ATKINS Inserted Tooth SAWS

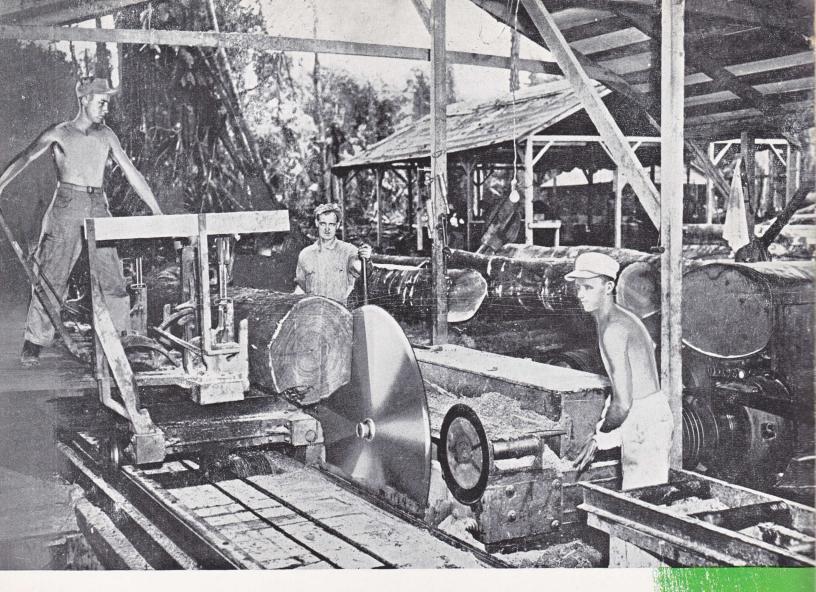
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WHY ATKINS INSERTED TOOTH SAWS ARE PREFERRED

Atkins Inserted Tooth Saws are the utmost in economical operation for either winter or summer sawing and especially for portable and small mill operators. They retain their original shape and because of the larger gullet and increased hook will stand heavy feed.

THE BLADES—The blades are made of genuine SILVER STEEL. This is important because SILVER STEEL holds the tension required by the mill and requires less frequent tension adjustment. **THE SOCKETS**—The tooth sockets are accurately milled by skilled machinists on precision machines built for that purpose alone. They are smooth to effect a perfect fitting tooth.

THE TEETH—Atkins Inserted Teeth (also known as bits or points) are made of the finest alloy steel, and are scientifically hardened and tempered uniformly throughout. The hard temper produces an extremely tough sharp cutting edge of long edge holding qualities; therefore a minimum amount of power is required.

ATKINS INSERTED TOOTH CIRCULAR SAWS

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HIGH SPEED STEEL TEETH—Many operators of inserted tooth saws have switched completely to Atkins High Speed Steel Teeth. They have all the fine manufacturing qualities of Atkins standard teeth, plus the additional features found only in high speed steel. Without a doubt

they are the best suited for sawing extremely hard, gritty or frozen timber as well as soft stringy wood. While the original cost is slightly more, they require far less sharpenings; thus more lumber per sharpening and considerably less replacements.



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Modern scientific heat treating is done automatically in gas furnaces.



Gullets are precision ground on specially designed machines.



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Only skilled saw makers are used in this important operation.

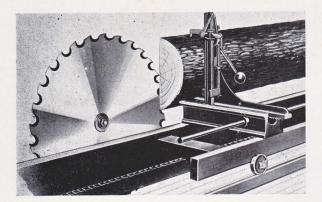
THE HOLDERS—Atkins Holders (or shanks) are made of a superior alloy steel, uniformly hardened and tempered. All contacting surfaces are accurately machined, which assures a perfect fit with the tooth in the socket. They have a well distributed tension that holds the teeth firm and in line. The open gullets give the maximum sawdust and chip extracting ability. Atkins Teeth and Holders are interchangeable in other saws and will increase their cutting qualities.

ATKINS INSERTED TOOTH CIRCULAR SAWS

Every saw listed is made with the greatest possible care and attention to detail.

The materials used are the most expensive and very finest. The construction is the very latest and most scientific. The workmanship is as perfect as is possible to obtain through the use of clever mechanical ideas and the employment of the most skilled workmen.

They are in use exclusively in the largest operations throughout the world and are giving universal satisfaction.

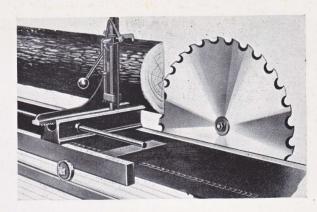


How to Order

LEFT HAND

It's a very simple matter to order Atkins Inserted Tooth Circular Saws if one follows the simple formula as listed here. Give complete information and we will

> Number of Saws Wanted Diameter of Saw Diameter of Collar on Mandrel Right or Left Hand (see illustration) Thickness (ga.) of Center Thickness (ga.) of Rim Number of Teeth Width (ga.) of Tooth at Point Size of Mandrel Hole



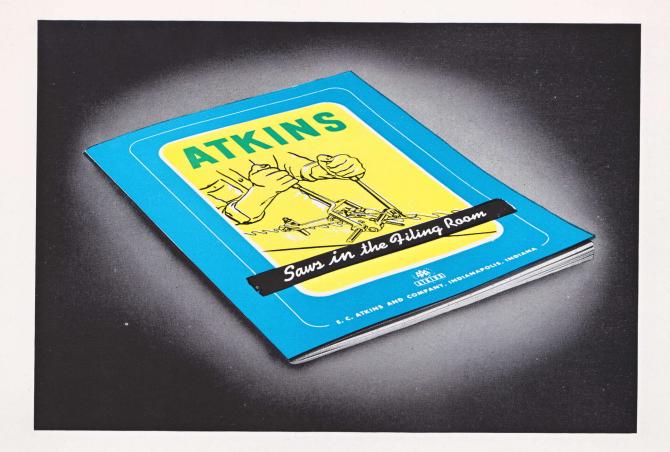
RIGHT HAND

manufacture for you a saw that will be the very best that money can buy and at the right price.

Size of Pin Holes Distance Center of Pin Holes Revolutions per Minute Greatest Feed Each Revolution Kind of Timber to be Cut Style of Tooth Wanted Does Mandrel Run Warm Horsepower Available and Kind of Power

Horsepower	Saw Diameter Inches	No. of Teeth	Style Tooth	Recommended Speed, in Cut
17-32 Gas	40-42-46-48	32 to 40	B or 3	400
32-42 Gas	44-46-48	30 to 40	B or 3	400
15-20 Steam	46-48-50	36 to 44	B or 3	450
20-25 Steam	48-50	40 to 48	B or F	500
50 Diesel	48-50	40 to 48	B or F	500
25-30 Steam	48-50	46 to 48	F	500
80 Diesel	48-50-52	46 to 54	F or 21/2	550
30-35 Steam	48-50-52	46 to 54	F or 21/2	550
35-40 Steam	48-50-52-54	46 to 60	F or 21/2	550
40 or Over Steam (Over 80 Diesel	50-52-54 56-60	48 to 66	F or 21/2	600

For recommendations covering Pacific Coast pattern saws, write our engineering Department.



Care of Your Saw is vitally important to you. You have paid good money for your Atkins Saw and you have obtained the very best saw money, brains and skill can produce.

Atkins Saws are noted for their unusual ability to stand up satisfactorily under normal or even heavy production. However, like all quality sharp edge tools they need good care. It's to your own advantage to see to it that your saw is in proper sawing condition at all times.

Saws in the Filing Room has been written for those who want to know more about and learn to care for their own saws. It's a book well illutrated and in sawmill language shows how to tension, sharpen and do all the other things that can be done in the filing room. It's yours for the asking—send today for your FREE copy. It will be mailed to you promptly postpaid.

Many operators even neglect their saws . . . this should never be done. If you haven't the time nor facilities, let us do it for you.

We maintain at our Indianapolis factory and our branch factory at Portland, Oregon, regular saw repair departments where any kind of saw repair service by factory trained mechanics give quality work and prompt service.

We earnestly solicit the opportunity to show you what can be done to improve your sawing results by proper repair.



Has the most teeth that can be put in an inserted tooth saw. Operated with good power it will stand fast feeds in small knotty logs. Fine for any feed over 5 or 6 inches per revolution.

advantages

- Carries many teeth; very desirable in small timber
- Can handle heavy feed easily
- Runs true even in knotty logs where coarse teeth often dodge.
- Strong shoulders regardless of number of teeth

stock sizes

Other sizes made to order

Diameter Inches	Gauge	Number of Teeth	Diameter Inches	Gauge	Number of Teeth
48	7 x 8	52	54	7 x 8	58
48	8 x 9	50	54	8 x 9	58
48	8 x 9	52	56	8 x 9 '	60
50	8 x 9	52	56	7 x 8	60
50	8 x 9	56	60	7 x 8	64
52	8 x 9	56	60	8 x 9	64
52	7 x 8	56			

In many respects is similar to the "B" in gullet room and number of teeth per saw. Used on same work as "B" pattern. Efficiently produces good lumber with light horse power.

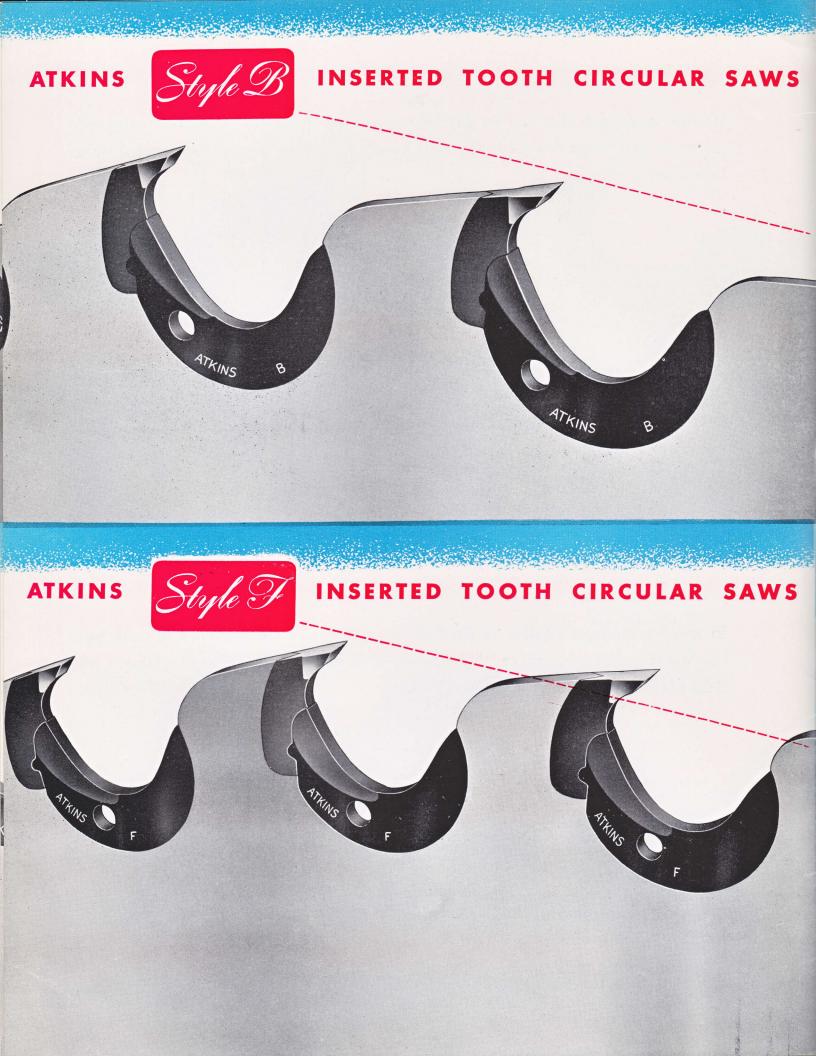
advantages

stock sizes

Other sizes made to order

- Large roomy gullets, suitable in the larger logs
- Strong shoulders—note construction Easy to replace teeth or holders
- Not recommended for feed over 4 inches. It's a light running saw because of tooth spacing and open gullets

Diameter Inches	Gauge	Number of Teeth	Diameter Inches	Gauge	Number of Teeth
48	7 x 8	42	54	7 x 8	40
48	8 x 9	34	54	8 x 9	40
48	8 x 9	42	54	8 x 9	44
50	8 x 9	36	54	7 x 8	44
50	8 x 9	42	56	7 x 8	42
50	8 x 9	44	56	8 x 9	42
52	7 x 8	38	56	8 x 9	46
52	7 x 8	42	60	7 x 8	46
52	8 x 9	38	60	8 x 9	46
52	8 x 9	44			



This is recommended for the light power mills and the larger logs because of the large and roomy gullets. Very successful in West Coast edger saws where it is the best seller.

advantages

- Long wearing qualities
- Ideal for knotty and frozen timber a strong and heavy tooth.
- Teeth have a very solid bearing
- Large gullets carry a large quantity of saw dust
- Teeth can be swaged or upset while remaining in saw

stock sizes

Other sizes made to order

Diameter Inches	Gauge	Number of Teeth	Diameter Inches	Gauge	Number of Teeth
48	8 x 9	42	56	8 x 9	46
48	7 x 8	42	56	7 x 8	46
50	8 x 9	40	60	7 x 8	42
50	7 x 8	40	60	7 x 8	52
52	8 x 9	44	60	7 x 8	46
54	8 x 9	44	60	8 x 9	46
54	7 x 8	44			

A top-notch saw particularly light running where low power is used because of contour of large gullets. It's a saw that will take tough going. Will produce as much as 20,000 feet per day.

advantages

- Long bit gives ¹/₈" more wear over some other patterns
- Rugged support for teeth
- Heavy tooth; ideal in tough, knotty or frozen timber
- Strong holder—large roomy gullets

stock sizes

Other sizes made to order

Diameter Inches	Gauge	Number of Teeth	Diameter Inches	Gauge	Number of Teeth
48	7 x 8	46	54	7 x 8	52
48	8 x 9	46	54	8 x 9	52
50	7 x 8	48	56	7 x 8	54
50	8 x 9	48	56	8 x 9	54
52	7 x 8	50	60	7 x 8	58
52	8 x 9	50			



Generally the same in design as the B and F Styles, the main difference is in the size of the gullet. Smooth and easy cutting saw for light power mills. The extra large gullets remove the saw dust readily.

advantages

- Fine support for teeth
- Same long wearing qualities as B and F
- Removes saw dust freely
- Teeth can be swaged or upset in saw
- Machined "V" on teeth, holders and gullets causes less wear and smooth even seating

These saws are not carried in stock. They are made to order, but prompt delivery is made.

Many mills find this pattern preferable in many respects to the D. Used for the same purpose and on same mills as the D with equal results. Excellent top saw. Drag saws with this tooth perform ripping operations well.

advantages

- A rugged saw for tough work
- Strong, heavy tooth and holder
- Stands up under fast and heavy feeds of high-power mills
- Especially designed and recommended for cutting Pacific Coast Timber

These saws are not carried in stock.

They are made to order, but prompt

delivery is made.

ATKINS EDGER SAWS

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Atkins Inserted Tooth Edger Saws are made for any edger in use and produces satisfactory results. Constant diameter maintained edging or cutting bark from boards and ripping to desired widths.

Saws Carried in Stock

MOST COMMON PATTERN USED:

14 x 10 x 14 ga.-21/2-3" hole-3 9/16" pin holes on 4" circle

Others in General Use

 $\begin{array}{rrrr} 14 & x & 9 & x & 14 \\ -2 & 14 & x & 9 & x & 14 \\ -F & & & \end{array}$

MANDREL SPECIFICATIONS OF OTHER POPULAR SIZES:

1 15/16" center hole with 3 pin holes; $\frac{5}{8}$ " on a 3 5/16" circle with one keyway 7/16" x 7/16" opposite one pin hole

1 15/16" center hole with 3 pin holes $\frac{5}{8}$ " on a 3 5/16" circle

- $3\frac{1}{2}$ " center hole with 3 pin holes $\frac{1}{2}$ " on a $4\frac{3}{8}$ " circle $3\frac{1}{2}$ " center hole with 3 pin holes $\frac{1}{2}$ " on a $4\frac{3}{8}$ " circle $3\frac{1}{2}$ " center hole with 3 pin holes 9/16" on a 5" circle 37/16" center hole with 3 pin holes 9/16" on a $4\frac{1}{2}$ " circle

You should always send us a rubbing of the collar on which the edger is to be fitted.

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ATKINS RIFT AND GROOVING SAWS

RIFT SAWS

Popular in the southeast where rift flooring is made. Generally made on "rift" or "bull" edgers. Made of fine saw steel with standard $2\frac{1}{2}$ —3 or B teeth. Large expansion slots relieve excessive heating due to running in deep cuts. Also easier to straighten.

Made only in 8 gauge, 14 to 30 inch diameters.





GROOVING SAWS

These grooving saws are ideal where a constant diameter is important. The popular $2\frac{1}{2}$ teeth and holders are used and all standard saws are 7 gauge.

Diameter Inches	Number of Teeth	Diameter Inches	Number of Teeth
6	4	12	10
7	5	14	10
8	6	16	12
9	6	18	14
10	8	Contraction of the	and the second second

WIDTH, CUT INCHES: 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4.

TWO TOOTH GROOVING SAWS

They can be used singly and cut a groove as wide as the tooth points or in multiples for wider grooves by using spacing collars between each blade. We have furnished sets assembled for grooves up to 24 inches wide.

Use No. $2\frac{1}{2}$ teeth, 7 gauge with tooth points from $\frac{1}{4}$ to $\frac{3}{4}$ inch wide, also furnished with Nos. 3 or B teeth, 4 gauge with $\frac{1}{2}$ inch width tooth.

Saws are made 8-10-12-14-16-18-20-22 and 24 inch diameter.

ATKINS

INSERTED TEETH

Atkins Inserted Teeth and Holders are made of the very finest steel available and manufactured to our exclusive analysis. They are made on precision machines to the closest tolerance, accurate in every respect and fit correctly. They have unusual cutting qualities.

TEETH

Standard teeth are made in top quality alloy steel while certain sizes are made in genuine High-Speed Steel that practically triples tooth life.

HOLDERS

Atkins Holders are made of Alloy spring steel, correct design, tempered for the greatest in toughness. They are properly machined and high maximum gullets space for saw dust clearance. They hold the teeth firmly in place.

STANDARD INSERTED TEETH

	Gauges	5		6			7	7				8				9	>			10		1
Teeth	PtIn.	$\frac{1}{3}\frac{3}{2}$	$\frac{13}{32}$	3/8	$\frac{11}{32}$	3/8	$\frac{11}{32}$	$\frac{5}{16}$	9 32	$\frac{11}{32}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{17}{64}$	1⁄4	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{17}{64}$	1/4	$\frac{9}{32}$	$\frac{17}{64}$	1/4	1/2
2 ¹ / ₂ — He 2 ¹ / ₂ — (SI 3 3 — Long 4 ¹ / ₂ B — (Long B — Extra	im) [*] g)	V V	VVV	V ***	V	VVV	* * ***	V V V	V	VVV	~~~~~~	* * * * *	V V V	V.V V	V V	V V V	* * *	V V V	V	V V V	* * *	1

*Furnished on orders unless otherwise specified.

HIGH SPEED STEEL TEETH

21/2-(Slim)			V	V	VV	VV	V	V			V		V
3			1 8	VV	V V	V		V	V	V			
3—Long					V								
41/2		V		V	V					1			
31/2	V	V		V	V								
B-(Long)	V	V	V	V	VV	V		V	V		V	V	V
B-Extra Long				V	V								

B—Roscer, 4-Ga. Point. . 78" 21/2—Groover, 7-Ga. Point—34"-5/8"-1/2"-3/8"-11/32"-5/16"-1/4" 21/2—Groover, H.S.S., 7-Ga. Point—1/2"-3/8"-11/32"-5/16"-1/4"

STANDARD HOLDERS

Holders Gauges	5	6	7	8	9	10 11	Holders	Gauges	5	6	7	8	9	10	11
2 ¹ / ₂ 015 ["] Rib 2 ¹ / ₂ - ¹ / ₆₄ ["] - ¹ / ₃₂ ["] Large 2 ¹ / ₂ Solid		_			VVV		4 ¹ / ₂ 040 4 ¹ / ₂ 025 B-F .040	5" Rib	V	V	V	V			
2/2 3011a 2 ¹ / ₂ 025 ["] Rib 3015 ["] Rib 3- ¹ / ₆₄ ["] - ¹ / ₃₂ ["] Large		V		V	V	V	B-F .025 B-F .015 B-B .025	" Rib		V	V	V	V	V	



2%

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Style **2**½

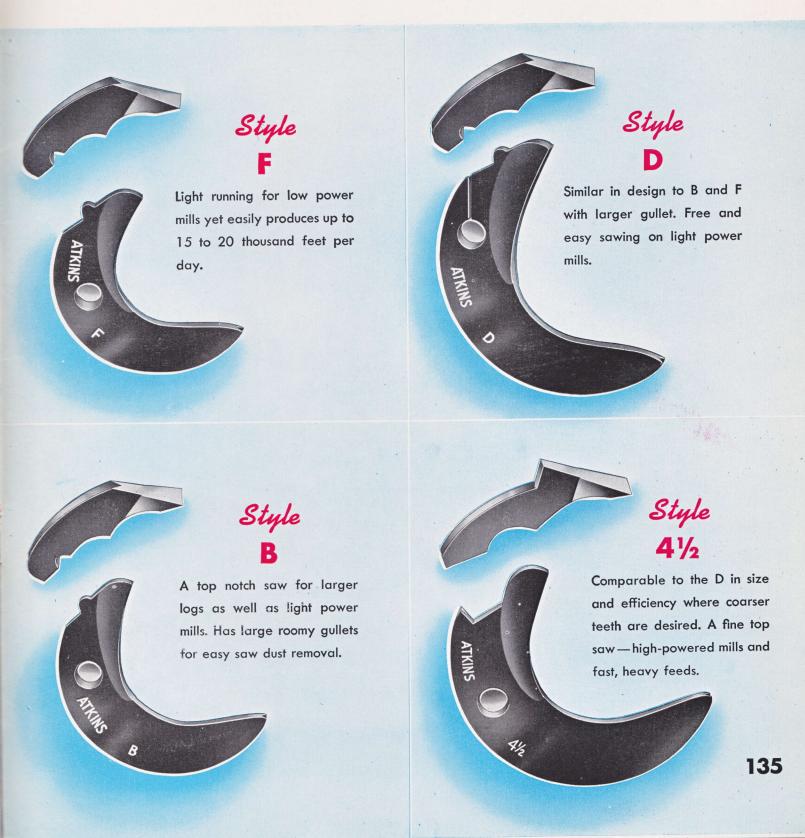
For heavy feeds, over 5 or 6 inches per revolution. With good small knotty logs are very little problems.

Similar to the B in respect to number of teeth, etc. Excellent cutter on mills with light power.

Style

AND HOLDERS

Shown on next page in full color are how Atkins Teeth and Holders are packed. Silver Steel Holders 50 to box. Alloy Teeth 100 to box High Speed Steel 5 teeth to protective folder, 10 folders to carton, 50 teeth.



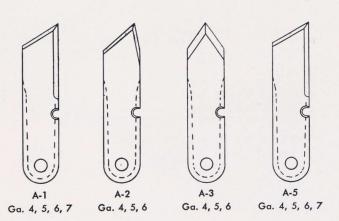


ATKINS INSERTED TOOTH CUT-OFF SAWS

Atkins Inserted Tooth Cut-off Saws are made specifically for sawing large logs and timbers to desired lengths. They are recommended in the larger diameters and the heavier gauges. The inserts are firmly held in place by tempered rivets. They are either twist hammer or forged set according to the pattern desired and can be worn out without resetting. Atkins SILVER STEEL is used in the plates and with careful heat treatment and perfect machine milling in the sockets and teeth prevents the teeth from leading in the cut and tearing off shoulders in the blade.

Try Atkins Inserted Tooth Cut-off Saws on your next order.

All Teeth Shown Here Are One-half Actual Size

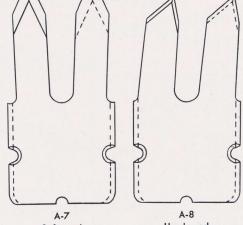


Nos. A-1, 2, 3, 5, 9 and 10 are Standard Atkins McLean Patterns. All are $\frac{3}{4}'' \ge 3\frac{1}{4}''$ and near $1\frac{3}{4}''$ point to point.

Nos. A-2, 3 and 10 have no hook.

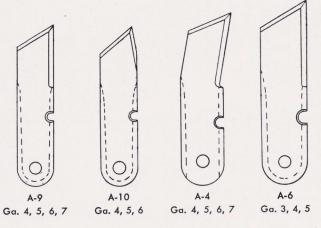
Nos. A-1, 5, 9 get 71/2° hook.

Nos. A-2 and 10 are same except A-2 has twist set, while A-10 is hammer set. Both are small hardwood teeth.









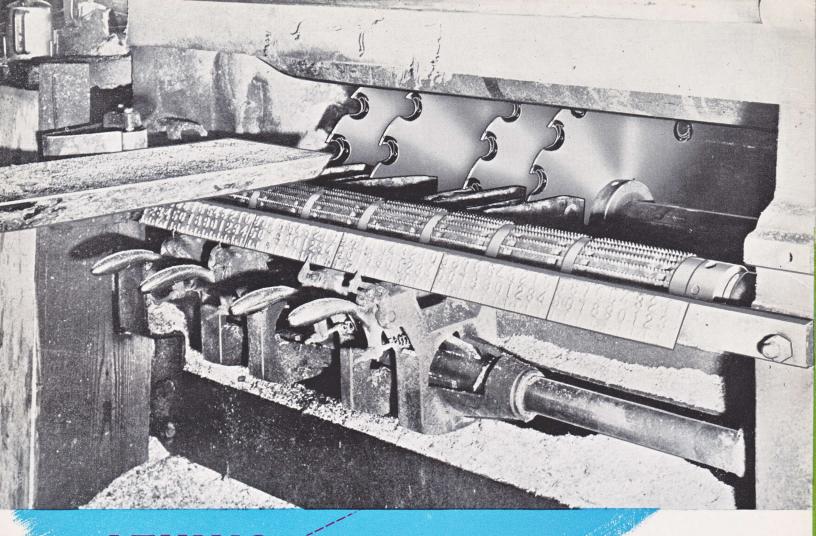
Nos. A-1-5-9 are same except A-1 is twist set; A-5 is forged set and A-9 is hammer set.

set and A-9 is hammer set. A-4 is $13/16'' \times 3\frac{1}{2}''$ near 2" point to point; hook is in tooth. A-6 is $15/16'' \times 3\frac{3}{4}''$ near 2" point to point and has $7\frac{1}{2}$ degree hook in plate.

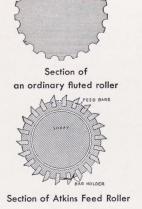
Nos. A-1, 2, 4, 5 and 6 can be laid and this makes for smoother and longer sawing between sharpenings.

A-1-2	2-3-5-9-10		A-6	A-	7-8	A-1-2	-3-5-9-10	A-4	A-6	A-	7-8
Diam. Inches	Number of Teeth	A-4 Number of Teeth	Number of Teeth	Gauge	Number of Sections	Diam. Inches	Number of Teeth	Number of Teeth	Number of Teeth	Gauge	Number of Section:
48	86	76	74	7	32	86	160	144	134	4	60
50	90	78	76	7	34	88	164	146	138	4	60
52	94	80	80	6	36	90	168	150	140	4	64
54	96	84	84	6	38	92	172	154	144	4	64
56	100	90	88	6	40	94	174	156	148	4	64
58	104	94	90	6	42	96	178	158	150	4	68
60	104	96	94	5	42	98	186	158	152	3	68
62	112	100	96	5	44	100	186	160	156	3	68
64	116	104	100	5	44	102	190	160	158	3	72
66	120	108	102	5	48	104	194	162	162	3	72
68	124	110	104	5	52	106	198	164	166	3	72
70	128	114	110	5	52	108	200	164	170	3	76
72	132	118	112	5	54	110	204	166	174	3	76
74	136	120	116	5	54	112	208	168	176	2&3	78
76	140	124	116	4	54	114	212	170	178	2&3	80
78	144	128	122	4	56	116	216	170	180	2&3	80
	144	130	124	4	56	118	220	172	184	2&3	84
80	152	136	128	4	58	120	224	172	188	2&3	84
82 84	152	140	132	4	58						

All Atkins Inserted Tooth Cut-off Teeth have 3/32" clearance. In ordering, advise whether log passes over or under the saw.



ATKINS FEED ROLLS



Arkins Feed Roller is a roller which will last practically a lifetime. When the teeth become dull or worn they can be readily sharpened by the edgerman without removing the complete roller from the edger, by simply removing in sections the worn feed bars and inserting sharp ones. It is quickly made ready for first-class service.

The ATKINS Feed Roller eliminates crooked lines in edging and raises the grade. Just as a worn feed roller cannot feed straight, so a sharp and efficient feed roller like the ATKINS cannot feed crooked. The feed roller wears more, of course, where it does the most work.



Worn fluted rollers like at left produce crooked lumber Worn fluted rollers are very expensive as they produce crooked lumber. Note amount of waste in this 10'' board to re-edge and straighten.

A 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, which means waste.

On account of the replaceable feed bars, which are uniformly tempered for long wear, the ATKINS feed roller always presents an even, sharp surface to the lumber being edged, therefore eliminating crooked lines and avoiding waste. We guarantee the edger equipped with our roller to feed 100 per cent straight under all conditions of the saws.

R FRONT ROLLERS REAR ROLLERS B FRONT ROLLERS REAR ROLLERS ם

Note how easy it is to remove worn bars for quick replacement.

How to Order:

When ordering refer to above diagram and give the following information complete. This is very impor-

tant. (Left hand drive shown)

- Length over all of roller shaft. A.
- Β. Length of roller.
- Diameter of roller over tooth points. Diameter of shaft, short end. Diameter of shaft, long end. C.
- D.
- E.
- EE. Diameter of shaft on long end at end.
- Length of bearing. Length, width, and depth of long keyway. F.
- G. H. Distance between two keyways.
- Length, width and depth of short keyway. I.

Length, width, and depth of keyway on short shaft.

No. 2 Gang Bar AAAAAAAAAAAAAAA

No. 2 Gang Straight Bar

No. 3 Gang Bar

No. 4 Gang Bar

No. 2 Bar

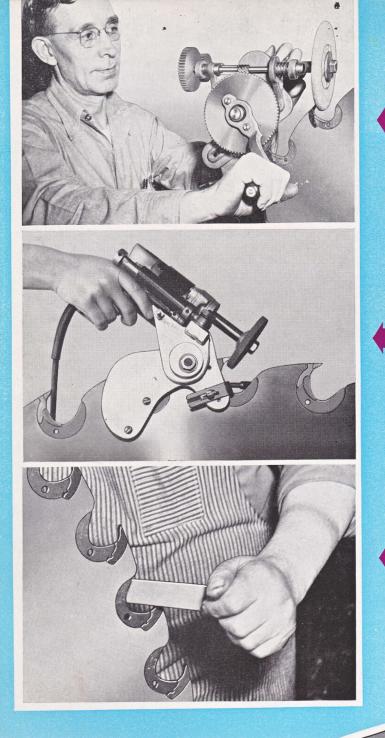
No. 3 Bar

No. 4 Bar

No. 2 Straight Bar

- Length of bearing, short end. Length over all of short roller shaft. Κ.
- L.
- M. Style of feed bars desired.
- Right or left hand drive N.
 - (When facing feed-in end of machine the location, right or left, of drive end of shaft indicates hand of rollers)
- Type of feed roller, Regular, Pacific Coast or Gang. 0. P.
- Make of edger.

Note: It is necessary that complete specifications are given in each instance for both front and rear rollers.



ATKINS

No. 15 ARMSTRONG SHARPENER

The No. 15 Armstrong Sharpener with emery wheel, does the work equal to the most costly power-driven grinder. Simple, sturdy construction is easy to use. Adjustable to any log saw tooth, space or hook and makes them all alike. Easily used while the saw is on the mill. Prevents saw from leading. Nothing complicated—in fact a boy can use it.

Saws sharpened with it have uniform teeth; therefore better and more lumber between sharpenings.

ANDRUS ELECTRIC HARD TOOTH GRINDER

Mill operators who have experienced the high cost of "shut-downs" for saw sharpenings will appreciate this Grinder. Grind your saws on the mandrel. High speed steel teeth as well as standard inserted teeth are very easy to sharpen. The quick and easy attachment holds grinder so that every tooth will be uniform. Adaptable to mill saws and edgers. Built for long wear and hard use. Pays for itself in very few uses. Order yours today.

ATKINS INSERTED TOOTH FILES

These files are manufactured specifically for filing alloy inserted tooth (chisel bit) saws. They are SILVER STEEL of exactly the right steel analysis, uniform temper and hardness. The cut of these files is correct for fast, clean filing. They leave a sharp, burr free edge. Use these Atkins Files on Alloy teeth. They will not sharpen high speed steel. Standard sizes only.



ATKINS INSERTED TOOTH SHARPENING ACCESSORIES

Atkins Inserted Tooth Wrenches are expertly made and fitted to correctly hold teeth and holders. Changing teeth and holders with these wrenches is quicker and easier.

No. 1 for teeth numbers 3, 4 and 5.

No. 2 for teeth numbers 2, 2¹/₂, 3¹/₂, B, D, F. Order by wrench number or give teeth number.

E. C. ATKINS AND COMPANY . INDIANAPOLIS 9, INDIANA, U.S.A.