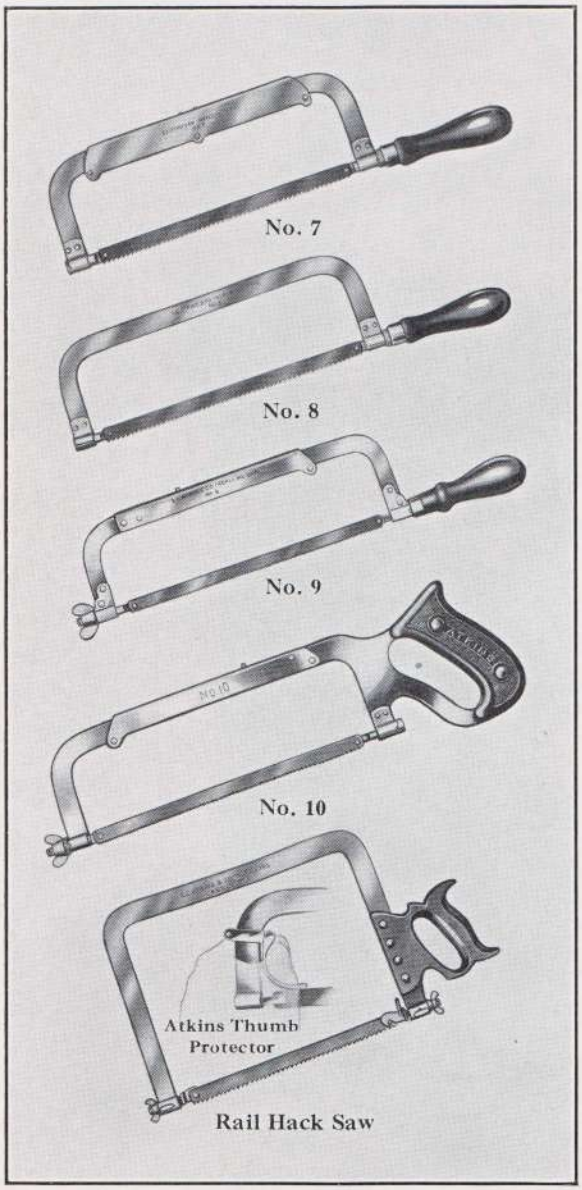
Same style handle as No. 4 with all its advantages, excepting that the frame is solid. Extra fine steel, heavily nickeled and polished. Blade can be faced four different ways. Accommodates 10-inch blade. Packed one in a box with blade unless otherwise specified.

Price.....per dozen $20.50
Weight, per dozen.....pounds 12

Nos. 2, 5 and 8 will have blades to fit. All others not specified are packed without blades.



ATKINS HACK SAW FRAMES



ATKINS No. 7

Strong, rigid extension frame, taking 8 to 12-inch blades. Peg on the under side of the frame fits into a series of holes on the upper or outer side. Handle turns to adjust tension. Can be set to four different angles. Nickel-plated, finely buffed and polished. Depth, 3 inches, width, $\frac{1}{16}$ inch thickness, $\frac{3}{16}$ inch.

Selected hardwood handle, finely finished, mahogany colored. Packed one in a box with blade.

Price.....per dozen $26.20
Weight, per dozen.....pounds 16

ATKINS No. 8

Like No. 7, without extension feature. Made for an 8, 9, 10 and 12-inch blade. Very stiff and rigid, $\frac{1}{8}$ inch wide, $\frac{3}{16}$ inch thick, rounded edge, three inches deep.

Finely finished hardwood handle. Packed one in a box with blade.

Length.....inches	8	9	10	12
Price.....per dozen	$15.25	16.00	16.75	18.25
Weight, per doz., pounds	12	12¾	13½	15

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.

Packed in individual boxes without blade, unless specified.

Price.....per dozen $10.00
Weight, per dozen.....pounds 13

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 $\frac{3}{16}$ inch thick and $\frac{3}{4}$ 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. Packed one in a box with blade.

Price.....per dozen $39.75
Weight, per dozen.....pounds 24

ATKINS RAIL HACK SAWS

A frame of Special Spring Steel ¼ inch wide, ¼ inch thick, adapted to heavy cutting such as rails, I-beams, girders, etc. Made in seven sizes to handle a wide range of work. Nos. 4, 5 and 6 have handles on both ends. A double turnbuckle secures a heavy tension on the blade.

Seasoned hardwood handles, polished edges, fastened by four brass screws. Packed one in a box.

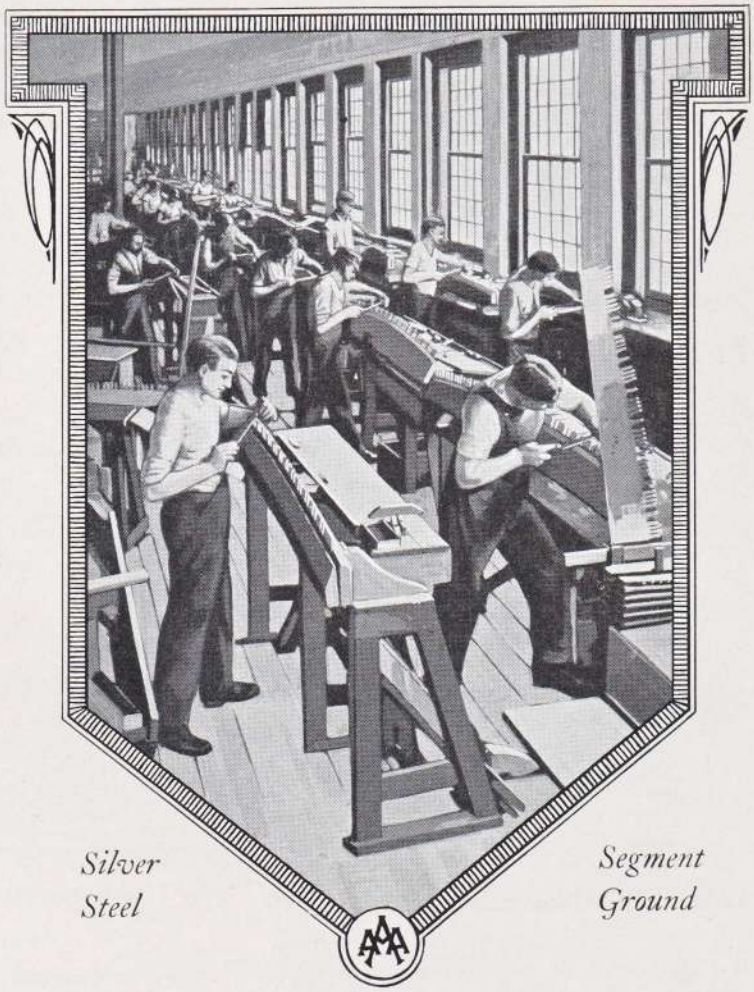
Note: We recommend the use of Atkins No. 400 AAA Hack Saw Blades in connection with the Rail Hack frames. These blades are listed on page 143.

ATKINS THUMB PROTECTOR
$3.00

SPECIFICATIONS OF RAIL HACK SAWS

No.	Under Back Inches	Length Blade Inches	Weight Each Pounds	Price Without Blades per Doz.
1	7	9	3 13/16	$28.10
1½	7	12	4	30.70
2	10	12	5⅜	32.85
3	10	14	5¾	35.30
4	10	17	6½	43.00
5	10	18	6⅝	44.10
6	10	20	7	63.40

ATKINS CROSS CUT SAWS



Silver Steel

Segment Ground

ATKINS CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND

The most essential feature in the manufacture of a cross cut saw is the material used in the blade.

Cross cut saw steel must be hard and tough, so as to prevent the teeth from bending or dulling easily, and that they may hold their set. It must withstand hard knots and obstructions. Furthermore it should file and set readily to save the filer unnecessary time in refitting. Yet it must not be brittle, else the teeth and points will break off in use, or in refitting.

The steel that will measure up to these conditions to the highest degree is best adapted for cross cut saws. We subject each plate to the most minute analysis and physical test, hence we are in position to know that each saw of our make is the best that can be made.

SILVER STEEL

The formula for Silver Steel is our own exclusive property. It contains most effective ingredients. It is exceedingly close and smooth grained, and while it files easily, it will, at the same time, take an exceedingly hard, tough temper which enables it to hold its keen cutting edge a remarkable length of time. It is actually as fine in quality as the steel used in high-grade razor blades.

TEMPER

A careful analysis is made in our laboratory to be absolutely sure that it is fully up to specifications. Should the analysis show even a slight deviation, the blade is immediately rejected.

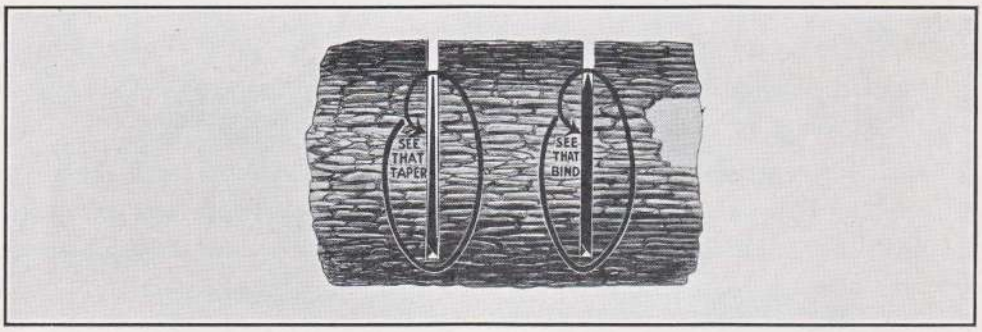
The heat treatment of all cross cut saws is ordered by the chemist, based upon his analysis. This is applied scientifically so that there is no possibility of the least variation.

Each blade, however, is rigidly inspected, thereby avoiding shipment of any but perfect saws.

These safeguards enable us to warrant Atkins Silver Steel Cross Cut Saws to be of perfect temper and construction and so thoroughly are we convinced of their merits, that we positively guarantee that they will not only run easier and cut faster, but that they will hold a sharp cutting edge at least one-fourth longer than any other cross cut.

Every Silver Steel Cross Cut Saw is plainly marked with the words "Silver Steel" and "E. C. Atkins & Co." on the blade. None others are genuine.

ATKINS SEGMENT GRINDING PROCESS



Atkins Segment Grinding Old Style Straight Grinding

E. C. Atkins & Company are the inventors of and own the exclusive patent rights for using the Segment Grinding process for cross cut saws.

Segment Grinding consists of finishing the blade of an absolutely even gauge along the toothed edge and from the toothed edge it is ground on the segment of a circle to the center of the back.

In other words, the standard blade is ground 14 gauge along the entire toothed edge, 17 gauge on the back at the ends, 18 to 20 gauge on center of back and from the thickest to the thinnest point on the back. Heavier saws in like proportion.

Atkins Segment Ground Cross Cut Saws, being thicker at the ends, are stiff and do not buckle, and as they are thinnest at the center of the back, they have ample clearance, enabling them to be operated easily and with very little set.

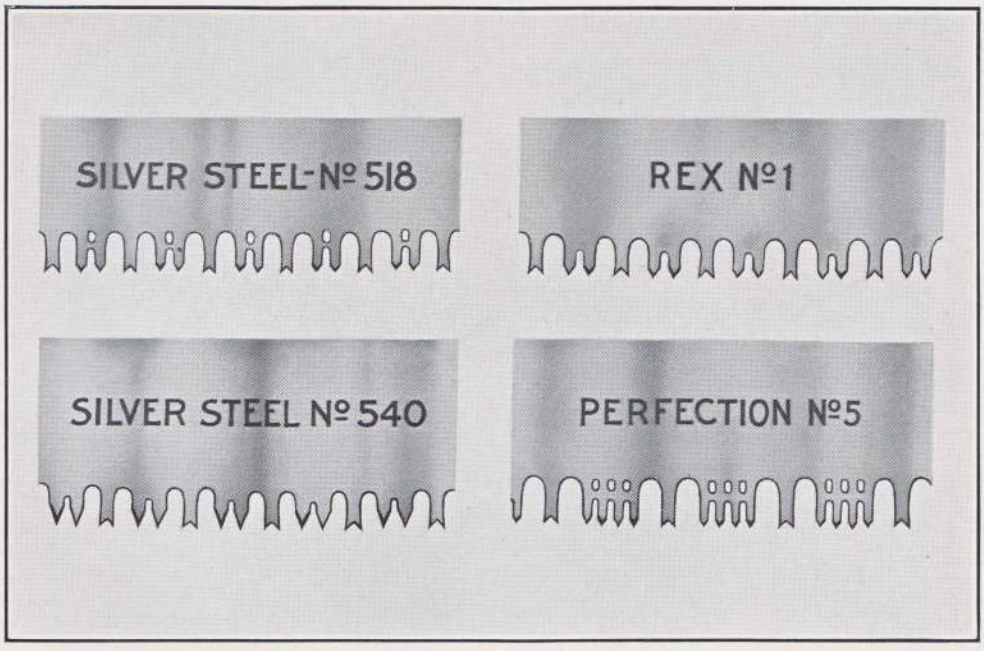
The distinction between our Segment Ground Saws and any other lies in the fact that the blades are ground as stated above on an actual segment of a circle from the toothed edge to the center of the back. This is illustrated on the left of the picture above, and shows clearly why we make the claim that Segment Ground Saws will run easier and cut faster.

The old style ordinary grinding is shown to the right in the illustration, indicating a saw simply dubbed off on the back for an inch or two. Blades constructed on this principle must rely entirely upon the set of the teeth and the use of wedges in order to secure clearance. Segment Ground Cross Cut Saws clear themselves. All Silver Steel Cross Cut Saws are Segment Ground.

SPECIFICATIONS OF TEETH

Number of Saw	Depth of Raker Gullet Inches	Width of Raker Gullet Widest Place Inches	Depth of Tooth Gullet Inches	Width of Tooth Gullet Widest Place Inches
5	1 7/8	7/8	1 5/8	1/4
4	1 7/8	7/8	1 5/8	1/4
12	1 1/2	13/16	1 5/8	1/4
1	1 1/2	11/16	15/16	3/8
3	1 5/8	3/4	15/16	7/16
11	1 3/8	5/8	1 1/16	3/8
6	1 1/4	11/16	1 1/8	7/16
221	1 9/16	7/8	1 3/8	7/16
218	1 9/16	3/4	1 3/8	3/8
331	1 1/2	3/4	1	5/16
225	1 5/8	11/16	1 5/8	7/32
379	1	7/8	7/8	15/16
386	1 1/4	9/16	1 5/16	3/16
387	1 9/16	11/16	1 9/16	7/32
540	1 3/8	9/16	1 1/8	3/16
550	1 3/8	9/16	1 1/8	3/16
551	1 7/8	7/8	1 5/8	1/4
553	1 7/8	7/8	1 5/8	1/4
556	1 7/8	7/8	1 5/8	1/4
518	1 1/2	9/16	1 1/2	5/16
741	1 5/8	1/2	1 5/8	3/16
389	1 1/8	1/2	15/16	9/16
654	1 1/2	1/2	15/16	3/16

ATKINS STYLES OF CROSS CUT TEETH



The evolution of the Cross Cut Saw from the old style "V" tooth, to the scientifically constructed teeth of the present day, has developed a great variation in the outline and specifications under which Cross Cut Saws are made.

The EASY RUNNING quality found in Atkins Silver Steel Segment Ground Cross Cut Saws is secured through the scientific principle with which the cutting teeth are designed, and we feel satisfied that if any Cross Cut Saw user subjects them to a fair, conscientious test that he will find them superior to all other cross cut saws in ease of operation, material, temper grinding and finish; that they will cut faster and hold their edge longer than any other saw.

On account of their popularity we are making the above patterns only of genuine Silver Steel, which insures saws of the greatest edge, set and tension holding qualities.

Each of these patterns will be fully described upon the following pages.

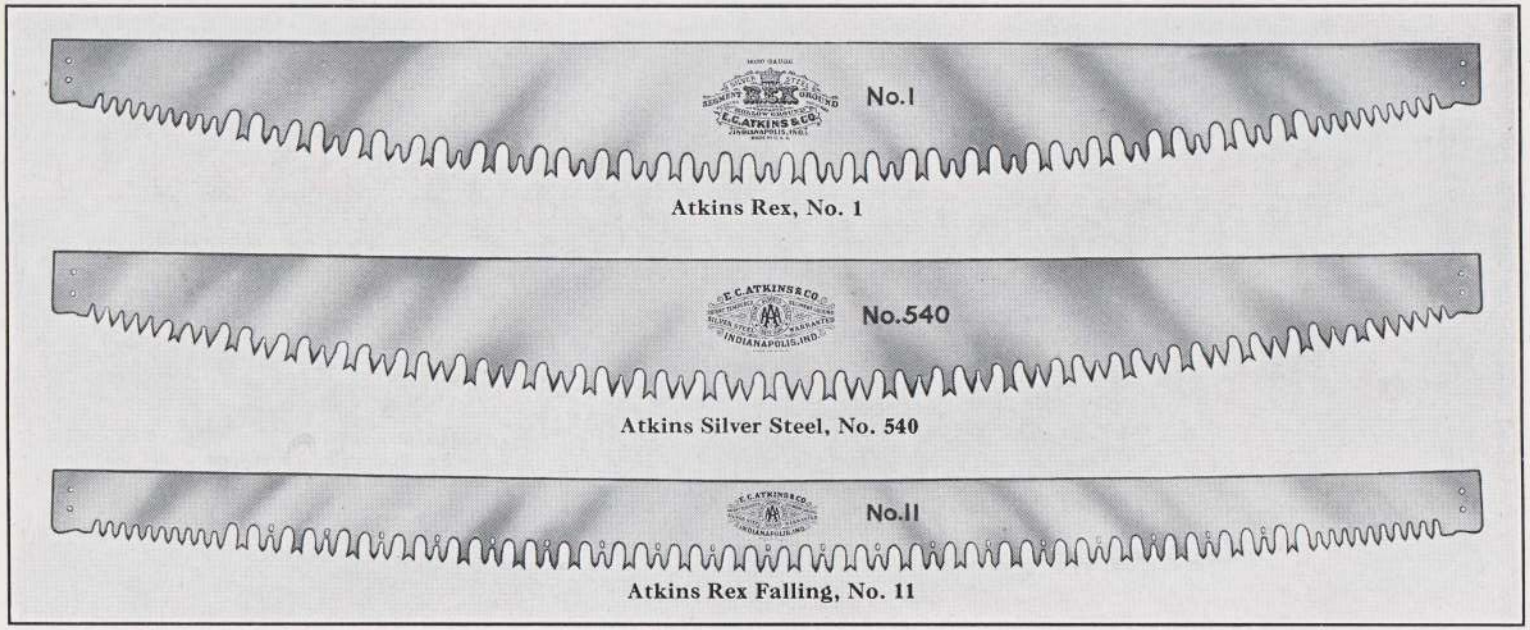
On the next page, we show a number of our patterns which have become extremely popular for general use. While these saws are employed to some extent in the lumber camps, still they are used much more frequently as general purpose saws.

For this reason, we make them not only in genuine Atkins Silver Steel, when so specified, but also of a very high quality Special Crucible Steel, at prices corresponding to the quality.

ATKINS STYLES OF CROSS CUT TEETH

ATKINS REX CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND



Atkins Rex, No. 1

Atkins Silver Steel, No. 540

Atkins Rex Falling, No. 11

These saws are made of Atkins Silver Steel and are Segment Ground, described fully on pages 149, 150 and 151. No. 1 is a wide blade and is used for heavy, soft woods such as cottonwood, yellow poplar, white pine, etc. They are among our leaders and are preferred by thousands of saw users for their easy-running, fast cutting qualities.

The No. 540 is very popular for cutting oak and other hard woods. Used by woodsmen, farmers and others who prefer quality.

The Rex No. 11 has a tooth similar to the above, but is made on a narrower plate and is perforated. A light saw, and one that has given the best of satisfaction wherever used; this saw is used for falling soft woods and for general purposes in small timber.

Length . . . . . feet	4	4½	5	5½	6	6½	7	7½	8
Price, Nos. 1, 540 and 11 . . . . . each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18.15

Prices as given below do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS PERFECTION CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND

No. 4

Atkins Silver Steel Perfection No. 4

No. 5

Atkins Silver Steel Perfection No. 5

No. 12

Atkins Silver Steel Perfection No. 12

Atkins Perfection Pattern Tooth is well known wherever cross cut saws are largely used. Designed for cutting yellow pine, hardwoods and resinous, knotty timber. Unsurpassed for speed and light running. Full description of general construction and methods of manufacture will be found on pages 149, 150, 151 and 175. These saws are used principally by expert timber cutters and woodsmen east of the Mississippi River and in the South.

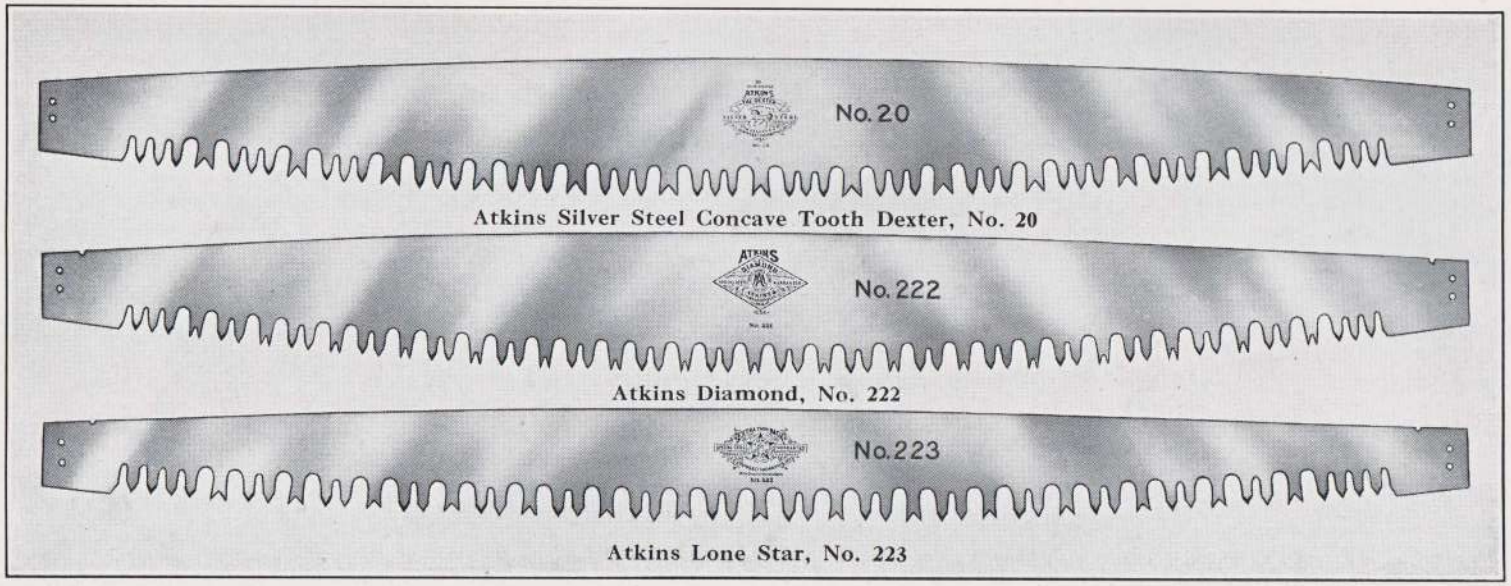
Perfection style of tooth is supplied on several different types of blade as follows: No. 5, extra wide blade. No. 4, a somewhat narrower blade used for medium sized timber. No. 12, a narrow blade used principally for falling or in cutting small timber, also furnished on Nos. 551, 553, 555.

Length ..... feet	4	4½	5	5½	6	6½	7	7½	8
Price, Nos. 4, 5, 12 ..... each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18 15

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws see page 175.

ATKINS CROSS CUT SAWS



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 Diamond is made in Silver Steel and special steel in No. 223. Atkins Lone Star 7-foot blades are 6 inches wide at center.

5 feet and under will be supplied with somewhat smaller tooth unless specified.

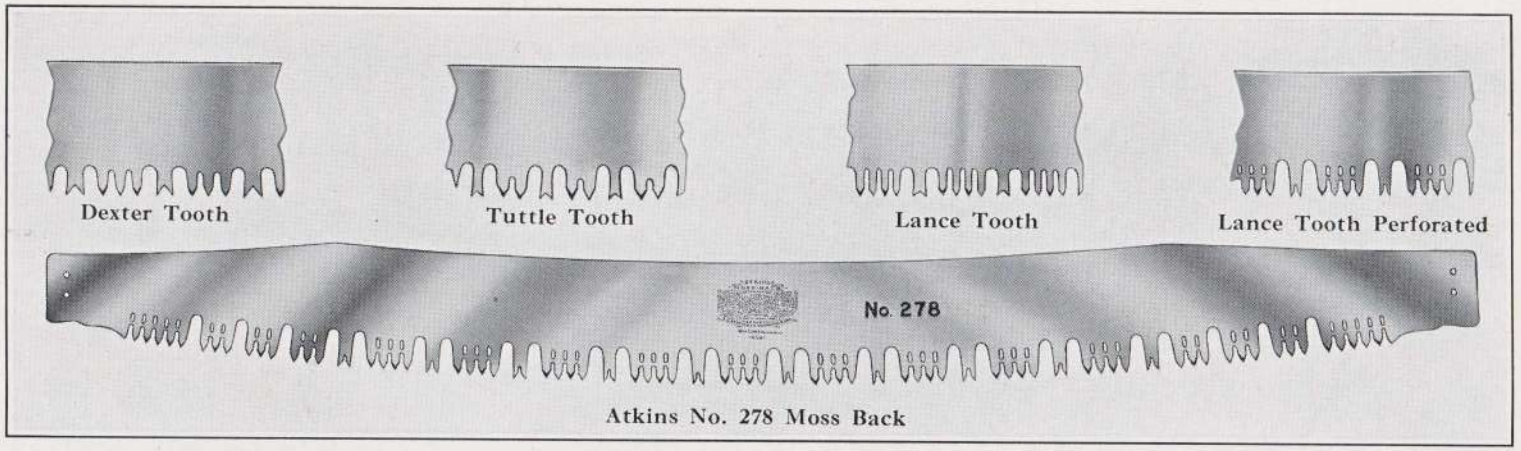
Length ..... feet	4	4½	5	5½	6	6½	7	7½	8
No. 18, Concave Tooth Dexter, Silver Steel, 14 x 16 gauge ..... each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18.15
No. 19, Concave Tooth Dexter, Silver Steel, 14 x 18 gauge ..... each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 20, Concave Tooth Dexter, Silver Steel, 14 x 19 gauge ..... each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 218, Concave Tooth Dexter, Special Steel, 14 x 16 gauge ..... each	5.45	6.25	6.95	7.70	8.30	9.00	9.70	10.40	11.10
No. 219, Concave Tooth Dexter, Special Steel, 14 x 18 gauge ..... each	5.75	6.55	7.25	7.95	8.65	9.35	10.05	10.75	11.45
No. 220, Concave Tooth Dexter, Special Steel, 14 x 19 gauge ..... each	5.75	6.55	7.25	7.95	8.65	9.35	10.05	10.75	11.45
No. 21, Diamond, Silver Steel, 14 x 16 gauge ..... each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 22, Diamond, Silver Steel, 14 x 18 gauge ..... each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 221, Diamond, Special Steel, 14 x 16 gauge ..... each	4.75	5.45	6.00	6.60	7.25	7.85	8.40	9.10	9.60
No. 222, Diamond, Special Steel, 14 x 18 gauge ..... each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50
No. 223, Lone Star, Diamond Tooth, Special Steel, 14 x 18 gauge ..... each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50
No. 224, same plate as No. 223, Lone Star, but with teeth same as Dexter No. 219 each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS MOSS BACK CROSS CUT SAWS

14 x 18 GAUGE



Atkins No. 278 Moss Back

We make the Moss Back Blade as shown in the illustrations above, in connection with a number of the most popular styles of teeth, in sizes and at lists given below. Made of Atkins Silver Steel, tempered hard and tough, and known as Atkins No. 78 Moss Back.

We also supply this blade in Atkins High-Grade Special Steel, which is given a careful temper, to withstand ordinary usage in a satisfactory manner.

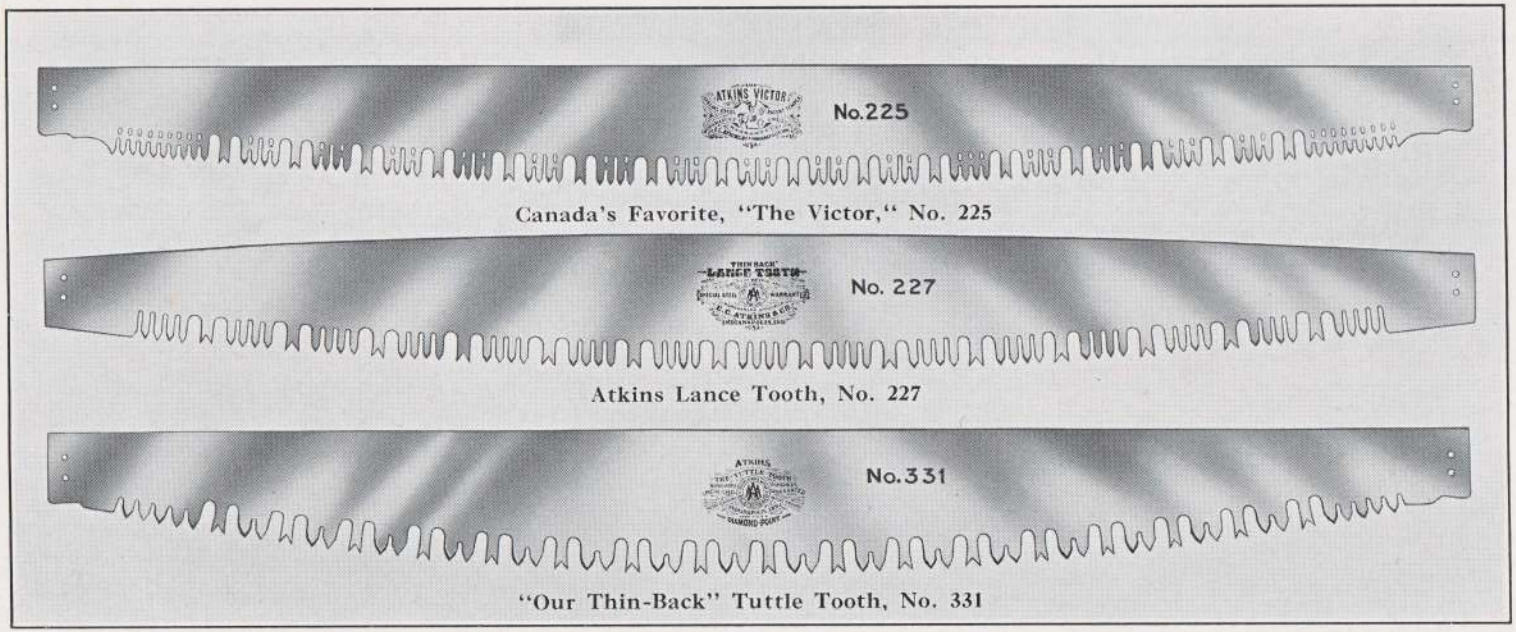
In ordering, specify style of tooth, number and length, also whether Silver Steel or Special Steel.

Length.....feet	4	4½	5	5½	6	6½	7	7½	8
No. 78, Lance Tooth, perforated, Silver Steel.....each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18.15
No. 278, Lance Tooth, perforated, Special Steel.....each	6.10	6.90	7.65	8.25	9.15	9.95	10.70	11.45	12.25
No. 77, Lance Tooth, not perforated, Silver Steel.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 277, Lance Tooth, not perforated, Special Steel.....each	5.80	6.50	7.20	7.95	8.65	9.35	10.10	10.80	11.55
No. 72, Tuttle Tooth, not perforated, Silver Steel.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 272, Tuttle Tooth, not perforated, Special Steel.....each	5.80	6.50	7.20	7.95	8.65	9.35	10.10	10.80	11.55
No. 73, Tuttle Tooth, perforated, Silver Steel.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 273, Tuttle Tooth, perforated, Special Steel.....each	6.10	6.90	7.65	8.25	9.15	9.95	10.70	11.45	12.25
No. 76, Concave Tooth Dexter, Silver Steel.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.85	16.50	18.15
No. 276, Concave Tooth Dexter, Special Steel.....each	6.10	6.90	7.65	8.25	9.15	9.95	10.70	11.45	12.25

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS CROSS CUT SAWS



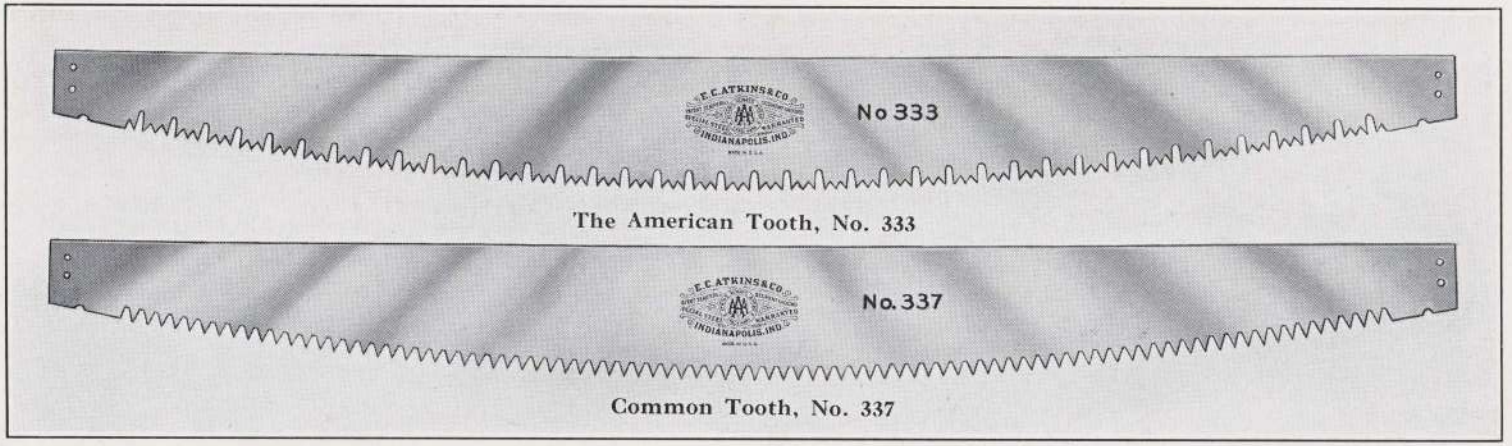
Atkins Victor, No. 225, is Canada's favorite; patented February 12, 1884. An excellent Cross Cut Saw. Atkins Lance Tooth, No. 227, is thin back, not perforated. Atkins Nos. 330, 331 and 332 are the original Tuttle Tooth, Diamond Point.

Length.....feet	4	4½	5	5½	6	6½	7	7½	8
No. 225, Victor, perforated tooth, special steel, 14 x 18 gauge.....each	$6.20	$7.00	$7.75	$8.45	$9.25	$10.05	$10.85	$11.55	$12.35
No. 227, Lance Tooth, special steel, 14 x 18 gauge.....each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50
No. 330, Thin-Back Tuttle Tooth, special steel, 14 x 16 gauge.....each	4.25	4.70	5.20	5.75	6.25	6.80	7.35	7.85	8.40
No. 331, Thin-Back Tuttle Tooth, special steel, 14 x 18 gauge.....each	4.85	5.60	6.10	6.70	7.35	7.95	8.55	9.20	9.80
No. 332, Thin-Back Tuttle Tooth, special steel, 14 x 19 gauge.....each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50

We will furnish any of the saws listed above in Silver Steel if desired. Prices as given above do not include handles. Tuttle Tooth 5 feet long and under are made with a smaller tooth than shown above unless otherwise specified.

For complete specifications of above Cross Cut Saws see page 175.

ATKINS CROSS CUT SAWS



ATKINS AMERICAN TOOTH, No. 333

Length ..... feet	4	4½	5	5½	6	6½	7	7½	8
No. 333 special steel, 14 x 16 gauge ..... each	$5.05	$5.65	$6.35	$7.00	$7.60	$8.20	$8.80	$9.55	$10.15
No. 334 special steel, 14 x 18 gauge ..... each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50

ATKINS COMMON TOOTH, No. 337

No. 337 special steel, 14 x 16 gauge ..... each	$4.25	$4.70	$5.20	$5.75	$6.25	$6.80	$7.35	$7.85	$8.40
No. 338 special steel, 14 x 18 gauge ..... each	4.70	5.30	5.90	6.45	7.05	7.70	8.20	8.80	9.45
Distance from point to point ..... inches	⅝	⅝	⅝	¾	¾	1	1	1¼	1¼

ATKINS HICKORY, No. 335 Same as No. 337, except fine teeth.

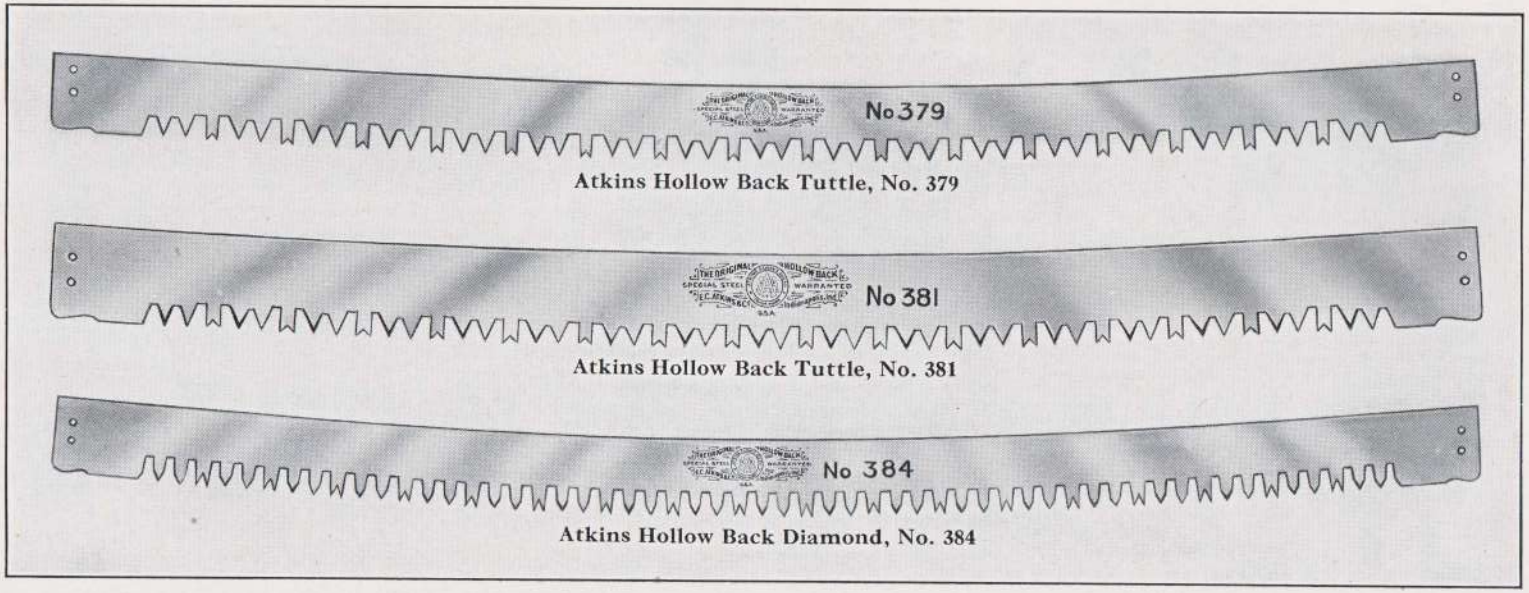
No. 335 special steel, 14 x 16 gauge ..... each	$4.25	$4.70	$5.20	$5.75	$6.25	$6.80	$7.35	$7.85	$8.40

ATKINS FEATHER EDGE, THIN-BACK, No. 336 Same as Hickory excepting 14 x 18 gauge.

No. 336 special steel, 14 x 18 gauge ..... each	$4.85	$5.60	$6.10	$6.70	$7.35	$7.95	$8.55	$9.20	$9.80

We will furnish the saws listed above in Silver Steel if desired. Regular gauge is 14 x 16. Thin-Back is 14 x 18 gauge. Prices do not include handles.
For complete specifications of above Cross Cut Saws see page 175.

ATKINS HOLLOW BACK SAWS



Atkins Hollow Back Tuttle, No. 379

Atkins Hollow Back Tuttle, No. 381

Atkins Hollow Back Diamond, No. 384

Atkins Hollow Back Tuttle, No. 379, is 3¼ inches wide at ends and center in all lengths. No. 380 is 3¾ inches wide, 13 or 14 gauge, No. 381 is 3¾ inches wide, 14 x 16 or 13 x 15. Depth of raker gullet, 1 inch. Width of raker gullet, widest place, ⅞ inch. Depth of tooth gullet, ⅞ inch. Width of tooth gullet, widest place, $\frac{15}{16}$ inch.

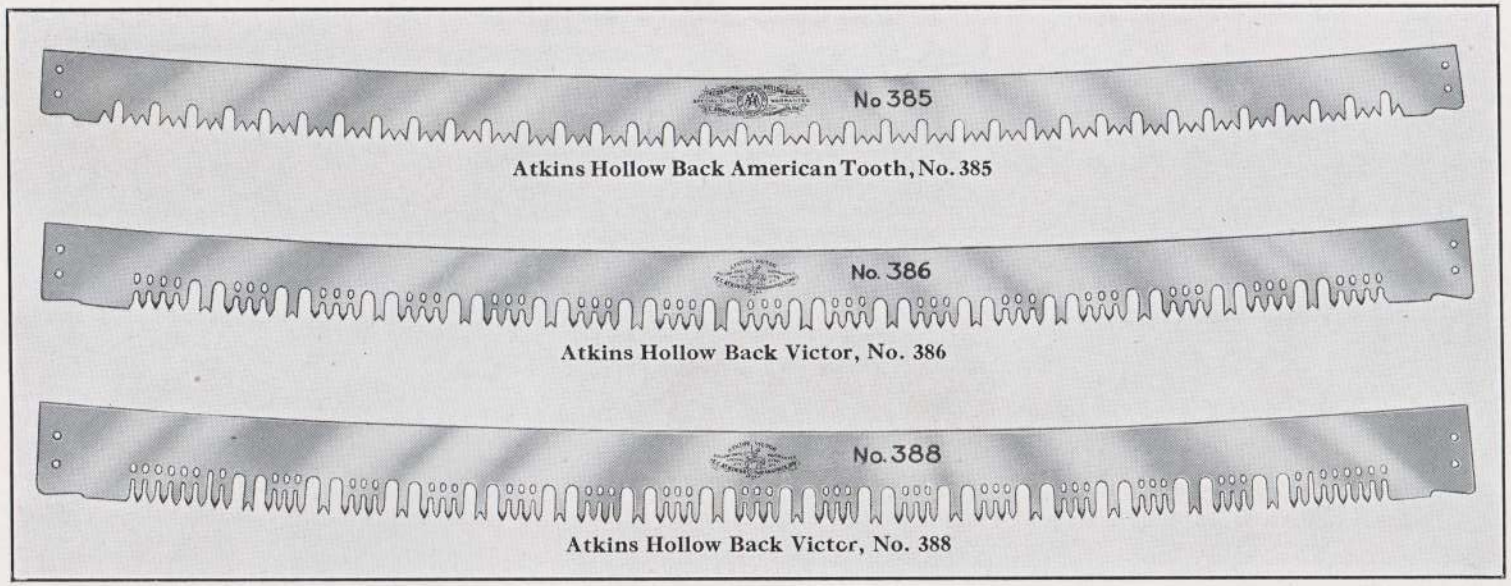
Atkins Hollow Back Diamond, No. 384, is 3¼ inches wide at ends and center in all lengths. Depth of raker gullet, 1¼ inches. Width of raker gullet, widest place, ⅞ inch. Depth of tooth gullet, 1¼ inches. Width of tooth gullet, widest place, 1⅛ inches.

All of the above saws are made in Atkins High-Grade Special Steel, carefully tempered for satisfactory service and nicely finished throughout.

Length.....feet	4	4¼	5	5½	6	6½	7	7½	8
No. 379, Tuttle Tooth, 3¼ inches wide.....each	$2.80	$3.20	$3.55	$3.90	$4.25	$4.60	$4.95	$5.30	$5.65
No. 380, Tuttle Tooth, 3¾ inches wide, 13 or 14 gauge.....each	3.00	3.35	3.70	4.05	4.40	4.85	5.20	5.55	5.90
No. 381, Tuttle Tooth, 3¾ inches wide, 14 x 16 or 13 x 15 gauge....each	3.20	3.55	3.90	4.35	4.75	5.20	5.65	6.10	6.55
No. 384, Diamond Tooth, 3¼ inches wide.....each	3.00	3.35	3.70	4.05	4.40	4.85	5.20	5.55	5.90
Weight, Nos. 379 and 384, packed 50 saws in case.....pounds	163.5	187.	205.	222.	235.	248.5	215.	280.	315.
Weight, Nos. 380 and 381, packed 50 saws in case.....pounds	227.5	238.5	271.5	310.	315.5	330.	345.5	385.	435.

Prices as given above do not include handles.

ATKINS HOLLOW BACK SAWS



Atkins Hollow Back American, No. 385, is made in one width only, 3¼ inches at both ends and centers in all lengths. The depth of raker gullet is 1⅛ inches; width of raker gullet, widest place ½ inch; depth of tooth gullet ⅝ inch; width of tooth gullet, widest place ⅝ inch.

Atkins Hollow Back Victor, No. 386, is the well known Lance Tooth Pattern. It is 3¼ inches wide at ends and centers in all lengths. Depth of raker gullet, $1\frac{5}{16}$ inch. Width of raker gullet, $\frac{9}{16}$ inch. Depth of tooth gullet, $1\frac{5}{16}$ inches. Width of tooth gullet at widest point, $\frac{3}{16}$ inch.

No. 387 is 3¾ inches wide, 14 gauge. No. 388 is 3¾ inches wide, 14 x 16 gauge. The two latter saws have raker gullet with depth of $1\frac{5}{16}$ inches; width of raker gullet widest place, $\frac{11}{16}$ inch. Depth of tooth gullet, $1\frac{5}{16}$ inches. Width of tooth gullet, widest place, $\frac{7}{32}$ inch.

All the above saws are made of Atkins High-Grade Special Steel and fully warranted.

Length ..... feet	4	4½	5	5½	6	6½	7	7½	8
No. 385, American Tooth, 3¼ inches wide ..... each	$3.00	$3.35	$3.70	$4.05	$4.40	$4.85	$5.20	$5.55	$5.90
No. 386, Victor, Lance Tooth Pattern, 3¼ inches wide ..... each	3.35	3.70	4.15	4.60	4.95	5.40	5.80	6.20	6.60
No. 387, Victor, Lance Tooth Pattern, 3¾ inches wide, 14 gauge ..... each	3.60	4.05	4.50	4.95	5.40	5.75	6.25	6.70	7.15
No. 388, Victor, Lance Tooth Pattern, 3¾ inches wide, 14 x 16 gauge ..... each	3.70	4.15	4.70	5.10	5.55	6.00	6.55	7.40	8.40
Weight, Nos. 385 and 386, packed 50 saws in a case ..... pounds	172.5	187.	205.	222.	235.	243.5	275.	280.	315.
Weight, Nos. 387 and 388, packed 50 saws in a case ..... pounds	227.5	238.5	271.5	310.	315.5	330.	345.5	385.	435.

Prices as given above do not include handles.

ATKINS ONE-MAN CROSS CUT SAWS

SEE ILLUSTRATIONS

ATKINS CEDAR KING, No. 389

The blade is of Atkins High-Grade Special Steel. The toothed edge is of even thickness, but the blade gradually tapers towards the point on the back. The teeth are same pattern as the No. 540 Cross Cut Saw on page 153. Skew back. An easy grip handle, finely carved, varnished edges, fastened to the blade with two brass screws and a medallion.

ATKINS ONE-MAN, No. 654

This saw, as illustrated, is the same pattern plate as Cedar King, taper ground. The blade has four cutting teeth and raker, perforated same as No. 741; handle is same as No. 741; it is 15 gauge on tooth edge and 17 gauge on the back at the point; the center is 18 gauge and at the butt near handle, 19 gauge.

ATKINS TAMARACK, No. 741

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

ATKINS ONE-MAN, No. 748

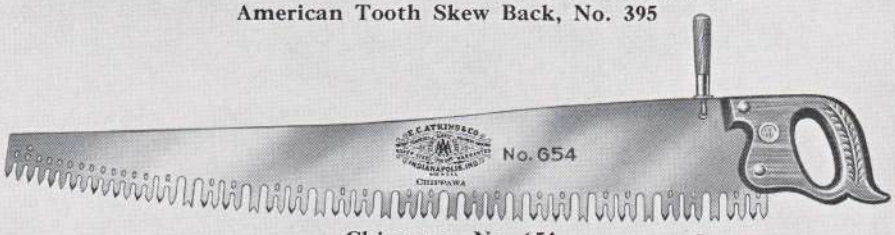
A very popular, medium priced saw. The teeth are similar in pattern to the Lance Tooth Victor Cross Cut Saw on page 162, but are smaller and not perforated. Blade of Atkins High-Grade Special Steel. Fully equal to any other maker's best quality. It is Taper Ground for clearance, being 15 gauge along the entire toothed edge, 18 gauge on back at butt, and 17 gauge on the point. The handle is extra large for use with gloves, if desired. Made of finely finished hardwood, varnished edges, and fastened to the blade with two brass screws and a medallion. **No. 749** is the same except the teeth are perforated; see page 164.

Length.....feet	2½	3	3½	4	4½	5	5½	6
Price, Nos. 389, Cedar King, 748 and 749.....each	$4.70	$5.40	$6.10	$6.70	$7.60	$8.45	$9.20	$9.95
Price, No. 654.....each	5.10	5.80	6.80	7.60	8.45	9.35	10.15	11.05
Price, No. 741.....each	5.10	5.80	6.80	7.60	8.45	9.35	10.15	11.05
Weight, packed 25 saws to case, Nos. 389, 748, 749, 741 and 654, each lbs.	110	135	150	185	220	250	280	310

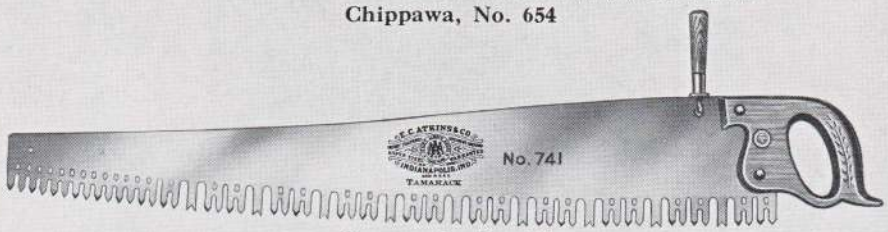
ATKINS ONE-MAN CROSS CUT SAWS

Cedar King, No. 389

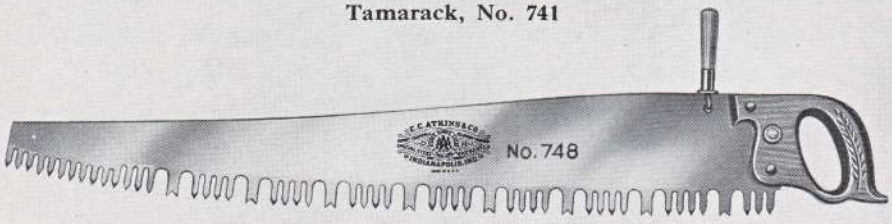
American Tooth Skew Back, No. 395



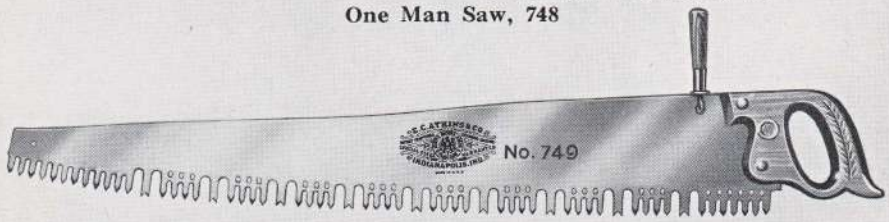
Chippawa, No. 654



Tamarack, No. 741



One Man Saw, 748



One Man Saw, No. 749

ATKINS ONE-MAN CROSS CUT SAWS

SEE ILLUSTRATIONS

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

The saws illustrated on page 166 are all made of a very fine quality of Special Crucible Steel. This steel is given an exceedingly hard, tough temper in which process we use specially constructed furnaces heated by gas. This insures great uniformity throughout the entire blade and precludes hard and soft spots.

All blades are carefully ground, which produces uniform thickness, so that Atkins One-Man Saws will of necessity run free and easy.

The handles are made of carefully selected air-dried beech and nicely finished. Varnished on the edges only. Atkins Easy Grip Pattern. Fastened to the blade with two brass screws and a brass screw medallion.

ATKINS No. 390

A general description of this saw is given below. It is made in lengths from 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 2½ to 6 feet and the teeth are similar to the regular Diamond No. 221 on page 157, though smaller.

ATKINS No. 392

We have fully described the general construction of this saw at the bottom of this page. It is made in lengths from 2½ to 6 feet and in both straight and skew back patterns. The straight back is No. 392 and skew back No. 394. Teeth are same as in the regular Victor No. 225 on page 159, but smaller.

ATKINS No. 393

This is one of our most popular patterns of One-Man Saws and the details in regard to its general construction will be found below. It is made in lengths from 2½ to 6 feet and the teeth are the same as used in the regular American No. 333 on page 160, but smaller.

ATKINS No. 395

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

No. Length, feet	2½	3	3½	4	4½	5	5½	6
390, Tuttle Tooth, special steel....each	$3.20	$3.80	$4.50	$5.10	$5.75	$6.35	$7.00	$7.60
391, Diamond Tooth, special steel..each	3.45	4.15	4.85	5.45	6.20	6.90	7.60	8.30
392, Victor Tooth, special steel.....each	3.55	4.25	4.95	5.65	6.35	7.05	7.75	8.45
394, Victor Tooth, special steel, skew back.....each	3.60	4.40	5.10	5.80	6.60	7.35	8.05	8.80
393, American Tooth, special steel..each	3.45	4.15	4.85	5.45	6.20	6.90	7.60	8.30
395, American Tooth, special steel, skew back.....each	3.55	4.25	4.95	5.65	6.35	7.05	7.75	8.45
397, Common Tooth, special steel, straight back.....each	3.20	3.80	4.50	5.10	5.75	6.35	7.00	7.60
Weight, packed 25 saws to case .. pounds	88	95.5	106.25	120.75	143.25	163.25	183.75	210

ATKINS SILVER STEEL ONE-MAN SAWS

For those desiring an unusually high-grade One-Man Saw, we can furnish any pattern shown above in Atkins Silver Steel. The use of this high-grade material in connection with the scientific construction throughout insures One-Man Saws vastly superior to any other.

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

We particularly recommend anyone desiring a strictly high-grade One-Man Saw which will receive an unusually keen, sharp cutting edge and hold it for the longest time to purchase the Silver Steel quality.

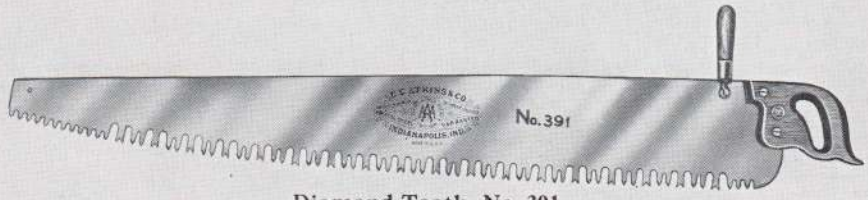
SILVER STEEL, LIST PRICE

Length.....feet	3	3½	4	4½	5	5½	6
Any pattern or style of tooth.....each	$5.80	$6.80	$7.60	$8.45	$9.35	$10.15	$11.05

ATKINS ONE-MAN CROSS CUT SAWS

Tuttle Tooth, No. 390

Common Tooth, No. 397

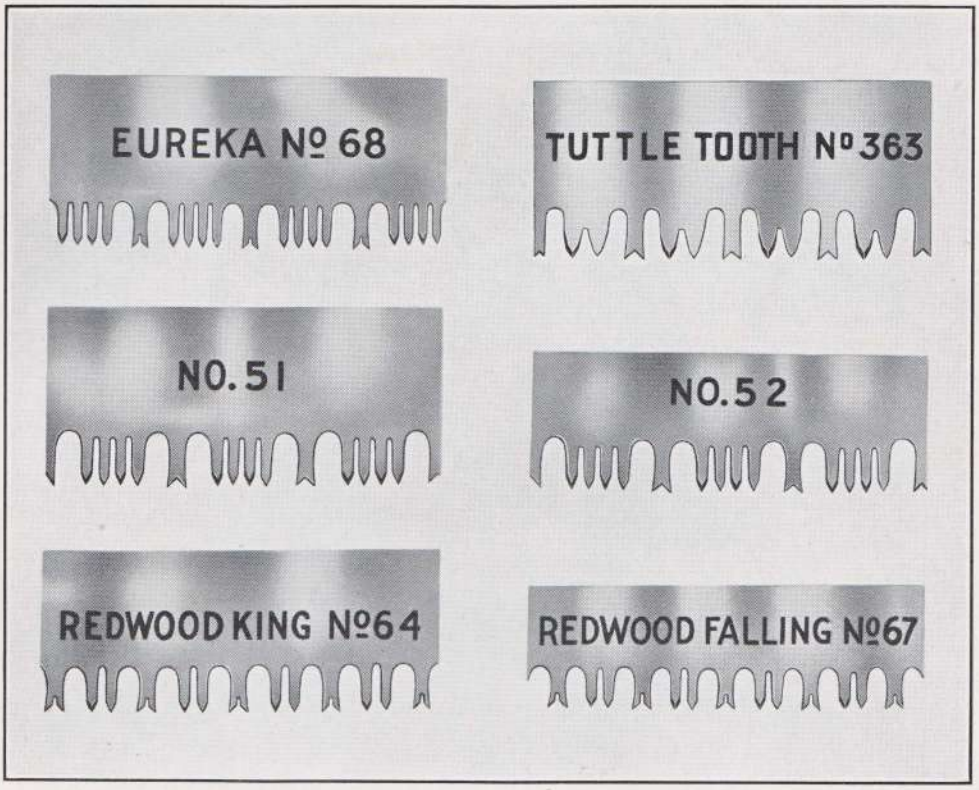


Diamond Tooth, No. 391

Victor Tooth, No. 392

The American Tooth, No. 393

ATKINS PACIFIC COAST STYLES OF CROSS CUT TEETH

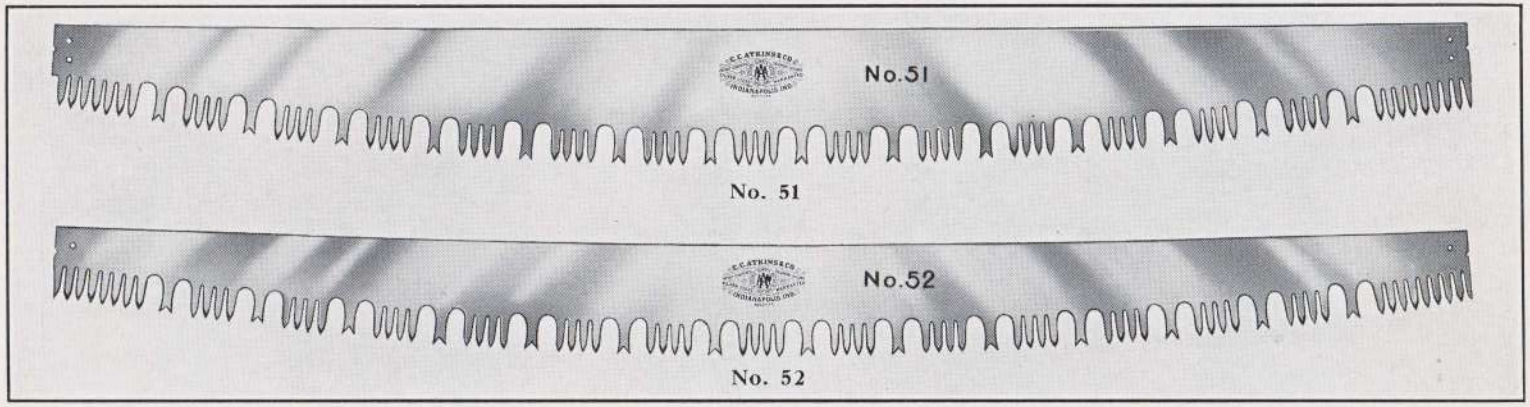


The character and large size of timber found in certain sections of the Pacific Coast have given rise to the use of several individual styles and shapes of teeth. The sections above illustrate patterns used in California, Oregon, Washington and the Inland Empire.

On the following pages we illustrate and fully describe all the various saws in use on the coast.

As it is difficult, however, in so small an illustration to give the exact construction of the teeth and rakers, we show above a few patterns in most general use. Our Cross Cut Saw Book will be mailed on request.

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.

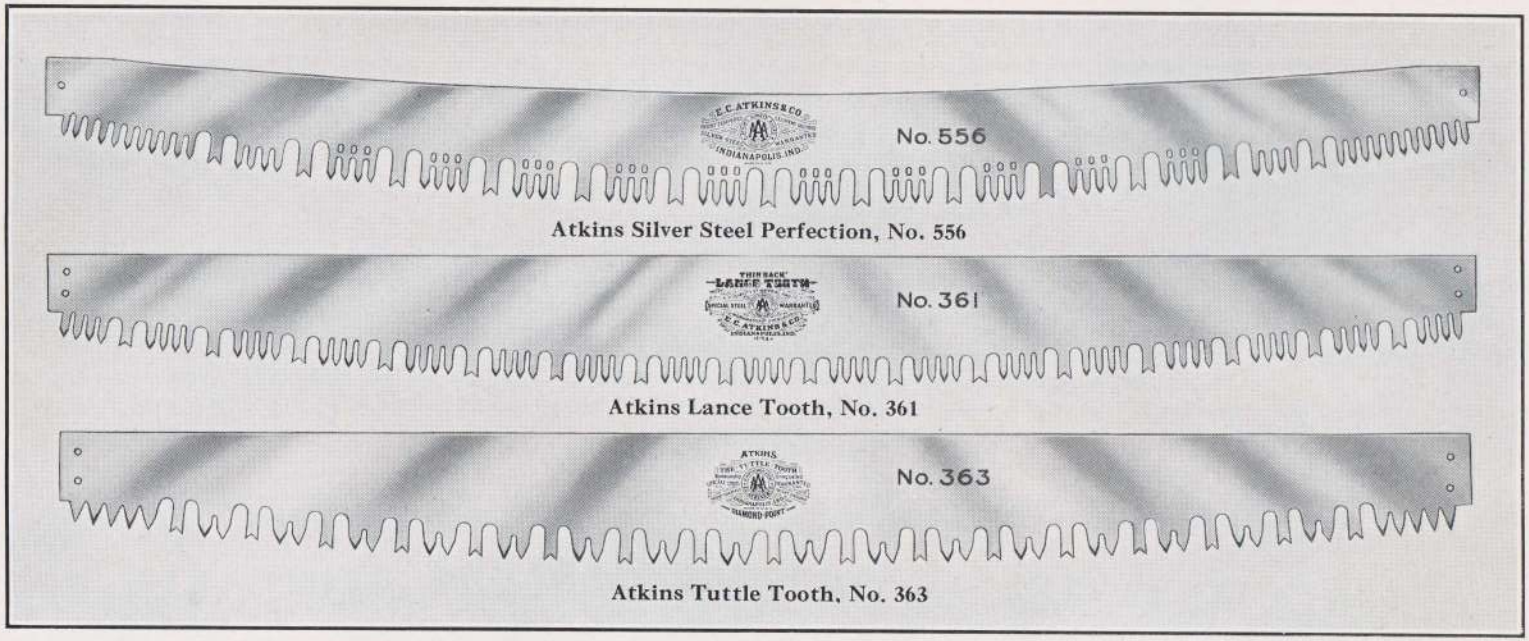
Both the above saws are also made in Atkins High-Grade Special Steel at the following list prices. In special steel, the No. 51 is known as No. 251, and the No. 52 as No. 252.

Length.....feet	5	5½	6	6½	7	7½	8	8½	9	10
No. 251, Special Steel, 13 x 17 gauge.....each	$ 8.65	$ 9.70	$10.85	$12.35	$13.70	$15.10	$16.50	$18.20	$20.05	$24.00
No. 252, Special Steel, 13 x 17 gauge.....each	8.65	9.70	10.85	12.35	13.70	15.10	16.50	18.20	20.05	24.00
No. 51, Silver Steel, 13 x 17 gauge.....each	12.70	14.30	16.15	18.20	20.20	22.25	24.45	26.80	29.30	.....
No. 52, Silver Steel, 13 x 17 gauge.....each	12.70	14.30	16.15	18.20	20.20	22.25	24.45	26.80	29.30	.....

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS



Atkins Silver Steel Perfection, No. 556

Atkins Lance Tooth, No. 361

Atkins Tuttle Tooth, No. 363

ATKINS PERFECTION TOOTH, No. 556—Same as No. 553 on page 155, excepting that it is toothed to the end. Made of Silver Steel, and a fast-cutting, easy-running saw.

ATKINS LANCE TOOTH, No. 361—Similar to the Lance Tooth described on page 157, excepting that it is made without perforations.

ATKINS 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. No. 361 and 363 saws are made of Atkins High-Grade Special Steel highly tempered, carefully ground, finely finished, but can be furnished in Silver Steel when so ordered at Silver Steel price.

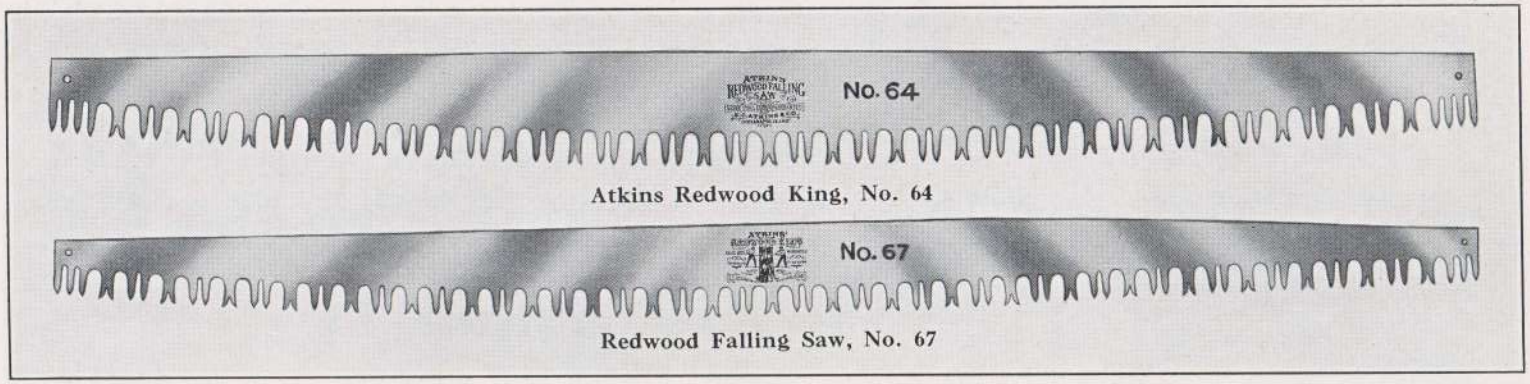
Length.....feet	4	4½	5	5½	6	6½	7	7½	8
No. 556, Perfection Tooth, Silver Steel.....each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18.15
No. 361, Lance Tooth, thin back, not perforated, special steel.....each	....	....	7.15	7.95	8.65	9.35	10.05	10.75	11.55
No. 363, Tuttle Tooth, thin back, diamond point, special steel.....each	....	....	3.80	4.20	4.55	4.95	5.50	5.70	6.10

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND



Atkins Redwood King, No. 64

Redwood Falling Saw, No. 67

ATKINS REDWOOD KING, No. 64

Atkins Redwood King, No. 64, as its name implies, is used almost exclusively in cutting redwood and woods of similar character. This saw is adapted especially for bucking and is a wide, heavy blade. Made in lengths from 6 to 20 feet, and in different gauges as listed below.

Length.....feet	5	5½	6	6½	7	7½	8	8½	9	9½	10	11	12	14	16	18	20
No. 64, Standard, 13 gauge.....each	$12.70	$14.30	$16.15	$18.20	$20.20	$22.25	$24.45	$26.80	$29.30	$31.90	$34.50	$40.35	$46.40	$59.10	$73.85	$89.95	$107.50

ATKINS REDWOOD FALLING, No. 67

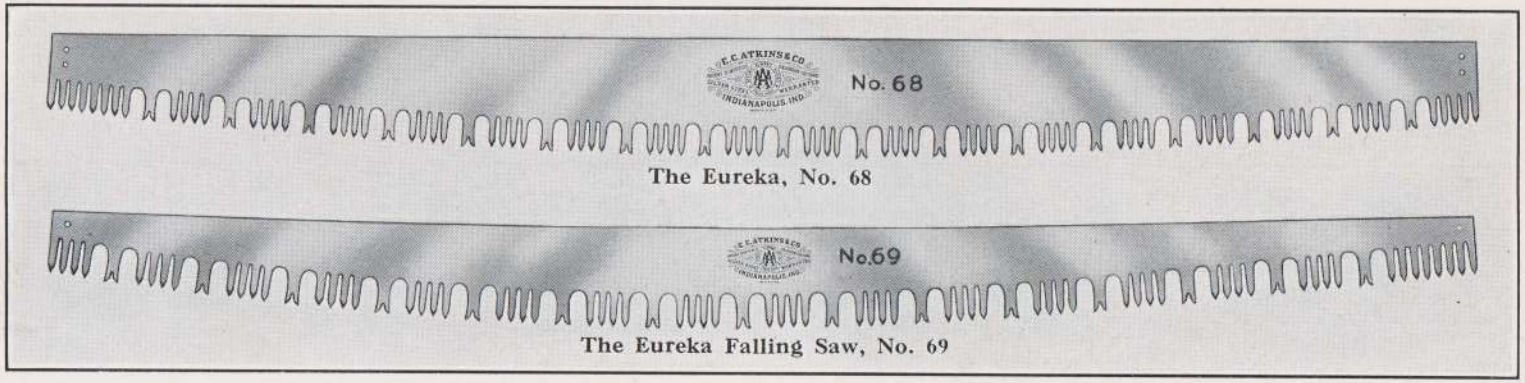
This is the companion saw to Redwood King, No. 64, but is designed particularly for falling purposes. Both the above saws are made of Atkins Silver Steel, and will therefore give the best results under heavy service. They are ground with the greatest care and smithed free from lumps, therefore they will run free and easy.

Length.....feet	5	5½	6	6½	7	7½	8	8½	9	9½	10	11	12	14	16	18	20
No. 67, Standard, 12 gauge.....each	$12.70	$14.30	$16.15	$18.20	$20.20	$22.25	$24.45	$26.80	$29.30	$31.90	$34.50	$40.35	$46.40	$59.10	$73.85	$89.95	$107.50

Prices as given above do not include handles. For complete specifications of above Cross Cut Saws, see page 175.

ATKINS PACIFIC COAST PATTERN CROSS CUT SAWS

SILVER STEEL—SEGMENT GROUND



The Eureka, No. 68

The Eureka Falling Saw, No. 69

ATKINS EUREKA, No. 68

This saw was first designed for California trade, for use in cutting western redwood, pine, fir and other woods. Evenly ground, perfectly tempered and balanced. An extra wide, heavy blade, toothed to the end, and used for bucking.

ATKINS EUREKA FALLING, No. 69

Exactly similar to No. 68, except it is a narrower blade and is used for falling and cutting smaller timber. A favorite for California timber.

Both of the above saws are made of Atkins Silver Steel, and tempered in our gas furnaces to a very high degree of toughness and hardness. They will require very little re-fitting. They are also Segment Ground and will cut very fast and easy, needing but little set.

ATKINS EUREKA, No. 68 AND EUREKA FALLING, No. 69

Length ..... feet	5	5½	6	6½	7	7½	8	8½	9
No. 68, Eureka ..... each	$12.70	$14.30	$16.15	$18.20	$20.20	$22.25	$24.45	$26.80	$29.30
No. 69, Eureka Falling ..... each	12.70	14.30	16.15	18.20	20.20	22.25	24.45	26.80	29.30

Prices as given above do not include handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS CROSS CUT SAWS

SILVER STEEL

Australian Perfection No. 551

Australian Rex No. 552

No. 542

Length.....feet	4	4½	5	5½	6	6½	7	7½	8
No. 551, Atkins Silver Steel Australian Perfection.....each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.90	$16.50	$18.15
No. 552, Atkins Silver Steel Australian Rex.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.90	16.50	18.15
No. 542, Atkins Silver Steel.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.90	16.50	18.15

All of above saws made with square holes in each end for Small Auckland Ears. NOTE—Prices of saws do not include ears or handles.
For complete specifications of above Cross Cut Saws, see page 175.

ATKINS CROSS CUT SAWS

Atkins Silver Steel Tasmanian No. 41

Atkins Silver Steel Tasmanian No. 511

Common Tooth No. 338

No. 41 Atkins Silver Steel Tasmanian Pattern. Width of gullets, ¾ inch. Depth of gullets, 1¼ inches. Distance point to point of teeth, $1\frac{3}{16}$ inches.

No. 241, same as above, but made out of high grade Special Steel.

No. 511, Atkins Silver Steel Tasmanian Pattern with Filing Gullet. Width of gullets, ¾ inch. Depth of gullets, 1¼ inches. Distance point to point of teeth, $1\frac{3}{16}$ inches.

No. 611, same as above, but made out of high grade Special Steel.

No. 338, Common Tooth Australian Pattern.

Length.....feet	4	4½	5	5½	6	6½	7	7½	8
No. 41, Silver Steel Tasmanian.....each	$6.45	$7.25	$8.10	$9.50	$10.90	$12.80	$13.85	$16.50	$18.15
No. 241, Special Steel Tasmanian.....each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50
No. 511, Silver Steel Tasmanian.....each	6.45	7.25	8.10	9.50	10.90	12.80	13.90	16.50	18.15
No. 611, Special Steel Tasmanian.....each	5.20	5.90	6.55	7.25	7.85	8.45	9.20	9.90	10.50
No. 338, Special Steel Common Tooth.....each	4.70	5.30	5.90	6.45	7.05	7.70	8.20	8.80	9.45

All of above saws made with square holes in each end for Small Auckland Ears. NOTE—Prices of saws do not include ears or handles.

For complete specifications of above Cross Cut Saws, see page 175.

ATKINS CROSS CUT SAWS

Atkins Auckland Pattern, No. 8

Atkins Russian Pattern

Atkins No. 8 Auckland Pattern. Special Steel. Gauge, 14 x 17. Space of teeth in 6 foot and 6½ foot saws, 1 inch from point to point; in 7 to 10 foot saws, 1¼ inches. Space between sections of teeth, 2 inches.

Length.....feet	5	5½	6	6½	7	7½	8	8½	9	9½	10
No. 8 Auckland Pattern.....each	$7.65	$8.25	$9.15	$9.95	$10.70	$11.50	$12.25	$13.25	$14.25	$15.35	$16.50

Auckland Pattern Saws are made with square holes in one end for Small Auckland Ear, and other end slotted for Large Auckland Ear. NOTE—Prices of Auckland Pattern Saws do not include ears or handles.

Atkins Russian Pattern. Special Steel. Gauge—4 feet and under, 19 gauge; 4½ feet, 18 gauge; 5 feet, 17 gauge; 5½ feet and over, 16 gauge.

Length.....feet	3½	4	4½	5	5½	6	6½	7	7½	8
Russian Pattern.....each	$2.30	$2.65	$3.00	$3.30	$3.65	$4.00	$4.35	$4.70	$5.10	$5.50

Above saws made with round holes in each end for Common Ears. NOTE—Prices of Russian Pattern Saws include ears but not handles.

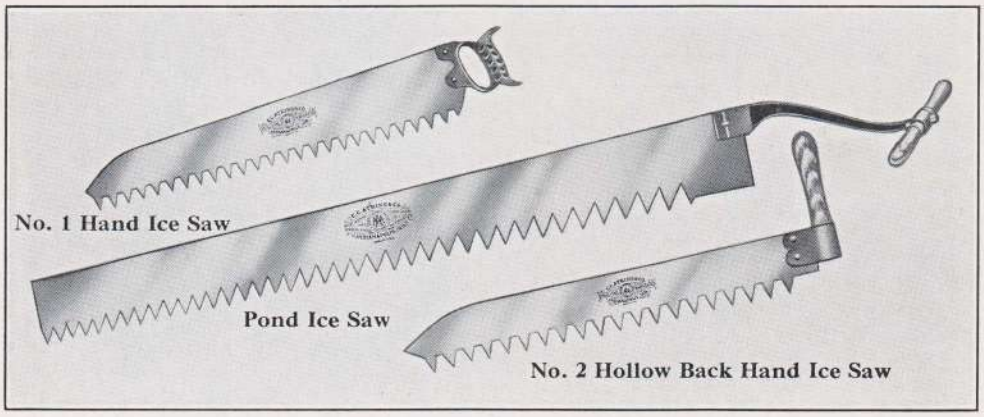
For complete specifications of above Cross Cut Saws, see page 175.

TABULATIONS OF APPROXIMATE WEIGHTS, DIMENSIONS AND GAUGES OF ATKINS CROSS CUT SAWS

No.	Kind of Saw	5 Foot						5½ Foot						6 Foot					
		Weight per Saw, Lbs.	Gauge			Width at Ends	Width at Center	Weight per Saw, Lbs.	Gauge			Width at Ends	Width at Center	Weight per Saw, Lbs.	Gauge			Width at Ends	Width at Center
			Tooth Edge	Ends at Back	Center at Back				Tooth Edge	Ends at Back	Center at Back				Tooth Edge	Ends at Back	Center at Back		
	SILVER STEEL																		
1	Rex	4¾	15	16	20	3⅛	6⅜	5¼	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
2	Rex	4¾	15	16	20	3⅛	6⅜	5¼	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
3	Peerless	4¼	15	16	20	3¼	5¾	5	15	16	20	3¼	5¾	6	14	16	20	3¼	6
4	Perfection	4¼	15	16	20	3¼	5¾	5	15	16	20	3¼	5¾	6	14	16	20	3¼	6
5	Perfection	5	15	16	20	3⅛	6⅜	5½	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
6	Hemlock King	4½	14	16	20	3¼	5½	5	14	16	20	3¼	5½	6	14	16	20	3¼	5½
11	Rex Falling	3½	14	16	17	3¼	4½	4½	14	16	17	3½	4½	5½	14	16	20	3¼	4½
12	Perfection Falling	4	14	16	17	3¼	4½	4¾	14	16	17	3¼	4½	5¼	14	16	17	3¼	4½
18	Dexter, 14x16	5	15	16	16	3¼	6¼	6	15	16	16	3¼	6½	7½	14	16	16	3½	7
19	Dexter, 14x18	4¾	15	16	18	3¼	6¼	5¾	15	16	18	3¼	6½	7¼	14	16	18	3½	7
20	Dexter, 14x19	4½	15	16	19	3¼	6¼	5½	15	16	19	3¼	6½	7	14	16	19	3½	7
21	Diamond, 14x16	5	15	16	16	3¼	6¼	6	15	16	16	3¼	6½	7½	14	16	16	3½	7
22	Diamond, 14x18	4¾	15	16	18	3¼	6¼	5¾	15	16	18	3¼	6½	7¼	14	16	18	3½	7
41	Tasmanian	5	15	16	17	3¼	6¼	5½	15	16	17	3¼	6½	7¼	14	16	17	3½	7
42	S. S. Jarrah	4¾	15	16	18	2¼	6¼	5¾	15	16	18	2¼	6½	7¼	14	16	18	2½	7
72	M. B. Tuttle, N. P	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
73	M. B. Tuttle, Perf	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
76	M. B. Dexter	4½	15	16	18	3½	5½	5¼	15	16	18	3⅝	5¾	7	14	16	18	3¾	6¼
77	M. B. Lance, N. P	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
78	M. B. Lance, Perf	4	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
511	Tasmanian F. G	4¾	15	16	18	3¼	6¼	5¼	15	16	18	3¼	6½	7¼	14	16	18	3½	7
518		4½	15	16	20	3¼	5¾	5	15	16	20	3¼	5¾	6¼	14	16	20	3¼	6
540		5	15	16	20	3⅛	6⅜	5½	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
542		7¼	14	16	19	4	6¾	8	14	16	19	4	6¾	8¾	14	19	16	4	6¾
550		4½	14	16	19	3⅛	5¼	5¼	14	16	19	3⅛	5½	6	14	16	19	3¼	5¾
551		5	15	16	20	3⅛	6⅜	5½	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
552		4¾	15	16	20	3⅛	6⅜	5¼	15	16	20	3⅛	6⅜	7	14	16	20	3⅛	7
553		4¼	14	16	19	3⅛	5¼	5	14	16	19	3⅛	5½	5¾	14	16	19	3⅛	5¾
	Pacific Coast Patterns																		
**51	7′, 7½′, 8′	10¼	13	15	17	4⅜	7¼	11½	13	15	17	4½	7½	12¾	13	15	17	4½	7½
**52	7′, 7½′, 8′	8	13	15	17	3¼	5¾	9	13	15	17	3¼	5¾	9¾	13	15	17	3¼	5¾
**64	Redwood King, 7′, 7½′, 8′	10½	11	14	16	4½	7	12	11	14	16	4½	7	13	11	14	16	4 5/16	7½
**65	Redwood King, 7′, 7½′, 8′	12	10	13	15	4½	7	15	10	13	15	4½	7	18	10	13	15	4 5/16	7½
**67	Redwood Falling, 8′, 10′, 12′	7½	12	15	17	3⅝	6	8½	12	15	17	3¾	6¼	9½	12	15	17	4⅛	6⅝
**68	Eureka, 7′, 7½′, 8′	12	12	15	17	4⅜	7¼	15	12	15	17	4½	7½	18	12	15	17	4½	7½
**69	Eureka Falling 7′, 7½′, 8′	7½	12	15	17	3¼	5⅜	8½	12	15	17	3¼	5¾	9½	12	15	17	3¼	5¾
*556		4¼	14	16	19	3⅛	5¼	5	14	16	19	3⅛	5½	5¾	14	16	19	3⅛	5¾
	SPECIAL STEEL																		
*8	Auckland	5	14	16	17	3⅝	7	5½	14	16	17	3⅝	7¼	7	14	16	17	3⅝	7¾
*218	Dexter, 14x16	5	15	16	16	3¼	6¼	6	15	16	16	3¼	6½	7½	14	16	16	3½	7
*219	Dexter, 14x18	4¾	15	16	18	3¼	6¼	5¾	15	16	18	3¼	6½	7¼	14	16	18	3½	7
*220	Dexter, 14x19	4½	15	16	19	3¼	6¼	5½	15	16	19	3¼	6½	7	14	16	19	3½	7
†221	Diamond, 14x16	5	15	16	16	3¼	6¼	6	15	16	16	3¼	6½	7½	14	16	16	3½	7
†222	Diamond, 14x18	4¾	15	16	18	3¼	6¼	5¾	15	16	18	3¼	6½	7¼	14	16	18	3½	7
†223	Lone Star Diamond	3¾	14	16	18	3	5	4½	14	16	18	3	5½	5½	14	16	18	3	5⅝
†224	Lone Star Dexter	3½	14	16	18	3	5	4¾	14	16	18	3	5½	5¼	14	16	18	3	5⅝
*225	Victor	4¾	15	16	18	4	6	5¾	15	16	18	4	6¼	7¼	14	16	18	4	6¾
*227	Lance Tooth	4¾	15	16	18	3¼	6¼	5½	15	16	18	3¼	6½	7	14	16	18	3½	7
*241	Tasmanian	5	15	16	17	2¼	6¼	6¼	15	16	17	2¼	6½	7¼	14	16	17	2¼	7
*242	Jarrah	4¾	15	16	18	2¼	6¼	5¼	15	16	18	2¼	6½	7¼	14	16	18	2¼	7
*272	M. B. Tuttle, N. P	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
*273	M. B. Tuttle, Perf	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
*276	M. B. Dexter	4½	15	16	18	3½	5½	5¼	15	16	18	3⅝	5¾	7	14	16	18	3¾	6¼
*277	M. B. Lance, N. P	4¼	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
*278	M. B. Lance, Perf	4	15	16	18	3½	5½	5	15	16	18	3⅝	5¾	6¾	14	16	18	3¾	6¼
†330	Tuttle, 14x16	4¾	15	16	16	3	5¾	6	15	16	16	3¼	6¼	7½	14	16	16	3¼	7
†331	Tuttle, 14x18	4½	15	16	18	3	5¾	5½	15	16	18	3¼	6¼	7¼	14	16	18	3¼	7
†332	Tuttle, 14x19	4¼	15	16	19	3	5¾	5¼	15	16	19	3¼	6¼	7	14	16	19	3¼	7
†333	American, 14x16	4¾	15	16	16	3	5¾	6¼	15	16	16	3¼	6¼	8¼	14	16	16	3¼	7
†334	American, 14x18	4½	15	16	18	3	5¾	6	15	16	18	3¼	6¼	8	14	16	18	3¼	7
†335	Hickory	5	15	16	16	3	5¾	6	15	16	16	3¼	6¼	8¼	14	16	16	3¼	7
†336	Feather Edge, 14x18	4¾	15	16	18	3	5¾	5¾	15	16	18	3¼	6¼	8	14	16	18	3¼	7
†337	Common, 14x16	5	15	16	16	3	5¾	6	15	16	16	3¼	6¼	7	14	16	16	3¼	7
†338	Common, 14x18	4¾	15	16	18	3	5¾	5¾	15	16	18	3¼	6¼	6¾	14	16	18	3¼	7
*361	Lance Tooth, N. P	5¼	14	16	17	4	6	6	14	16	17	4	6	8	13	15	17	4¼	6¾
†363	Tuttle Tooth, Dia. Point	5½	14	16	17	4	6	6¼	14	16	17	4	6	8¼	13	15	17	4¼	6¾
*611	Tasmanian	4¾	15	16	18	2¼	6¼	5¼	15	16	18	2¼	6½	7¼	14	16	18	2¼	7
†	Russian Pattern	6	17	‡	‡	3¾	6½	7	16	‡	‡	3¾	6¾	8	16	‡	‡	3¾	6¾
	Pacific Coast Patterns																		
**251	7′, 7½′, 8′	10¼	13	15	17	4⅜	7¼	11¼	13	15	17	4½	7½	12¾	13	15	17	4½	7½
**252	7′, 7½′, 8′	8	13	15	17	3¼	5¾	9	13	15	17	3¼	5¾	9¾	13	15	17	3¼	5¾

Note—SILVER STEEL Cross Cut Saws packed 25 in case. *Packed 25 in a case. †Packed 50 in a case. ‡Even Gauge.
**Pacific Coast patterns, other lengths in proportion to saws listed.

ATKINS ICE SAWS



The frequent filing and sharpening of ice saws is unnecessary with Atkins Special Steel. The quality is so fine that they take an extremely hard, tough temper and their sharp cutting edges will, therefore, be retained for the longest possible time.

Pond ice saws are made in lengths from 3 to 6 feet and vary in gauge so that they can be operated in all thicknesses of ice. The teeth are sharpened, set and ready for use.

Atkins Tiller Handles are used with the above saws. These are made of malleable iron and can be securely fastened to the blade, but easily removed. The cross handle is of hardwood, shaped to fit the hands.

Atkins Hand Ice Saws are made in lengths from 24 to 36 inches. The blades are of high-grade special steel. The teeth are sharpened and set ready for use. The handle is large and roomy, made of malleable iron, tinned, and is practically unbreakable. Fastened to the blade with rivets.

Atkins Hollow Back Hand Ice Saws are made of high-grade crucible steel. The blades are somewhat narrower than the hand saws. Made in lengths from 24 to 36 inches. The teeth are sharpened and set ready for use. The handle is fitted to steel tab, which is riveted to saw.

Atkins Hollow Back and Hand Ice Saws are for wagon or store use, being set and sharpened.

ATKINS POND ICE SAWS WITHOUT TILLER

STANDARD LENGTH, 5 FEET

Width, Inches		Thickness Gauge	Price, Each						
Butt	Point		3 Feet	3½ Feet	4 Feet	4½ Feet	5 Feet	5½ Feet	6 Feet
8	6	10	$4.60	$5.40	$6.20	$6.90	$7.65	$8.45	$9.20
8	6	11	4.35	4.95	5.80	6.55	7.15	7.95	8.75
7	5	10	4.15	4.85	5.45	6.00	6.90	7.60	8.20
7	5	11	3.45	4.50	5.20	5.90	6.55	7.25	7.75

Packed 25 saws in a case. Weight—4½ ft. length, 11 gauge, 9 pounds.

No. 2 ATKINS HOLLOW BACK HAND ICE SAWS

Length....inches	24	26	28	30	32	34	36
Price....per dozen	$16.05	$17.65	$19.15	$20.65	$22.25	$23.75	$25.35
Weight....pounds per dozen	27	30	33	36	39	42	45

Packed 25 saws in a case.

No. 1 ATKINS HAND ICE SAWS

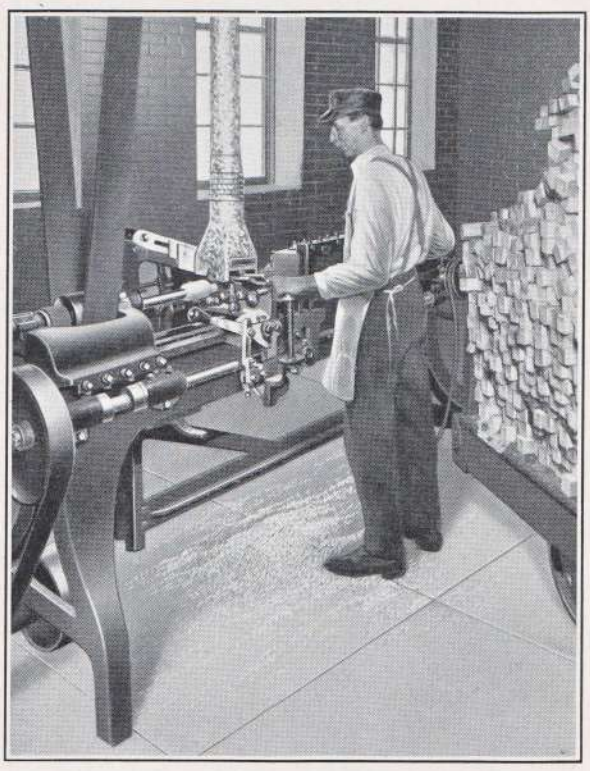
Length....inches	24	26	28	30	32	34	36
Price....per dozen	$33.20	$34.95	$36.70	$38.50	$40.25	$42.00	$43.75
Weight....pounds per dozen	18	19½	21	22½	24	25½	27

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

TILLERS

Price....each $2.30
Weight, per dozen....pounds 3¼

ATKINS CROSS CUT SAW HANDLES



Every cross cut saw handle shown on the following pages is made in our own factory by experienced workmen, under our personal supervision, and we claim that the quality and finish can not be surpassed.

In all steel parts, we use a special high tensile strength cold drawn steel. This is very strong and tough, but light, thus giving the greatest strength with least weight.

All malleable parts are cast from carefully selected material and are exceedingly smooth and tough, which insures the greatest wear.

We are exclusive users of the Spot Electric Welded Process in the treatment of all steel loops. This gives the user a decided advantage, as the parts become as strong as if one solid piece and the weld cannot be broken.

Particular attention is given to the manner in which all threads are cut. The high quality of the metal parts enables us to use extra heavy dies, thus producing a thread which does not easily become worn or torn and on which the bolts, loop ends and turnbuckles will operate freely and withstand the most severe twists and strains.

We use nothing but carefully selected, thoroughly dried and seasoned hardwood stock. This is cut into proper specifications and manufactured throughout by use of the most improved appliances. Each operation is carefully inspected, to the end that only perfect handles are passed. Handles are sanded, waxed and polished and marked with hot die embossing.

They are packed in light and strong wire-bound boxes, which reduces the shipping weight to the minimum.

In the pages following you will find a wide range of handles, at various prices. Those shown cover original ideas as well as the old designs.

We invite you to make a careful comparison of Atkins Cross Cut Saw Handles with other brands so that you can see the superior quality of our product.

ATKINS CROSS CUT SAW HANDLES

No. 1

10 inches long irrespective of loops. Selected air-dried hardwood. Extra heavy spot electric welded steel loop, three welds. Malleable nuts. Castings black japanned. Capacity 3 to 4½ inches. Packed 50 pairs in wire-bound box weighing 108 pounds.

Price.....per pair $0.70

No. 24

This Handle is especially adapted for the Pacific Coast trade. Fourteen inches in length, of thoroughly seasoned hardwood, nicely finished. Malleable Machine Made Bolt — carefully threaded—heavy Wing Nut. All other Metal Parts of Malleable Iron, japanned black. The Post and Guard are reversible for sawing either standing or felled timber. Packed 50 pairs in a box weighing 160 pounds.

Price.....per pair $1.10

No. 3

10 inches long irrespective of loops. Malleable casting and swivel washer cast to socket. Spot electric welded loop of high tensile strength, cold drawn steel. Capacity 3 to 4½ inches. Japanned black. Packed 50 pairs in wire-bound box weighing 92 pounds.

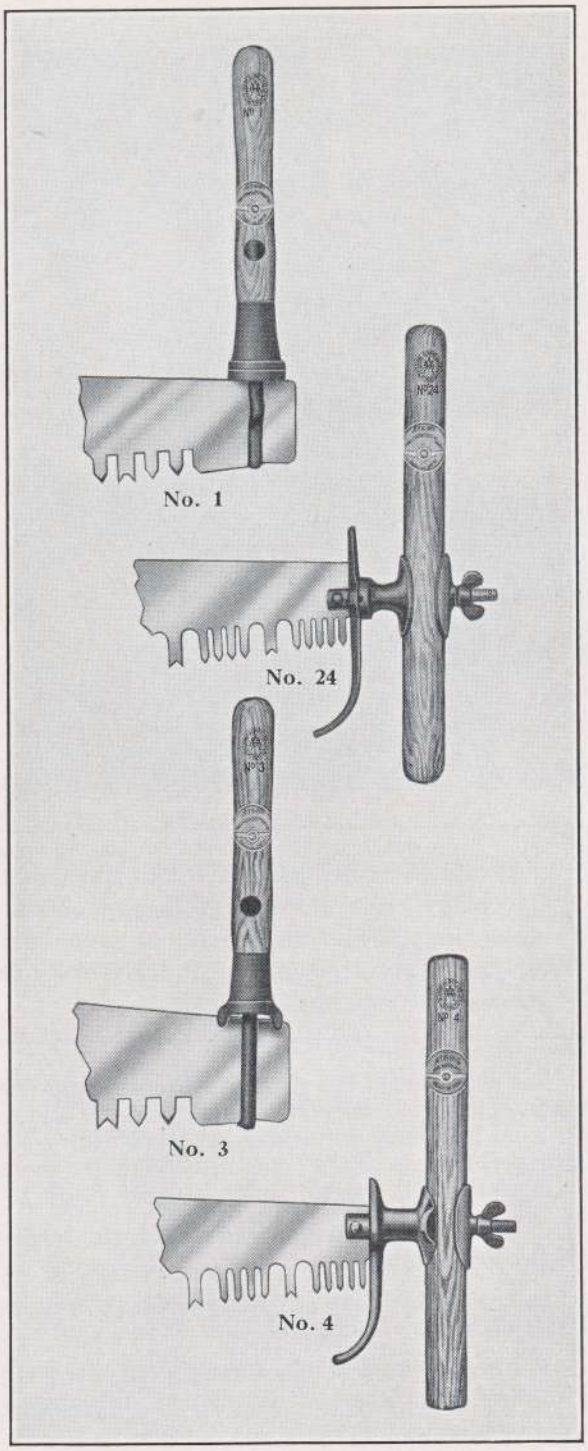
Price.....per pair $0.70

No. 4

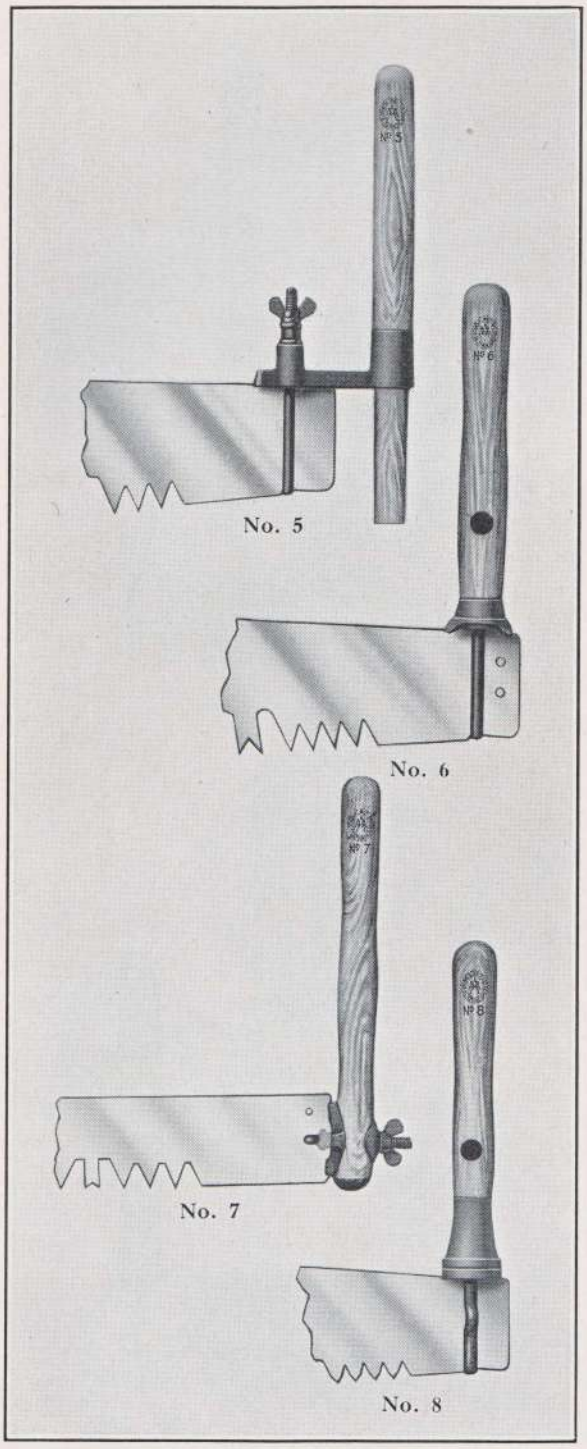
This is the most popular pattern of Cross Cut Handle used on the Pacific Coast. Fourteen inches in length, of thoroughly seasoned hardwood.

Machine Made Steel Bolt—carefully threaded. Extra heavy malleable Wing Nut. All Metal Parts of Malleable Iron, japanned red. Reversible for use in either felled or standing timber. The deep thread and heavy Wing Nut facilitate removing or reversing the Handle. Packed 50 pairs in a wire-bound box weighing 170 pounds.

Price.....per pair $1.20



ATKINS CROSS CUT SAW HANDLES



No. 5

14 inches long. Used extensively on Pacific coast. Extra strong malleable bracket. Spot electric welded loop of high tensile strength, cold drawn steel. Castings japanned black. Capacity 3 to 4¼ inches. Packed 50 pairs in wire-bound box weighing 115 pounds.

Price.....per pair $0.75

No. 6

10 inches long irrespective of loops. Similar to No. 3 but lighter castings. Steel loop spot electric welded. Capacity 3 to 4¼ inches. Specially selected air-dried hardwood stock. Packed 150 pairs in wire-bound box weighing 185 pounds.

Price.....per pair $0.55

No. 7

14 inches long. Reversible. Best grade hardwood stock. Malleable bolt. Cast steel face plate and washers. Our exclusive pattern. Packed 100 pairs in wire-bound box weighing 140 pounds.

Price.....per pair $0.50

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.

Price.....per pair $0.65

No. 8 SHORT PATTERN

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

Price.....per pair $0.65

ATKINS CROSS CUT SAW HANDLES

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 wire-bound box weighing 125 pounds.

Price.....per pair $0.80

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.

Price.....per pair $0.45

No. 11

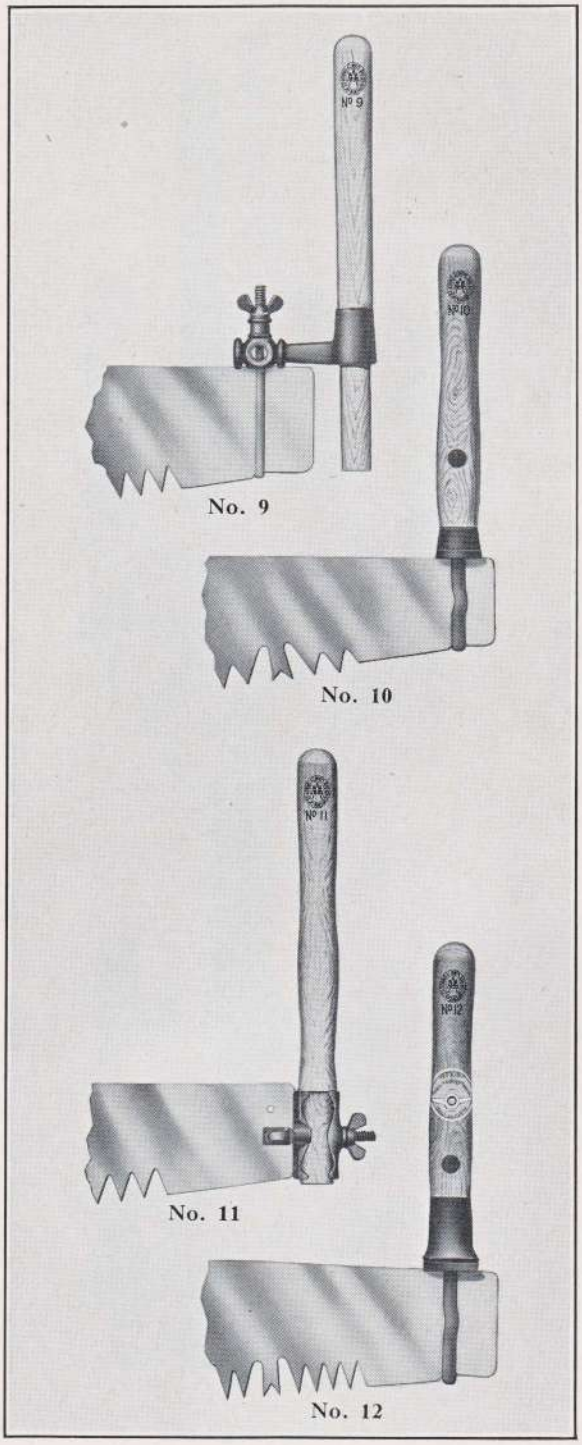
14 inches long. Climax pattern. Reversible. Cast iron face plate and washer. High-grade malleable bolt with lock rivet feature, preventing rivet from becoming detached. Easily adjusted. Packed 100 pairs in wire-bound box weighing 170 pounds.

Price.....per pair $0.45

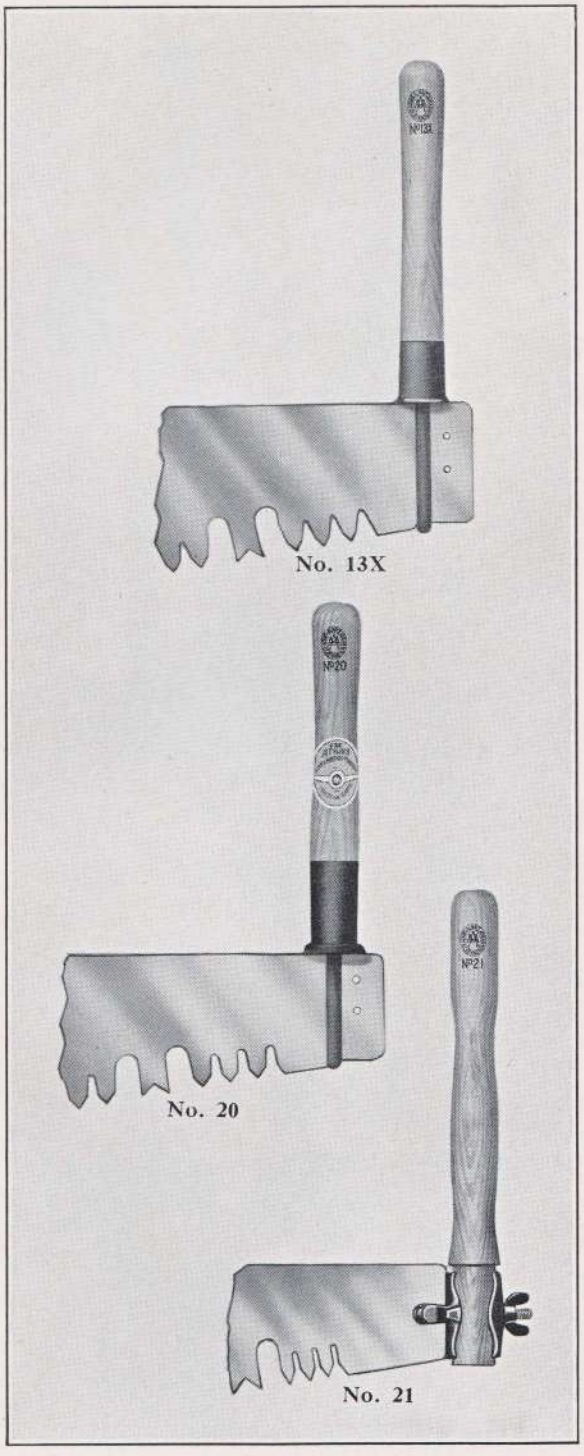
No. 12

10 inches long irrespective of loops. High grade. Contains exclusive features. Non-breakable malleable socket, washer and nut. Spot electric welded steel loop. Selected clear white hardwood stock. Japanned red. Capacity 3 to 4½ inches. 50 pairs in wire-bound box weighing 98 pounds.

Price.....per pair $0.75



ATKINS CROSS CUT SAW HANDLES



No. 13X

10 inches long irrespective of loops. Malleable socket, case hardened face bearing on saw. Very light and strong. Loop of high tensile strength cold drawn steel. Spot electric welded. Japanned black. Capacity 3 to 4 inches. Packed 50 pairs in wire-bound box weighing 70 pounds.

Price.....per pair $0.60

No. 20

9 inches long irrespective of loops. Very strong and light. Socket of highest grade ferrule steel with patented swivel feature. Easily adjusted. Spot electric welded steel bolt. Japanned black. Capacity 2½ to 3½ inches. 50 pairs in wire-bound box weighing 75 pounds.

Price.....per pair $0.65

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 $0.45

ATKINS CROSS CUT SAW HANDLES

No. 22

14 inches long. We recommend this pattern highly. Extra strong. Easily adjusted. Extra heavy malleable castings. Machine-made steel bolt, extra large "Big Bolt" Pattern. Extra large wings prevent castings from slipping. Japanned black. Packed 50 pairs in wire-bound box weighing 85 pounds.

Price.....per pair $0.75

No. 25

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

Price.....per pair $1.20

No. 26

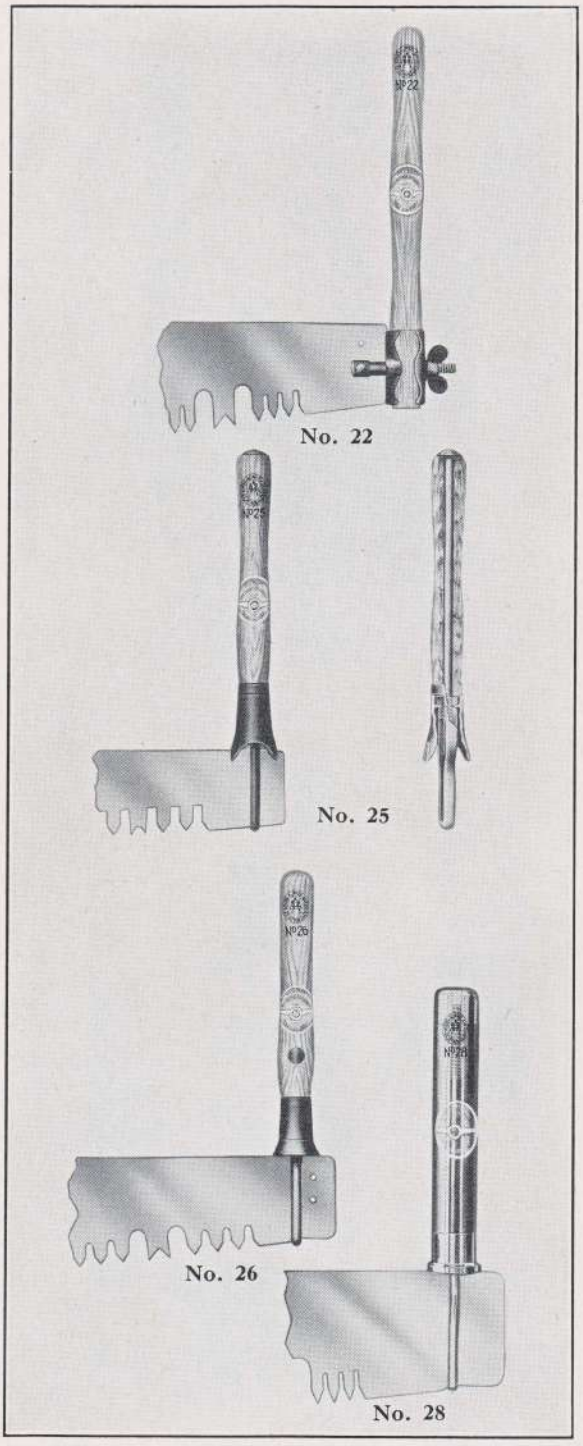
10 inches long irrespective of loops. Mechanically, the most practical handle on the market. Loop of extra heavy high tensile strength, cold drawn steel. Spot electric welded. Castings japanned black. Capacity 3 to 4½ inches. Packed 100 pairs in wire-bound box weighing 165 pounds.

Price.....per pair $0.65

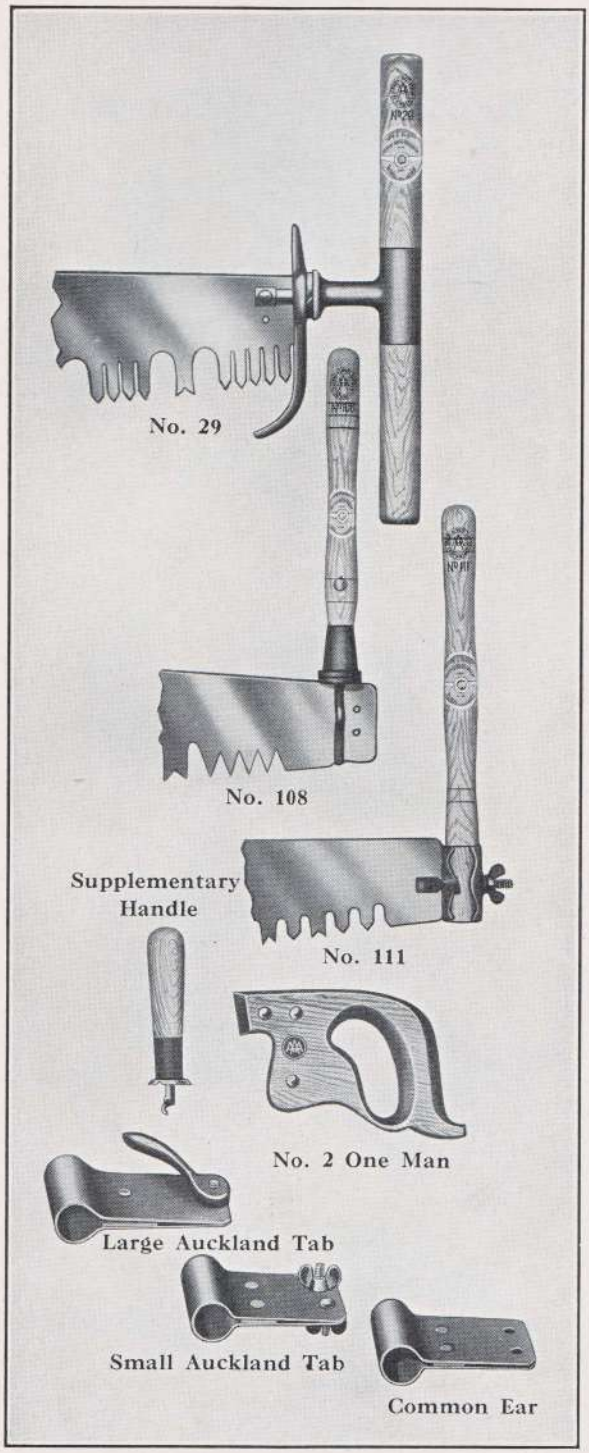
No. 28

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 2¾ to 4½ inches. Packed 50 pairs in wire-bound box weighing 81 pounds.

Price.....per pair $0.90



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 $0.70

No. 111

15¼ inches long. High class in every particular. Specially selected white, air-seasoned hardwood. Fancy scoring. Malleable bolt and wing nut, tinned. Electric spot welded steel bolt. Castings japanned black. Packed 50 pairs in wire-bound box weighing 95 pounds.

Price.....per pair $0.65

ONE-MAN, No. 2

This is made of carefully selected hardwood, thoroughly seasoned and dried. Varnished edge, well finished. Easy Grip pattern. Price does not include screws. Packed one dozen to a carton.

Weight.....per dozen, 6¾ pounds
Price.....per dozen $4.05

SUPPLEMENTARY
FOR ONE-MAN SAWS

Made of thoroughly seasoned air-dried 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.

Weight.....per dozen, 3½ pounds
Price.....per dozen $3.55

TABS
FOR CROSS CUT SAWS

Large Auckland Tabs	per pair	$0.95
Small Auckland Tabs	per pair	.60
Common ears	per pair	.35
Handles for common ears,	per pair	.09

ATKINS PERFECTION SAW TOOLS

This set supplies a complete outfit of everything needed for properly refitting cross cut saws.

The combination tool shown at the top of this page may be used as a jointer, side file or for gauging the length of the raker teeth. These various operations are shown in the accompanying cuts.

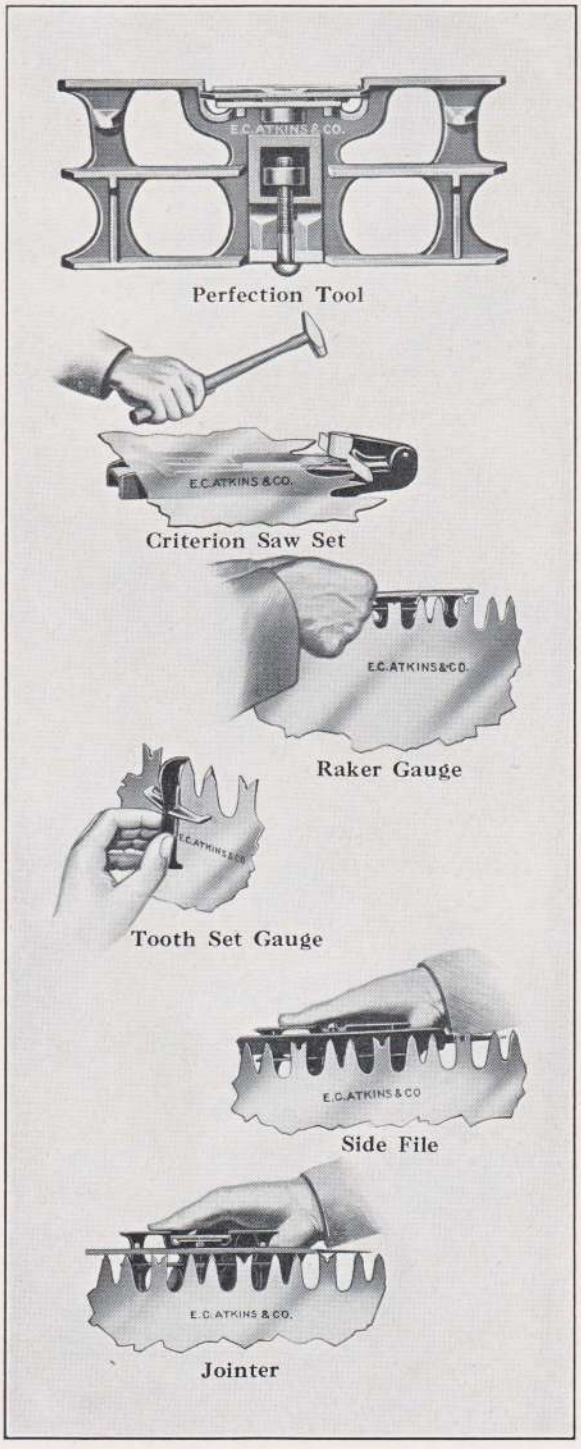
The tool includes a tooth gauge whereby the proper set of the teeth may be measured and either a broad or narrow set given.

An Atkins Criterion Saw Set is also included. This is one of the most improved tools for setting the teeth. It has a die which rests on the top of the tooth. The hammer blow comes in contact with this die instead of the tooth itself. This imparts a more even set and removes the liability of breakage. You can adjust this tool so as to secure any degree of set by raising or lowering the set screw on the opposite end.

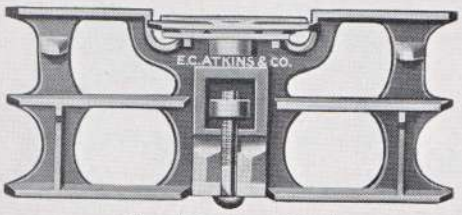
A finely finished setting hammer completes the outfit. This hammer is made of refined cast steel, highly polished, and is fitted to a hardwood handle with a special attachment which prevents the hammer from working loose.

Each set put up in an individual box, accompanied by full instructions for using each of the tools. Packed in any quantity ordered.

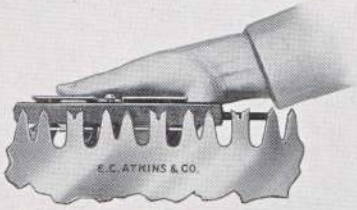
Price.....per dozen sets $28.60
Weight, pounds.....per set 2½



ATKINS PATENT EXCELSIOR SAW TOOLS

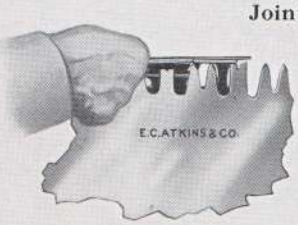


Excelsior Saw Tool



Side File

Jointer



Raker Gauge

Tooth Set Gauge

Setting Block

No. 1

This is the old and original Excelsior Saw Tool. It is the first and most successful device ever invented for properly refitting cross cut saws. The complete set and the uses for which it is designed are fully shown in the accompanying illustrations.

The combined tool is shown at the top of the page. It is used as a jointer, as a raker gauge, and also as a side file.

An eight-inch flat file is fastened in the tool as shown in cut. The set screw slightly bends the file, giving it the proper curve. After jointing, the tool may be used for gauging proper length of raker teeth, after which, by readjusting the file, it can be used for side filing. See accompanying illustration.

A tooth set gauge is also included. This is made with long and short end, which by reversing, indicates a correspondingly light or heavy set, as desired.

The Atkins Improved Channeling Set Block completes the outfit. This block fastens to any flat surface, and the anvil, having a slight declivity, produces a concave on one side of the teeth thus insuring a more durable set and relieving the friction on the side of the teeth.

They are put up one complete set in an individual box, nicely labeled for shelf display. Full directions for operating accompany each set. Packed in any quantity ordered.

No. 2

Atkins Patent Excelsior Saw Tool, No. 2. This set is exactly similar to Excelsior No. 1, excepting that it is equipped with the ordinary setting block instead of the Improved Pattern used with No. 1.

No. 6

This tool is made for refitting One-Man Saws. It is similar to the Excelsior No. 2, excepting that the combination tool is a trifle smaller.

Price, No. 1.....per dozen	$11.45
Price, No. 2.....per dozen	10.95
Price, No. 6.....per dozen	10.95
Weights, Nos. 1 and 2, lbs. per doz.	19
Weight, No. 6, pounds per dozen	16

ATKINS EXCELSIOR SAW TOOLS

ATKINS EXCELSIOR SAW TOOL, No. 5

This set consists of a special combination tool, which is so constructed that it may be used for either side filing, jointing or in gauging the proper height of the rakers.

It is similarly constructed to the regular Excelsior No. 1, as shown on page 185, excepting that it has an EXTRA HARD TOOL STEEL BAR which prevents the saw from wearing a groove on the under side of the bar when used as a raker gauge.

This feature more than trebles the life of this simple tool and makes it the most economical set.

Through the use of a set screw, a flat file may be fastened into the tool, enabling the user to operate it as a side file. This is shown in the accompanying illustration.

The same file may then be fastened to the device at another point and used as a jointer. This feature is illustrated in the accompanying picture.

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

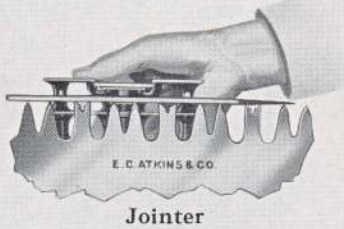
A set block is included. It consists of a tool which may be readily attached to any flat surface. At one end, there is an anvil arrangement which is slightly beveled. The hammer blow being directed at that point, the proper set is given, uniformly and without the likelihood of breaking teeth.

Atkins Excelsior Tool, No. 5, is adapted to any style of saw tooth.

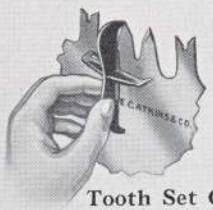
They are put up one complete set in a box, with an attractive label, and each box contains full instructions for operating. Packed in any quantity ordered.

Price.....per dozen $14.90
Weight, pounds.....each $1\frac{9}{16}$

Excelsior Saw Tool No. 5

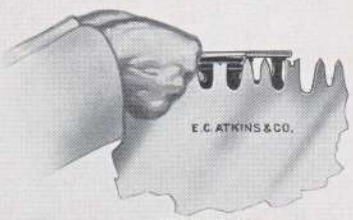


Jointer



Tooth Set Gauge

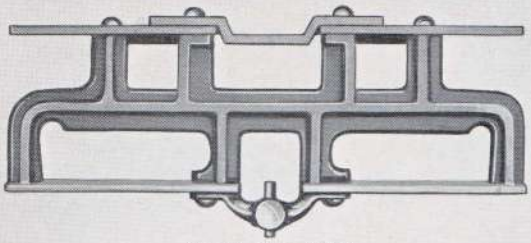
Side File



Raker Gauge

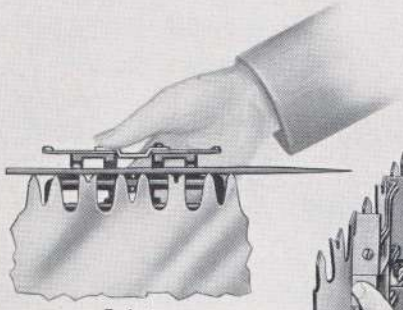

Setting Block

ATKINS "AAA" SAW TOOLS



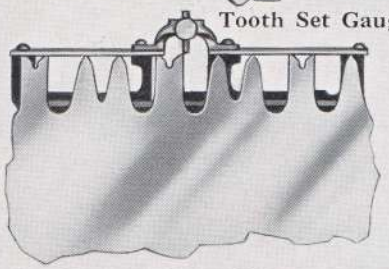
No. 9 Saw Tool

Raker Gauge



Jointer

Tooth Set Gauge



Gauging Swaged Rakers

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 1⅜ inches wide and made of good substantial material throughout.

The Raker Gauge Plate is tempered file proof. The ends are beveled so that the depth of the gauge may be regulated by the use of the two screws.

For jointing, fasten a flat file by set screw, as shown in upper illustration, and pass same lightly over the points of the teeth until filed to a uniform height.

For jointing the rakers, place the tool over the raker teeth (see illustration). Turn thumb screws until the rakers protrude the desired distance through the gauge, then file them off to a level with top of gauge. This will render all raker teeth exactly the same length.

For gauging the rakers, reverse the tool and set gauge pin and tighten by use of thumb screw, then pass the tool along toothed edge, thus measuring the proper length for each raker. This will be indicated when the point of the raker tooth touches the gauge pin.

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.

Put up, one only in a handsome shelf box. Packed in any quantity ordered.

Price.....per dozen $14.90
Weight.....ounces 11

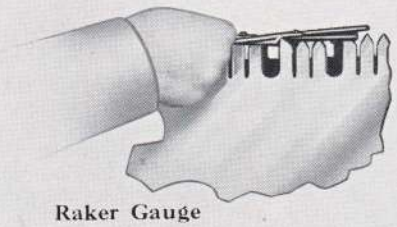
ATKINS No. 13 SAW TOOL

This tool is similar to the No. 9 except that it is much smaller and is not furnished with Swaged Tooth Gauge.

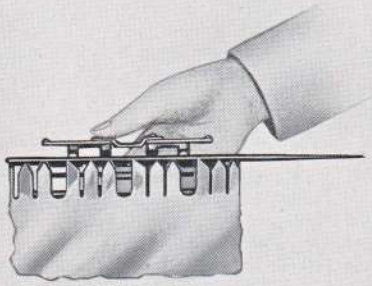
Price.....per dozen $12.60
Weight.....ounces 7

ATKINS "AAA" SAW TOOLS

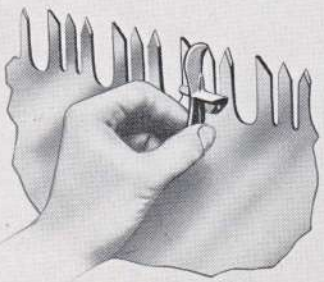
No. 13 Saw Tool



Raker Gauge



Jointer



Tooth Set Gauge

Hammer and Set Block

ATKINS DRAG SAW TOOL SET No. 14

This set of tools for drag saws is made up of the parts of our No. 13 Saw Tool, a tooth set gauge, a 1½-pound hammer and setting block. Illustration shows the No. 13.

The Raker Gauge Plate is tempered file proof. The ends are beveled so that the depth of the gauge may be regulated by the use of two screws.

The Bearing Plates of this tool are the only parts touching the teeth points and are made of smooth, hard, tool steel.

This tool can also be used for a Raker Gauge and Jointer as shown in illustration.

A drop-forged 1½-pound setting hammer makes a very good hammer for setting drag saws. Hardwood handle.

A tooth set gauge is also included. This is made with a long and short end, which, by reversing, indicates a correspondingly light or heavy set.

Packed one set to a box.

Price.....per dozen sets $44.50
Weight, pounds.....
per dozen sets 22

ATKINS HAMMER SAW SETS

Pistol Grip No. 11 | Pig Grip No. 10 | Horn Grip No. 12

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

5½ inches long, ⅝ inch thick, 1½ inches wide. Grip rounded and shaped to fit the hand. Packed one-half dozen in a box. Weight each, 27 ounces.

Price.....per dozen $10.95

ATKINS PIG GRIP SAW SET, No. 10

4½ inches long, 1½ inches thick. Fitted with a gauge, the length of which is regulated by a thumb screw and lock nut. The exact degree of set may thus be measured. Packed one in a box. Weight each, 2 pounds.

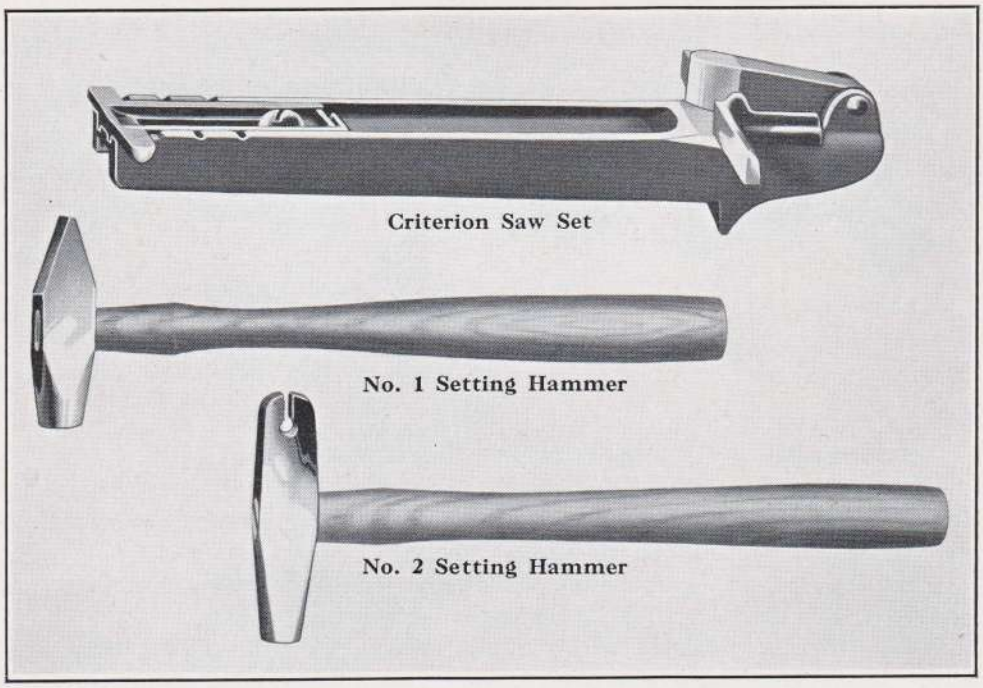
Price.....per dozen $15.55

ATKINS HORN GRIP SAW SET, No. 12

6¼ inches long, ⅞ inch thick, anvil 1½ inches. Very easy on the hand. Packed one-half dozen in a box. Weight, 20 ounces.

Price.....per dozen $10.95

ATKINS SAW FITTING TOOLS



ATKINS CRITERION SAW SET

Atkins Criterion Saw Set is used in setting all kinds of cross cut, hand, wood and other small saws.

We recommend the use of a hammer set in preference to a lever set, not only on account of the ability to secure more uniform results, but because there is less likelihood of breaking the teeth in this operation.

The Criterion Set has a die which rests on the tooth. This die is struck by the hammer instead of the blow coming in contact with the tooth itself.

A set screw on the opposite end makes the tool adjustable so that by raising or lowering, any desired degree of set may be secured. The pointed die makes the device adaptable to any size of tooth.

The Criterion Saw Set is made of the best refined malleable iron, lacquered a rich brown to prevent rusting. The die and anvil are drop forged from the very finest tool steel and are properly hardened and tempered to give excellent service. Packed one-half dozen in a box.

Price	per dozen	$15.55
Weight, per dozen	pounds	14¼

ATKINS SETTING HAMMERS

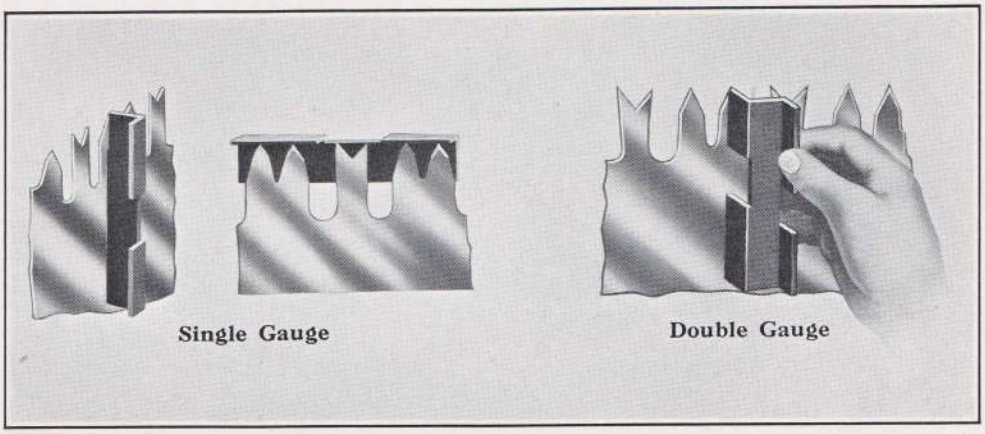
We show on this page two styles of setting hammers. These are made of a specially treated cast steel, nicely finished and of just the proper weight for the purpose.

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

No. 1 is made with a solid peen. No. 2 is slotted so that it may be used for setting purposes when desired. **No. 3** is made of a special grade of tool steel, drop forged and strictly high grade, slotted same as No. 2. Packed one dozen in a box.

Number		1	2	3
Price	per dozen	$8.75	$8.75	$13.95
Weight, per dozen	pounds	8	8	8

ATKINS SAW FITTING TOOLS



ATKINS TOOTH AND RAKER GAUGE

This very handy little tool is used for measuring and regulating the length of the raker teeth as compared with the cutting teeth. It also enables the operator to produce a perfect, uniform set in the teeth.

It is made in two styles. The single gauge regulates the length of the raker teeth and the double gauge combines a gauge for regulating the set, and is for use in both hard and soft wood.

The raker teeth of all cross cut saws should be somewhat shorter than the cutting teeth and of uniform length throughout. The flange of this gauge rests on the points of the cutting teeth. thus permitting the raker to project through the opening in the center. The edge of the gauge is tempered very hard and cannot be cut with the file. When the file comes in contact with the gauge, the proper length of the rakers is secured.

The gauge is moved from tooth to tooth and each point rapidly and correctly reduced to an even length.

Used also for gauging the set of the teeth as is shown in the illustration on this page. The ends of the gauge are differently bevelled and a heavy or light set may thus be secured by simply reversing the gauge. Packed one dozen in a box.

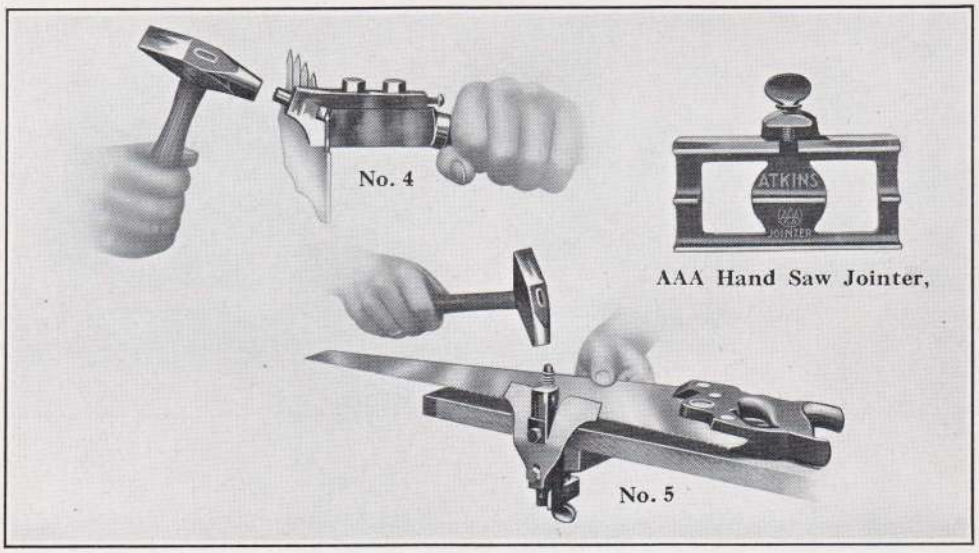
Price, single gauge	per dozen	$1.50
Price, double gauge	per dozen	2.05
Weight, single gauge, per dozen	pounds	$2\frac{3}{16}$
Weight, double gauge, per dozen	pounds	3

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	per dozen	$7.05
Price, old style	per dozen	7.05
Price, set gauges as used in Excelsior Saw Tools	per dozen	1.05
Weight, per dozen	pounds	$7\frac{1}{4}$

ATKINS AAA SAW SETS



AAA Hand Saw Jointer,

ATKINS AAA SAW SET, No. 4

FOR CROSS CUT SAWS

The action of this device is clearly shown in the above illustration. The hammer blow reaching the tooth through the plunger prevents the likelihood of breaking the saw teeth. The amount of set may be regulated by moving the top slide. Absolute uniformity is assured as well as maximum speed. Given the amount of bevel and the slide may be instantly set to proper position. By simply placing the tool over the point of the tooth, and striking the plunger one blow, a perfectly uniform set, located properly on the tooth, is secured.

Made of fine crucible steel, nicely finished. Weight 2 pounds. Packed one-half dozen in a box.

Price.....per dozen $31.35

ATKINS AAA SAW SET, No. 5

FOR HAND SAWS

The above device operates on the same principle as the No. 4, the amount of set being regulated by moving the guide on the front, up or down. Its advantages are obvious, and it not only prevents the breaking of the saw teeth, but assures an absolutely uniform set, avoiding the possibility of setting the teeth too far down on the blade. After setting each alternate tooth, the saw is reversed, thus enabling the operator to complete the process without changing the position of the tool.

Weight 1½ pounds. Packed one-half dozen in a box.

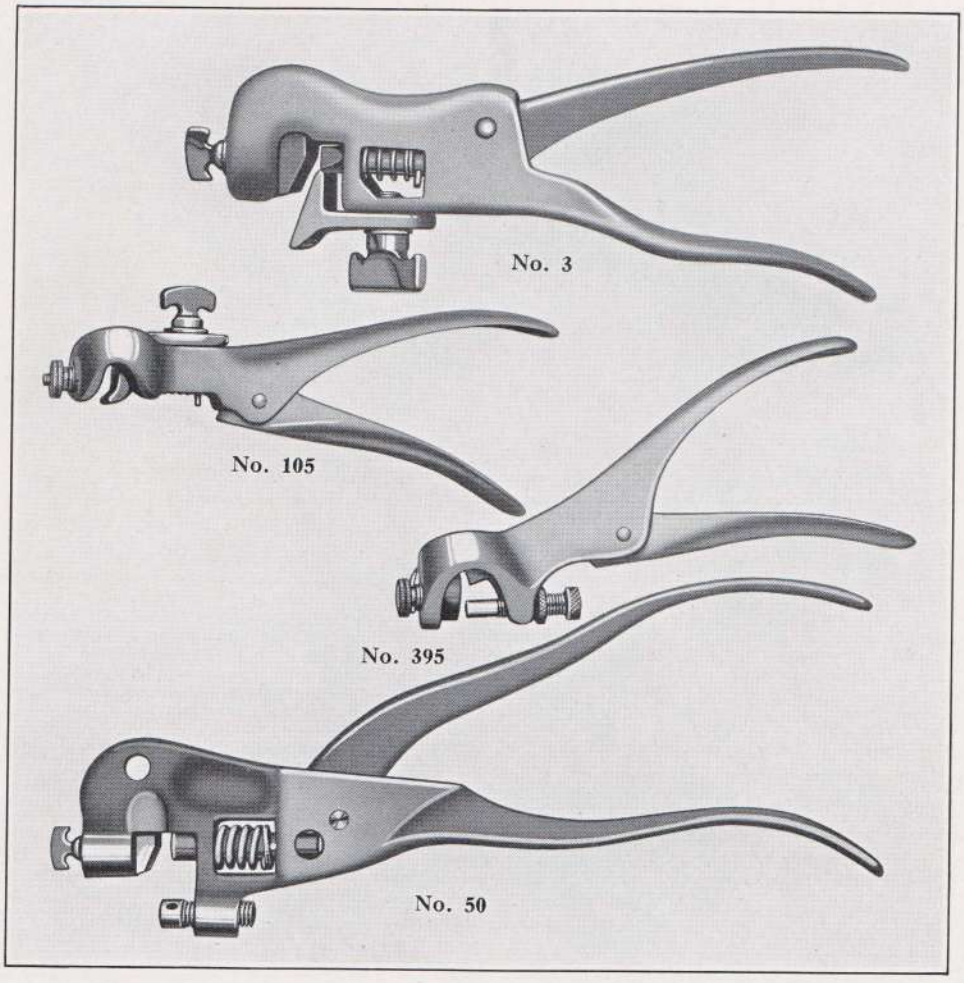
Price.....per dozen $31.35

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. An essential Saw Tool.

Price.....per dozen $2.45
Weight, per dozen.....pounds 3½

ATKINS LEVER SAW SETS



ATKINS Nos. 3 AND 104

These sets are specially designed for cross cut and circular saws. They will successfully set any tooth from 14 to 20 gauge. The depth of the set is regulated by a thumb screw and pressure is applied by merely clamping together. Anvil and plunger of hardened steel. The spring is of highly tempered steel. Finely finished and polished throughout. No. 3 for cross cut and circular saws, single tooth. No. 104 for cross cuts, American, Common and Tuttle Tooth. The No. 104 is the same style as No. 3.

ATKINS No. 105

For Hand and Small Saws. The lever is placed on the lower or under side where it is operated by merely moving the fingers, thus adding great rapidity with least effort. The anvil and plunger are hardened. The spring is of tempered steel. Heavily nickel-plated and buffed to a high finish.

ATKINS No. 395

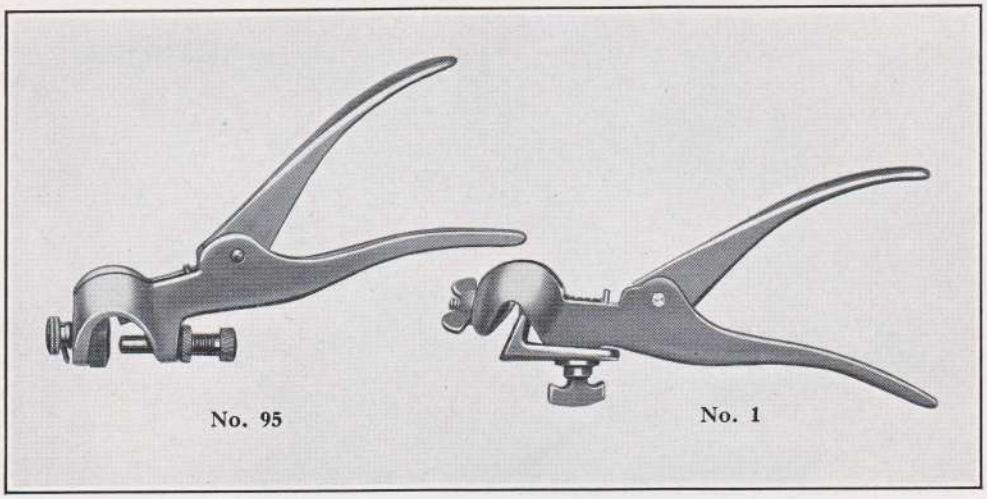
No. 395 revolving anvil with indicator dial. Lever placed below the body of set. Gauge screw has check nut, which prevents it from coming loose. The revolving anvil gives the required bevel and length of all saw teeth from 4 to 16 to the inch. Hardened anvil and plunger. Finely tempered steel spring.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

ATKINS No. 50

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

Dozen	Box	Case	Weight	Price	Dozen	Box	Case	Weight	Price
Nos. 3 and 104	½	6	19	$27.55	No. 105	½	12	8½	$18.70
No. 50	½	12	39	40.75	No. 395	½	12	9	22.05

ATKINS SAW SETS AND FILERS



No. 95 No. 1

ATKINS LEVER SAW SETS

No. 95. For setting crosscut, rip and other similar styles of teeth. Atkins No. 95 Lever Set is one of our popular patterns. Revolving anvil and dial. It is very easily adjusted. The revolving eccentric anvil has the required bevel and length for all saw teeth, ranging from 4 to 16 to the inch.

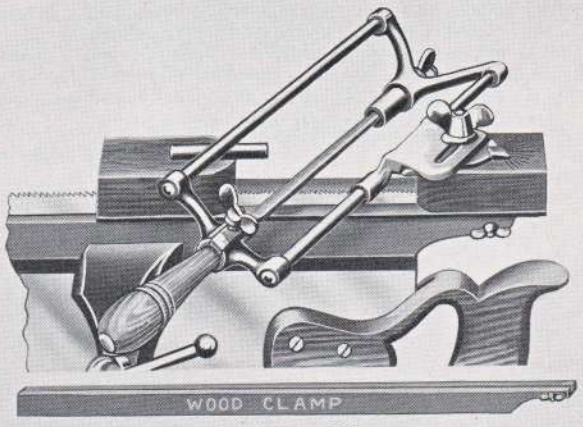
If it is desired to set a saw with six teeth to the inch, for instance, the indicator knob on the end of the set should be turned until the pointer is at the figure six, thus securing an exact set. Hardened anvil and plunger. Finely tempered steel spring. Heavily nickeled and buffed with a high finish. Packed six in a box

No. 1. For hand, band and jig saws, from the widest, down to one-half inch. The principle under which this set operates is apparent by referring to the accompanying illustration. A very simple construction, yet most effective. Hardened anvil and plunger. Highly tempered steel spring. Finely polished. Our No. 0 is same pattern as No. 1, except lighter. Packed six in a box.

Dozen	Box	Case	Weight	Price
No. 95	½	12	9	$22.05
No. 1	½	12	8½	10.60
No. 0	½	12	4¾	9.35

ATKINS HAND SAW FILERS. This saw filing device is the most perfect tool for the purpose ever produced. By following the directions accompanying each filer the most inexperienced boy can file a saw correctly, bringing each tooth to the same bevel and pitch. It can be used with wood clamp in any ordinary vise or with iron saw clamp. A favorite with carpenters. Packed one in a box.

Price	per dozen	$36.70
Weight, each	pounds	3¾



Hand Saw Filer

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.

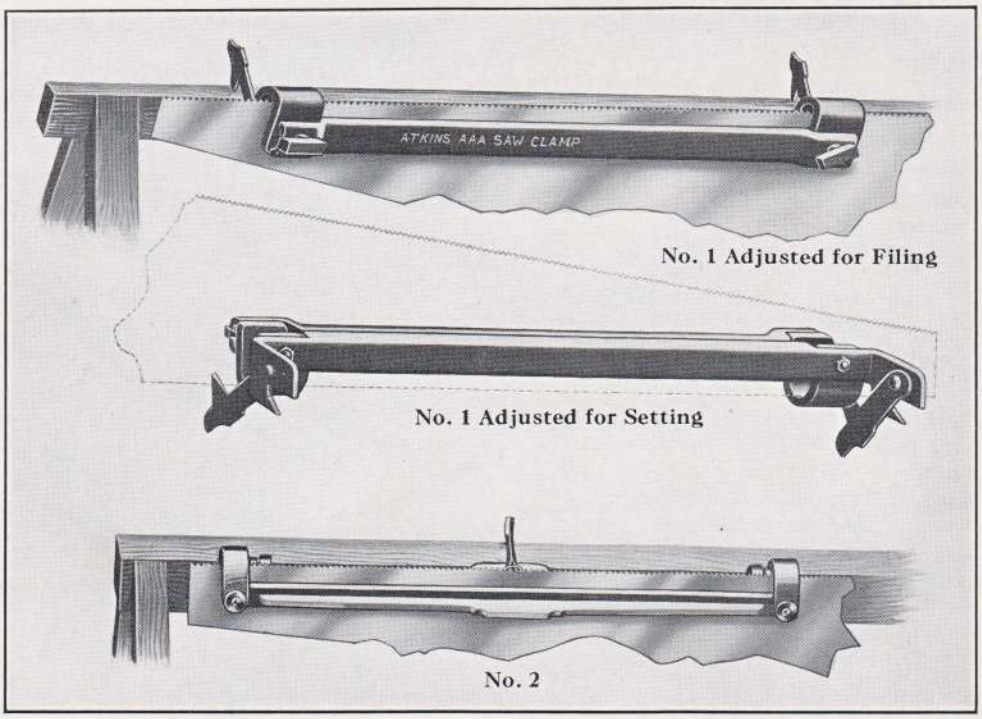
"PERFECT" SAW SET AND VISE COMBINED

Price.....each $9.45
Weight, each.....pounds $8\frac{9}{16}$

"PERFECT" SAW SET

Price.....each $5.45
Weight, each.....pounds $2\frac{5}{8}$

ATKINS "AAA" HAND SAW CLAMPS



ATKINS "AAA" SAW CLAMP, No. 1

Atkins "AAA" Saw Clamps weigh unpacked but little over one pound each and occupy about the same space as an ordinary chisel. They can be used for jointing, setting and filing. May be instantly attached to or detached from any square edge surface. The clamp is seated close to the work, thus preventing vibration. Their extreme simplicity and the ease with which they may be operated is appreciated by the best mechanics everywhere. They are a favorite wherever used.

By referring to the accompanying illustration, you will note that the saw is placed in the clamp at the toothed edge for filing. The connecting arches are reversed for jointing and setting. For this purpose, the blade is clamped at the back, which renders all teeth accessible.

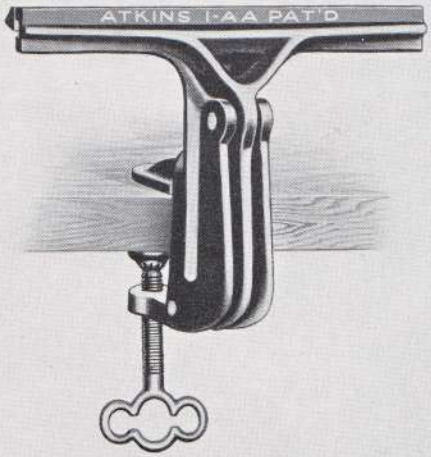
The first illustration shows the clamp in use for filing and the second, for jointing and setting purposes. Note that the clamp does not have to be detached for these various operations after being fastened into place. Packed ¼ dozen in a box.

ATKINS "AAA" SAW CLAMP, No. 2

This clamp differs from No. 1 in that the saw is fastened by an eccentric roller running between the two connecting arches instead of thumb screws. It is attached by use of either a single wood screw or a loose lug which is driven into place at the center. One of "The Finest on Earth." Packed ½ dozen in a box.

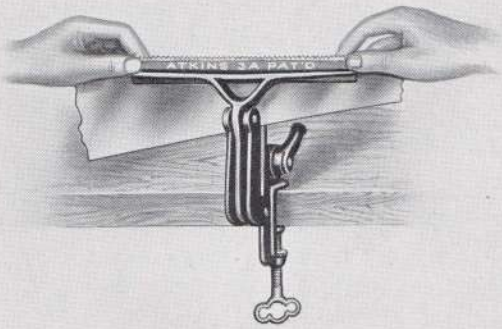
Price, No. 1, japan finish	per dozen	$26.80
Price, No. 1, nickel finish	per dozen	28.25
Price, No. 2, nickel finish	per dozen	29.80
Weight, per dozen	pounds	20

ATKINS NOISELESS SAW VISES



No. 1-A A Saw Vise

No. 1-A Saw Vise



No. 3-A Saw Vise

Atkins Noiseless Saw Vises are made in four different patterns. While they vary in certain particulars, they are all designed to accomplish the same purpose.

The principal advantages lie in their easy adjustment, strong construction and satisfactory service. A slight pressure upon the outer jaw clamps the saw firmly into place. The vise operates on the lock lever principle, so that there is no chance of overstraining, as in the case where the screw is used.

The jaws of these vises are lined with rubber which makes them practically noiseless. The vise, setting as it does, close to the bench, does not vibrate, but is rigid. All wearing parts are reinforced. Made of the best malleable iron and finely finished throughout.

No. 1-AA

This vise has an 11-inch jaw. It is fastened to the bench by a malleable iron screw clamp and may be readily detached and carried from place to place.

No. 1-A

Similar to the 1-AA, excepting that it is fastened to the bench by the use of four wood screws, which may be easily removed for attachment wherever desired. It has an 11-inch jaw.

No. 2-A

Made with a 15-inch jaw, otherwise similar to No. 1-A.

No. 3-A

Length of jaws, 11 inches.

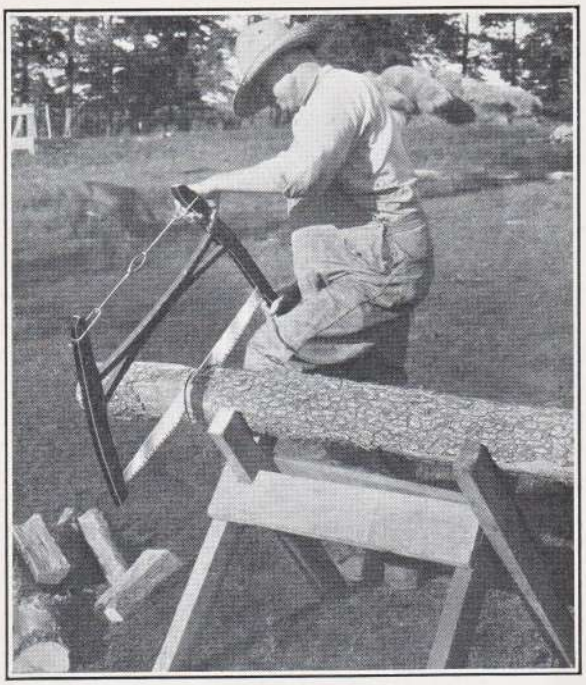
Fastened into place by use of a malleable iron screw clamp and may be readily attached to or detached from any bench, table or board.

The jaws are adjusted by the use of a lever which permits the vise to be tilted to any desired angle.

To clamp the saw into place, grasp the toothed edge with both hands, place the teeth at the desired height above the face of the jaws and clamp into position with the thumbs without removing hands.

Price, No. 1-AA.....per dozen	$21.20
Price, No. 1-A.....per dozen	17.65
Price, No. 2-A.....per dozen	28.25
Price, No. 3-A.....per dozen	19.25
Weight, No. 1-AA, each pounds	5¾
Weight, No. 1-A, each..pounds	5¼
Weight, No. 2-A, each..pounds	8¼
Weight, No. 3-A, each..pounds	6½

ATKINS WOOD SAWS



FRAMES

Made of carefully selected material, thoroughly seasoned; designed to produce the maximum of strength and rigidity; accurately and smoothly machined; beautifully finished in colors or the natural wood and highly varnished to resist moisture. Each piece is inspected after every process.

BLADES

Made of *Atkins Silver Steel, Special Steel* and *Cast Steel;* straight or breasted on the tooth edge and in various widths. In addition to the Standard Plain and Tuttle tooth, we make several Special patterns of our own exclusive design. Accurately ground and polished and finished bright, blued or straw color. Set and filed ready for use.

RODS

High-Grade Frames are equipped with our Special "Jumbo" Rods—extra heavy and waterproofed. Regular Frames have the well-known "Clipper" pattern. All Rods have malleable turnbuckles, black japanned, with full screw-thread guaranteed not to strip.

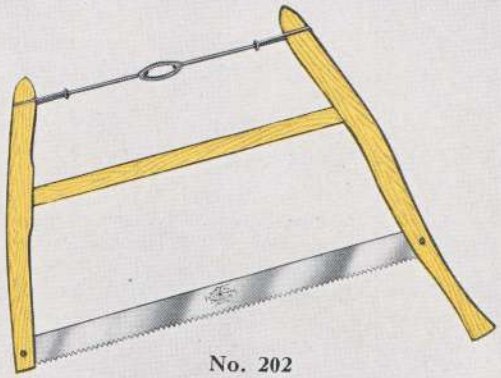
COMBINATIONS

The illustrations show the most popular combinations, but if other combinations are desired, the prices can be ascertained by adding the prices of the frames, blades and rods. The numbers of Wood Saws Complete are obtained by combining the Frame number with the Blade number—thus: Frame No. 500 with Blade No. 8 is No. 508 Wood Saw Complete.

PACKAGES

Wood Saws Complete are packed unassembled one-half dozen (or one dozen if preferred), in a wooden box, including Frames, Blades, Rods and Rivets. Frames only or Frames and Rods only packed in the same manner when so ordered. Frames in bulk (wood parts only), packed in half-gross crates if so desired.

ATKINS WOOD SAWS COMPLETE



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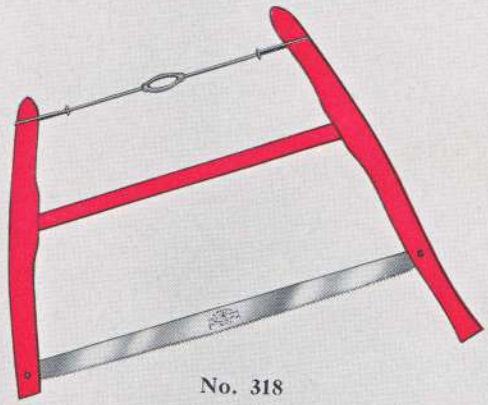

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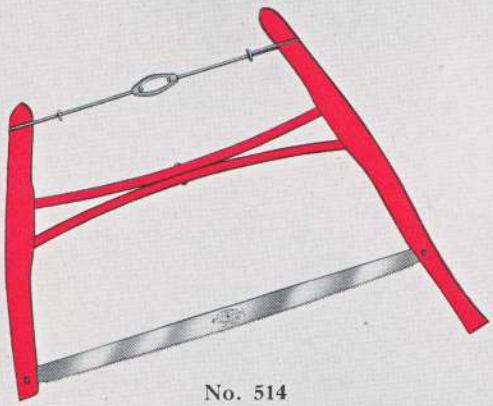


No. 514

No. 202

Combination of

No. 200 Frame

Hardwood, single brace, natural finish. A good serviceable outfit.

No. 2 Blade Clipper Rod

Number...	202	217	218	242
Price, doz..	$30.20	31.55	31.15	31.60

No. 318

Combination of

No. 300 Frame

Hardwood, single brace, painted red and varnished. A popular combination.

No. 18 Blade Clipper Rod

Number...	302	318	323	343
Price, doz..	$31.05	31.90	34.32	32.45

No. 514

Combination of

No. 500 Frame

Selected hardwood, double brace, single riveted, frame nicely enameled red.

No. 14 Blade Jumbo Rod

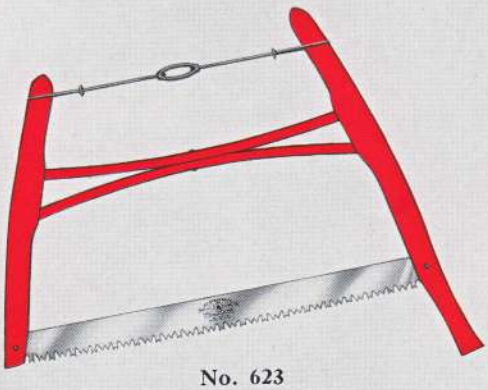
No. 500N, same as No. 500. Natural finish, varnished and nicely finished.

Number...	502	506	514	523
Price, doz..	$25.60	34.90	33.70	32.52

If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

Complete Blades Specifications See Page 202.

ATKINS WOOD SAWS COMPLETE



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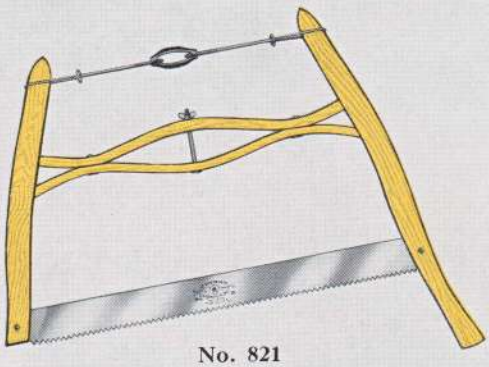

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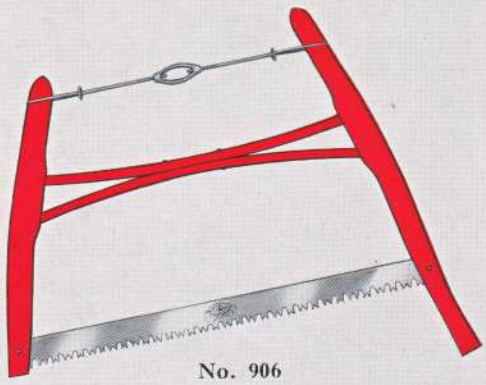


No. 906

No. 623
Combination of
No. 600 Frame

Selected high grade hardwood, double brace, single riveted, enameled red.

No. 23 Blade
Clipper Rod

No. 600N, same as No. 600. Natural finish, varnished all over.

Number . . .	602	618	623	642
Price, doz. .	$31.70	32.50	34.30	33.10

No. 821
Combination of
No. 800 Frame

Patent "Cantilever" pattern, selected hardwood. Straight grain, natural finish, varnished all over.

No. 21 Blade
Jumbo Rod

Number . . .	809	817	821	823
Price, doz. .	$36.60	32.85	38.00	35.12

No. 906
Combination of
No. 900 Frame

Selected hardwood, straight grain, double riveted, frame enameled red.

No. 6 Blade
Jumbo Rod

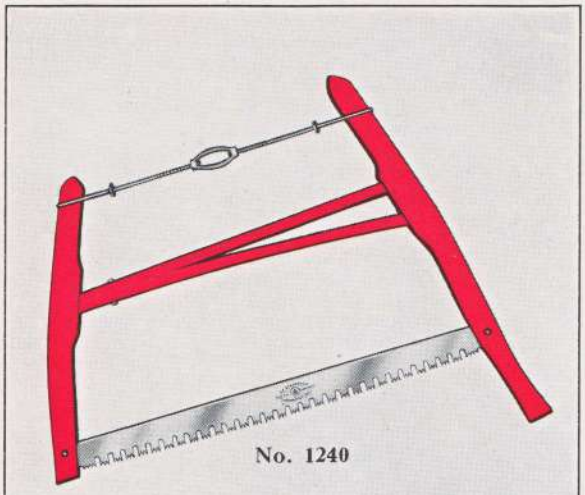
No. 900N. (Natural finish.)
No. 900B. (Blue.)
No. 900W. (Walnut.)
No. 900M. (Mahogany.)

Number . . .	906	909	911	923
Price, doz. .	$35.20	35.85	36.05	35.65

If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

Complete Blades Specifications See Page 202.

ATKINS WOOD SAWS COMPLETE



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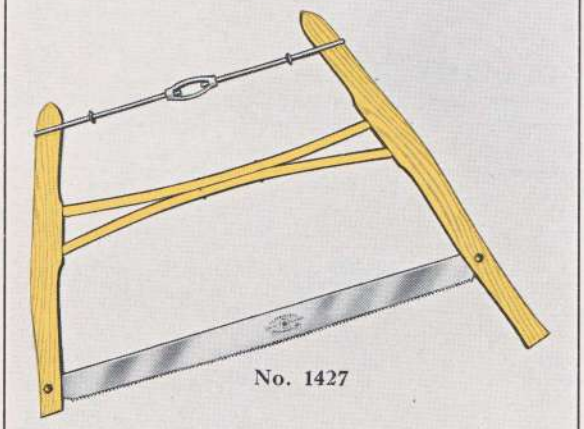

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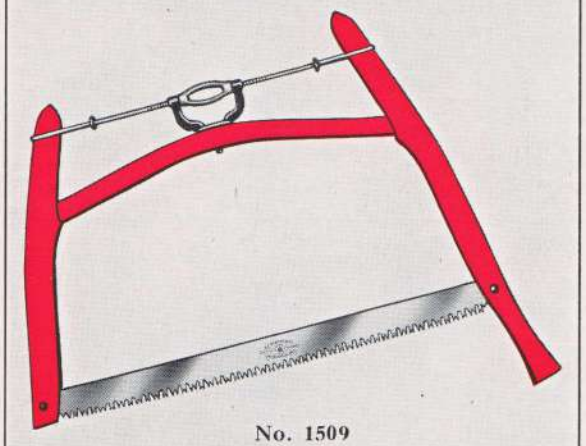


No. 1509

No. 1240

Combination of

No. 1200 Frame

"V" brace pattern, frame selected hardwood, straight grain, enameled red.

No. 40 Blade
Jumbo Rod

Number...	1204	1217	1221	1240
Price, doz..	$35.80	32.05	37.20	37.70

No. 1427

Combination of

No. 1400 Frame

Second growth hickory, straight grain, double riveted, natural finish. Varnished. Very high grade.

No. 27 Blade
Jumbo Rod

Number...	1408	1811	1423	1727
Price, doz..	$36.20	40.60	37.10	37.05

No. 1509

Combination of

No. 1500 Frame

Special high arm (patented) for extra large sticks. Selected hardwood. Straight grain. Red enameled frame.

No. 9 Blade
Jumbo Rod

Number...	1509	1521	1525	1526
Price, doz..	$37.55	38.95	38.50	33.80

No. 1500 Frame also made in 32, 36, 40, 42 and 48-inch lengths.

No. 1600

Same pattern as No. 1500. Made from Selected Hickory, Straight Grain, and finished either a Malachite Green or Natural. Varnished all over.

Price same as No. 1500 plus $2.20 per dozen.

If list prices are desired on other combinations than those shown above, please refer to page 202 and add together the list prices of frames, blades and rods as wanted.

Complete Blades Specifications See Page 202.

ATKINS WOOD SAWS

WOOD SAW FRAMES

No.	Descriptoin	Price Per Doz.	No.	Description	Price Per Doz.
200	Hardwood, single brace, natural finish, unvarnished	$ 9.60	900	Selected hardwood, straight grain, double riveted, enameled red	$11.80
300	Hardwood, single brace, painted red, varnished	10.50	1200	"V" brace pattern, selected hardwood, straight grain, enameled red	11.80
500	Selected hardwood, double brace, single riveted, enameled red	11.45	1400	Second growth hickory, straight grain, double riveted, natural finish, varnished	14.35
600	Selected hardwood, double brace, single riveted, painted red, varnished	9.20	1500	Special high arm pattern, selected hardwood, straight grain, enameled red	14.80
800	Cantilever pattern, selected hardwood, straight grain, natural finish, varnished	16.55	1600	Same pattern as No. 1500, selected hickory, straight grain, malachite green or natural finish, varnished	17.00

NOTE—Wood saw parts ordered separate will be packed in bulk.

RODS FOR WOOD SAW FRAMES

22-inch Clipper Rods, plain	per gross	$37.45
24-inch Clipper Rods, plain	per gross	38.75
22-inch Clipper Rods, rustproof	per gross	41.10
24-inch Clipper Rods, rustproof	per gross	42.05
22-inch Jumbo Rods, rustproof	per gross	51.05
24-inch Jumbo Rods, rustproof	per gross	52.15

ATKINS WOOD SAW BLADES

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

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
21	Plain	Straight	2⅜	Straw	$29.35
11	Tuttle	Breasted	2⅜	Straw	29.90
6	Tuttle	Straight	1¾	Straw	29.85

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

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
1	Plain	Straight	2⅜	Bright	$27.50
8	Plain	Breasted	2⅜	Bright	25.60
4	Tuttle	Straight	2⅜	Bright	27.95
9	Tuttle	Breasted	2⅜	Bright	27.95
14	Plain	Breasted	1¾	Blued	25.15

SHEFFIELD SAW WORKS—SPECIAL STEEL THIN BACK

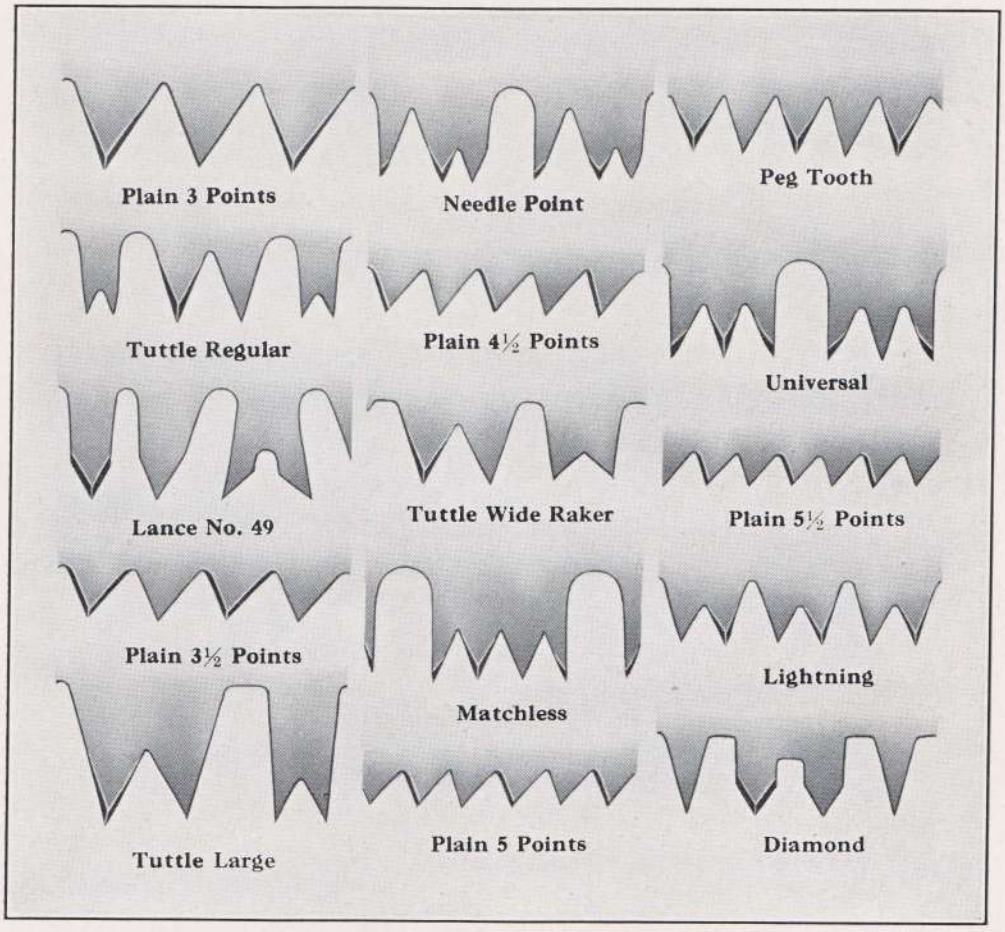
Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
26	Plain	Straight	2¼	Bright	$24.20
17	Plain	Breasted	2¼	Bright	24.20
23	Tuttle	Breasted	2¼	Bright	26.45
18	Plain	Breasted	1¾	Blued	24.05
36	Plain	Straight	1¼	Blued	22.80

CAST STEEL

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
2	Plain	Straight	2	Bright	$23.00
31	Plain	Breasted	2	Bright	23.00
42	Tuttle	Straight	2	Bright	24.40
43	Tuttle	Breasted	2	Bright	24.40
45	Plain	Breasted	1¾	Blued	23.20
38	Plain	Straight	1¼	Blued	22.55

For illustrations of above, see pages 203 and 204.
Extra long length blades made on special orders. Prices on application.

ATKINS WOOD SAW BLADES



STYLES OF TEETH USED IN ATKINS WOOD SAW BLADES

CUTS SHOW ACTUAL SIZE OF TEETH

For lightning, coarse tuttle or 3-point common tooth, add to price of plain tooth of same specifications, per dozen, $1.75.

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
40	Universal	Straight	1½	Bright	$29.85
16	Needle-Point	Breasted	2⅜	Bright	28.90
24	Matchless	Breasted	2⅜	Bright	28.90
25	Lightning	Straight	2⅜	Bright	28.90
27	Peg	Breasted	2¼	Bright	26.45
37	Large Tuttle	Straight	2¼	Bright	26.45
49	Lance	Breasted	2¼	Bright	27.95
*51	Plain	Straight	1	Bright	32 in. 27.55
*54	Tuttle	Straight	1	Bright	32 in. 29.05

NOTE—Blades 32 inches, advance respective lists $1.10 per dozen.
*Pulpwood blades made in 32, 36, 42 and 48-inch lengths. See illustrations foot of page 204.

ATKINS WOOD SAWS

WOOD SAW FRAMES

No.	Descriptoin	Price Per Doz.	No.	Description	Price Per Doz.
200	Hardwood, single brace, natural finish, unvarnished	$ 9.60	900	Selected hardwood, straight grain, double riveted, enameled red	$11.80
300	Hardwood, single brace, painted red, varnished	10.50	1200	"V" brace pattern, selected hardwood, straight grain, enameled red	11.80
500	Selected hardwood, double brace, single riveted, enameled red	11.45	1400	Second growth hickory, straight grain, double riveted, natural finish, varnished	14.35
600	Selected hardwood, double brace, single riveted, painted red, varnished	9.20	1500	Special high arm pattern, selected hardwood, straight grain, enameled red	14.80
800	Cantilever pattern, selected hardwood, straight grain, natural finish, varnished	16.55	1600	Same pattern as No. 1500, selected hickory, straight grain, malachite green or natural finish, varnished	17.00

NOTE—Wood saw parts ordered separate will be packed in bulk.

RODS FOR WOOD SAW FRAMES

22-inch Clipper Rods, plain	per gross	$37.45
24-inch Clipper Rods, plain	per gross	38.75
22-inch Clipper Rods, rustproof	per gross	41.10
24-inch Clipper Rods, rustproof	per gross	42.05
22-inch Jumbo Rods, rustproof	per gross	51.05
24-inch Jumbo Rods, rustproof	per gross	52.15

ATKINS WOOD SAW BLADES

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

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
21	Plain	Straight	2⅜	Straw	$29.35
11	Tuttle	Breasted	2⅜	Straw	29.90
6	Tuttle	Straight	1¾	Straw	29.85

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

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
1	Plain	Straight	2⅜	Bright	$27.50
8	Plain	Breasted	2⅜	Bright	25.60
4	Tuttle	Straight	2⅜	Bright	27.95
9	Tuttle	Breasted	2⅜	Bright	27.95
14	Plain	Breasted	1¾	Blued	25.15

SHEFFIELD SAW WORKS—SPECIAL STEEL THIN BACK

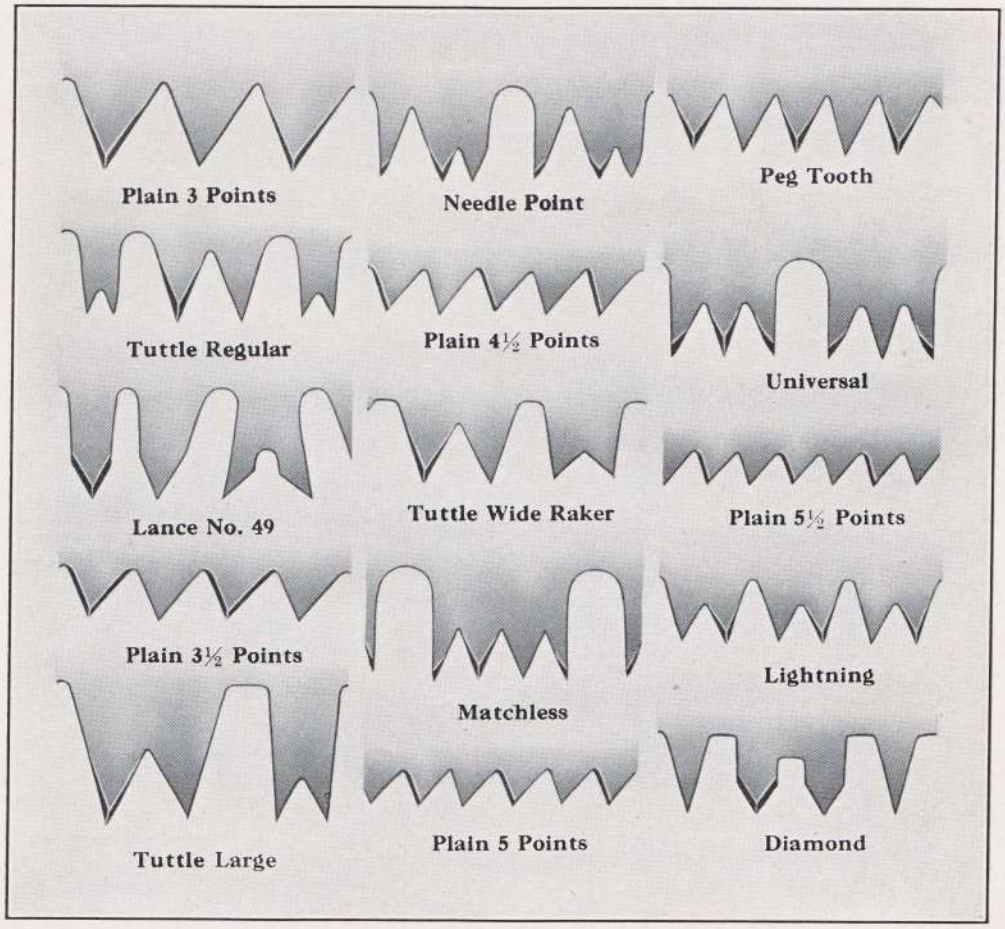
Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
26	Plain	Straight	2¼	Bright	$24.20
17	Plain	Breasted	2¼	Bright	24.20
23	Tuttle	Breasted	2¼	Bright	26.45
18	Plain	Breasted	1¾	Blued	24.05
36	Plain	Straight	1¼	Blued	22.80

CAST STEEL

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
2	Plain	Straight	2	Bright	$23.00
31	Plain	Breasted	2	Bright	23.00
42	Tuttle	Straight	2	Bright	24.40
43	Tuttle	Breasted	2	Bright	24.40
45	Plain	Breasted	1¾	Blued	23.20
38	Plain	Straight	1¼	Blued	22.55

For illustrations of above, see pages 203 and 204.
Extra long length blades made on special orders. Prices on application.

ATKINS WOOD SAW BLADES



STYLES OF TEETH USED IN ATKINS WOOD SAW BLADES

CUTS SHOW ACTUAL SIZE OF TEETH

For lightning, coarse tuttle or 3-point common tooth, add to price of plain tooth of same specifications, per dozen, $1.75.

Number	Style of Tooth	Shape	Width Inches	Finish	List per Dozen 30-inch
40	Universal	Straight	1½	Bright	$29.85
16	Needle-Point	Breasted	2⅜	Bright	28.90
24	Matchless	Breasted	2⅜	Bright	28.90
25	Lightning	Straight	2⅜	Bright	28.90
27	Peg	Breasted	2¼	Bright	26.45
37	Large Tuttle	Straight	2¼	Bright	26.45
49	Lance	Breasted	2¼	Bright	27.95
*51	Plain	Straight	1	Bright	32 in. 27.55
*54	Tuttle	Straight	1	Bright	32 in. 29.05

NOTE—Blades 32 inches, advance respective lists $1.10 per dozen.
*Pulpwood blades made in 32, 36, 42 and 48-inch lengths. See illustrations foot of page 204.

ATKINS CELEBRATED WOOD SAW BLADES

Plain Tooth

Tuttle Tooth

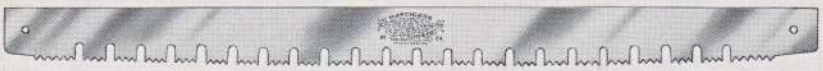
Diamond Tooth

Peg Tooth

Universal Tooth

Lance Tooth

Needle Point Tooth



Matchless Tooth

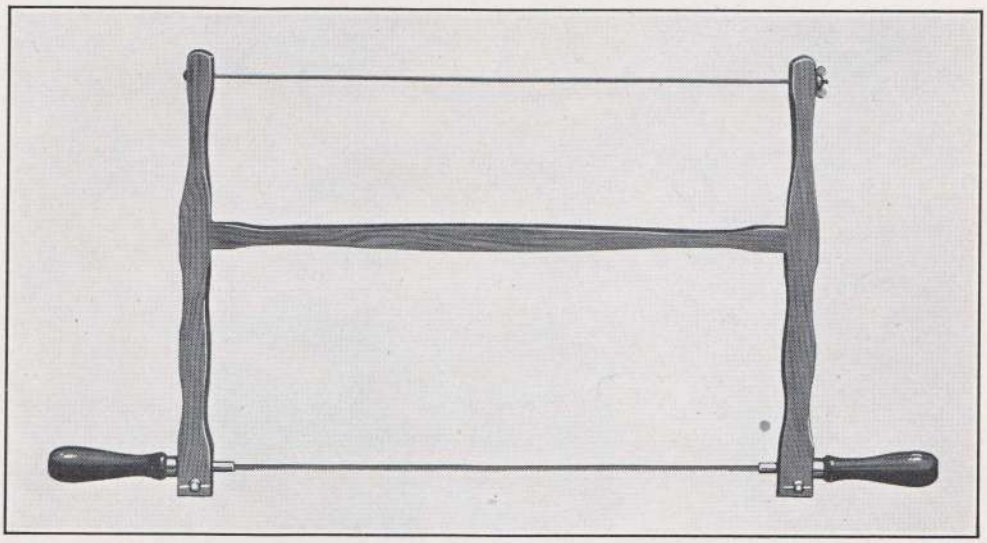
Lightning Tooth

Tuttle Tooth

No. 51 Pulp Wood Blade—Plain Tooth

No. 54 Pulp Wood Blade—Tuttle Tooth

ATKINS "AAA" WEB SAW FRAME



A finely finished, high-grade frame, equipped with Silver Steel blade.

Made of selected hardwood stock, two coats of varnish, natural color. Arms 14¾ inches long by ⅞ inch thick, rounded and shaped.

Rod $\frac{3}{16}$ inch thick, with thumb nut for tension.

4-inch hardwood handle, finished red. A steel socket 1½ inches by ⅜ inch, slit ½ 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.

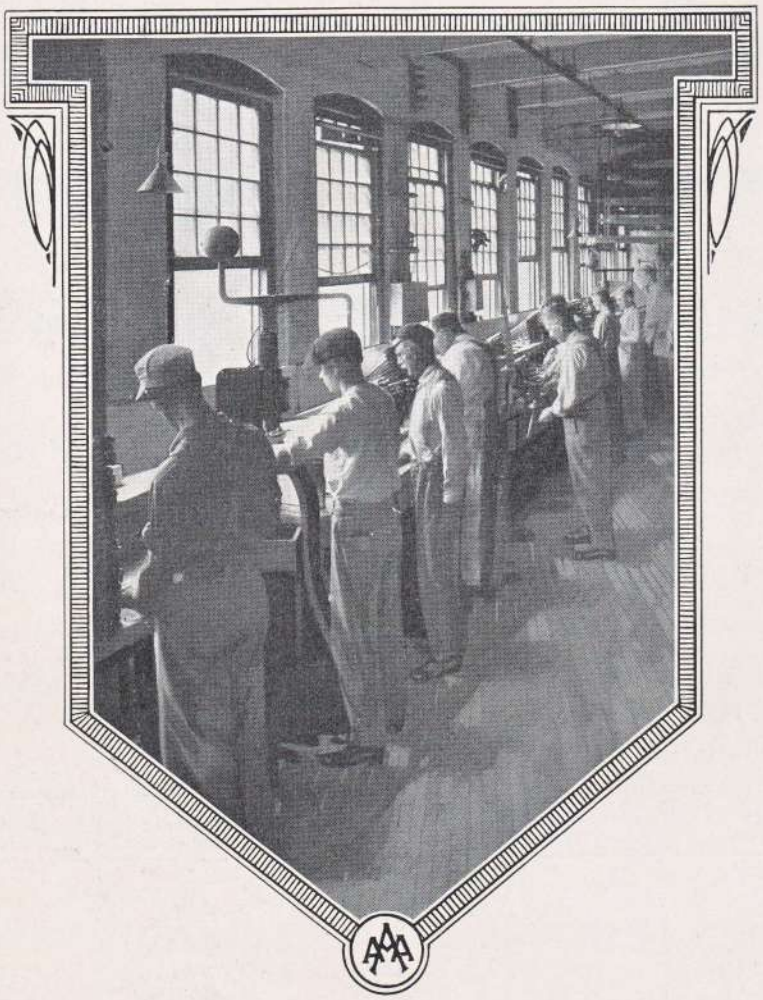
Packed one only in a pasteboard box, knocked down.

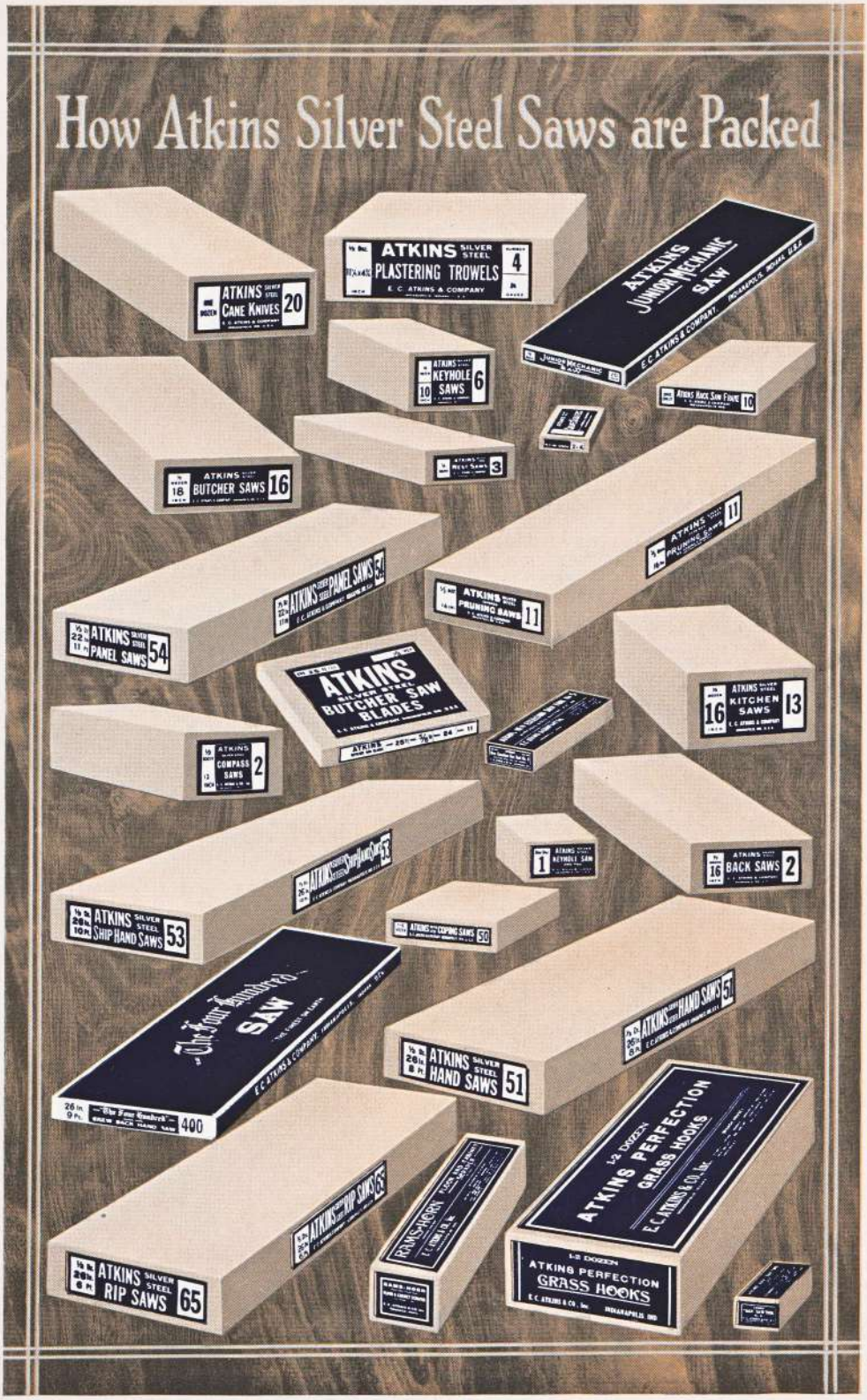
Length of Blade	Length Over All	Price, per Dozen Complete	Price, Blades Only per Dozen	Weight Pounds per Dozen
12	15	$18.25	$2.35	10
14	17	19.00	2.60	11
18	21	19.85	3.25	12
20	23	20.60	3.75	13
22	25	21.50	4.10	14
24	27	22.35	4.60	15

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




How Atkins Silver Steel Saws are Packed
ATKINS SILVER STEEL CANE KNIVES 20
ATKINS SILVER STEEL PLASTERING TROWELS 4
E. C. ATKINS & COMPANY
ATKINS JUNIOR MECHANIC SAW
E. C. ATKINS & COMPANY, INDIANAPOLIS, INDIANA, U.S.A.
ATKINS KEYHOLE SAWS 6
ATKINS BUTCHER SAWS 16
ATKINS SILVER STEEL PANEL SAWS 54
ATKINS PRUNING SAWS 11
ATKINS BUTCHER SAW BLADES
ATKINS SILVER STEEL KITCHEN SAWS 13
ATKINS COMPASS SAWS 2
ATKINS BACK SAWS 2
ATKINS SILVER STEEL SHIP HAND SAWS 53
ATKINS COPING SAWS 50
The Four Hundred SAW
E. C. ATKINS & COMPANY
400
ATKINS SILVER STEEL HAND SAWS 51
ATKINS SILVER STEEL RIP SAWS 65
ATKINS PERFECTION GRASS HOOKS
E. C. ATKINS & CO. Inc.
INDIANAPOLIS, IND.

ATKINS HAND, RIP AND PANEL SAWS

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.

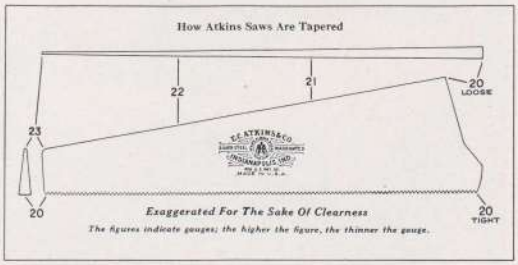
The heat treatment is prescribed in the laboratory after careful analysis. We use gas in our tempering furnaces. This insures an even heat treatment. Through the use of patented machinery, the exact temperature specified by the laboratory is supplied which results in a certain and uniform hardness and toughness.

TAPER GRINDING

Atkins Silver Steel Saws are taper ground —that is, the tooth edge being the same gauge throughout and the remainder of the blade tapering evenly from the point to the butt and from the tooth edge to back. See illustration.

The picture shows the gauges or thicknesses of a typical Silver Steel Hand Saw. In studying it remember that the lower the number, the thicker the steel.

Note, also, that the cutting edge is the same thickness while the back tapers gradually from handle to point.



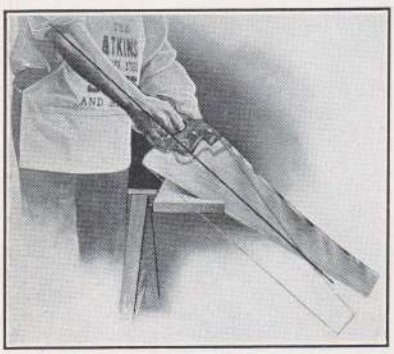
This grinding, exclusive with Silver Steel Saws, in connection with our method of cutting and setting the teeth insures Silver Steel Saws against binding or buckling.

SMITHING

All Silver Steel Saws are smithed by hand. This is a most important process, not apparent to the layman in the finished saw. It removes any unevenness which may have been produced in the tempering processes and insures a saw which will cut true to the line.

THE HANDLE

We make, with some slight variation, two styles of handles; the old style straight across shape and the Atkins Improved Perfection Pattern. Our Perfection Handle is individual and distinctively Atkins.



Nos. 50, 51, 52, 54, 64, 72, 82 and 93 are made with the old style straight across handle. Nos. 53, 65 and 400 are made with the Perfection Handle.

It will be seen that we can, therefore, furnish the genuine Silver Steel Blade, Taper Ground and with all the other distinctive and exclusive Atkins features, with the old style straight across handle, if preferred. We recommend, however, the Perfection Pattern for the reason that it is easier to operate.

If you will notice the illustration to the left and will follow the straight line in this picture, you will see that every ounce of power is primarily directed upon the cutting edge by using the Perfection Style Handle. But with the old style handle (shown by dotted line) the greatest force is applied upon the back of the saw, thus wasting the user's energy unnecessarily.

HOW PACKED

All Atkins Silver Steel Hand, Rip and Panel Saws are packed in standard packages of one-third dozen to box, each saw in individual moisture-proof bag and then placed in cardboard boxes. This renders them less liable to damage and insures a handsome uniform shelf package.

The Atkins label is blue and white and is easily distinguishable at a distance on account of its original and attractive appearance.

All Atkins Silver Steel Saws bear the signature "E. C. Atkins & Co." together with our "AAA" trade-mark, which is plainly etched on the blade. None others are genuine, nor are Atkins Silver Steel Saws ever sold under any other brand than Silver Steel, consequently they are important points to remember when ordering.

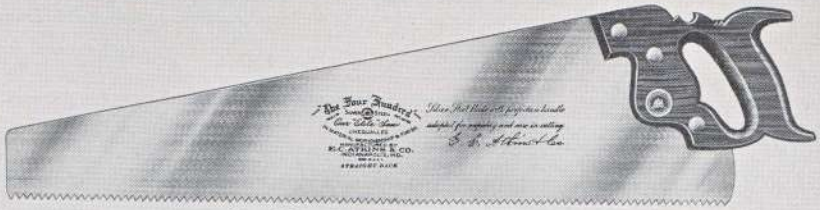
ATKINS HAND, RIP AND PANEL SAWS

SILVER STEEL

TRADE "The Four Hundred" MARK

Skew Back—Regular Pattern

Skew Back—Ship Point Pattern



Straight Back—Regular Pattern

Straight Back—Ship Point Pattern

This is our best saw. Master Carpenters and Builders prefer "The Four Hundred" because it is a saw extraordinary in quality and workmanship. The blade is of Genuine Silver Steel, and is given a perfect temper, which insures long wearing qualities to the sharp cutting teeth. It is made in Regular Pattern Skew Back; Ship Point Skew Back; Regular Pattern Straight Back; Ship Point Straight Back, as illustrated above. The Ship Point Saws are made in 26-inch lengths only. Ground full tapering four gauges and will, therefore, operate free and easy with very little set. Mirror Polish. The handle is of Rosewood, piano finish, Improved Perfection Pattern, which eliminates wrist strain; fastened to saw with three nickel-plated screws and medallion. No other saw maker is offering or manufacturing saws of the high quality of "The Four Hundred," and truly it is as our slogan implies, "The Finest on Earth."

Length.....inches	20	22	24	26	28
Price.....per dozen	$59.50	$63.55	$68.10	$72.65	$83.20

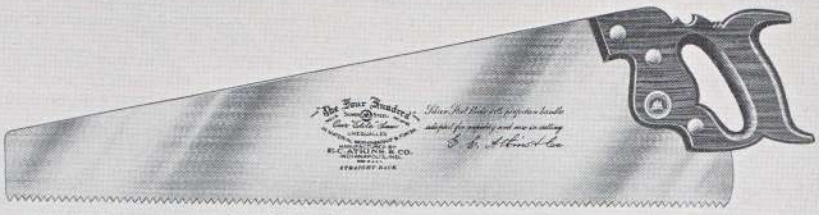
NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS HAND, RIP AND PANEL SAWS
SILVER STEEL

TRADE "The Four Hundred" MARK

Skew Back—Regular Pattern

Skew Back—Ship Point Pattern



Straight Back—Regular Pattern

Straight Back—Ship Point Pattern

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NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS HAND, RIP AND PANEL SAWS
SILVER STEEL

No. 53

Regular Pattern

Ship Point Pattern

This saw appeals to high-class mechanics for general carpentry work and is the most popular saw on the market today. The blade is of genuine SILVER STEEL, taper ground. It is given the Atkins Exclusive Damaskeen Finish. It has a skew back and is fitted with the ATKINS PERFECTION HANDLE, of applewood, embossed and highly polished. Fastened to blade with three nickeled screws and medallion. Made in both regular and ship patterns, as illustrated.

Length.....inches	16	18	20	22	24	26	28
Price.....per dozen	$29.05	$32.45	$36.70	$39.55	$42.70	$44.55	$50.45

No. 65

Regular Pattern

Ship Point Pattern

This is the companion saw to No. 53 illustrated on this page and is similar except that it is made with a straight back. The blade is of Atkins Silver Steel, and is given the exclusive Atkins Damaskeen Finish. Taper ground, tempered by Atkins exclusive process.

The handle is the Atkins Perfection Pattern; applewood, thoroughly seasoned, varnished all over, finely finished. The Atkins exclusive embossing instead of carving, gives it a beautiful appearance. Fastened to the handle with three nickeled screws and a medallion.

Length.....inches	16	18	20	22	24	26	28
Price.....per dozen	$29.05	$32.45	$36.70	$39.55	$42.70	$44.55	$50.45

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS HAND, RIP AND PANEL SAWS
SILVER STEEL

No. 50

Regular Pattern

Ship Point Pattern

A very popular pattern. Strictly high grade. Designed for a general purpose saw. The Atkins scientific construction throughout. The blade is of genuine Atkins Silver Steel, the teeth will, therefore, hold their sharp cutting edge remarkably long. Straight back, as illustrated. Full taper ground. This insures rapid, accurate cutting. Hand smithed, Damaskeen finish.

The handles are made of genuine applewood, thoroughly seasoned. Old style straight across pattern, with Atkins exclusive embossing. Varnished all over. Fastened to the blade with four nickeled screws and a nickeled medallion.

Length.....inches	20	22	24	26
Price.....per dozen	$36.70	$39.55	$42.70	$44.55

No. 51

Regular Pattern

Ship Point Pattern

This saw is similar to No. 50 in general specifications, except that it is made skew back, ribbon edge. Applewood handle, old style block pattern, polished and embossed; attached with three nickeled screws and medallion. Made in both regular and ship patterns, as illustrated.

Length.....inches	16	18	20	22	24	26	28
Price.....per dozen	$29.05	$32.45	$36.70	$39.55	$42.70	$44.55	$50.45

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS HAND, RIP AND PANEL SAWS

SILVER STEEL

No. 54

Regular Pattern

Ship Point Pattern

An extremely popular saw. The blade is of Atkins Silver Steel. Straight back. Damaskeen finish. Full taper ground. Tempered by Atkins exclusive process. Regular and ship point patterns.

Old style handle thoroughly seasoned, extra fine quality beech. Smoothly finished. Varnished all over; polished, not carved. Fastened to the blade with three nickeled screws and a medallion.

Length No. 54.....inches	16	18	20	22	24	26	28
Price.....per dozen	$25.50	$28.05	$31.35	$35.30	$37.25	$39.20	$45.60

No. 64

Regular Pattern

Ship Point Pattern

This is an extra heavy large blade, particularly adapted for all kinds of carpentry work where fast and accurate cutting is required.

It is made of SILVER STEEL, straight back. Damaskeen finish. EMBOSSED and polished applewood handle, of the old style straight across pattern. Fastened to blade with three nickeled screws and medallion. Made in both regular and ship patterns.

Length.....inches	18	20	22	24	26	28
Price.....per dozen	$38.75	$43.35	$48.00	$52.60	$55.35	$64.60

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SPECIAL SAWS

SILVER STEEL

No. 52

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

The handle is of thoroughly seasoned air-dried applewood. Old style, straight across pattern. Atkins original exclusive embossing. Fastened to the blade with four nickeled screws and a nickeled medallion. Sizes under 26 inches, three nickeled screws and a medallion. Made in Hand, Rip and Panel.

Length.....inches	20	22	24	26	28
Price.....per dozen	$57.35	$63.90	$68.45	$70.40	$79.00

No. 72

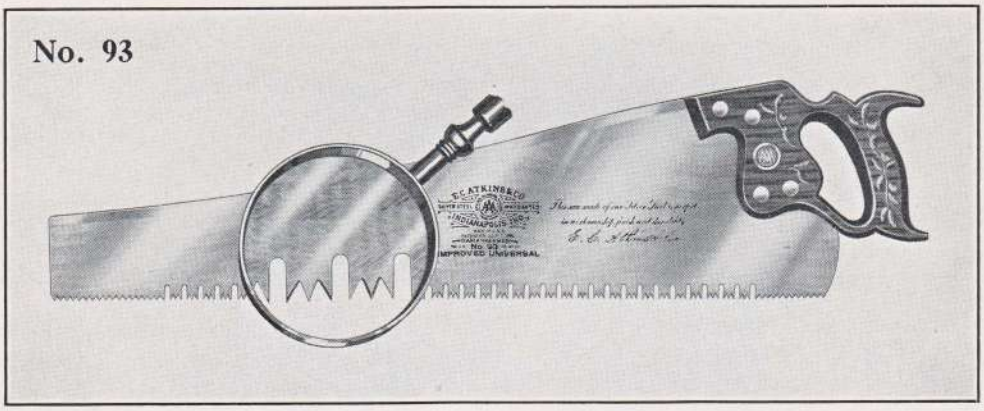
The No. 72 is a Narrow Ship Pattern Saw of Silver Steel, Damaskeened, carved apple handle, old style pattern. Fastened to blade with three nickeled screws and medallion. The blade is 5¾ inches wide at the butt, and 1⅜ inches wide at the point. Made in 26-inch length only in Hand Saw (Cross Cut), not Rip.

Length.....inches	26
Price.....per dozen	$44.55

NOTE—See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE—See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SPECIAL SAWS
SILVER STEEL

No. 93



THE IMPROVED UNIVERSAL SAW

As an all around general utility saw, the Improved Universal is unequaled. Recommended for farm use and for heavy framing purposes, such as concrete work, ship building, car repairing etc.

Made with a special patented tooth. Extra large gullet and raker tooth. It cross-cuts and rips equally well. Blade is made of genuine Silver Steel, skew back, embossed and polished old style handle attached with four nickeled screws and medallion; made in 26-inch length only.

Complete instructions for filing are packed with each No. 93 Universal Saw.

Length	inches	26
Price	per dozen	$60.40

No. 82

ATKINS TRIPLE DUTY SAW

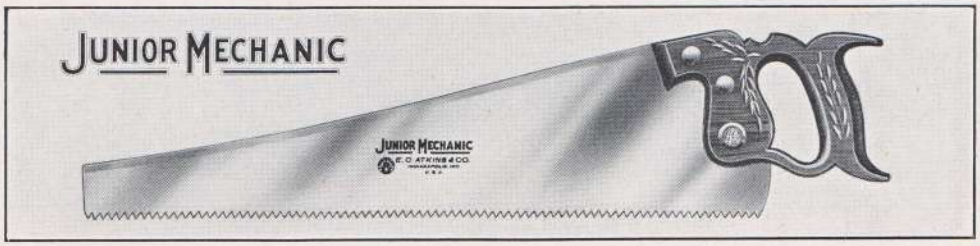
This Saw is appropriately named from the fact that it cuts equally well in ripping, cross-cutting or mitering. It is made of Silver Steel, taper ground. Damaskeen polish, skew back with ribbon edge. Fitted with old style straight across handle of applewood, not carved, highly polished; attached with four nickeled screws and medallion. The teeth have been designed for fast cutting and ease of operation, and is intended for all kinds of timber, particularly for heavy work. Teeth can be kept in order with no more difficulty than one experiences with ordinary hand saw. Complete instructions for fitting accompanies each saw. Made in 6, 7 and 8 points, and in 26-inch length only.

Length	inches	26
Price	per dozen	$56.25

NOTE: See page 221 for complete tabulations of weights, widths and dimensions of Hand, Rip and Panel Saws.
NOTE: See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

ATKINS SPECIAL SAWS

SILVER STEEL



ATKINS JUNIOR MECHANIC

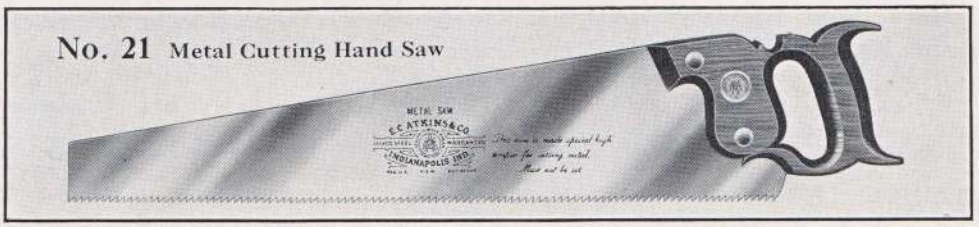
For the Boy's Tool Kit

This saw has been created to meet a long-felt demand of the trade, brought about by the increasing use of tools by boys, boy mechanics, Boy Scouts, etc., and it is also a practical saw to meet the requirements of every household.

The Junior Mechanic is a high grade saw in every respect. It will be found invaluable for home workshop use. It cuts clean, fast and easy, and it will encourage the boy to make things of permanent value for the household. It is sold at a very moderate price.

Made in 20-inch length only, skew back, nine point, taper ground blade, highly polished. Beech handle, coffee stained, full carved, with two nickel-plated screws and a medallion. Packed in attractive individual boxes.

Price.....per dozen $33.55



METAL CUTTING HAND SAW

This blade is made of Silver Steel and will cut all classes of ordinary metal with ease.

The blade is straight breast and back. It is 18 gauge on the toothed edge, 20 gauge on the back and gradually tapers to 23 gauge on the point.

The teeth are specially milled, straight across, but are tempered for slow filing. 15 points to inch.

The handle is made of thoroughly seasoned beech, polished, fastened to the blade by medallion and two brass screws.

No. 22 same as No. 21, except with adjustable handle.

No. 21					
Length....inches	18	20	22	24	26
Price....per dozen	$29.55	$32.40	$36.00	$38.65	$41.80

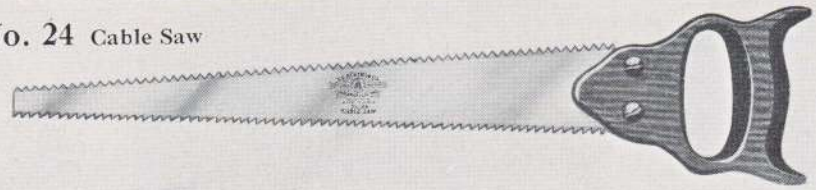
No. 22					
Length....inches	18	20	22	24	26
Price...per dozen	$32.40	$35.75	$39.25	$42.85	$46.15

Saws 18 inches long will be furnished unless otherwise specified. For complete tabulation of weights, widths and dimensions see page 221.

ATKINS SPECIAL SAWS

SILVER STEEL

No. 24 Cable Saw



ATKINS CABLE SAWS

An essential saw for cutting cables, etc. Made of Silver Steel; equipped with beech handle, two brass screws. Blade 16 inches long, one side toothed 10 points to the inch and the other 13 points to the inch. Ground 17 x 19 gauge. 2¼ inches wide at butt and ⅝ inch at point.

Price.....per dozen $15.20

No. 23 Plumbers' Saw

ATKINS PLUMBERS' SAWS

A very useful saw for cutting flooring; top edge toothed 5½ points rip teeth; bottom edge 8 points hand saw teeth. Beech handle, varnished edge, fitted to saw with three brass screws. Silver Steel, 18 gauge, flat ground. 12-inch blade is 2¾ inches wide at butt and 2 inches at point, increasing in proportion to 3⅛ inches at butt by 2⅜ inches at point for the 18-inch.

Length.....inches	12	14	16	18
Price.....per dozen	$17.10	$18.25	$19.40	$20.90

No. 100 Flooring Saw

ATKINS FLOORING SAW

This saw is designed for sawing into flat surfaces, such as floors, without necessity of boring or using keyhole saw or chisel. The point is toothed on both edges so that out of the way spots may be reached with ease. It is made of Silver Steel, beautifully polished and etched. Genuine apple handle, polished, not carved. Three brass screws and medallion. Made in 18-inch only. 10 points to the inch.

Length.....inches	18
Price.....per dozen	$34.85

ATKINS SPECIAL SAWS

No. 28 Carpenters' Handy Saw

ATKINS CARPENTERS' HANDY SAW—SILVER STEEL

Silver Steel, apple handle, carved, varnished and polished. Put up one-third dozen in a box. A very popular saw, used by carpenters, stair builders, cabinet makers and good artisans. Made with 12 points to inch.

Length	inches 17
Price	per dozen $27.20

No. 590 Docking Saw

ATKINS No. 590 DOCKING SAW

A useful saw for rough, fast sawing around docks, ship yards, car shops, lumber yards, farms, and for bridge, mine, railroad and contractors' work. Full breasted blade, 18 gauge on toothed edge, taper ground to 20 gauge for clearance, bevel filed teeth, 4½ points to inch, peg shape. Handle, easy grip pattern, malleable iron, tinned and riveted. High-grade special steel. Each saw sharpened and set ready for use.

Length	inches 30
List price	per dozen $48.10
Width at butt	inches 6½
Width at point	inches 2½

No. 20 Plasterers' Saw

ATKINS PLASTER SAW, No. 20—SPECIAL STEEL

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

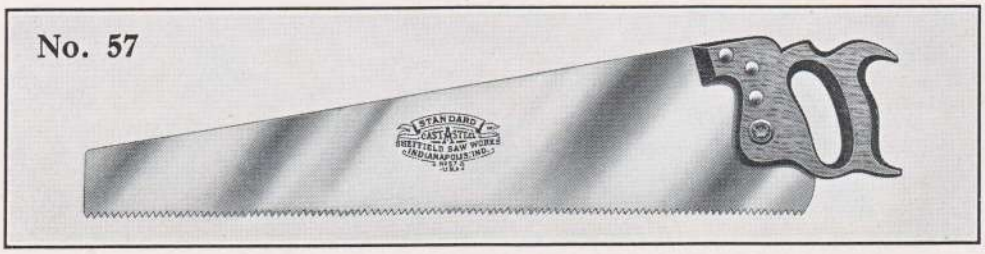
Filed straight and set. Packed one-half dozen in a box.

Length	inches 28
Price	per dozen $21.20

HAND, RIP AND PANEL SAWS

SHEFFIELD SAW WORKS

No. 57



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

Length ..... inches	16	18	20	22	24	26	28
Price, No. 57. ..... per dozen	$12.60	$13.70	$14.75	$15.80	$16.85	$19.00	$22.15

No. 58

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

Length ..... inches	16	18	20	22	24	26	28
Price, No. 58..... per dozen	$18.35	$19.85	$21.25	$22.65	$24.10	$26.05	$30.00

No. 59

No. 59 is a companion to the No. 58 except it is skew back, made of high quality cast steel fully warranted. The handle is of thoroughly seasoned beech, varnished and polished all over. Fastened to blade with three brass screws and a medallion.

Length ..... inches	16	18	20	22	24	26	28
Price, No. 59..... per dozen	$20.90	$22.25	$23.45	$24.80	$26.30	$28.05	$31.95

NOTE – See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

HAND, RIP AND PANEL SAWS

SHEFFIELD SAW WORKS

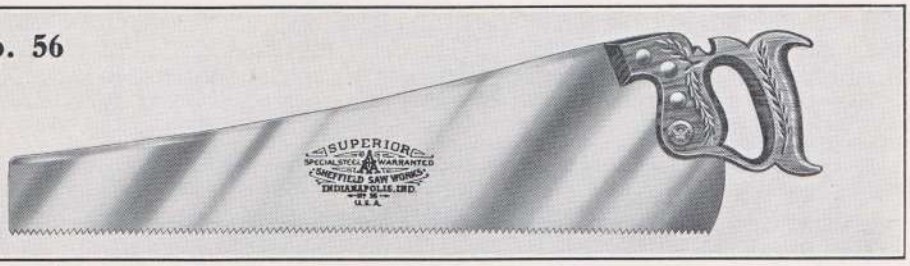
No. 110

The No. 110 is a popular price Hand Saw made to meet the demand for a medium price, good quality saw. It is made from Crucible Steel, full width, high polish, skew back, ribbon edge, cherry handle; spindle carved, attached with four brass screws and medallion.

Our No. 111 is the same as above except it is Straight Back.

Length.....inches	16	18	20	22	24	26	28
Price.....per dozen	$29.75	$30.85	$32.30	$33.75	$35.35	$38.15	$42.55

No. 56



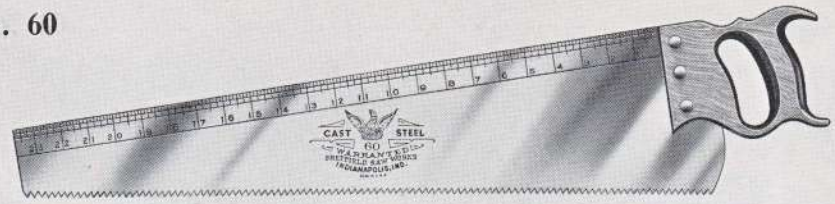
The illustration above shows our No. 56 Hand Saw. It is made of Sheffield Special Steel, skew back with ribbon edge, nicely polished; carved handle, beech, coffee stained, attached to saw with three brass screws and medallion. A good saw for household use.

Length.....inches	16	18	20	22	24	26	28
Price.....per dozen	$28.00	$28.95	$30.00	$31.40	$32.80	$34.35	$37.25

NOTE: See page 222 for specifications of standardized lengths and points to inch of Hand, Rip and Panel Saws.

HAND, RIP AND PANEL SAWS
SHEFFIELD SAW WORKS

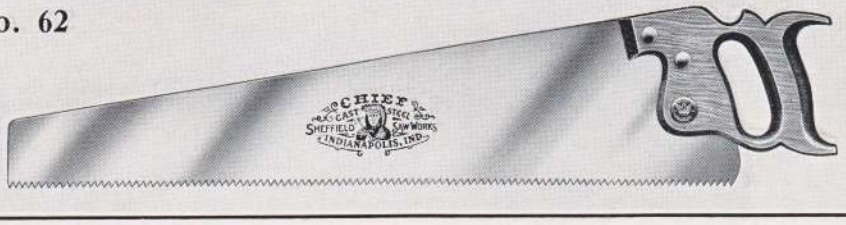
No. 60



No. 60 blade with combined rule and square is made of cast steel, polished. A two-foot rule is etched along the back of the blade. The handle, being at right angles to the straight edge back, forms a square. The handle is of beech, varnished edge, and fastened to the blade with three brass screws.

Length	inches	26
Price, No. 60	per dozen	$15.80

No. 62



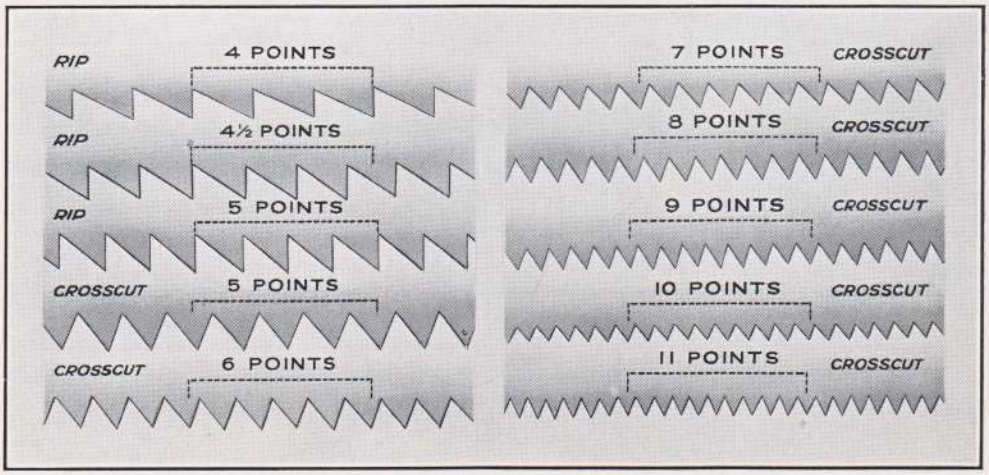
No. 62 is a good serviceable saw for the money. Blade is made of cast steel and polished. Beech handle, varnished on edge, fastened to blade with two brass screws and a medallion.

Length ... inches	16	18	20	22	24	26	28
Price, No. 62 ... per dozen	$12.30	$13.50	$14.70	$15.85	$17.20	$18.40	$20.55

NUMBER OF POINTS PER INCH IN HAND, RIP, PANEL, PRUNING AND SMALL SAWS

To prevent error in ordering, we illustrate below the various points of saw teeth from four to eleven. Please note particularly that the term "points per inch" in saw teeth indicates the number of tooth points occurring *Within a Space of One Inch.*

It does not mean that in a four point saw, for instance, there are four entire teeth to each inch. On the other hand, there is always One Less Tooth per Inch Than There Are Points.



NOTE: See page 222 for specifica tions of standardized lengths and points to inch of Hand, Rip and Panel Saws.

TABULATIONS

OF

APPROXIMATE WEIGHTS, WIDTHS AND DIMENSIONS OF HAND, RIP AND PANEL SAWS AT POINT AND BUTT

Number of Saw	18 Inch			22 Inch			26 Inch			28 Inch		
	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches	Pounds per Dozen	Width at Point Inches	Width at Butt Inches
21 Metal Cutting	13.	1½	4½	18.	1⅝	4¾	25.	1¾	5½			
22 Metal Cutting	13.	1½	4½	18.	1⅝	4¾	25.	1¾	5½			
50 Regular Pattern	12.8	1⅝	5	18.2	1⅞	5⅞	25.3	2½	7⅛	30.	2¾	7½
50 Ship Pattern							22.5	1¾	6¼			
51 Regular Pattern	12.7	1⅝	5	18.	1⅞	5⅞	24.7	2½	7⅛	30.	2¾	7½
51 Ship Pattern							22.5	1¾	6¼			
52 Regular Pattern	13.	1⅝	5	19.	1⅞	5⅞	26.	2½	7⅛	31.	2¾	7½
53 Regular Pattern	12.7	1⅝	5	18.	1⅞	5⅞	24.5	2½	7⅛	28.5	2¾	7½
53 Ship Pattern							22.5	1¾	6¼			
54 Regular Pattern	12.8	1⅝	5¼	18.7	1⅞	6¼	25.5	2½	7¼	30.8	2¾	7⅝
54 Ship Pattern							24.	1¾	6¼			
64 Regular Pattern	12.8	1⅝	5⅜	18.5	1⅞	6⅜	25.5	2½	7½	30.5	2¾	7⅞
64 Ship Pattern							22.5	1¾	6¼			
65 Regular Pattern	12.8	1⅝	5	18.2	1⅞	5⅞	25.3	2½	7⅛	29.5	2¾	7½
65 Ship Pattern							22.5	1¾	6¼			
72 Ship Pattern							21.	1⅜	5½			
82 Triple Duty Pattern							24.7	2½	7⅛			
93 Universal Tooth Pattern							24.	2½	7⅛			
400 Skew Back Reg. Pattern	14.	1⅝	5	22.	1⅞	5⅞	31.3	2½	7⅛	34.	2¾	7½
400 Skew Back Ship Pattern							28.5	1¾	6¼			
400 Straight Back Reg. Pattern	15.	1⅝	5	23.	1⅞	5⅞	31.5	2½	7⅛	34.6	2¾	7½
400 Straight Back Ship Pattern							28.3	1¾	6¼			

SPECIFICATIONS OF STANDARDIZED LENGTHS AND POINTS TO INCH OF HAND, RIP AND PANEL SAWS

COVERING HAND SAW SECTION, PAGE 206 TO PAGE 221

No. 50 CROSS CUT HAND SAWS

	Points
20 inch	9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	7-8-9-10-11

No. 50 RIP SAWS

	Points
26 inch	4½-5-5½-6
28 "	4½-5-5½-6

No. 50 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 50 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6

No. 51 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	5-6-7-8-9-10-11
28 "	5-6-7-8

No. 51 RIP SAWS

	Points
20 inch	7
22 "	7
24 "	5-5½-6-7
26 "	4½-5-5½-6
28 "	3½-4-4½-5-5½-6

No. 51 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 51 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6-7

No. 52 CROSS CUT HAND SAWS

	Points
20 inch	10-11
22 "	10-11
24 "	9-10-11
26 "	7-8-9-10-11

No. 52 RIP SAWS

	Points
26 inch	5-5½-6
28 "	5-5½-6

No. 53 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	5-6-7-8-9-10-11
28 "	5-6-7-8

No. 53 RIP SAWS

	Points
20 inch	7
22 "	7
24 "	5-5½-6-7
26 "	4½-5-5½-6-7
28 "	3½-4-4½-5-5½-6

No. 53 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 53 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6-7

No. 54 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	5-6-7-8-9-10
28 "	5-6-7-8

No. 54 RIP SAWS

	Points
20 inch	7
22 "	5½-6-7
24 "	5-5½-6-7
26 "	5-5½-6-7
28 "	4-4½-5-5½-6

No. 54 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 54 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6

No. 61 CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10

No. 64 CROSS CUT HAND SAWS

	Points
18 inch	10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	7-8-9-10-11
28 "	5-6-7

No. 64 RIP SAWS

	Points
24 inch	5-5½-6-7
26 "	5-5½-6
28 "	5-5½-6

No. 64 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 64 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6

No. 65 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	5-6-7-8-9-10-11
28 "	5-6-7-8

No. 65 RIP SAWS

	Points
20 inch	7
22 "	5½-6-7
24 "	5-5½-6-7
26 "	4½-5-5½-6
28 "	3½-4-4½-5-5½-6

No. 65 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

No. 65 SHIP POINT RIP SAWS

	Points
26 inch	5-5½-6

No. 72 SHIP POINT CROSS CUT HAND SAWS

	Points
26 inch	7-8-9-10-11

"THE FOUR HUNDRED"
Skew Back Cross Cut Hand Saws

	Points
20 inch	10-11
22 "	10-11
24 "	9-10-11
26 "	7-8-9-10-11

"THE FOUR HUNDRED"
Skew Back Rip Saws

	Points
26 inch	5-5½-6
28 "	4½-5-5½-6

"THE FOUR HUNDRED"
Skew Back Ship Point Cross Cut Hand Saws

	Points
26 inch	7-8-9-10-11

"THE FOUR HUNDRED"
Skew Back Ship Point Rip Saws

	Points
26 inch	5-5½-6

"THE FOUR HUNDRED"
Straight Back Cross Cut Hand Saws

	Points
20 inch	10-11
22 "	10-11
24 "	9-10-11
26 "	7-8-9-10-11

"THE FOUR HUNDRED"
Straight Back Rip Saws

	Points
26 inch	5-5½-6
28 "	4½-5-5½-6

"THE FOUR HUNDRED"
Straight Back Ship Point Cross Cut Hand Saws

	Points
26 inch	7-8-9-10-11

"THE FOUR HUNDRED"
Straight Back Ship Point Rip Saws

	Points
26 inch	5-5½-6

ATKINS JUNIOR MECHANIC

	Points
20 inch	9

No. 93 HAND SAW

	Points
26 inch	Patented Tooth

No. 82 HAND SAW

	Points
26 inch	6-7-8

No. 56 CROSS CUT HAND SAWS

	Points
16 inch	9-10-11
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	6-7-8-9-10-11
28 "	5-6-7-8-9-10-11

No. 57 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	6-7-8-9-10-11

No. 58 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	6-7-8-9-10-11

No. 59 CROSS CUT HAND SAWS

	Points
16 inch	9-10
18 "	9-10-11
20 "	9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	6-7-8-9-10-11

No. 60 CROSS CUT HAND SAWS

	Points
26 inch	6-7-8-9

No. 62 CROSS CUT HAND SAWS

	Points
16 inch	8-9-10
18 "	8-9-10
20 "	8-9-10
22 "	7-8-9-10
24 "	7-8-9-10
26 "	6-7-8-9-10

No. 110 CROSS CUT HAND SAWS

	Points
16 inch	9-10-11
18 "	9-10-11
20 "	8-9-10-11
22 "	8-9-10-11
24 "	7-8-9-10-11
26 "	6-7-8-9-10-11
28 "	5-6-7-8-9-10-11

No. 111 CROSS CUT HAND SAWS
Made in same lengths and points as No. 110.

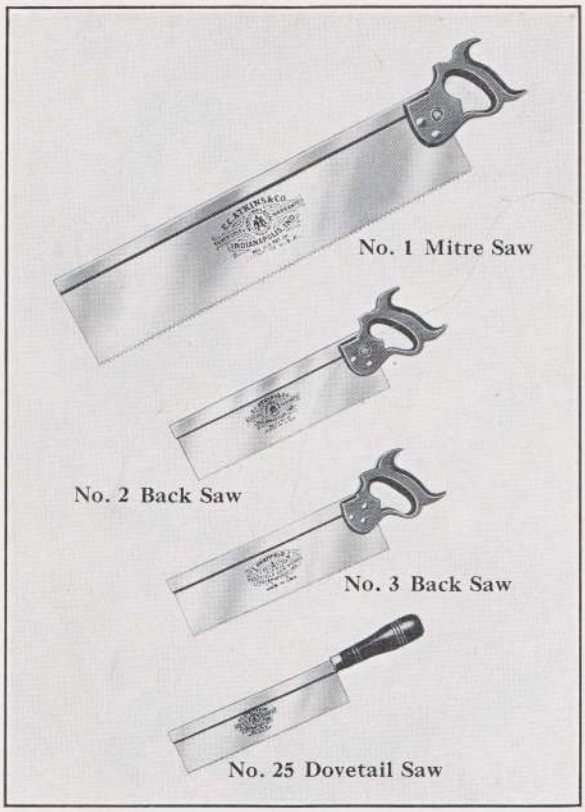
Nos. 56, 58, 59, 110, 111
All of the above saws are made in the following lengths and points in RIP SAWS:

	Points
20 inch	7
22 "	7
24 "	5-5½-6
26 "	5-5½-6
28 "	5-5½-6

No. 57 AND 62 RIP SAWS

	Points
26 inch	5-6
28 "	5-6

ATKINS MITRE BOX, BACK AND DOVETAIL SAWS



Atkins No. 1 Mitre Box Saw and No. 2 Back Saw are made of Atkins Silver Steel, which is an assurance of quality. No. 3 Back Saw is made of standard cast steel, finely tempered, and will be found satisfactory for ordinary service.

Nos. 1 and 2 are made with genuine applewood handle, varnished and polished edges, fastened to the blade by two brass screws and a brass medallion. No. 3 has a thoroughly seasoned beech handle, nicely finished polished edges, and fastened to the blade by three brass screws. The backs of these saws are blued.

The No. 1 Mitre Saw is toothed 12 points to the inch, in 16 and 18 inch lengths, all over are toothed 11 points to the inch. Back Saws are toothed 14 points to the inch in lengths of 14 inches and under.

Packed one-third dozen in a box.

8, 10, and 12-inch blades about 21 gauge. From 14 to 26-inch blades about 20 gauge. 28-inch and over about 19 gauge.

ATKINS No. 25 DOVETAIL SAWS

This Saw is made for light, fine work and in our Famous Silver Steel quality only. The steel back makes it rigid and strong, yet very light. They are recommended for fine cabinet work where a Back Saw is not practical.

These Saws are 1½ inches wide under the back, 26 gauge, and toothed 17 points to the inch. The blade is nicely polished and fitted with hardwood polished handle.

Each Saw is set and filed, and packed one-third dozen in a box

ATKINS MITRE BOX SAWS, No. 1

Length.....inches	18	20	22	24	26	28	30	32
Price, 4 inches under back . per dozen	$48.20	$52.40	$56.65	$61.00	$65.30	$69.55	.....	.....
Price, 5 inches under back . per dozen	.....	.....	61.00	64.35	72.45	76.15	$83.90	$89.55
Price, 6 inches under back . per dozen	.....	.....	67.70	74.30	81.00	87.70	94.40	101.05
Weight, 4 inch, per dozen....pounds	25½	28¾	32¾	33¾	35	40	43	46
Weight, 5 inch, per dozen....pounds	.....	.....	38	39½	40¼	43½	48	54
Weight, 6 inch, per dozen....pounds	.....	.....	40	42½	44	48½	52½	56

ATKINS SILVER STEEL BACK SAWS, No. 2

Length.....inches	8	10	12	14	16	18
Price.....per dozen	$28.60	$30.55	$34.25	$38.10	$42.90	$47.65
Weight, per dozen.....pounds	10½	12	14	18¾	22½	25½

SHEFFIELD SAW WORKS BACK SAWS, No. 3

Length.....inches	8	10	12	14	16	18	20	22	24
Price.....per dozen	$19.60	$21.90	$25.75	$30.10	$34.35	$38.65	$43.35	$48.20	$52.95
Weight, per dozen...pounds	10½	12	14	18¾	22½	25½	29½	33	36½

ATKINS No. 25 DOVETAIL SAWS

Length.....inches	6	8	10	12
Price.....per dozen	$15.90	$18.20	$20.45	$22.80

ATKINS COMPASS SAWS

No. 2 SILVER STEEL

Attached with saw screw and medallion, carved and polished apple handle. 8 points per inch.

Price, per Dozen

Length Inches	No. 2 Saws Complete	Blades Only	No. 3 Saws Complete
10	$8.75	$5.30	$8.05
12	9.25	5.55	8.65
14	9.80	5.90	9.20
16	10.40	6.35	9.90
18	11.45	6.90	....

No. 3 SILVER STEEL

Attached with saw screw and medallion, carved and polished beech handle. Made in 10, 12, 14 and 16-inch lengths. 8 points per inch.

No. 4

Beech handle, two screws, varnished edge. Made in 10, 12, 14 and 16-inch lengths. Sheffield quality. 8 points per inch.

Price.....per dozen $5.20

No. 7 SILVER STEEL

One screw and medallion, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths. 8 points per inch.

Price.....per dozen $6.50

No. 8

Polished wood screws, beech handle, varnished edge. Made in 10, 12, 14 and 16-inch lengths. Sheffield quality. 8 points per inch.

Price.....per dozen $4.00

WEIGHTS

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

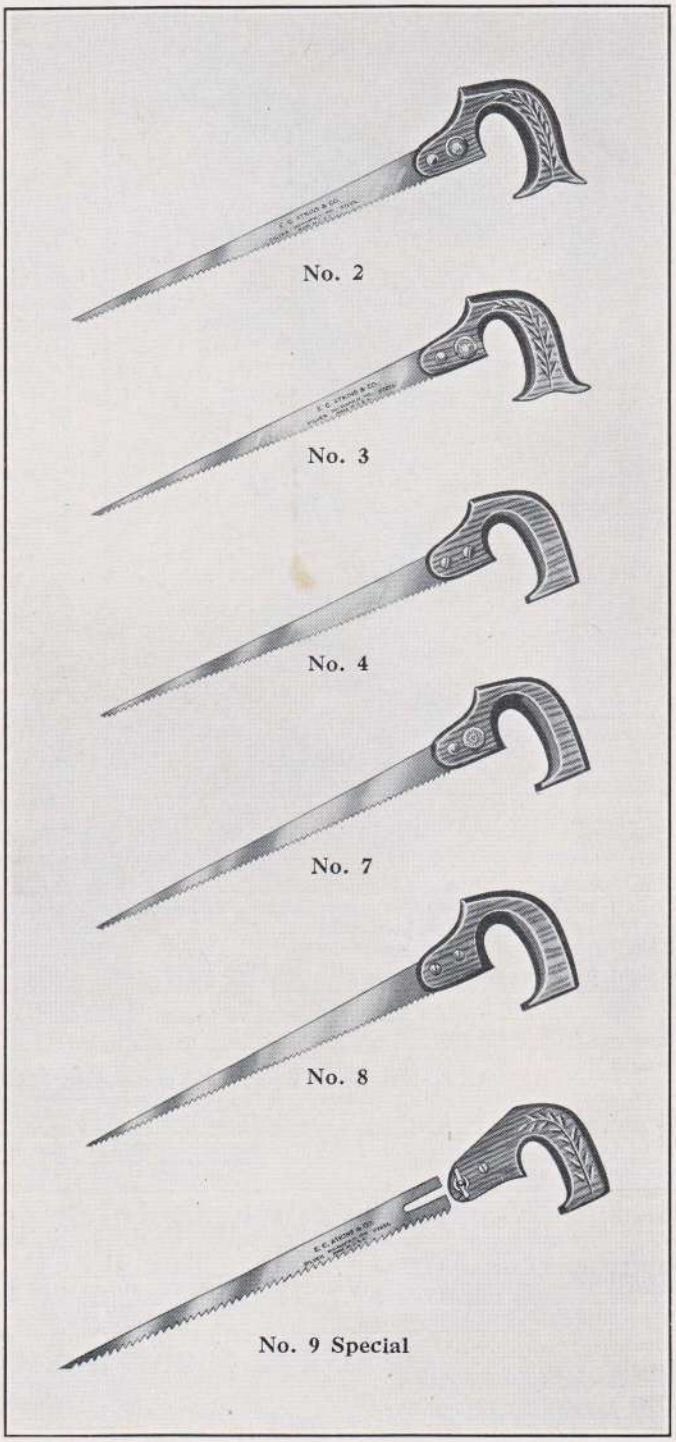
Length Inches	Per Dozen Pounds
10	5¼
12	6
14	6½
16	7
18	7¼

All the above put up half dozen in a box.

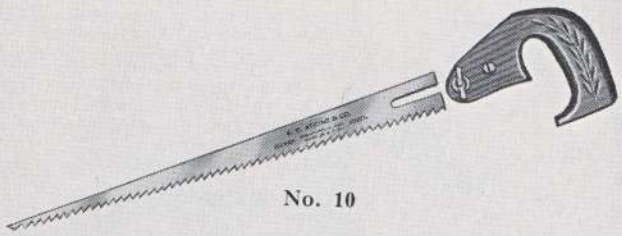
No. 9 SPECIAL SILVER STEEL

Length Inches	Saw Complete	Blades Only
10	$10.40	$6.35
12	10.85	6.30
14	11.30	7.25
16	11.75	7.70
18	12.20	8.15

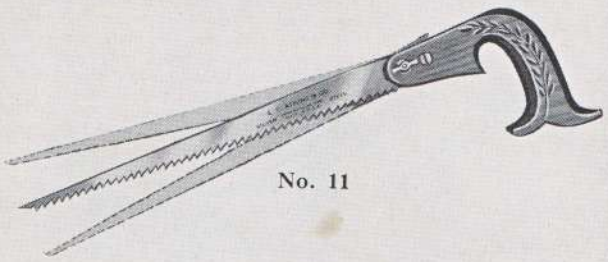
Carved and varnished interchangeable beech handle, attached with nickeled wing nut and screw. Hole punched in blade for screw, not shown in illustration, to eliminate detachable feature if desired.



ATKINS COMPASS AND KEYHOLE SAWS



No. 10



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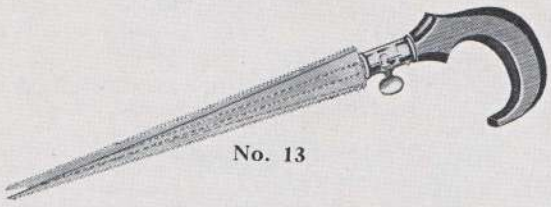
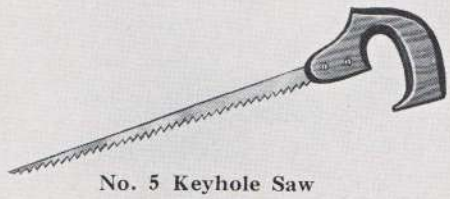
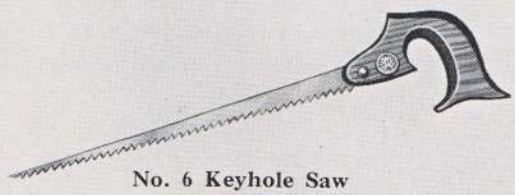


No. 13



No. 5 Keyhole Saw



No. 6 Keyhole Saw

No. 10 INTERCHANGEABLE

Carved beech handle, varnished and polished, wing nut and nickeled screw. 8 points per inch. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	$9.00	$5.30
12	9.35	5.55
14	9.70	5.90
16	10.05	6.35
18	10.50	6.90

No. 11 ADJUSTABLE

Apple handle, carved, varnished and polished, wing nut and nickeled screw. 8 points per inch. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	$10.50	$5.30
12	11.40	5.55
14	12.10	5.90
16	13.00	6.35
18	13.85	6.90

Weights Nos. 10 and 11

Length In.	Per Doz. Lbs.	Length In.	Per Doz. Lbs.
10	6	16	7¾
12	6½	18	8¼
14	7	20	8¾

ATKINS No. 13—THE "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. 8 points per inch. Weights same as Nos. 10 and 11. Price, per dozen:

Length Inches	Saws Complete	Blades Only
10	$10.75	$5.30
12	11.05	5.55
14	11.55	5.90
16	12.00	6.35

KEYHOLE SAWS

No. 5

Sheffield Steel. Beech handle, varnished edges, two wood screws. Teeth set and filed. Made in 10 and 12-inch lengths. Weight, per dozen: 10 inch, 4 pounds; 12 inch, 4½ pounds. 10 points per inch.
Price.....per dozen $5.70

No. 6

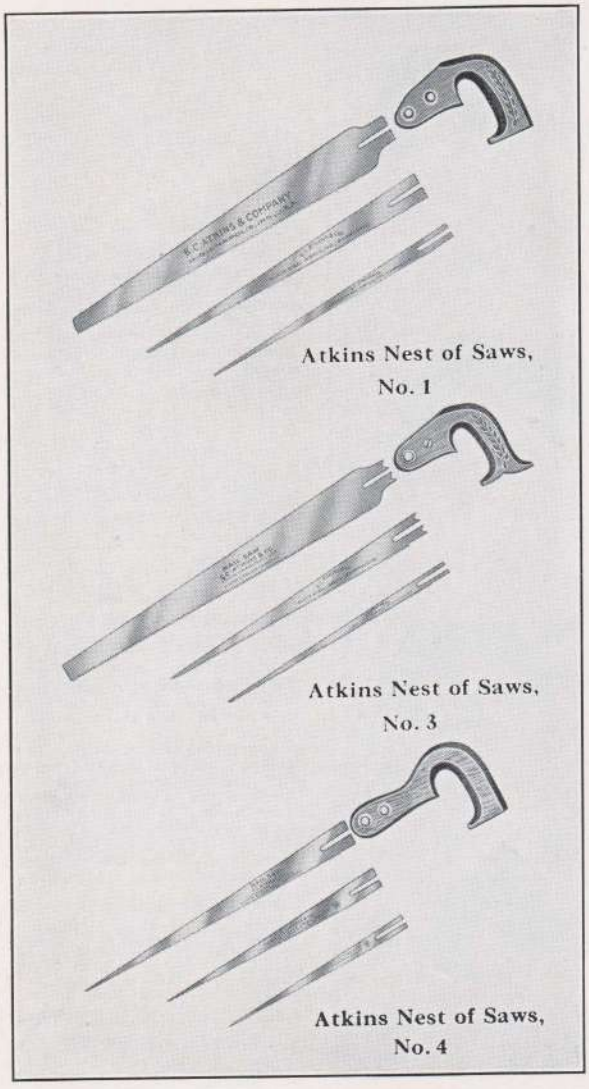
Silver Steel. Apple handle, varnished and polished edges. Saw, Screw and Medallion. Made in 10 and 12-inch lengths. Weight, per dozen: 10 inch, 4½ pounds: 12 inch, 5 pounds. 10 points per inch.
Price.....per dozen $6.30

No. 12

Same as No. 5 except that teeth are set but not filed. 10 points per inch.
Price.....per dozen $4.15

All the above saws are put up one-half dozen in a box.

ATKINS SILVER STEEL NESTS OF SAWS



Atkins Nest of Saws, No. 1

Atkins Nest of Saws, No. 3

Atkins Nest of Saws, No. 4

No carpenter's kit is complete without a nest of saws. They virtually give the advantage of three saws within the space and weight of one.

We have carefully studied the requirements of the best mechanics and show herewith three of the most useful assortments. Handles fastened to blades with wing nuts.

ATKINS No. 1 NEST OF SAWS

We recommend this set for general purposes; made of Silver Steel. It consists of a keyhole, compass and pruning saw blade and adjustable handle as shown.

ATKINS No. 2 NEST OF SAWS

This combination comprises 2 sizes of compass saws and a keyhole blade, made of Silver Steel, in connection with the removable handle.

ATKINS No. 3 NEST OF SAWS

This set has been in great demand wherever shown. It includes a handle, which is detachable and adjustable at three different angles, a compass and a keyhole blade and a Metal Cutting Blade, made of Silver Steel, all of which are interchangeable. The nail cutting blade is tempered exceedingly hard for cutting nails, pipe or conduit; in fact, any kind of metal. It is Taper Ground from the toothed edge to the back, so that it clears itself readily.

No. 3 nest is equipped with an adjustable handle of the latest Improved Pattern, with a tightening adjustment consisting of a heavily nickel-plated screw, which may be operated from either side of the handle by reversing the screw, permitting the blade to be used at any desired angle.

Packed one-quarter dozen in handsome box attractively labelled.

ATKINS PLUMBERS' NEST OF SAWS, No. 4

There is a great demand for a set of saws for use among plumbers, electricians and other similar trades or by the regular carpenter, that can be used in cases where metal obstructions, such as nails, screws, piping, etc., preclude the use of regular wood saws. The No. 4 Nest has been provided to take care of this demand.

The Nest consists of one 16-inch Compass Saw Blade; one 10-inch Keyhole Saw Blade and a 14-inch Nail or Metal Cutting Blade, made of Silver Steel, and an Adjustable Handle.

The handle is fitted with a wing nut and screw for removing or tightening blades in place. Varnished on edge only.

Nail cutting blade has milled teeth. 12 points. Very light set, not filed.

ATKINS No. 5 NEST OF SAWS

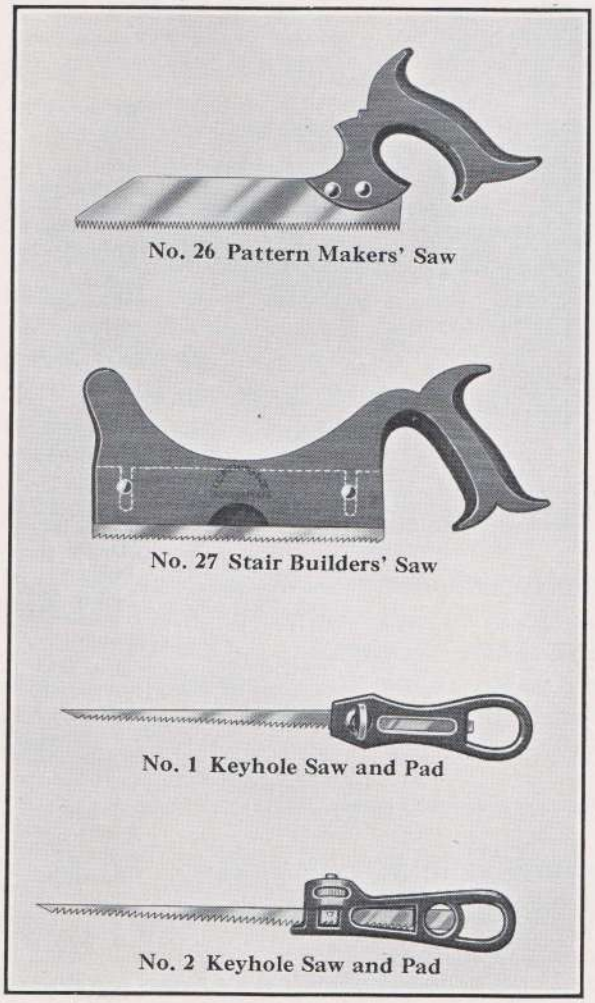
This set of saws consists of an interchangeable handle, a 14-inch compass saw and blade and a 10-inch keyhole blade, made of Silver Steel.

Price, per Dozen

Description	No. 1	No. 2	No. 3	No. 4	No. 5
Handles and screws	$3.80	$3.80	$4.75	$3.80	$3.80
Length—					
Keyhole blades, 10 in	.....	5.30	.....	5.30	5.30
Keyhole blades, 12 in	5.55	.....	5.55	.....	.....
Compass blades, 12 in	.....	5.55	.....	.....	.....
Compass blades, 14 in	5.90	.....	5.90	.....	5.90
Nail or metal blade, 14 in	.....	.....	.....	7.40	.....
Compass blades, 16 in	.....	6.35	.....	6.35	.....
Pruning blades, 18 in	11.65	.....	.....	.....	.....
Special nail cutting blades, 18 in	.....	.....	23.20	.....	.....
Total for nests	$26.65	$20.75	$39.20	$22.85	$15.00
Weight, per dozen sets, pounds	11¾	10	14	12	8

ATKINS SPECIAL SAWS

SILVER STEEL



No. 26 Pattern Makers' Saw

No. 27 Stair Builders' Saw

No. 1 Keyhole Saw and Pad

No. 2 Keyhole Saw and Pad

ATKINS No. 26 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.

Price.....per dozen	$13.00
Weight, per dozen.....pounds	4¾

ATKINS No. 27 STAIR BUILDERS' SAW

Beech handle, varnished and polished edges. Length 6, 8 and 10 inches. Width of blade, 1¾ inches. Adjustable to different depths. 10 points to the inch.

Length....inches	6	8	10
Price..per dozen	$12.65	14.30	16.00
Weight, per doz. .....pounds	4½	4¾	5¼

ATKINS KEYHOLE SAW AND PAD

No. 1

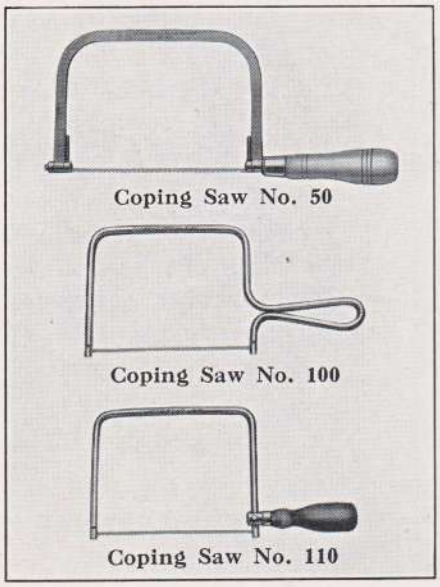
Handle, Grey Iron Casting, Japanned, Adjustable thumb screw, Silver Steel blade. Packed one dozen in box.

No. 2

Handle, Grey Iron Casting, Japanned, nicely finished, Knurled Brass adjusting screw, Silver Steel blade. Packed one dozen in box.

No. 1		No. 2	
Keyhole saws.....per dozen	$3.25	Keyhole saws.....per dozen	$3.25
Handles.....per dozen	1.70	Handles.....per dozen	2.65
Complete.....per dozen	4.95	Complete.....per dozen	5.90
Weight, per dozen.....pounds	2½	Weight, per dozen.....pounds	2½

ATKINS COPING SAWS



Coping Saw No. 50

Coping Saw No. 100

Coping Saw No. 110

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. Packed two in a box.

Price, complete, with blade	per dozen	$9.90
Price, blades only	per dozen	.50
Weight, per dozen	pounds	7

COPING SAW, No. 100

Frame of wire rod heavily nickel-plated, polished and buffed. 6-inch bent end blades. Depth from blade to back, 4 inches. Packed six in a box.

Price, complete with one doz. extra blades	per doz.	$4.20
Price, extra blades	per gross	2.20
Weight, per dozen	pounds	$4\frac{3}{8}$

No. 101, not illustrated. Same as No. 100, except 8 inch under back ..... per dozen $5.10
Weight, per dozen ..... pounds $8\frac{5}{8}$

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. Packed six in a box.

Price, complete with one dozen extra blades	per dozen	$5.50
Price, extra blades	per gross	2.20
Weight, per dozen	pounds	4

No. 111, not illustrated. Same as No. 110, except 8 inch under back ..... per dozen $6.35
Weight, per dozen ..... pounds $5\frac{3}{8}$

ATKINS SPECIAL BLADES FOR COPING SAW FRAMES, No. 500

$\frac{1}{4}$ inch wide, .014 inch thick, 32 teeth per inch.

5-inch	per dozen	$0.70
6-inch	per dozen	.75

By using these blades a large variety of metal work can be done with our Coping Saw Frames. Furnished either straight or loop ends.

Atkins Handy Tool

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.

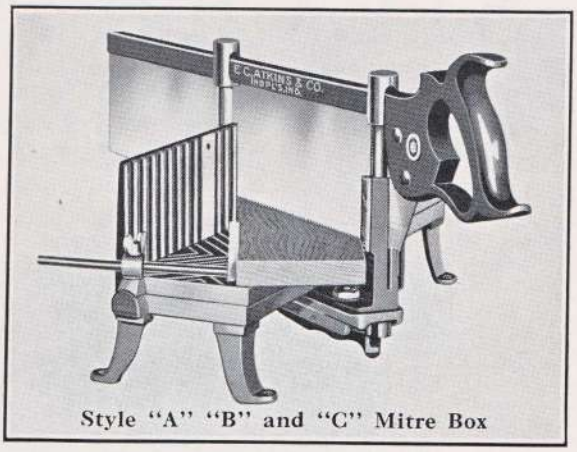
Price, handles	per dozen	$0.90
Price, keyhole saws	per dozen	2.10
Price, putty knives	per dozen	1.95
Price, chisels	per dozen	1.35
Price, screw drivers and tack claws,	per dozen	1.35
Price, tools, complete set		7.60

Price for one set Handy Tools, 65 cents. If sent by mail, 8 cents additional.

MARSH AYER MITRE BOXES

CAST IRON

STYLES A, B AND C



Style "A" "B" and "C" Mitre Box

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 1/8 inch on plates to give a sawdust clearance under work and prevent it from slipping.

The length gauges have a capacity up to 18 inches and the stock gauges on the back are swiveled, and swing behind box when not in use.

The degree scale is milled directly onto the frame and is clear and easily read. The saw guides have slotted pins to hold saw elevated while work is being adjusted.

The lock for fastening lever at any point is operated by the finger latch.

The cast iron parts are finished in dull nickel and the steel parts brightly polished.

These Mitre Boxes are preferred by master carpenters and wood-workers on account of their high quality and workmanship. They are indispensable in vocational and manual training schools and are now in use in the foremost schools in the United States and Canada.

ATKINS MITRE SAWS

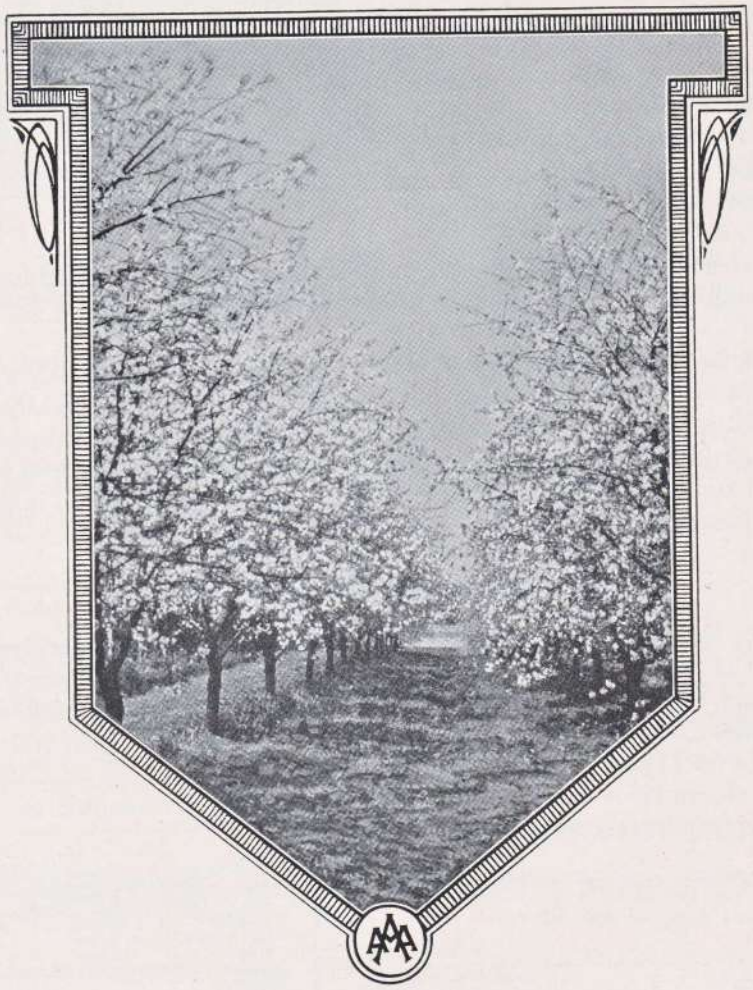
Each saw that is supplied with the Mitre Box is made from Silver Steel, which assures you of their quality. The handle is made of applewood, varnished and polished edges, fastened to the blade with two nickeled screws and medallion.

Atkins Mitre Saws in 16 inch to 18 inch lengths are toothed 12 points to the inch; 20 inch and over 11 points to the inch.

The list shown below includes a saw of a length and size adapted to the Mitre Boxes of the styles as shown above.

Size	Saw	Capacity at Right Angles Inches	Capacity at Miter Inches	List Price Each with Saw
A24 Cast Iron	24 x 4	10¼	7	$21.80
A26 Cast Iron	26 x 4	10¼	7	22.65
A28 Cast Iron	28 x 4	10¼	7	23.60
B26 Cast Iron	26 x 5	10¼	7	24.15
B28 Cast Iron	28 x 5	10¼	7	25.00
B30 Cast Iron	30 x 5	10¼	7	25.85
C30 Cast Iron	30 x 6	10¼	7	30.00

ATKINS SILVER STEEL PRUNING SAWS



PRUNING PAYS!

It has not been many years since the well-pruned orchard was an exception. Winter revealed the condition—row after row of tall, toppy trees running to wood and not to fruit. Summer brought foliage on a mass of fine entangling limbs choking out air and needed sunlight. Today, in newer orchards, at least, things are changed. Trees are pruned to symmetrical proportions, not for looks, but for profit.

Periodical thinning-out and sensible heading-back have worked what to the old-school man would have seemed wonders, for this is the man who used to say that pruning was "*too much trouble*" and "*not worth the time it took!*"

Today, lack of proper pruning is the mark of a shiftless orchardist, careless of his stock and insensible to the interests of his pocketbook.

For experience has *proved* that *pruning pays!* It returns big dividends in three ways:

FIRST: *Through quicker bearing.*
SECOND: *Through fuller bearing.*
THIRD: *Through a longer fruit-bearing life.*

Don't get the idea that successful pruning is wrapped up in "deep" science or Black Magic. It is not. Common sense plus a season's experience will equip any man to prune his orchard with good results.

WHAT MAKES A GOOD PRUNING SAW?

Success in pruning can be greatly aided by giving the workman the right tools, without which even the best and most experienced man is handicapped.

Pruning a tree is not like sawing a log. In the latter case, a slip of the saw matters little, whereas a mishap in pruning may open up a large wound difficult indeed to heal up.

Therefore, adaptability-to-purpose is an important point in selecting a pruning saw. The proper shape, so as to be available for use in cramped places, and the correct balance, so as to make the saw easy to handle—both of these are important considerations.

Atkins AAA Silver Steel Saws illustrated on the following pages are among the most popular of our pruning saws. Nos. 7, 10, 11 and 15 are made with adjustable blades which can be placed at any desired angle in the frame, thus enabling the worker to saw close to the limbs, which is a very important point in careful pruning.

Numbers 13, 18 and 20, illustrated on page 234, are also popular styles, while Nos. 1 and 17, illustrated on page 233, are always old "stand-bys" and forever popular.

Numbers 4 and 44, shown on page 234, are simply modified forms of the hand saw and are found very useful in quickly taking off large and awkward limbs which the small pruning saws will not handle.

In addition to the saw equipment, a small pruning shears and perhaps a dehorning shear with about a three-foot handle are also desirable. It must be remembered, however, that the saw, especially those such as Nos. 7, 9, 10, 11 and 15, are much less apt to injure the tree than the careless clipping of the ordinary shear, which accounts for the fact that you will find many experts using the saw in preference to the clipper, especially in work where care is needful.

ATKINS PRUNING SAWS

ATKINS No. 44

The blade is similar to No. 4. Made of high-grade special steel, tempered stiff, tough and hard, but not brittle. The handle is made of pressed steel, attached to the blade by four rivets. It has a wooden grip, fastened with four wood screws. Practically unbreakable. Extra large, easy grip. Plenty of room for use with gloves in cold weather. 7 to 10 points to the inch. (See page 234.)

No. 4

The blade is heavy-gauge and is of Atkins High-Grade Special Steel, tempered very tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade with three brass screws and a medallion. 7 to 10 points to the inch. (See page 234.)

No. 12 PARAGON

This blade is made of Atkins Silver Steel with a hard, stiff temper. The concave edge is toothed for fine cutting and the opposite edge for coarse, heavy work. It tapers from 2½ inches at the handle to 1 inch at the point. The handle is of thoroughly seasoned hardwood, finely finished, varnished on the edges and fastened to the blade with three saw screws. 8 points on outside curve. 6 points on inside curve. (See page 234.)

No. 13 CALIFORNIA

The blade is of Atkins Silver Steel. The handle is of highly finished applewood, edges varnished and polished; fastened to the blade with three brass screws. 8 points to the inch. Peg tooth with needle point. (See page 234.)

ATKINS No. 15

Length of frame over all, 17 inches. Depth at point from blade to back, ¾ inch. Depth at butt, 4 inches. Width of frame, ⅝ inch; thickness, $\frac{3}{16}$ inch. Polished.

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. 8 points to the inch. (See page 235.)

ATKINS No. 16

This Pruner consists of a strong casting, hollowed and bored for slipping on to a pole of any desired length, so that it may be operated to reach high limbs from the ground, avoiding the use of ladders. There is a hook on the casting for use in dislodging cut limbs or removing them, should they obstruct the cutting. Peg tooth with needle point. 8 points to the inch. (See page 233.)

ATKINS No. 17

The Blade is of Silver Steel and is 26 inches long, 1¼ inches wide at point, 3¼ inches at butt. Being narrow, the blade cannot bind, and the wider butt adds stiffness. Three points to the inch gives large teeth that cut large or small limbs readily. Teeth are filed and set. The handle is of fine beech, varnished edges, extra large grip for use with gloves, if desired. Fastened to blade with three brass screws. (See page 233.)

No. 18 PRUNER

This is similar to No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of slipping in pocket. Made of Silver Steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Fleam filed. Plain sanded handle. Made of beech. Nickel screw. Peg tooth with needle point. 8 points to the inch. (See page 234.)

No. 20 CALIFORNIA

Similar to the No. 13, excepting that the blade is made of Atkins High-Grade Special Steel. The handle is of thoroughly seasoned hardwood, nicely finished and fastened to the blade with three steel rivets. Peg tooth with needle point. 8 points to the inch. (See page 234.)

No. 7 TAPERED

The frame is made of very fine crucible steel, ¾ inch wide, $\frac{3}{16}$ inch thick. The blade is of high quality special steel, blued, 8 points to the inch. Blade may be adjusted any angle to the back. Handle constructed to permit mounting on a pole, enabling the user to operate from the ground. 8 points to the inch. (See page 235.)

No. 9 TAPERED

It is ½ inch wide, $\frac{5}{16}$ inch thick, and accommodates a 20-inch blade. It is 1½ inches deep from blade to back on the point and 5 inches at the butt.

This blade is ¾ inch wide, finished bright and is made of Atkins High-Grade Special Steel. The handle has an extra large grip making it comfortable where a glove is used by the operator. Fastened to frame with two nickeled screws. 8 points to the inch. (See page 235.)

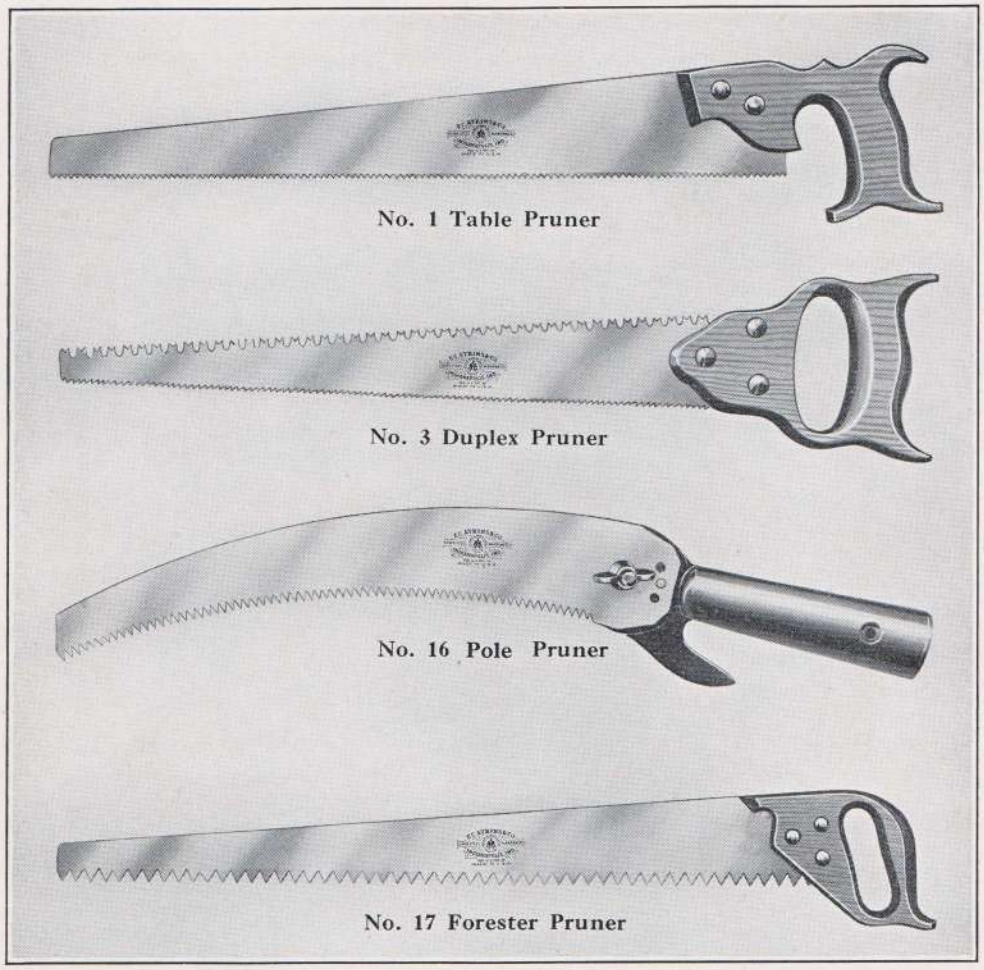
No. 10 TAPERED

The frame is made of extra high quality spring steel, ⅝ inch wide and ¼ inch thick. The blade is of our finest pruning saw steel, blued, 8 points to the inch. The handle is made of beech, thoroughly seasoned, highly finished and polished on the edges, fastened to the frame with two brass screws. Blade adjustable, will cut at any angle. 8 points to the inch. (See page 235.)

No. 11 TAPERED

Frame is of high-grade crucible steel, ¾ inch wide, $\frac{3}{16}$ 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 with three brass screws. 8 points to the inch. (See page 235.)

ATKINS PRUNING SAWS



No. 1 TABLE PRUNER

The blade is made of Atkins Silver Steel and, therefore, has unusual edge holding qualities. In 20-inch length, the blade is 2⅝ inches at the handle and 1 inch at the point. Handle of fine hardwood, thoroughly seasoned. Varnished edge and fastened to blade with two brass screws. 8 points to the inch.

No. 3 DUPLEX PRUNER

Made of Atkins Silver Steel, specially hardened and tempered. Will require very little refiling. Toothed on one edge with tuttle shaped tooth for extra heavy coarse work and with fine tooth on the opposite edge for fine cutting. The handle is of thoroughly seasoned, air-dried applewood, finely finished, varnished edge, Easy Grip Pattern, fastened to the blade with three brass screws. 8 points to the inch on one side; tuttle tooth on other side. **No. 2 is same pattern as No. 3 except Sheffield quality.** Nos. 1, 2 and 3 saws packed one-third dozen in box.

Length.....inches	12	14	16	18	20	22	24	26
Price, No. 1.....per dozen	$18.85	$19.30	$20.30	$21.60	$23.60	$25.50	$27.35	$29.35
Price, No. 2.....per dozen	12.55	13.25	13.80	14.80	15.80	17.20	.....	.....
Price, No. 3.....per dozen	19.50	20.40	21.50	22.80	24.75	26.45	.....	.....
Price, No. 16.....per dozen	26.90	.....	.....	.....	.....	.....	.....	.....
Price, No. 17.....per dozen	.....	.....	.....	.....	.....	.....	.....	24.00
Weight, No. 1, per dozen.....pounds	7½	8½	9	10¼	11	11¾	12¼	13
Weight, No. 2, per dozen.....pounds	7	8	9	10	11½	13	14½	.....
Weight, No. 3, per dozen.....pounds	7½	8	9	10	11	12	.....	.....
Weight, No. 16, per dozen.....pounds	.....	.....	12	.....	.....	.....	.....	.....
Weight, No. 17, per dozen.....pounds	.....	.....	.....	.....	.....	.....	.....	12

ATKINS No. 16 "AAA" POLE TREE PRUNER

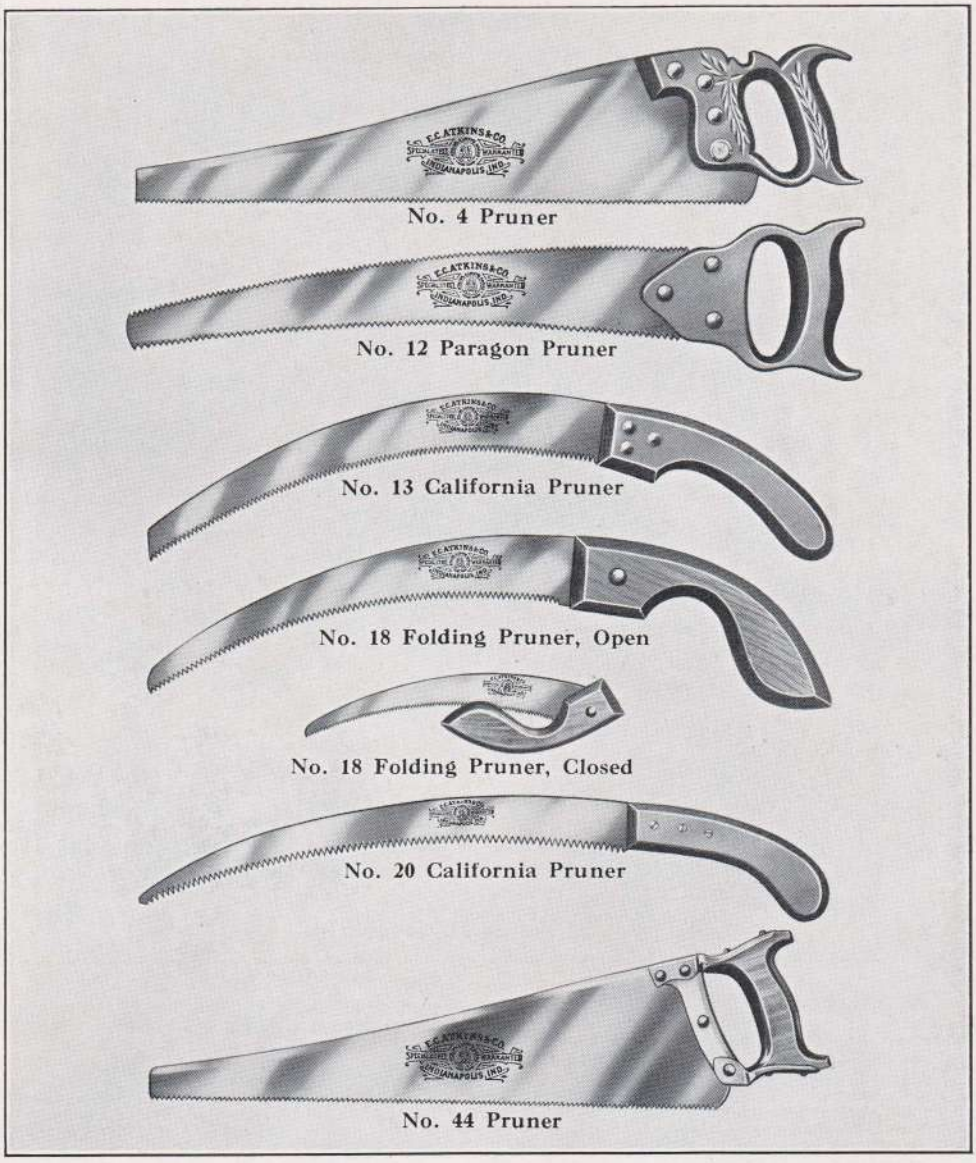
A 16-inch curved blade with peg teeth, fastened to the casting by use of a 5-16 bolt and wing nut. Three holes in butt end of blade work in a peg, so that the blade may be changed to cut at any angle. Blade of Silver Steel.

Packed one-third dozen in a carton.

ATKINS FORESTER PRUNING SAW No. 17

A splendidly constructed Pruning Saw that sells on sight, because it appeals to the good judgment of buyer and user. Packed one-half dozen in a box.

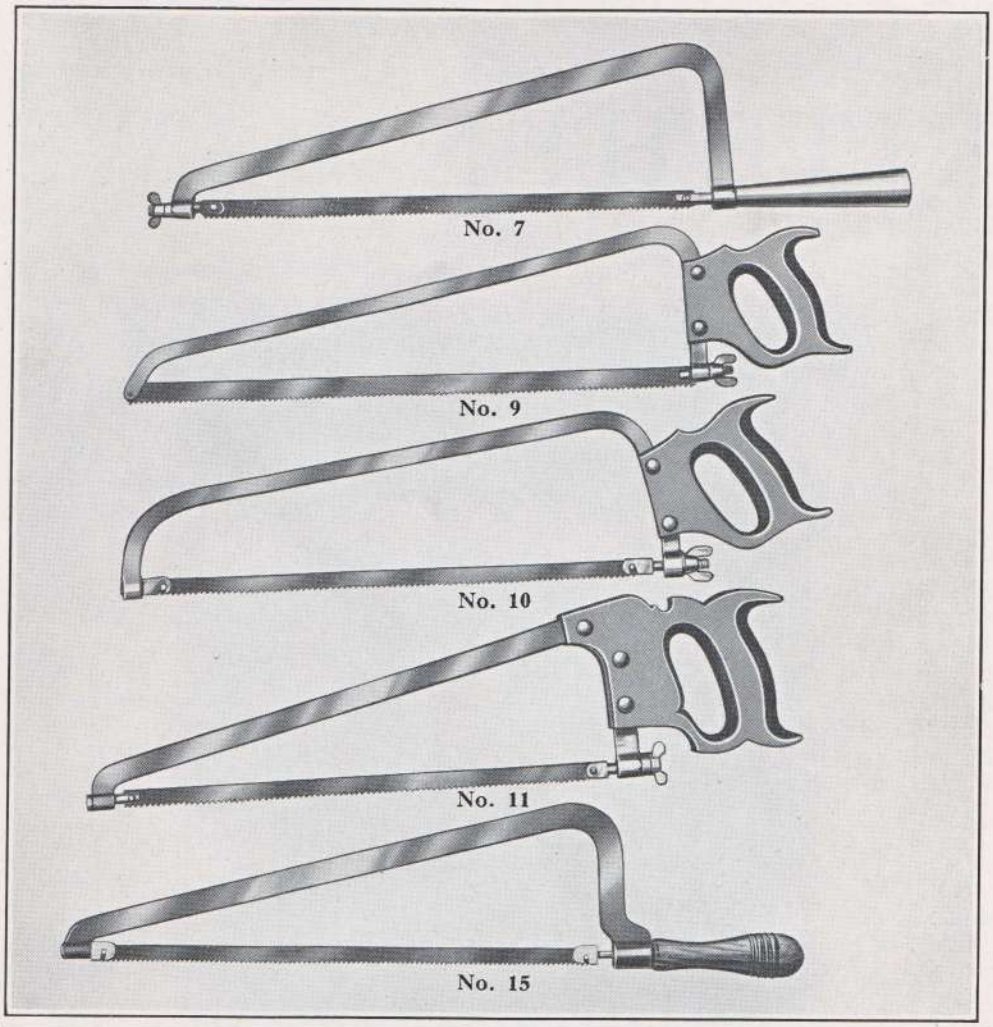
ATKINS PRUNING SAWS



Length ..... inches	12	14	16	18	20	22
Price, No. 44 ..... per dozen	.....	.....	.....	$20.20	$20.75	.....
Price, No. 4 ..... per dozen	.....	.....	.....	.....	22.05	.....
Price, No. 12 ..... per dozen	$21.85	$23.05	$24.50	26.05	27.35	$28.80
Price, No. 13 ..... per dozen	13.55	14.55	.....	.....	.....	.....
Price, No. 18 ..... per dozen	14.20	15.80	.....	.....	.....	.....
Price, No. 20 ..... per dozen	13.55	14.55	.....	.....	.....	.....
Weight, No. 44, per dozen ..... pounds	.....	.....	.....	14	16	.....
Weight, No. 4, per dozen ..... pounds	.....	.....	.....	.....	15	.....
Weight, No. 12, per dozen ..... pounds	8½	10¼	10½	12	12¼	12½
Weight, No. 13, per dozen ..... pounds	8	8½	.....	.....	.....	.....
Weight, No. 18, per dozen ..... pounds	6½	7	.....	.....	.....	.....
Weight, No. 20, per dozen ..... pounds	5	5¾	.....	.....	.....	.....

Nos. 12 and 13 saws packed one-third dozen in box. Nos. 4, 18, 44 and 20 saws packed one-half dozen in box.

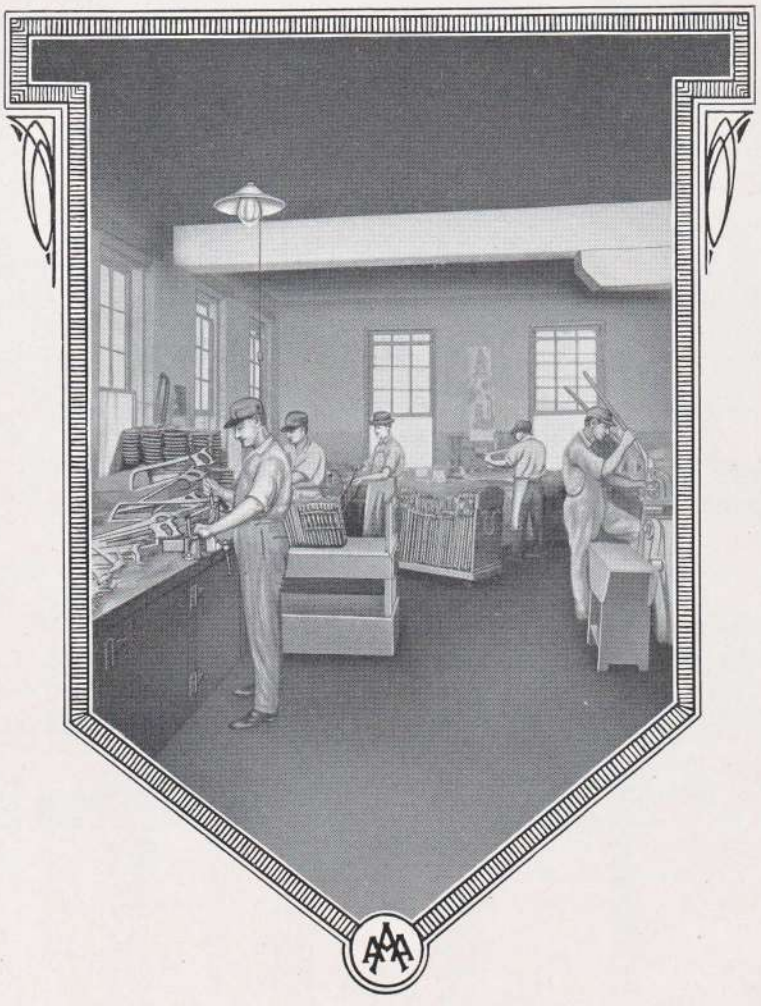
ATKINS PRUNING SAWS



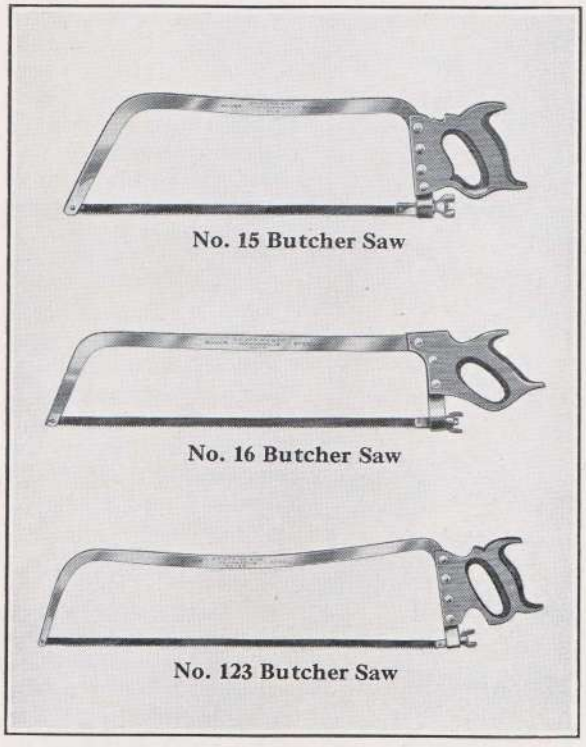
Number	Length of Frame Inches	Length of Blade Inches	Weight per Dozen Pounds	List Price Complete per Dozen	List Price Extra Blades per Dozen
7	16	14¼	20	$26.90	$3.45
7	18	16¼	21½	28.60	4.00
7	20	18¼	23¼	30.25	4.60
7	22	20¼	25½	31.85	5.30
9	20	19½	21½	26.90	5.30
10	14	11½	19½	27.35	2.80
10	16	13½	21¼	29.10	3.45
10	18	15½	22½	32.25	4.00
10	20	17½	24	35.65	4.60
11	16	14¼	18½	24.00	3.45
11	18	16¼	20	25.50	4.00
11	20	18¼	21½	26.90	4.60
11	22	20¼	22½	28.15	5.30
15	17	14	12	30.45	3.45

Nos. 7 and 15 saws packed one-sixth dozen in box. Nos. 9, 10 and 11 saws packed one-third dozen in box.
Blade measurements are from center to center of holes.

ATKINS BUTCHER
and
KITCHEN SAWS



ATKINS BUTCHER SAWS



No. 15 Butcher Saw

No. 16 Butcher Saw

No. 123 Butcher Saw

ATKINS No. 15

Frame of Special Spring Steel, in lengths of 16 inches to 20 inches; the dimensions are 7/8 inch wide and 1/4 inch thick, in lengths of 22 inches to 28 inches, 1 inch wide and 1/4 inch thick. Blade of blued Silver Steel. 1/2 inch wide and 13 points to the inch. Blade detachable, easily adjusted. Varnished hardwood handle fastened to blade with four nickel-plated screws.

ATKINS No. 16

Blade may be instantly removed by turning thumb screw. A most convenient adjustment. Frame 1 inch by 1/4 inch, made of Spring Steel. Very rigid. Hardwood handle, not varnished, fastened to frame by three nickeled screws. 3/4 inch pinned blades of Silver Steel, 11 points to the inch. Nicely finished throughout.

ATKINS No. 123 BUTCHER SAW

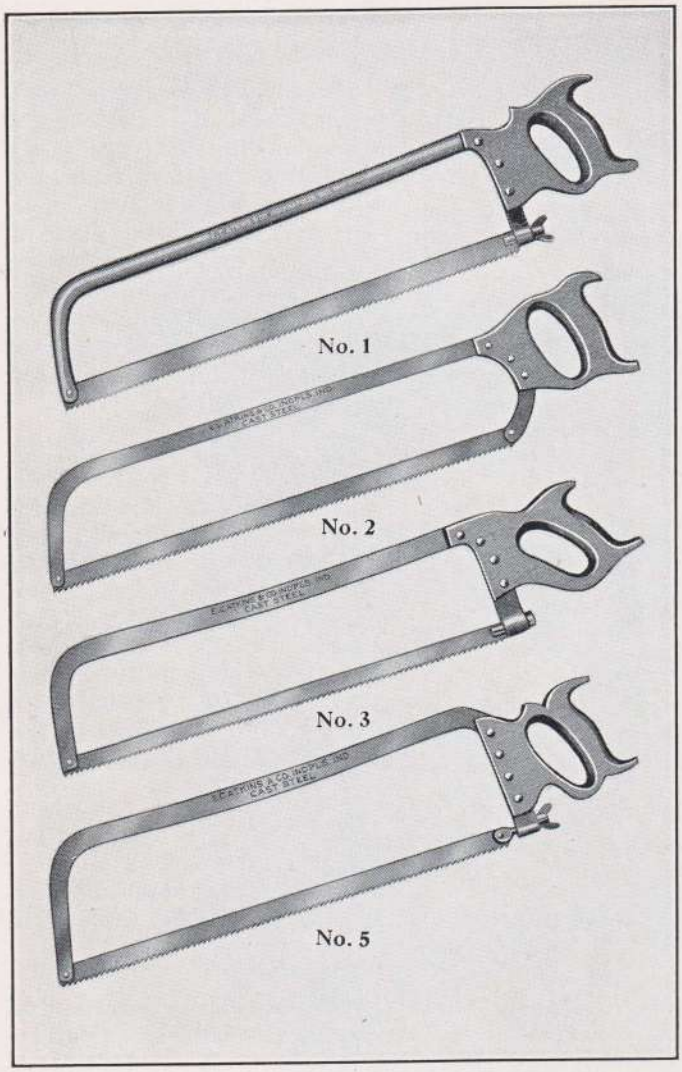
Frame of Special Spring Steel, 7/8 inch wide and 1/4 inch thick. Blade of Silver Steel, blued, 1/2 inch wide. It will receive a very sharp cutting edge and will hold it for a remarkable length of time. 13 points to inch.

The handle is made of thoroughly seasoned beech with a varnished edge and is our easy grip pattern. It is fastened to the frame by four nickel-plated screws which make a very strong and rigid finish.

Length.....inches	14	16	18	20	22	24	26	28	30
Price, No. 15.....per dozen	.....	.....	.....	.....	$38.65	$40.10	$43.60	$45.00	.....
Price, No. 16.....per dozen	$23.95	$25.50	$27.25	$29.00	30.65	32.45	34.20	35.90	$37.65
Price, No. 123.....per dozen	.....	.....	.....	.....	44.65	46.65	48.65	.....	.....
Weight, No. 15, per doz., pounds	.....	.....	.....	.....	31 1/4	33 1/4	35	36 1/4	.....
Weight, No. 16, per doz., pounds	24 1/4	26	27 3/4	29 1/2	31 1/4	33	34 3/4	36	.....
Weight, No. 123, per doz., pounds	.....	.....	.....	.....	31 1/2	33	34 1/2	36	.....

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, ¾x⅜ inch. Blade is of Atkins Silver Steel, finished bright. Handle is Easy Grip Pattern, made of seasoned beech, varnished edge, fastened to frame with three nickeled screws. 11 points per inch.

ATKINS No. 2

This is a flat frame, made of Atkins Special Spring Steel, ⅜ inch wide and ¼ inch thick. Blade of Atkins Special Steel, ¾ inch wide, finished bright. Beech handle, with varnished edge, fastened to frame with three blued wood screws. 11 points per inch.

ATKINS No. 3

Flat back, square edge, 1 inch wide and ¼ 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 with four nickeled screws. The tension on blade is secured by use of a hexagon nut. 11 points per inch.

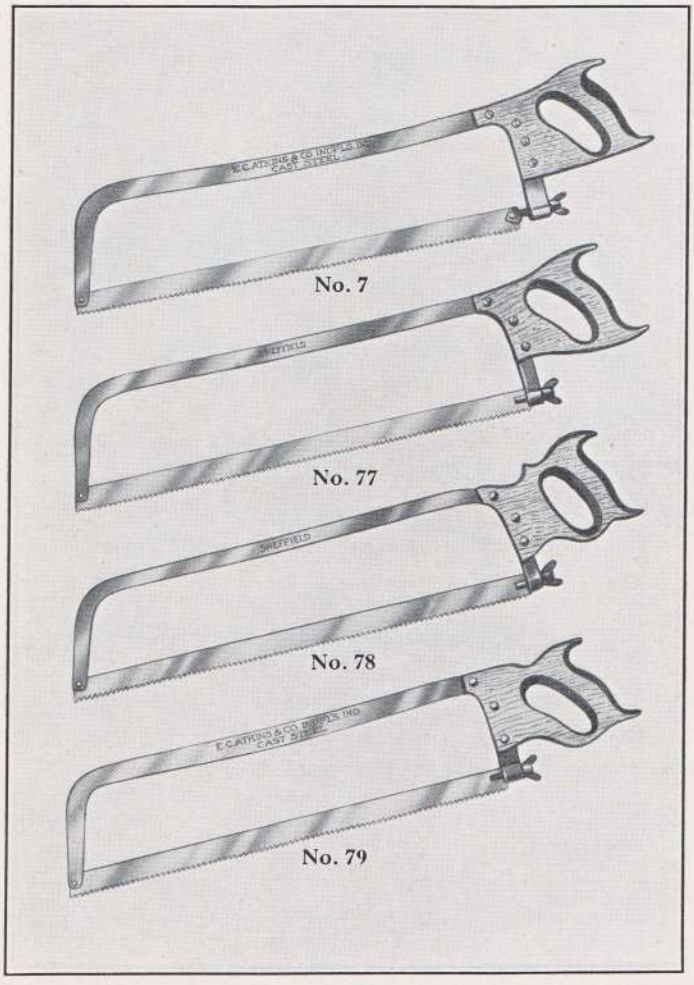
ATKINS No. 5

The frame is made of Atkins Special Spring Steel, square edge, 1 inch wide and ¼ 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 with four nickeled screws. 11 points per inch.

Length.....inches	14	16	18	20	22	24	26	28
Price, No. 1.....per dozen	$25.00	$26.20	$27.80	$29.50	$31.20	$32.85	.....	.....
Price, No. 2.....per dozen	20.45	21.70	22.95	24.30	25.55	26.80	.....	.....
Price, No. 3.....per dozen	23.95	25.50	27.25	29.00	30.65	32.55	$34.20	$35.95
Price, No. 5.....per dozen	.....	.....	35.80	37.20	38.65	40.10	43.60	.....
Weight, No. 1, per dozen.....pounds	24	25	26	27	28	29	.....	.....
Weight, No. 2, per dozen ....pounds	13½	16½	19½	22½	25½	28½	.....	.....
Weight, No. 3, per dozen.....pounds	25	27¾	30½	33¾	36¼	39	42¾	45½
Weight, No. 5, per dozen.....pounds	.....	.....	34	36	38	40	42	.....

The above saws are packed one-third dozen in a box. Blade measurements are from center to center of holes.

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, ⅝ inch wide, finished bright. Handle is thoroughly seasoned beech, varnished edges, fastened to frame with four nickeled screws.

ATKINS No. 77

Flat back frame square edge made of fine spring steel, ¾ inch wide, ¼ inch thick. The blade is Atkins Special Steel, finished either bright or blue, as specified, ¾ inch wide. Beech handle with sanded sides, varnished edges. Fastened to frame with three nickeled screws.

ATKINS No. 78

Frame is fine spring steel, flat back and square edge, ¾ inch wide and ¼ inch thick. Blade is of Atkins Special Spring Steel and blued finish, ¾ inch wide. Handle is thoroughly seasoned beech. Easy Grip Pattern, varnished edges, fastened to the frame with three nickeled screws.

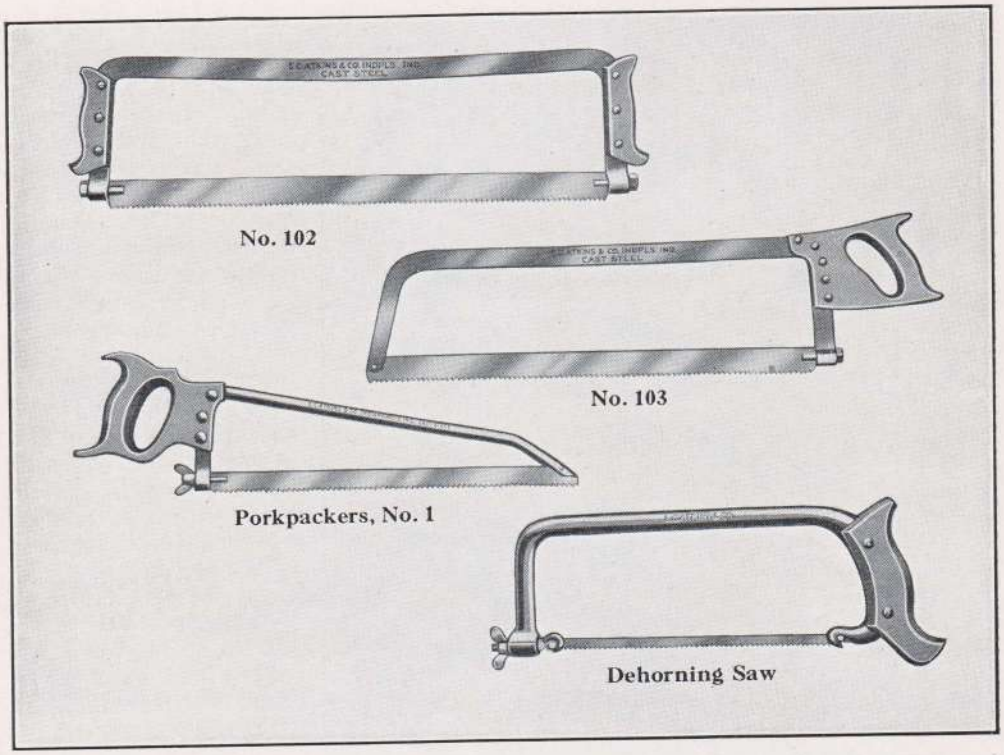
ATKINS No. 79

Fine quality spring steel, flat with square edges, frame 1 inch wide and ¼ inch thick. Blade is Atkins Silver Steel, ¾ inch wide, finished bright. Handle of beech, finely finished, Easy Grip, varnished edges, fastened to frame with three nickeled screws.

Length.....inches	14	16	18	20	22	24	26	28	30
Price, No. 7.....per dozen	$23.95	$25.50	$27.25	$29.00	$30.65	$32.45	$34.20	$35.90	.....
Price, No. 77.....per dozen	16.70	17.70	18.85	20.10	21.30	22.50	23.70	24.90	$26.00
Price, No. 78.....per dozen	18.60	19.70	20.95	22.20	23.45	24.65	26.00	27.25	28.50
Price, No. 79.....per dozen	23.95	25.50	27.25	29.00	30.65	32.45	34.20	35.90	.....
Wt., No. 7, per doz., pounds	24¼	26	27¾	29½	31¼	33	34¾	36	.....
Wt., No. 77, per doz., pounds	20¼	22½	24¾	27	29¼	31½	33¾	36	38¼
Wt., No. 78, per doz., pounds	16	20¼	21½	25¾	30	34¼	38½	42¾	47
Wt., No. 79, per doz., pounds	26¾	29¼	31¾	34¼	36¾	39½	43	45½	48

The above saws are packed one-third dozen in a box. All the above Butcher Saws have 11 points to the inch. Blade measurements are from center to center of holes.

ATKINS BUTCHER SAWS—Silver Steel



ATKINS DOUBLE END BEEF SPLITTING SAW, No. 102

Flat steel back, square edge, 1¼ x 5/16 inches. Heavy Silver Steel Blade, bright, 1¾ inches wide. 9 points to the inch. Three nickeled screws in each handle. Packed one in a box. Blade measurements are from center to center of holes.

Length ..... inches	24	26	28	30	32	34	36
Price, complete ..... each	$ 6.35	$ 6.75	$ 7.05	$ 7.80	$ 8.50	$ 8.95	$ 9.90
Price, blades only ..... per dozen	11.35	11.65	12.05	12.45	12.80	13.10	13.50
Weight, each ..... pounds	6	6½	6¾	7	7¼	7½	8½

ATKINS SINGLE HAND BEEF SPLITTING SAW, No. 103

Flat back, 1¼ x 5/16 inches, square edge. Round eye, round tension spring, hexagon nut, Silver Steel Blade, 1¼ inches wide. 9 points to the inch. Beech handle. Five nickeled screws. Packed one-sixth dozen in a box. Blade measurements are from center to center of holes.

Length ..... inches	24	26	28	30	32	34	36
Price, complete ..... per dozen	$46.40	$49.25	$50.25	$53.90	$56.50	$59.25	$61.95
Price, blades only ..... per dozen	11.35	11.65	12.05	12.45	12.80	13.10	13.50
Weight, each ..... pounds	5¼	5¼	6¼	6¾	7¼	7¾	8¼

ATKINS PORKPACKERS' SAW, No. 1

Oval steel back, 5/8 x 3/8 inch. Silver Steel, blued clock spring blade, ¾ inch wide. 11 points to the inch. Beech handles. Three nickeled screws. Packed one-third dozen in a box. Blade measurements are from center to center of holes.

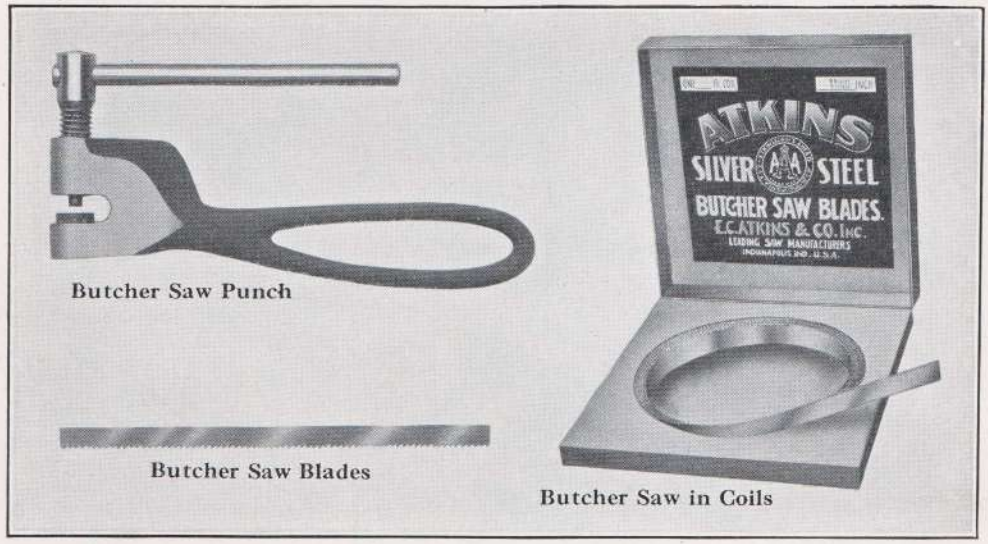
Length ..... inches	14	16	18
Price ..... per dozen	$24.80	$26.20	$27.55
Weight, per dozen ..... pounds	18½	19	22

ATKINS DEHORNING SAWS

Japanned, malleable iron frame, beech handle, complete. Blade, ¼ inch wide. 12 points to the inch. Packed six in a box.

Length ..... inches	9½
Price, complete ..... per dozen	$13.65
Blades only ..... per dozen	2.40
Weight, per dozen ..... pounds	5¾

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.

Width ..... inches	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2
Gauge	25	24	24	23	23	23	23	23	22
Number of points	14	13	11	11	11	10	10	10	9 or 10
Price ..... per foot	$0.14	$0.18	$0.20	$0.25	$0.28	$0.30	$0.34	$0.37	$0.45

ATKINS BUTCHER SAW BLADES

For convenience, we also furnish butcher saw blades cut standard lengths. These blades are of the same perfectly tempered Silver Steel as used in the coils and are finished either bright or blued, as desired. They are not punched on the end. Stock purchased in this way is punched by customer.

Packed one dozen in a box.

3/4 TO 1 1/4 INCHES WIDE, INCLUSIVE									
Length ..... inches	12	14	16	18	20	22	24	26	28
Price ..... per dozen	$5.65	$5.95	$6.35	$6.60	$7.00	$7.30	$7.60	$8.00	$8.35

1 1/2 TO 2 INCHES WIDE, INCLUSIVE											
Length ..... inches	16	18	20	22	24	26	28	30	32	34	36
Price ..... per dozen	$7.70	$8.00	$8.35	$8.65	$9.05	$9.35	$9.70	$10.00	$10.30	$10.65	$10.95

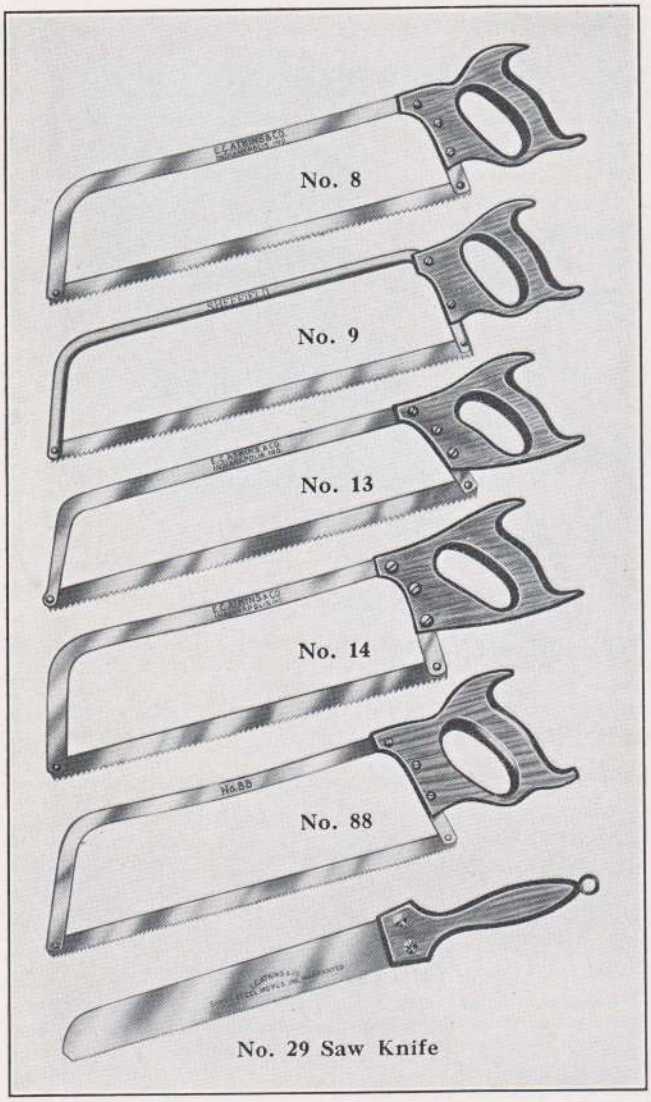
ATKINS BUTCHER SAW PUNCH

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 $13.10

ATKINS KITCHEN SAWS



No. 8 FLAT STEEL BACK

Flat back, $\frac{5}{8}$ x $\frac{3}{16}$ inch. Special steel blade, bright, $\frac{5}{8}$ inch wide. Beech handle, attached with three blued wood screws.

No. 9 OVAL STEEL BACK

SHEFFIELD SAW WORKS

Oval back, $\frac{1}{2}$ x $\frac{1}{4}$ inch. Special steel blade, bright, $\frac{5}{8}$ inch wide. Beech handle, attached with 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, attached with three nickeled wood screws.

No. 14 FLAT STEEL BACK

EXTRA HIGH GRADE

Flat back, $\frac{3}{4}$ x $\frac{1}{4}$ inch. Silver steel blade, bright, $\frac{3}{4}$ inch wide. Beech handle, attached with three nickeled wood screws.

No. 88

Atkins No. 88 Kitchen Saw, made of special steel, flat back. $\frac{1}{2}$ x $\frac{3}{16}$ inch. Supplied with a $\frac{5}{8}$-inch bright blade. Handle is attached to back with three blued screws.

Nos. 8, 9, 13, 14 and 88 packed one-half dozen in a box.

No. 29 SAW KNIFE

Blade of Silver Steel, toothed 10 points to the inch on one edge, other edge beveled for cutting. Applewood handle, varnished edges. A household necessity.

Packed one dozen in a box. Price, per dozen, $10.75. Weight, per dozen, 5 pounds.

Length ..... inches	12	14	16	18
Price, No. 8 ..... per dozen	$ 6.80	$ 7.05	$ 7.40	.....
Price, No. 9 ..... per dozen	6.55	6.90	7.15	.....
Price, No. 13 ..... per dozen	10.00	10.95	11.80	12.80
Price, No. 14 ..... per dozen	13.85	14.75	15.70	16.60
Price, No. 88 ..... per dozen	6.50	7.00	7.50	.....
Weight, No. 8, per dozen ..... pounds	11⅝	12¼	13½	.....
Weight, No. 9, per dozen ..... pounds	10	11	12	.....
Weight, No. 13, per dozen ..... pounds	12	13⅝	15	16
Weight, No. 14, per dozen ..... pounds	17½	19	20½	21¾

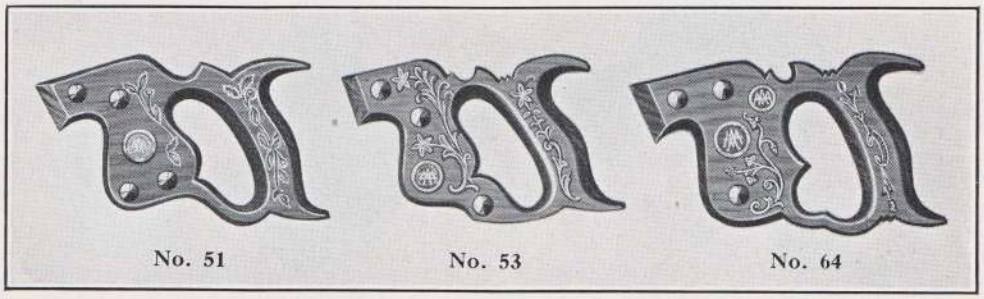
KITCHEN SAW BLADES—⅝ INCH WIDE

Length ..... inches	12	14	16	18	20	22
Price ..... per dozen	$1.75	$2.05	$2.40	$2.75	$3.00	$3.35

Above blades are set and sharpened, but not filed. They are ready for use. All have 11 points to the inch.
Blade measurements are from center to center of holes.

ATKINS HAND SAW HANDLES

PRICE DOES NOT INCLUDE SCREWS



No. 51 No. 53 No. 64

Length ..... inches	16, 18, 20	22, 24	26	28
Nos. 50, 51, apple ..... per dozen	$ 8.60	$ 9.20	$ 9.80	$10.55
No. 64, apple ..... per dozen	13.20	13.80	16.15	16.60
Nos. 52, 53, 65, 93, apple ..... per dozen	10.05	10.80	12.50	13.10
No. 54, beech ..... per dozen	5.70	5.70	6.20	6.90
No. 56, cherry ..... per dozen	7.80	8.40	9.30	10.40
Nos. 57, 60, beech ..... per dozen	3.05	3.20	3.60	4.00
No. 58, beech, varnished edges ..... per dozen	.....	.....	3.60	.....
No. 58, beech, unvarnished ..... per dozen	.....	.....	3.15	.....
No. 59, beech ..... per dozen	4.05	4.20	4.40	4.95
No. 62, beech ..... per dozen	3.05	3.20	3.55	4.00
No. 400, rosewood ..... per dozen	28.40	30.25	33.00	35.80

MITRE BOX SAW HANDLES

		18-24 in.	26-32 in.
No. 1, apple	per dozen	$9.20	$10.05

BACK SAW HANDLES

		8-12 in.	14-18 in.	20-24 in.
No. 2, apple	per dozen	$6.55	$7.05	....
No. 3, beech	per dozen	3.25	3.25	$3.25

COMPASS SAW HANDLES

No. 2, apple	per dozen	$6.20
No. 3, beech	per dozen	3.40
No. 10, Interchangeable, beech	per dozen	3.65
No. 8, beech, varnished edge	per dozen	2.50

BUTCHER SAW HANDLES

No. 1, beech	per dozen	$3.90
No. 2, beech	per dozen	3.75
No. 5, beech	per dozen	4.00
No. 7, beech	per dozen	4.00
No. 8, kitchen, beech	per dozen	3.40

PRUNING SAW HANDLES

No. 1, beech	per dozen	$3.65
No. 2, beech	per dozen	3.65

All handles furnished slotted for blade; not bored unless specified.
Screws for all handles extra. Price, per gross, see page 244. Saw handles put up one dozen in a box.

ATKINS SAW SCREWS

BRASS

PRICES

No.	Description	Diam. Inches	Weight per Gross Lbs.	Price per Gross
21	AAA medallion	1	5	$9.70
11	AAA medallion	27/32	4	8.30
10	Eagle medallion	27/32	3½	8.50
20	Eagle medallion	1	5	9.60
30	*Iron raised head	½	3¾	3.50
31	Button head	½	3	6.30
1	Oval head	½	2¾	5.30
2	Oval head	9/16	3¼	6.05

*The No. 30 is iron.

These screws are put up one dozen in small pasteboard boxes and one dozen of these boxes are packed in a large carton.

ASSORTMENTS

We also put up two assortments of screws in a most convenient and salable form, as follows:

Assortment No. 1 consists of a carton containing 36 small boxes, each box containing three No. 1 and one No. 10 brass saw screws, and is adapted for the use of carpenters who want screws for panel saws and the cheaper grade of hand saws.

Assortment No. 2 consists of a carton containing 36 small boxes, each box containing three only No. 2 and one only No. 20 brass saw screws and is adapted for high-grade hand and rip saws.

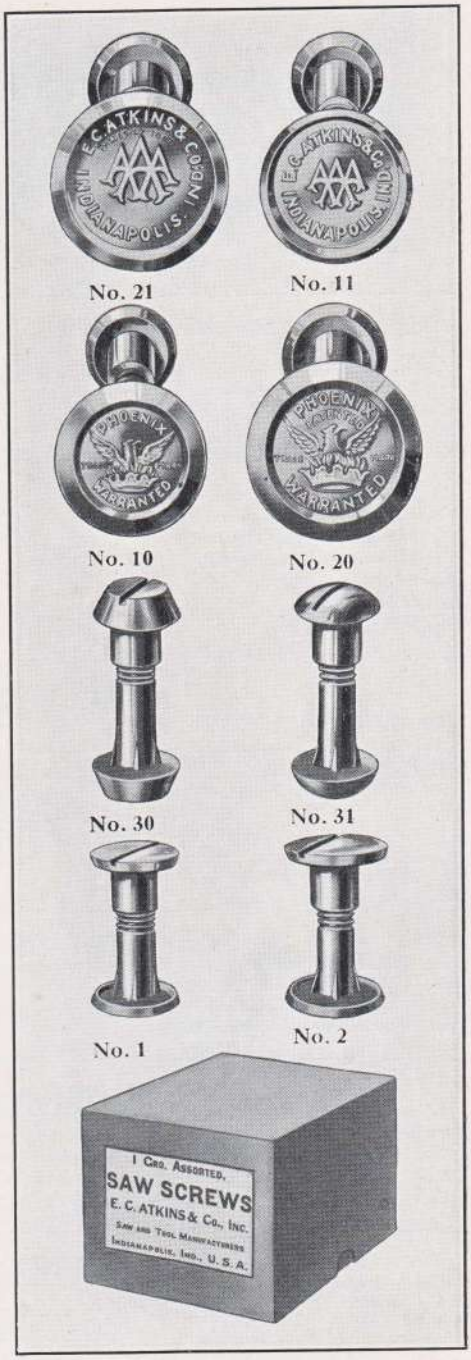
Assortment No. 3: Three No. 1, three No. 2, and one each 30, 31, 20, 10, 21, 11.

LIST PRICES

No. 1 assortment, each carton containing one gross assorted as above (36 boxes) $6.60

No. 2 assortment, each carton containing one gross assorted as above (36 boxes) 6.90

No. 3 assortment, each carton containing 12 boxes (1 dozen in box) 6.35



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.

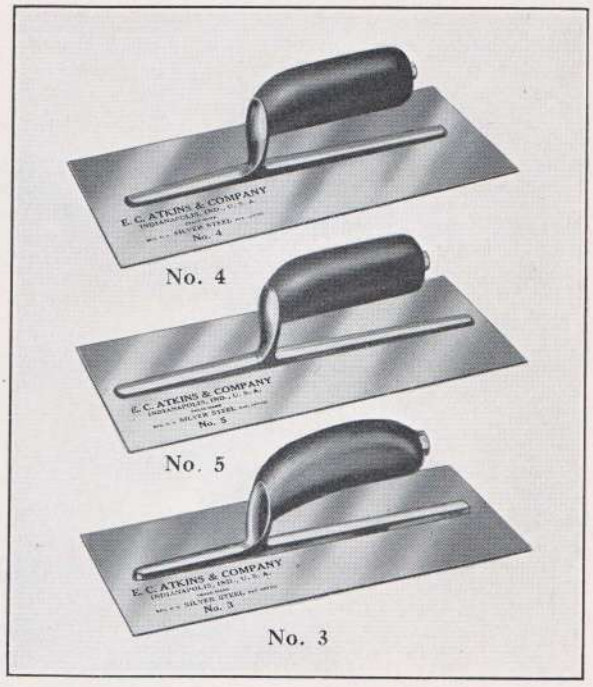
It is with pride that we offer this complete line of trowels for your selection.

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

Slightly tapered handle, natural finish. Mounting is cast steel, with 10 rivets.

Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen
10	4½	5½	$27.90	12½	5¼	7¼	$34.40
10½	4½	5¾	29.00	13	5½	7¾	37.30
11	4¾	6	30.25	14	6	8¼	40.85
11½	4¾	6¼	31.75	16	6	8¾	43.60
12	4¾–5	6¾	33.20	.....	.....	.....	.....

No. 5 SILVER STEEL BROWNING

21 GAUGE

Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen
11½	4¾	6¼	$31.75	12	4¾	6¾	$33.15
11½	5	6½	31.75	12	5	7	33.15

Same as No. 4, except heavier blade for browning.

No. 3 SILVER STEEL TROWEL

Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen	Length Inches	Width Inches	Weight per Dozen, Pounds	Price per Dozen
10	4½	5½	$28.50	12½	5¼	7¼	$35.00
10½	4½	5¾	29.60	13	5½	7¾	37.95
11	4¾	6	30.90	14	6	8¼	41.50
11½	4¾	6¼	32.40	16	6	8¾	44.25
12	4¾–5	6¾	33.80	.....	.....	.....	.....

Same as No. 4, excepting curved handle. Easy grip pattern.

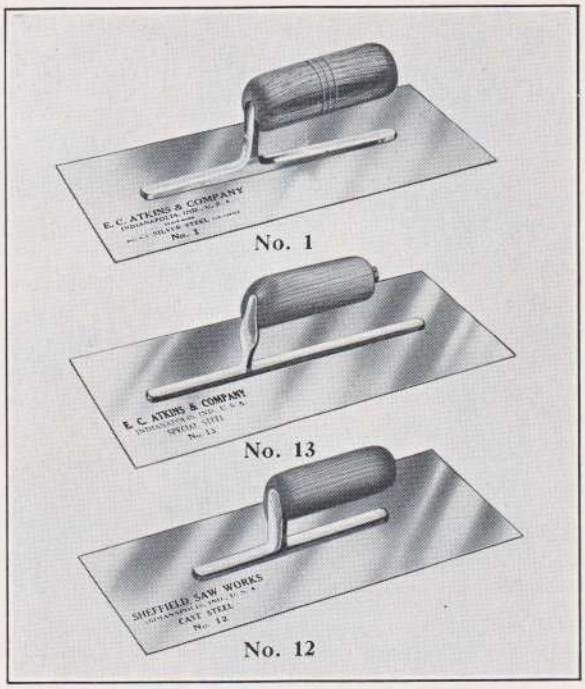
ATKINS PLASTERING TROWELS

No. 1

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	4½	6	$25.85
10½	4½	6¼	25.85
11	4¾	6½	27.95
11½	4¾	6¾	29.55
12	4¾, 5	7	31.15
12½	5¼	8	32.65
13	5½	9	34.15
14	6	10	35.70
16	6	10½	37.30

No. 13

Length Inches	Width Inches	Weight per Half Dozen Lbs.	Price per Dozen
10	4½	5¾	$18.60
10½	4½	6½	18.60
11	4¾	6¾	19.85
11½	4¾	7	21.20
12	4¾, 5	7¼	22.20
12½	5¼	7½	23.65
13	5½	8	24.80



No. 12 CAST STEEL

Length, Inches	Width, Inches	Weight per Half Dozen, Lbs.	Price, per Dozen
10	4½	6	$14.75
10½	4½	6¼	14.75
11	4¾	6½	14.75
11½	4¾	7	15.70
12	4¾, 5	7¼	16.80

All above packed one-half dozen in a box.

No. 1 SILVER STEEL FINISHING

We make these in lengths of 10, 10½, 11, 11½, 12, 12½, 13, 14 and 16 inches. Widths, 4½, 4¾, 5, 5¼, 5½, 6 and 6½ inches. Handle, straight, natural wood finish. Malleable iron mounting, attached with 5 rivets.

No. 13 SPECIAL STEEL

This blade is nicely polished and of superior construction throughout. Lengths, 10, 10½, 11, 11½, 12, 12½ and 13 inches. Widths, 4½, 4¾, 5, 5¼ and 5½ inches. Stained, tapered handle. Malleable iron mounting, attached with 7 rivets.

No. 12 SHEFFIELD SAW WORKS

Made in lengths of 10 to 12 inches. Widths, 4½ to 5 inches. Sheffield quality. Handle, straight pattern, stained yellow. Malleable castings, 3 rivets.

ATKINS CEMENT TROWELS

No. 6 EDGING

SILVER STEEL WARRANTED

A special trowel for edging cement walks.

11½ inches long, 4¾ inches wide. Weight, 11¾ pounds per dozen.

Price.....per dozen $34.40

Packed one-half dozen in a box.

No. 7 CURBING

Silver Steel Blade, 10 inches long, 5 inches wide, 5 inches deep, 1½ inches radius. Weight, 36 pounds per dozen. Packed 2 in a box.

Price.....per dozen $45.10

Other sizes made to order. Prices on application.

No. 8 RADIUS

Silver Steel Blade, 8 inches long, 2½ inches radius, ¼ round. Weight, 16½ pounds per dozen. 2 in a box.

Price.....per dozen $45.10

Other sizes made to order. Prices on application.

No. 9 GUTTERING

Silver Steel Blade, 10 inches long, 5 inches wide, 5 inches deep, 1½ inches radius.

This trowel will be furnished with either style handle.

Weight, 42 pounds per dozen. Packed 2 in a box.

Price.....per dozen $45.10

Other sizes made to order. Prices on application.

MASONS' MITRE ROD

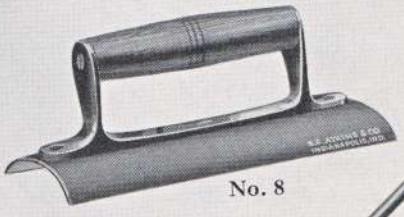
Made of Silver Steel, tempered, highly polished. One straight edge, beveled and one end cut with 45-degree angle. Furnished in lengths of 4 to 24 inches, widths of 3½ to 5 inches, gauges of 16 to 13, width of bevel ½ to ¾ inch. Prices on application.

PLASTERERS' MITRE RODS

B/P No.	Lgth. In.	Wth. In.	Gauge	Wth. Bevel In.	Thick. Bevel In.
2	4	3½	16–.065	½	1/32
3	6	3½	16–.065	½	1/32
4	8	3½	16–.065	½	1/32
5	10	3½	16–.065	⅝	1/32
6	12	3¾	15–.072	¾	1/32
7	14	4	15–.072	¾	1/32
8	16	4⅛	14–.083	¾	1/32
9	18	4¼	14–.083	¾	1/32
10	20	4⅜	13–.095	¾	1/32
11	22	4½	13–.095	¾	1/32
12	24	5	13–.095	¾	1/32

No. 6

No. 7



No. 8

No. 9

Masons' Mitre Rods

ATKINS FLOOR SCRAPERS AND SPOKE SHAVES

No. 3 PERFECTION FLOOR SCRAPER

Patented Cam Blade adjustment. Sand blasted, maple handle, varnished and polished, 12 inches over all. Blade Silver Steel, beveled edges, 3 x 3 inches.

Price.....per dozen $12.35

No. 4 RAMSHORN FLOOR SCRAPER

Scraper Block, white maple, varnished and polished, malleable face clamp, 12 inches over all. Blade, Silver Steel, beveled edges, 3 x 3 inches.

Price.....per dozen $18.20

No. 5 FLOOR SCRAPER

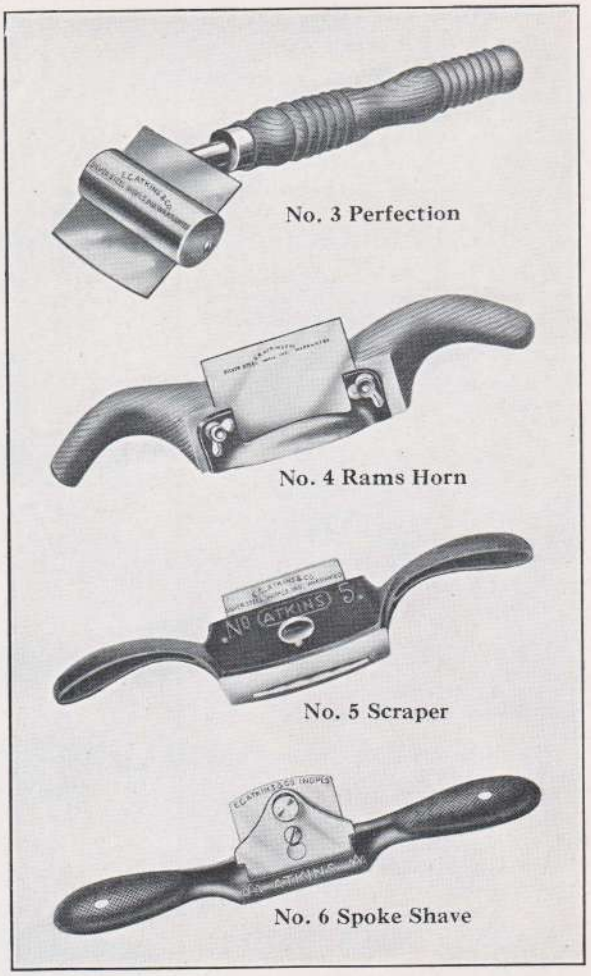
Made of finest malleable, Japan finish, 11 inches over all. Blade, Silver Steel, beveled edges, 2¾ x 2½ inches.

Price.....per dozen $19.00

No. 6 SPOKE SHAVE

Made of finest malleable. Hand holds 1 inch wide, rounded and knurled. Other parts crucible steel, Japan finish, 11 inches over all. Blade, Silver Steel, beveled edges, 2 1/16 x 1¾ inches.

Price.....per dozen $5.75



CABINET SCRAPER BLADES ILLUSTRATED ON PAGE 249

Size	Price			Size	Price			Size	Price		
	0	1	2		0	1	2		0	1	2
4 x 2	$3.35	$1.30	$1.00	5 x 2	$4.35	$1.60	$1.25	6 x 2	$5.00	$1.90	$1.50
4 x 2½	4.20	1.60	1.25	5 x 2½	4.70	2.00	1.60	6 x 2½	5.40	2.40	1.90
4 x 3	4.60	1.90	1.50	5 x 3	5.10	2.40	1.90	6 x 3	5.70	2.90	2.25
4 x 3½	5.25	2.25	1.75	5 x 3½	5.80	2.80	2.20	6 x 3½	6.70	3.40	2.65
4 x 4	6.15	2.60	2.00	5 x 4	7.10	3.20	2.50	6 x 4	7.70	3.80	3.00
.....	.....	.....	.....	5 x 4½	7.65	3.60	2.80	6 x 4½	8.55	4.30	3.40
.....	.....	.....	.....	.....	.....	.....	.....	6 x 5	9.40	4.75	3.75

No. 0 Silver Steel Cabinet Scraper Blades made in 18, 19 or 20 gauge with finished edges. Packed in individual glassine sacks to prevent scratching. No. 1 Special Steel sheared edges made 20 gauge only. No. 2 Common quality sheared edges made 19 gauge only. No. 0 Silver Steel Cabinet Scraper Blades, 19 gauge furnished unless otherwise specified.

Assortments furnished as follows, packed one dozen in a box:

Number of pieces	1	2	2	2	2	2	2
Length.....inches	5	5	5	6	6	6	6
Width.....inches	2½	3	3½	2½	3	3½	4

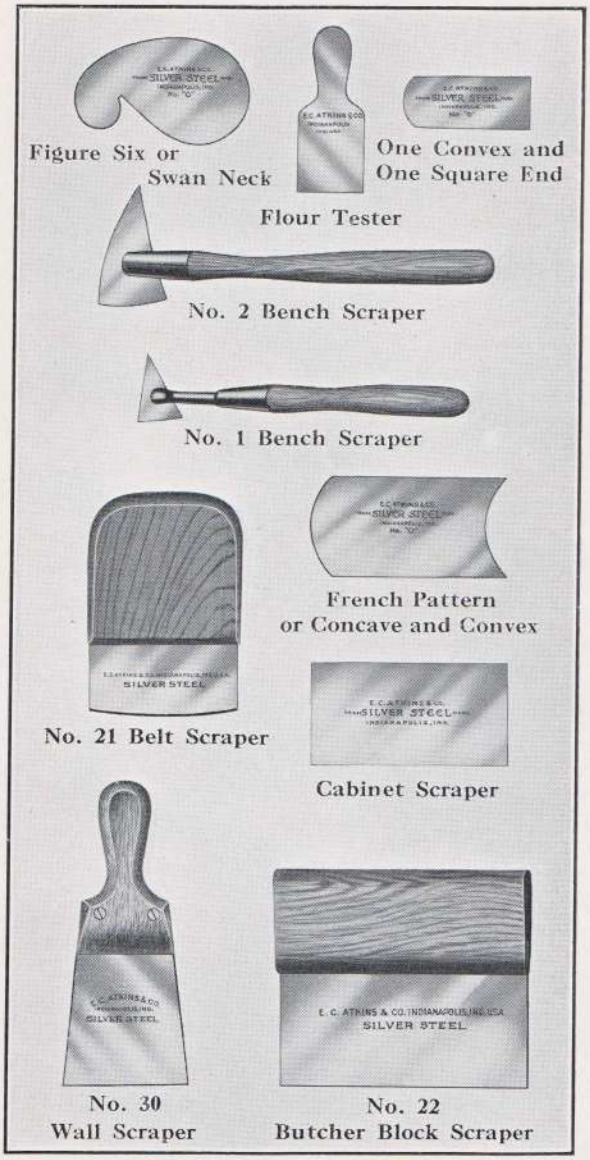
No. 0, price, for assortment.....per dozen $6.70
No. 1, price, for assortment.....per dozen 3.35
No. 2, price, for assortment.....per dozen 1.70

SPECIAL SCRAPER BLADES

Perfection ..... 3 x 3 in., 16 gauge per dozen $4.60
Ramshorn ..... 3 x 3 in., 19 gauge per dozen 4.00
Floor, No. 5 ... 2¾ x 2½ in., 16 gauge per dozen 3.10
Spoke Shave, No. 6, 2 1/16 x1¾ in., 17 gauge per dozen 2.00
No. 12, 12½-S, 2⅞ x 5⅛ in., 17 gauge..per dozen $4.85
No. 80-S,..... 2½ x 2¾ in., 18 gauge..per dozen 2.50
No. 81-S,..... 2½ x 4 in., 18 gauge..per dozen 3.50
No. 83-S,.....2½ x 3⅞ in., 19 gauge..per dozen 3.50

Special Scraper Blades furnished in No. 0 Silver Steel quality only. Beveled edges, not turned. All Scraper Blades packed one dozen in a box.

ATKINS SCRAPERS



No. 1 BENCH SCRAPER

14 inches over all. Socket 6½ inches long, threaded for ⅜-inch square nut. Handle finely finished beech, shaped, 1½ inches in diameter, 7½ inches long. Flat blade, of 14 gauge tempered steel, beveled on three edges. 3¾ inches from point to point. Packed one-half dozen in box. Weight, 1 pound.
Price.....per dozen $11.10
Price, extra blades...per dozen 4.45

No. 2 BENCH SCRAPER

16½ inches over all. Socket 3¾ inches long. Threaded for ⅜-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.....per dozen $11.10
Price, extra blades...per dozen 5.55

One Convex and One Square End

1½ x 4 inches.....per dozen $5.50

Made only in No. 0 Silver Steel Quality Hand Finished Edges. Packed 12 to a box. Weight, per dozen, ½ pound.

FRENCH PATTERN

Made only in No. 0 Silver Steel Quality Hand Finished Edges.
2½x5 in., 18, 19 or 20 gauge..doz. $5.70
3 x5 in., 18, 19 or 20 gauge..doz. 6.90
2½x6 in., 18, 19 or 20 gauge..doz. 6.90
3 x6 in., 18, 19 or 20 gauge..doz. 8.55
Packed 12 to a box. Weight, per dozen, 3 x 6 in. size, 2¼ pounds.

FIGURE 6 OR SWAN NECK

Made only in No. 0 Silver Steel Quality Hand Finished Edges.
3 x 5 inches, 20 gauge..per dozen $5.20
Packed 12 to a box. Weight, per dozen, 3 x 5 in. size, 1⅞ pounds.

No. 30 WALL SCRAPER

3¾ inches over all. Blade 5 inches by 4 inches, 5 inches by 3½ inches. Fastened to handle by two wood screws. Handle of finely finished hardwood, varnished. Packed one-half dozen in box. Weight, per dozen, 3½ in. size, 4½ pounds.
Price, 3½ in.....dozen $6.30
Price, 4 in.....dozen 6.65
Price, 3½ in., blades only.....dozen 2.50
Price, 4 in., blades only.....dozen 2.85

No. 22 BUTCHER BLOCK SCRAPER

Size over all, 6 x 5¼ inches. Blade, 6 x 2½ inches. Hardwood handle. Packed one-half dozen in a box. Weight, per dozen, pounds, 6. Price.....per dozen $3.50

No. 21 BELT SCRAPER

Made of Silver Steel. Quality handle selected, seasoned hardwood, finely finished. Blade 3 inches long by 4 inches wide, 16 gauge. Beveled edge. Convex. Polished. Packed one-half dozen in a box. Weight, 6¾ pounds, per dozen.
Price.....per dozen $9.60
Extra for turning edges.....per dozen 2.45
For special shaped handles, prices on application.

FLOUR TESTER

A finely finished practical tool for testing the quality of flour. Made of fine steel. Highly polished. Made and stocked in three sizes. Size over all, No. 1, 6 x 2⅛ inches; No. 2, 6¾ x 2½ inches; No. 3, 7½ x 2⅝ inches. Extra charge for all other sizes. Prices on application.

ATKINS CORN KNIVES

No. 1 SILVER STEEL

Length of blade, 15½ inches. Width at end, 2⅞ inches. Length over all, 22 inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen $7.95
Weight, per dozen...pounds 11

No. 2 SPECIAL STEEL

Length of blade, 15½ inches. Width at end, 2⅞ inches. Length over all, 22 inches. Blade black. White unvarnished handle. Number of rivets, 3.

Price.....per dozen $6.95
Weight, per dozen...pounds 12

No. 3 SILVER STEEL

Length of blade, 17½ inches. Width at end, 1½ inches. Length over all, 23 inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen $7.30
Weight, per dozen...pounds 9

No. 4 SILVER STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, polished bright. Varnished handle. Number of rivets, 3.

Price.....per dozen $7.95
Weight, per dozen...pounds 12

No. 6 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade polished. Hardwood handle, natural finish. Number of rivets, 3.

Price.....per dozen $7.25
Weight, per dozen...pounds 12

No. 7 SPECIAL STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, black Self-colored. Varnished handle. Number of rivets, 3.

Price.....per dozen $6.95
Weight, per dozen...pounds 13

No. 9 SILVER STEEL

Length of blade, 17¾ inches. Width at end, 1½ inches. Length over all, 24 inches. Blade, polished bright. Hardwood handle, natural finish. Number of rivets, 5.

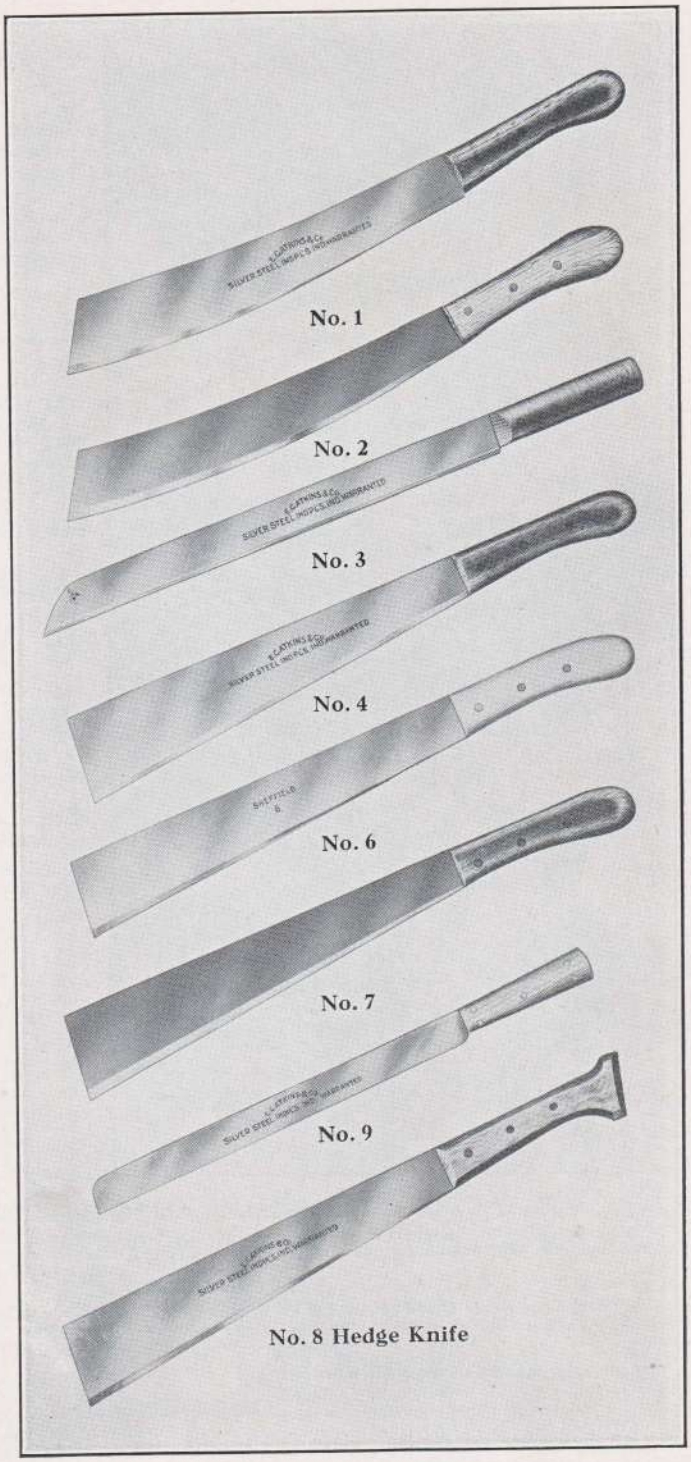
Price.....per dozen $9.20
Weight, per dozen...pounds 12

No. 8 HEDGE KNIFE
SILVER STEEL

Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Blade, polished bright. Handle, natural finish. Number of rivets, 3.

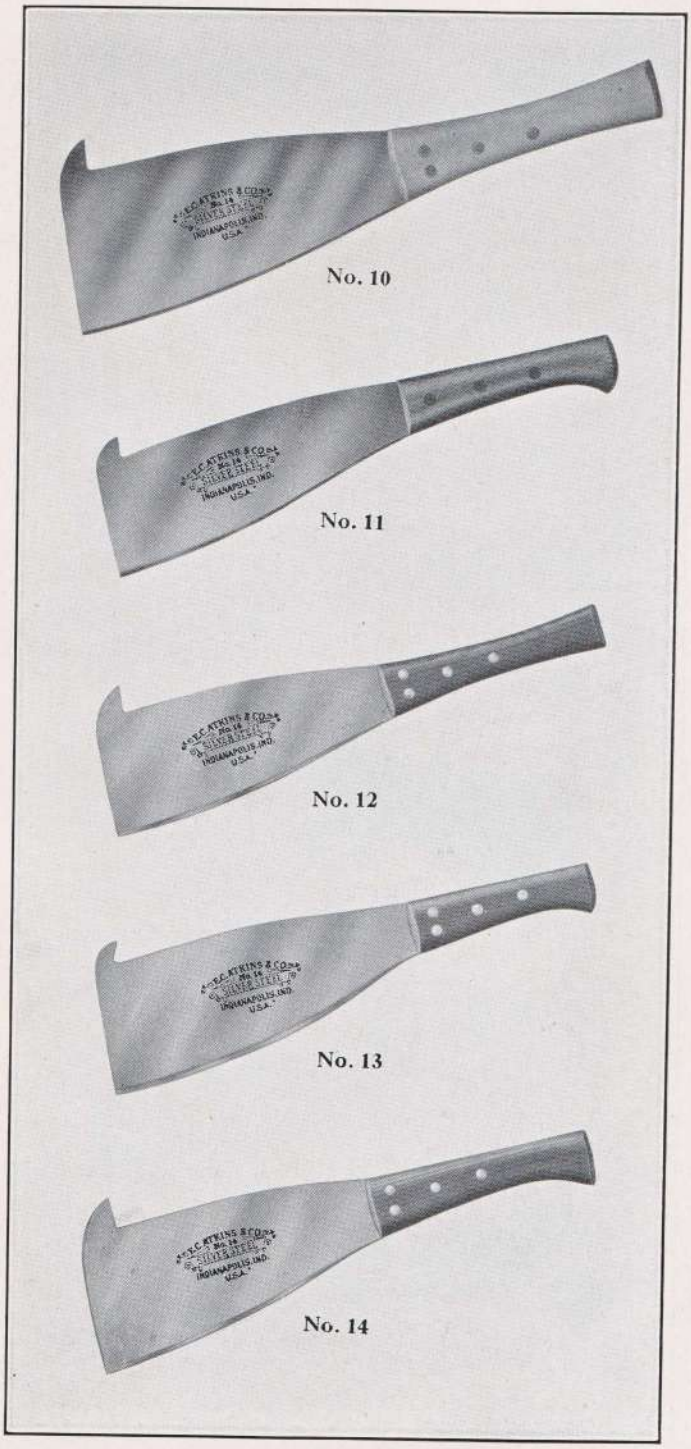
Price.....per dozen $8.80
Weight, per dozen...pounds 12

All above (excepting Nos. 3 and 9) are packed one-half dozen in package. Nos. 3 and 9, one-half dozen in pasteboard box.



ATKINS CANE KNIVES

SILVER STEEL



No. 10 CANE KNIFE

Length of blade, 11½ inches. Width at end, 6 inches. Width at handle, 2½ inches. Length over all, 20¼ inches. Number of rivets, 4. Weight, unpacked, per dozen, 13 pounds. 19 gauge.

Price.....per dozen $11.75

Furnished with either straight or curved hook.

No. 11 CANE KNIFE

Length of blade, 10¾ inches. Width at end, 4½ inches. Width at handle, 1¾ inches. Length over all, 17¾ inches. Beech handle. Number of rivets, 3. Weight, per dozen, 9 pounds. 19 gauge.

Price.....per dozen $11.75

Furnished with either straight or curved hook.

No. 12 CANE KNIFE

Length of blade, 11½ inches. Width at end, 5¼ inches. Width at handle, 2½ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 12 pounds. 19 gauge.

Price.....per dozen $11.75

No. 13 CANE KNIFE

Length of blade, 12¾ inches. Width at end, 5⅞ inches. Width at handle, 2¼ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds. 17 gauge.

Price.....per dozen $13.90

No. 14 CANE KNIFE

Length of blade, 11¾ inches. Width at end, 6⅜ inches. Width at handle, 2½ inches. Length over all, 20¼ inches. Hardwood handle. Number of rivets, 4. Weight, per dozen, 13 pounds. 18 gauge.

Price.....per dozen $13.90

Above packed one dozen in box.

ATKINS CANE KNIVES

SILVER STEEL

No. 15 CANE KNIFE

Length of blade, 14¼ inches. Width at end, 4¼ inches. Width at handle, 2⅞ inches. Length over all, 21⅜ inches. Hardwood handle. Number of rivets, 5. 17 gauge.

Price.....per dozen $13.90
Weight, per doz...pounds 20

If wanted 16 or 17 gauge deduct 50 cents from list. If wanted 18 or 19 gauge, deduct $1.00 from list.

No. 16 CANE KNIFE

Length of blade, 14¼ inches. Width at end 6 inches. Width at handle, 2¼ inches. Length over all, 21½ inches. Hardwood handle. Number of rivets, 4. 15 gauge.

Price.....per dozen $13.90
Weight, per doz...pounds 18

No. 17 CANE KNIFE

Length of blade, 14¼ inches. Width at end, 6 inches. Width at handle, 2¼ inches. Length over all, 21½ inches. Hardwood handle. Number of rivets, 4. 15 gauge.

Price.....per dozen $13.90
Weight, per doz...pounds 18

No. 18 CANE KNIFE

Length of blade, 11½ inches. Width at end, 5¼ inches. Width at handle, 2½ inches. Length over all, 20 inches. Hardwood handle. Number of rivets, 4. 19 gauge. No polish.

Price.....per dozen $10.40
Weight, per doz...pounds 14

No. 19 CANE KNIFE

Length of blade, 13¼ inches. Width at end, 6 inches. Width at handle, 2¼ inches. Length over all, 20¼ inches. Hardwood handle. Number of rivets, 4. 17 gauge.

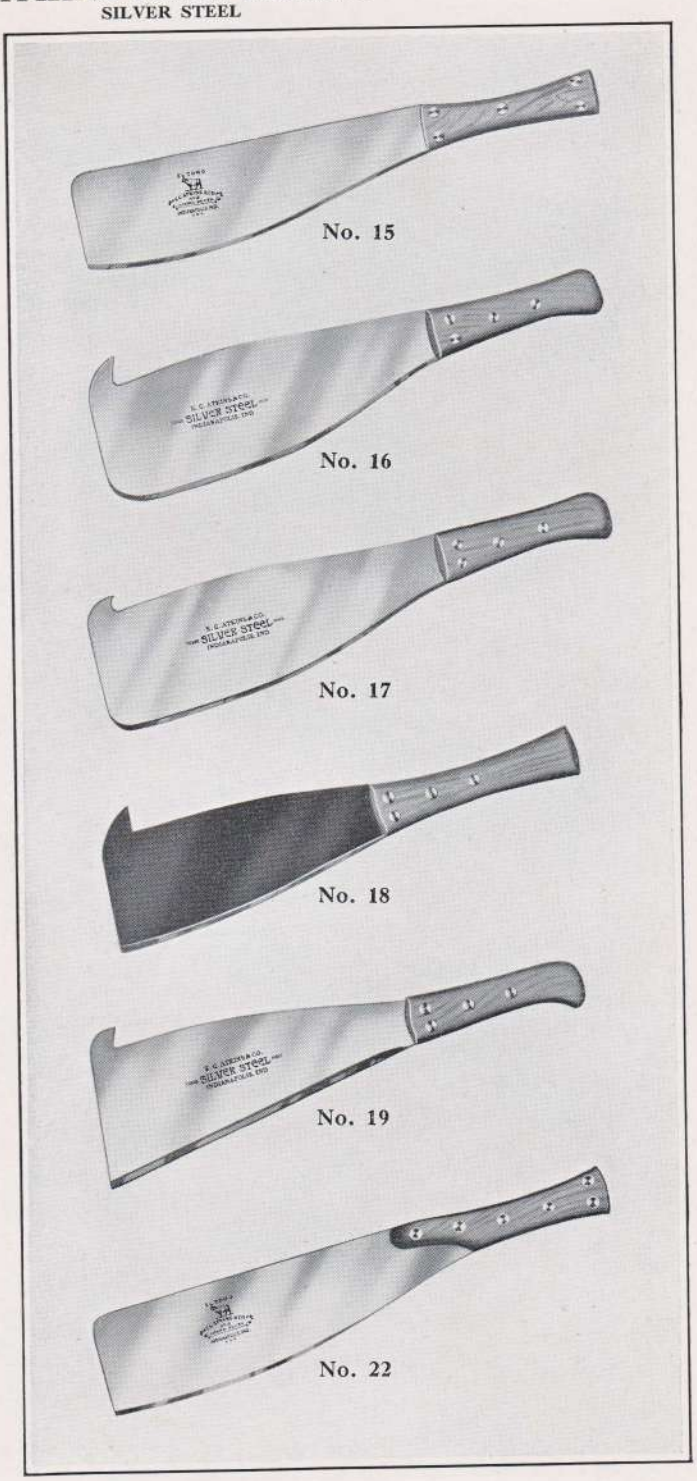
Price.....per dozen $13.90
Weight, per doz...pounds 17

Above packed one dozen in box.

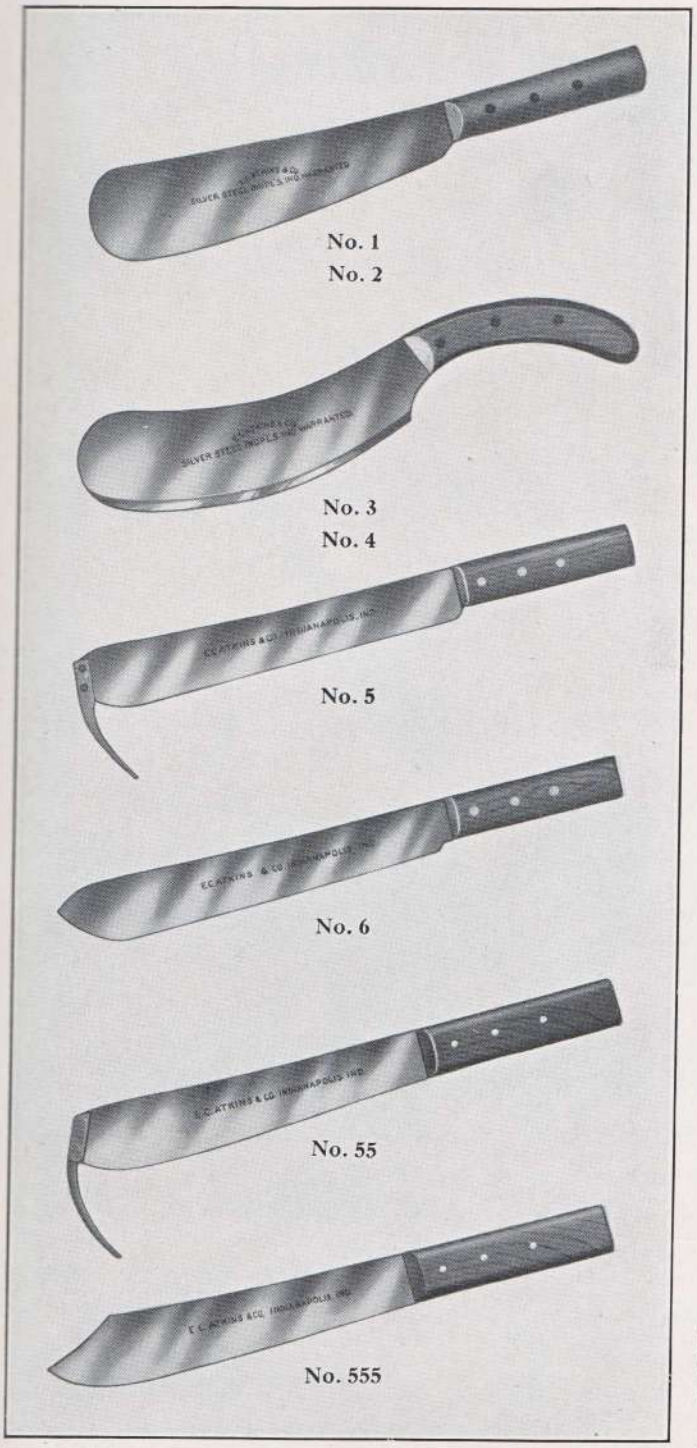
No. 22 CANE KNIFE

Length of blade, 12¾ inches. Width at end, 4¼ inches. Width at handle, 2⅛ inches. Length over all, 21⅜ inches. Hardwood sheep-nose handle. Number of rivets, 6. 17 gauge.

Price.....per dozen $14.70
Weight, per doz...pounds 20



ATKINS BEET KNIVES



No. 1 BEET KNIFE
Silver Steel

Length of blade, 11¼ inches. Width at widest part, 2¾ inches. Length over all, 17 inches. Straight blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $13.40
Price, without hook.per doz. 10.40
Weight, per doz.....pounds 10

No. 2 BEET KNIFE
Silver Steel

11 gauge, otherwise the same as No. 1 Beet Knife.
Price, with hook....per doz. $14.45
Price, without hook.per doz. 11.45

No. 3 BEET KNIFE
Silver Steel

Length of blade, 9¼ inches. Width at widest part, 2¾ inches. Length over all, 15½ inches. Curved blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $12.90
Price, without hook.per doz. 9.95
Weight, per doz.....pounds 10

No. 4 BEET KNIFE
Silver Steel

11 gauge, otherwise the same as No. 3 Beet Knife.
Price, with hook....per doz. $13.90
Price, without hook.per doz. 10.90

No. 5 BEET KNIFE
Special Steel

Length of blade, 11¾ inches. Width at widest part, 2 inches. Length over all, 18¼ inches. Straight blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $12.40
Price, without hook.per doz. 9.45
Weight, per doz.....pounds 9

No. 6 BEET KNIFE
Special Steel

Length of blade, 11⅞ inches. Width at widest part, 2 inches. Length over all, 18½ inches. Pointed curved blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $12.40
Price, without hook.per doz. 9.45
Weight, per doz.....pounds 9½

No. 55 BEET KNIFE
Special Steel

Length of blade, 9½ inches. Width at widest part, 1⅞ inches. Length over all, 15 inches. Straight blade with prong, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $11.40
Price, without hook.per doz. 8.45
Weight, per doz.....pounds 9

No. 555 BEET KNIFE
Special Steel

Length of blade, 9½ inches. Width at widest part, 1⅞ inches. Length over all, 15 inches. Pointed, straight blade, 15 gauge. Hardwood handle, natural finish. Number of rivets, 3.
Price, with hook....per doz. $11.40
Price, without hook.per doz. 8.45
Weight, per doz.....pounds 7

All above packed one-half dozen in box.

ATKINS SPECIALTIES

Tobacco Spud

AAA Grass Hook

Ditch Bank Blade

TOBACCO SPUDS, Crucible Steel Blades

No. 1. With angular blade, complete.....per dozen $7.15
Length over all 14½ inches, length of handle 10 inches. Width of blade at cutting edge 4 inches. Weight per dozen, 7 pounds. Packed ½ doz. in box.

ATKINS PERFECTION GRASS HOOK

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 ground. This is a feature that will be highly appreciated. Packed one-half dozen in a box. Price.....per dozen $8.20

ATKINS DITCH BANK BLADES

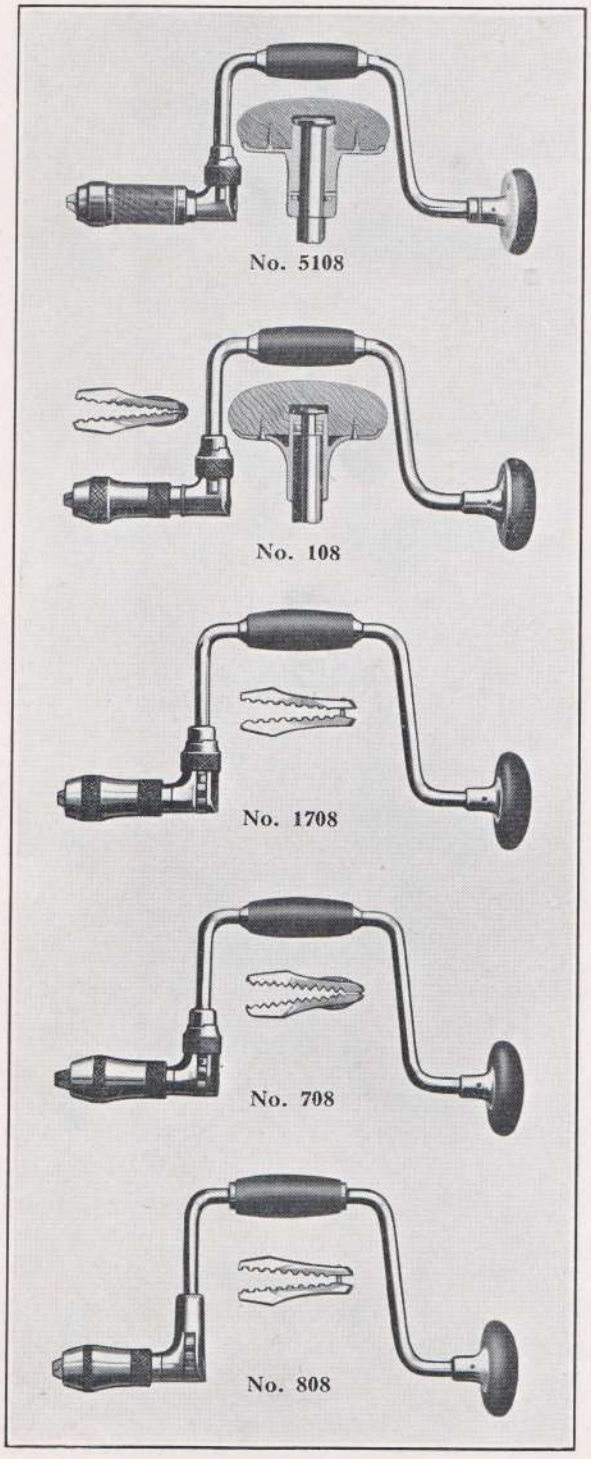
Made of Silver Steel—Atkins exclusive formula. Sharp cutting edge. An essential blade, designed for cleaning ditch banks of weeds, for plantation work, destroying hedges, brush on railroad rights-of-way, etc. Polished. Furnished with 4-foot handles if desired. Supplied with metal plate and rivets for handle. Specifications: Length, 21½ inches; width, 7½ inches; cutting edge, 18 inches; gauge 15.

Price, complete.....per dozen $28.25
Price, handles.....per dozen 6.60
Blades, plates and rivets..... 18.20

Weight, per dozen blades, without handles....pounds 22
Packed, blades, plates and rivets only, one dozen in box.
Packed complete with handles, one dozen in case.

ATKINS RATCHET BIT BRACES

ENCLOSED FRAME



These are in every sense high-grade, and exceptionally well made Bit Braces. All metal parts except the Jaws and Pawls are highly polished and nickel-plated. They have ball-bearing metal-clad Heads and both the Heads and Handles are of hardwood, neatly finished. The Chuck, Ratchet, and Quill are of carefully selected steel. The Sweep, of finished cold drawn steel. The Chuck is of an improved design, very strong, and is ball-bearing. It is fitted with forged steel Alligator Jaws, fastened together with a Spring, which will hold round shank drills from $\frac{1}{8}$ 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 sweep.....per dozen	$73.60
No. 5110,	10-inch sweep.....per dozen	76.00
No. 5112,	12-inch sweep.....per dozen	78.35
No. 5114,	14-inch sweep.....per dozen	80.75

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 36 pounds per dozen.

Sizes and Prices, Nos. 108-114

No. 108,	8-inch sweep.....per dozen	$57.20
No. 110,	10-inch sweep.....per dozen	58.75
No. 112,	12-inch sweep.....per dozen	61.15
No. 114,	14-inch sweep.....per dozen	63.50

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 26 pounds per dozen.

ATKINS RATCHET BIT BRACES

EXPOSED GEARS

BRACES 1708, 708 AND 508

These Braces are well made, low priced tools, having the Ring Ratchet form of ratchet end. They are polished and nickel-plated, or aluminum finished. Heads and Handles of hardwood, ebonized. The Quill is fastened to the Head with screws. Fitted with cast steel Alligator Jaws which will hold all sizes of bits.

Sizes and Prices

No. 1708,	8-inch sweep.....per dozen	$37.30
No. 1710,	10-inch sweep.....per dozen	37.85
No. 1712,	12-inch sweep.....per dozen	38.65

Packed one-half dozen in a box. Approximate weight, 10-inch size, 28 pounds per dozen.

No. 508 RATCHET BIT BRACES

Heavily nickeled. Ebonized or mahogany stained and polished hardwood head and handle. Metal-clad head. Not ball-bearing.

Sizes and Prices

No. 508,	8-inch sweep.....per dozen	$41.30
No. 510,	10-inch sweep.....per dozen	41.55
No. 512,	12-inch sweep.....per dozen	42.10

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 24 pounds per dozen.

No. 708 RATCHET BIT BRACES

Similar to Above but not Nickel-plated

Sizes and Prices

No. 708,	8-inch sweep.....per dozen	$32.80
No. 710,	10-inch sweep.....per dozen	33.35
No. 712,	12-inch sweep.....per dozen	34.15

Packed one-half dozen in a box. Approximate weight, 10-inch size, 28 pounds per dozen.

ATKINS RATCHET BIT BRACES, No. 808

These Braces have the latch pawl style of ratchet ends. The sweep is of cold drawn steel. Hardwood head and handle, mahoganized. Blued finish pawls and cast steel alligator jaws. The head is screwed on and cemented in place. All metal parts polished.

No. 808,	8-inch sweep.....per dozen	$23.80
No. 810,	10-inch sweep.....per dozen	24.35
No. 812,	12-inch sweep.....per dozen	25.15

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.

ATKINS RATCHET BIT BRACES, No. 3108 WITH ENCLOSED GEARS

Same as No. 3408 except that they have enclosed form of Ratchet construction, which makes it a superior tool.

No. 3408

No. 3406,	6-inch sweep.....per dozen	$54.55
No. 3408,	8-inch sweep.....per dozen	54.55
No. 3410,	10-inch sweep.....per dozen	56.15
No. 3412,	12-inch sweep.....per dozen	58.25
No. 3414,	14-inch sweep.....per dozen	60.10

No. 3108

No. 3106,	6-inch sweep.....per dozen	$62.20
No. 3108,	8-inch sweep.....per dozen	62.20
No. 3110,	10-inch sweep.....per dozen	63.80
No. 3112,	12-inch sweep.....per dozen	66.20
No. 3114,	14-inch sweep.....per dozen	68.60

Packed one-sixth dozen in a box. Approximate weight, 10-inch size, 28 pounds per dozen.

ATKINS PLAIN OR SLEEVE BIT BRACES, No. 1908

These Braces are similar in design to the No. 1708 and No. 708 lines, but the Chuck is shorter and they are not quite so highly finished.

The Heads and Handles are of hardwood, mahoganized. The Head is screwed on and cemented in place. Cast steel Alligator Jaws. Polished and nickel-plated.

Sizes and Prices, Nos. 1908-1912

No. 1908,	8-inch sweep.....per dozen	$32.00
No. 1910,	10-inch sweep.....per dozen	32.60
No. 1912,	12-inch sweep.....per dozen	33.35

Sizes and Prices, Nos. 68-72

No. 68,	8-inch sweep.....per dozen	$27.30
No. 70,	10-inch sweep.....per dozen	27.80
No. 72,	12-inch sweep.....per dozen	28.60

Similar to Nos. 1908-1912, but not nickel-plated. 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 sweep.....per dozen	$23.85
No. 35,	10-inch sweep.....per dozen	24.35
No. 36,	12-inch sweep.....per dozen	25.15
No. 37,	same, finely polished.per dozen	18.80
No. 38,	same, finely polished.per dozen	19.35
No. 39,	same, finely polished.per dozen	20.10

Packed one-half dozen in a box. Approximate weight, 10-inch size, 24 pounds per dozen.

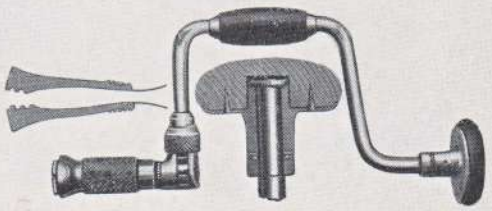
ATKINS PLAIN BRACES, No. 08

Low Price Plain or Sleeve Bit Braces

Polished. Cold drawn steel sweep. Head and handle, mahoganized. These are practical, low priced braces.

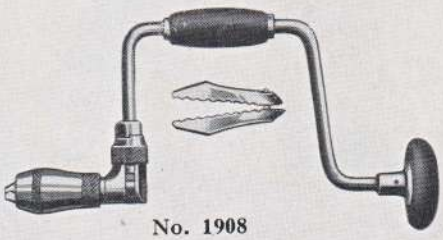
No. 08,	8-inch sweep.....per dozen	$13.50
No. 010,	10-inch sweep.....per dozen	13.75
No. 012,	12-inch sweep.....per dozen	14.30

Packed one-half dozen in a box. Approximate weight, 10-inch size, 22 pounds per dozen.

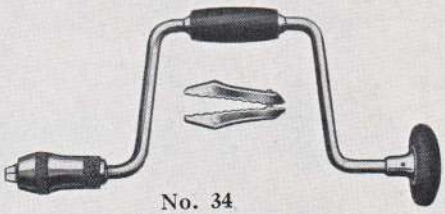


No. 3408

No. 3108



No. 1908



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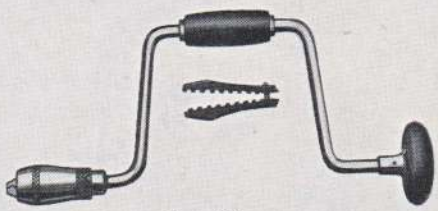


No. 08

REPAIR PARTS FOR ATKINS BRACES

FOR SERIAL NUMBERS LISTED IN PRICE LIST

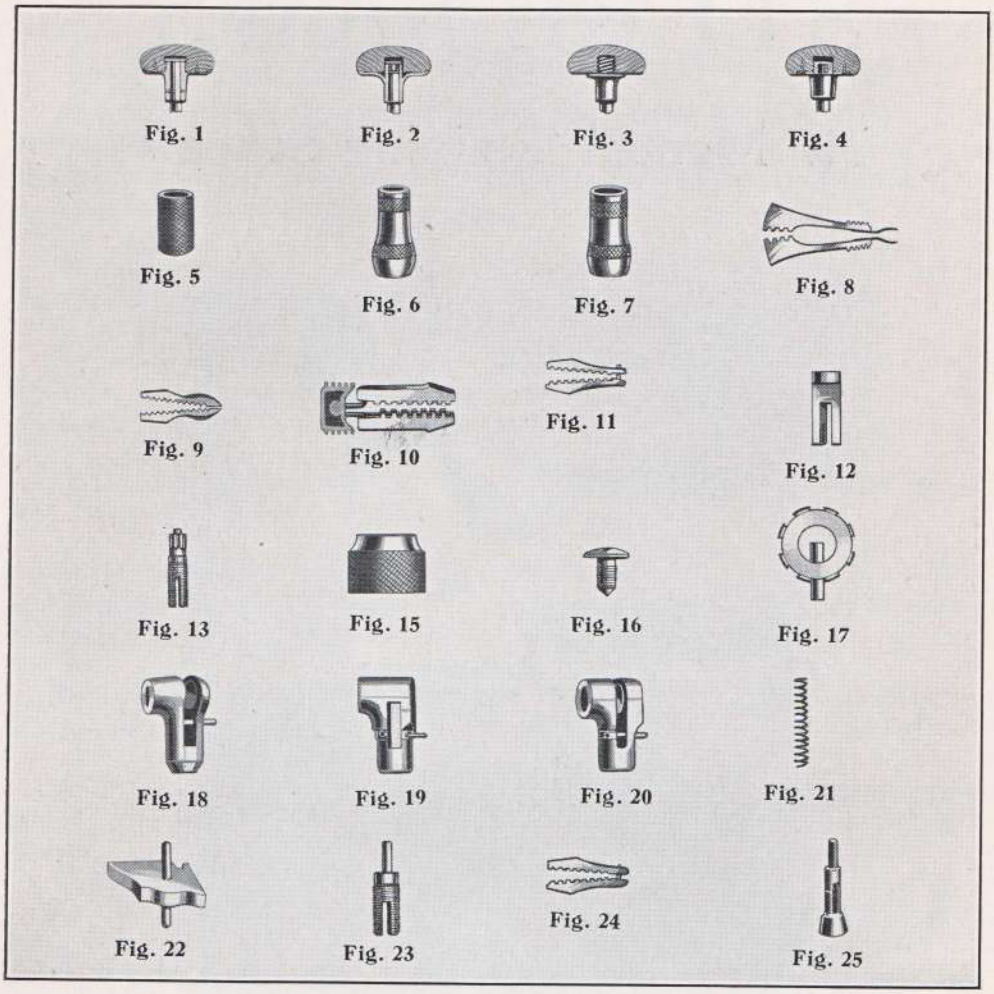


Fig. 1. Steel Clad Head Ball Bearing
For Series 3100, 5100, 3400.

Fig. 2. Steel Clad Head
For Series 500, 100.

Fig. 3. Quill and Head
For Series 1900, 800, 00.

Fig. 4. Plain Head
For Series 30, 1700, 700.

Fig. 5. Cylindrical Sleeve
For Series 3100, 5100, 3400.

Fig. 6. Best Turned Sleeve
For Series 100, 30, 1700, 500, 700.

Fig. 7. Medium Sleeve
For Series 1900, 800, 00.

Fig. 8. Forged Steel Jaws Spring Attachment
For Series 3100, 3400.

Fig. 9. Cast Steel Jaws Spring Attachment
For Series 100.

Fig. 10. Forged Steel Jaws Spring Attachment
For Series 5100.

Fig. 11. Cast Steel Jaws
For Series 1900, 800, 30, 00.

Fig. 12. Plain Brace Socket
For Series 00, 30.

Fig. 13. Closed Frame Socket
For Series 100, 3100.

Fig. 15. Large Frame Ring
For Series 1900, 700, 3400, 3100, 500, 100, 5100, 1700.

Fig. 16. Ratchet Frame Screw
For Series 3100, 100, 5100.

Fig. 17. Ratchet Gear
For Series 500, 700, 1900, 800, 1700, 3400.

Fig. 18. Pawl Ratchet Frame
For Series 800.

Fig. 19. Closed Ratchet Frame
For Series 3100, 5100, 100.

Fig. 20. Open Ratchet Frame
For Series 1900, 1700, 3400, 700, 500.

Fig. 21. Brass Pawl Spring
For Series 3100, 100, 1900, 5100, 800, 1700, 3400, 500, 700.

Fig. 22. Ratchet Pawl
For Series 3100, 100, 1900, 800, 5100, 1700, 3400, 500, 700.

Fig. 23. Ratchet Frame Socket
For Series 1900, 800, 1700, 700, 500.

Fig. 24. Forged Steel Jaws
For Series 1700, 700, 500.

Fig. 25. Square Taper Socket
For Series 5100, 3400, 3100.

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.

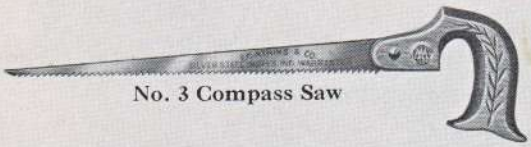
Atkins Kwik-Kut Metal Cutting and Metal Band Machines are in use in many of the largest equipments. Our circular metal saws should also be considered as we make them for all types of machines.

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 MANUAL TRAINING SAWS AND TOOLS

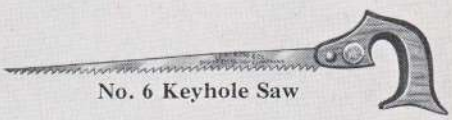
No. 51 Hand Saw

No. 53 Hand Saw

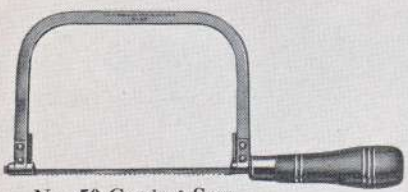


No. 3 Compass Saw

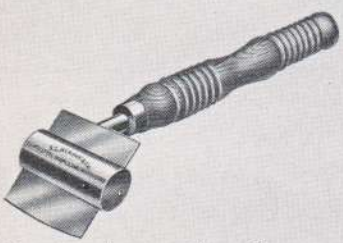
No. 2 Back Saw



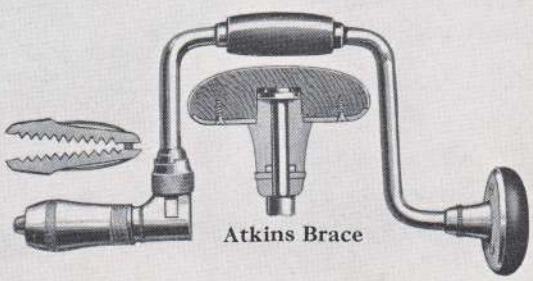
No. 6 Keyhole Saw



No. 50 Coping Saw



No. 3 Perfection Floor Scraper



Atkins Brace

For prices on these saws and tools, see page references on following page.

ATKINS MANUAL TRAINING SAWS AND TOOLS

The following prices cover the various saws shown on the previous page, and are worthy of your serious consideration.

Other items manufactured by us and used in Manual Training work will be found in their proper departments throughout this book.

No. 53

This saw is fully described on page 210. Lengths from 16 to 28 inches inclusive.

Length ..... inches	16	18	20	22	24	26	28
Price ..... per dozen	$29.05	$32.45	$36.70	$39.55	$42.70	$44.55	$50.45

No. 51

For description, see page 211. Lengths from 16 to 28 inches inclusive.

Length ..... inches	16	18	20	22	24	26	28
Price ..... per dozen	$29.05	$32.45	$36.70	$39.55	$42.70	$44.55	$50.45

No. 3 COMPASS

For details, see page 224. Other styles shown on that page, also on page 225.

Length ..... inches	10	12	14	16
Price ..... per dozen	$8.05	$8.65	$9.20	$9.90

No. 6 KEYHOLE

This saw is shown together with other patterns on page 225. Made 10 and 12 inch.

Price ..... per dozen $6.30

No. 2 BACK SAW

A complete line of back, mitre box and dovetail saws is shown on page 223.

Length ..... inches	8	10	12	14	16	18
Price ..... per dozen	$28.60	$30.55	$34.25	$38.10	$42.90	$47.65

No. 50 COPING SAW

This and other styles of coping saws will be found on page 228.

No. 50, complete with blade ..... per dozen $9.90
Blades only ..... per dozen .50

PERFECTION FLOOR SCRAPER

This with several other patterns of scrapers and scraper blades is fully listed and described on pages 248 and 249.

Price ..... per dozen $12.35
Extra blades of Silver Steel ..... per dozen 4.60

ATKINS BRACES

We manufacture a very complete line of braces of all kinds, suitable for Manual Training purposes. They will be found fully illustrated, described and listed on pages 255 to 257, inclusive.

PRICE LIST OF FILES AND RASPS

PRICE PER DOZEN

Inch	MILL			MILL 1 R.E.		MILL 2 R. E.		MILL BLUNT	
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut
3	$3.00	.....	.....	.....	.....	.....	.....	.....	.....
4	3.00	$3.50	.....	.....	.....	.....	.....	.....	.....
5	3.20	3.80	.....	.....	.....	.....	.....	.....	.....
6	3.50	4.00	$4.50	$3.90	$4.50	$4.40	$5.00	$3.90	$4.60
7	3.90	4.60	.....	4.40	5.20	4.90	.....	4.30	4.90
8	4.30	4.90	5.40	4.80	5.50	5.40	6.10..	4.90	5.80
9	4.90	5.80	.....	5.50	6.50	6.10	.....	.....	.....
10	5.60	6.40	7.00	6.30	7.20	7.00	8.00	6.70	7.80
12	7.50	8.60	9.40	8.40	9.70	9.40	10.80	.....	.....
14	10.70	12.20	13.10	12.00	.....	.....	.....	.....	.....
16	14.70	16.80	17.90	.....	.....	.....	.....	.....	.....
18	20.20	.....	.....	.....	.....	.....	.....	.....	.....

Inch	TAPERS		Slim Tapers	Extra Slim Tapers	Double Extra Slim Tapers	Hand-saw Blunt	BANDSAW BLUNT AND TAPER		Pitsaw
	Sgl. Cut	Dbl. Cut					Regular	Slim	
3	$2.10	.....	$2.10	.....	.....	.....	.....	.....	.....
3½	2.10	.....	2.10	.....	.....	.....	.....	.....	.....
4	2.20	$2.90	2.20	$2.20	$2.20	$2.60	$2.90	.....	$4.80
4½	2.40	3.10	2.30	2.30	2.30	3.00	3.10	.....	5.40
5	2.60	3.50	2.50	2.50	2.50	3.40	3.50	.....	5.40
5½	3.00	.....	2.90	2.90	2.90	.....	.....	.....	6.10
6	3.40	4.70	3.10	3.10	3.10	4.30	4.70	$3.90	6.10
7	4.30	5.60	3.80	3.80	3.80	5.40	5.60	.....	7.00
8	5.40	6.70	4.50	4.50	4.50	6.60	6.70	5.30	7.50
10	8.10	.....	6.40	.....	.....	.....	9.70	.....	.....
12	12.50	.....	9.50	.....	.....	.....	.....	.....	.....

Inch	FLAT			HAND			SQUARE		
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	$3.70	$4.30	$4.70	$3.70	$4.30	$4.80	$3.80	$4.60	$4.90
5	3.90	4.60	4.90	3.90	4.70	5.30	4.10	4.80	5.30
6	4.30	4.80	5.30	4.30	5.10	5.60	4.60	5.10	5.50
7	4.80	5.50	6.10	4.90	5.80	6.30	5.10	5.80	6.30
8	5.30	6.10	6.60	5.40	6.30	6.70	5.50	6.30	7.00
9	6.30	7.20	7.90	6.70	7.80	8.30	.....	.....	.....
10	7.00	8.10	8.70	7.50	8.70	9.40	7.40	8.50	9.10
12	9.70	11.00	12.10	10.70	12.30	13.50	10.20	11.50	12.80
14	13.30	15.30	16.70	15.00	17.00	18.20	13.90	16.10	17.50
16	17.80	20.10	22.30	20.10	22.80	24.20	18.70	21.20	23.30
18	23.90	26.80	29.20	26.80	29.90	31.50	25.10	28.20	30.40
20	31.50	.....	.....	35.10	.....	.....	32.80	.....	.....

Inch	THREE SQUARE			HALF ROUND			ROUND		
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	$4.80	$5.60	$6.10	$4.80	$5.60	$6.10	$3.00	$3.50	$3.90
5	5.40	6.10	6.40	5.40	6.10	6.40	3.20	3.80	4.10
6	6.10	6.70	7.10	6.10	6.70	7.10	3.50	4.00	4.50
7	7.00	7.70	8.20	7.00	7.70	8.20	3.90	4.60	4.90
8	7.50	8.30	8.90	7.50	8.30	8.90	4.30	4.90	5.40
9	.....	.....	.....	.....	.....	.....	4.90	5.80	6.30
10	9.10	10.10	10.70	9.10	10.10	10.70	5.60	6.40	7.00
12	11.80	13.00	13.90	11.80	13.00	13.90	7.50	8.60	9.40
14	15.50	17.00	18.30	15.50	17.00	18.30	10.70	12.20	13.10
16	20.60	22.50	24.20	20.60	22.50	24.20	14.70	16.80	17.90
18	27.50	29.90	32.00	27.50	29.90	32.00	20.20	22.70	24.30
20	.....	.....	.....	.....	.....	.....	27.40	.....	.....

PRICE LIST OF FILES AND RASPS
(CONTINUED)

PRICE, PER DOZEN

Inch	WARDING			KNIFE		
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	$4.00	$4.80	$5.40	$5.40	$6.10	$6.40
5	4.50	5.30	5.80	6.10	6.70	7.10
6	4.90	5.90	6.40	6.90	7.50	7.90
8	6.40	7.50	8.20	8.50	9.10	9.50
10	8.70	10.10	11.00	10.10	11.50	12.30
12	.....	.....	.....	13.70	15.20	16.10

Inch	PILLAR			Square Blunt Bast.	Round Blunt Bast.	LEAD FLOAT AND WOOD FILES	
	Bast.	2d Cut	Smooth			Flat	Hlf. Rd.
6	$4.30	$5.10	$5.60	.....	.....	$4.80	$7.00
8	5.40	6.30	6.70	$7.40	$5.60	6.30	8.50
10	7.50	8.70	9.40	10.20	7.50	8.60	10.70
12	10.70	12.30	13.50	13.90	10.70	11.80	14.10
14	15.00	.....	.....	18.70	14.70	16.00	18.50
16	20.10	.....	.....	25.10	.....	21.50	24.70
18	.....	.....	.....	32.80	.....	.....	.....

Inch	Handsaw, Blunt, Slim	Double Ender	Cant Saw
4	$2.50	.....	.....
5	3.10	.....	$4.70
6	3.80	.....	5.40
7	.....	$3.50	6.10
8	5.40	3.90	6.40
9	.....	4.40	.....
10	.....	4.90	8.70
12	.....	6.00	11.40

Inch	Cabinet Files	Cabinet Rasps		Half Rd. Wood Rasps		Flat Wood Rasps		Hand Finishing	
		2d Cut	Smooth	Bast.	Smooth	Bast.	Smooth	2d Cut	Smooth
6	$8.10	$10.10	$11.70	$8.10	$10.10	.....	.....	.....	.....
8	10.10	12.80	15.50	10.10	13.70	$9.40	$12.80	.....	.....
10	13.70	17.50	20.70	13.70	18.70	12.80	17.50	.....	.....
12	18.70	22.80	26.80	18.70	24.80	17.50	23.20	$15.20	$16.20
14	24.80	29.60	33.90	24.80	32.90	23.20	30.80	20.60	21.70
16	.....	.....	.....	32.90	43.60	30.80	40.90	.....	.....

Inch	SHOE RASPS		Planer Knife	Cross Cut	Special Cross Cut
	Flat	Hf. Rd.			
6				$6.10	$3.90
7				.....	4.30
8	$10.10	$10.10	$6.40	7.50	4.90
9	12.20	12.20	.....	8.50	.....
10	13.70	13.70	8.60	9.10	6.70
12	.....	.....	.....	11.80	.....

Inch	HORSE RASPS, PLAIN			HORSE RASPS, TANGED				
	½ File	Slim, ½ File		Regular	Slim		Thin	
12	$12.80	.....		$16.80	.....		1.531″ x .270″	$16.00
13	.....	.....		19.60	.....		1.594″ x .275″	18.20
14	17.80	.....		23.10	13″ Stock	$21.90	1.750″ x .280″	21.90
15	20.90	.....		27.30	13″ Stock	25.20	1.812″ x .285″	25.20
16	24.40	14″ Stock	$21.50	32.20	14″ Stock	29.70	1.875″ x .290″	29.70
18	32.90	15″ Stock	25.90	.....	.....		.....	
20	.....	16″ Stock	32.90	.....	.....		.....	

The above list comprises all of the kinds, sizes and cuts of files regularly made. Anything differing from these files will be considered as special and will not be manufactured except in case of urgent necessity and when manufactured price will be based strictly upon cost of material and cost of manufacture at time goods are made.

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