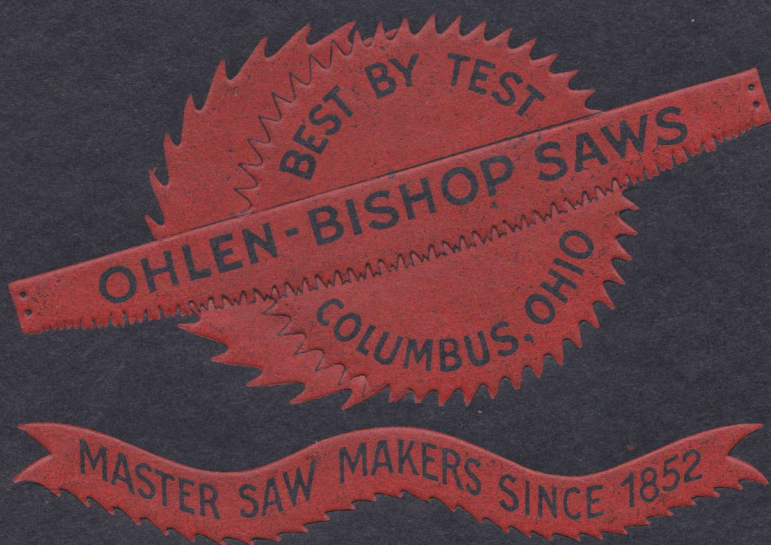


OHLEN-BISHOP



SAWS — FILES
MACHINE KNIVES



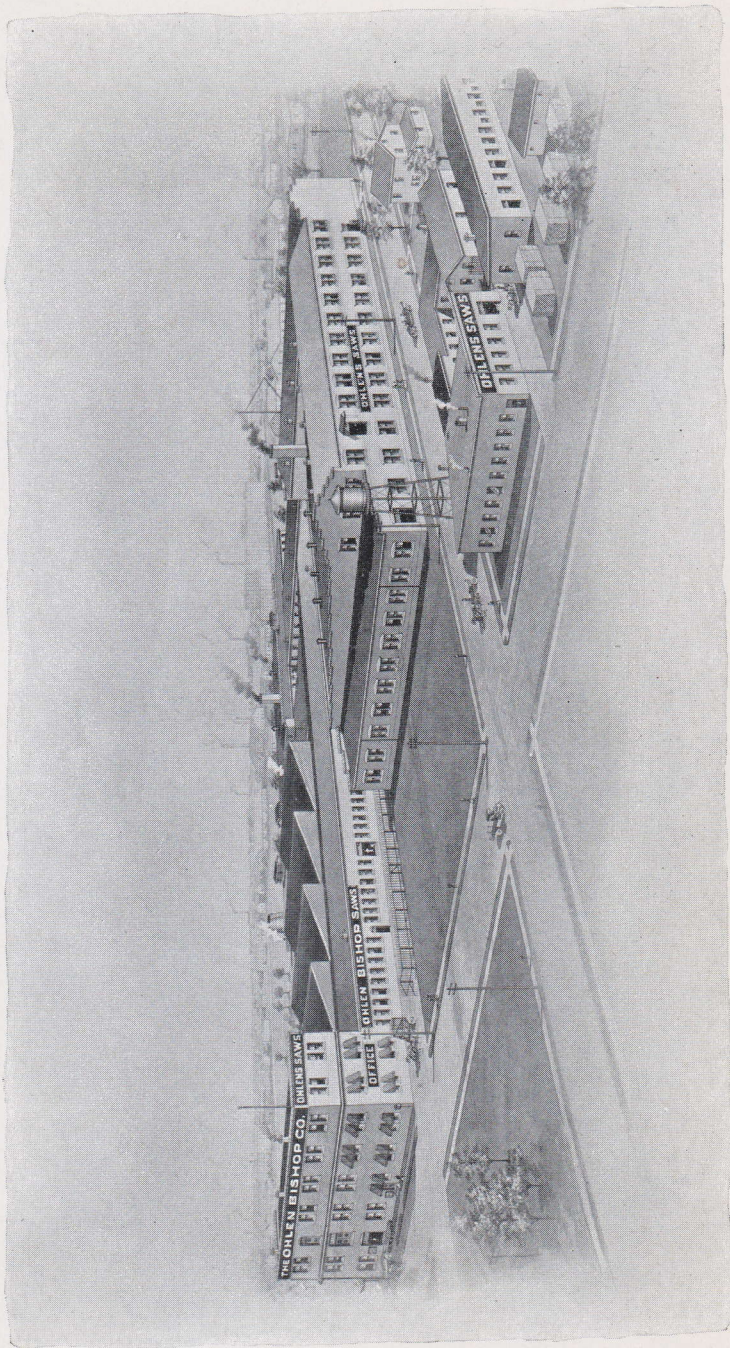
CHROME NICKEL ALLOY STEEL
WARRANTED UNEQUALED
FOR FAST CUTTING,
TOUGHNESS, UNIFORMITY
AND EDGE-HOLDING
QUALITY
MADE IN U. S. A.

Catalog No. 11

The Ohlen-Bishop Co.

Columbus, Ohio, U. S. A.

THE OHLEN-BISHOP COMPANY

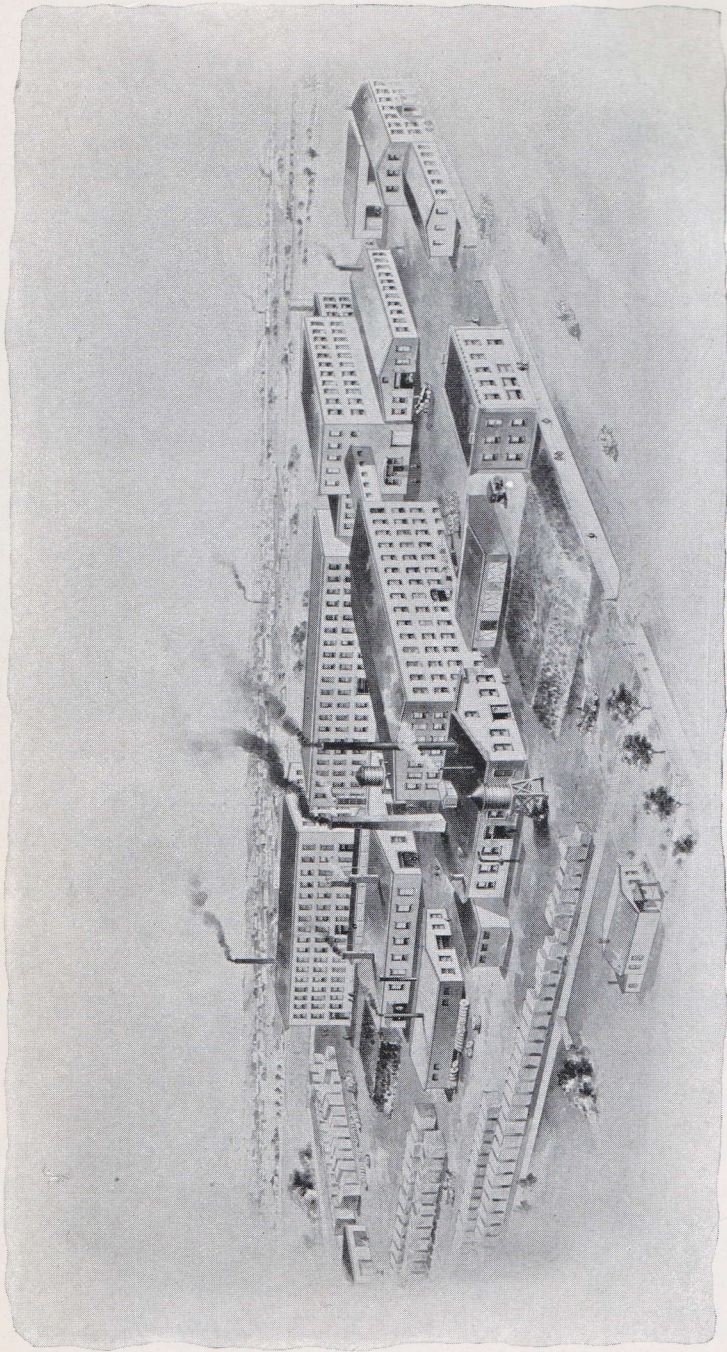


Mill Saw Division, The Ohlen-Bishop Company, Columbus, Ohio.



WE SELL NOT ONLY SAWS—BUT

MASTER SAW MAKERS SINCE 1852



Hardware Division, The Ohlen-Bishop Company, Lawrenceburg, Indiana.

HARDWARE CATALOG FURNISHED ON REQUEST.

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

IN issuing this catalog it has been our aim to compile a reference book; replete with information pertaining to our line of Saws, Knives and Files. We have endeavored to describe and illustrate standard sizes only, and in doing so have removed all uncertainty and doubt as to which sizes and kinds have been most satisfactory to the majority of the trade.

We sell not only Saws, but Saw Service and Satisfaction and have, in this book, given to our customers the experience of Master Saw Makers to aid them in securing the greatest efficiency in sawing and planing good lumber. We invite attention to our simplified price list eliminating uncertainty and unnecessary work for customers.

Our constant aim is to continue improving our Products and maintain the reputation of—"STANDARD OF PERFECTION." Although we appreciate the importance of attractive appearance as is evidenced by our Products, our main thought is of QUALITY. Because of this fact we have upheld an enviable reputation as Master Saw Makers for over seventy-five years and are maintaining this reputation by adopting new and up-to-date methods from time to time.

Sincerely,

THE OHLEN-BISHOP COMPANY



WE SELL NOT ONLY SAWS—BUT

Seventy-Five Years of Fine Saw Making

Ohlen-Bishop Reputation

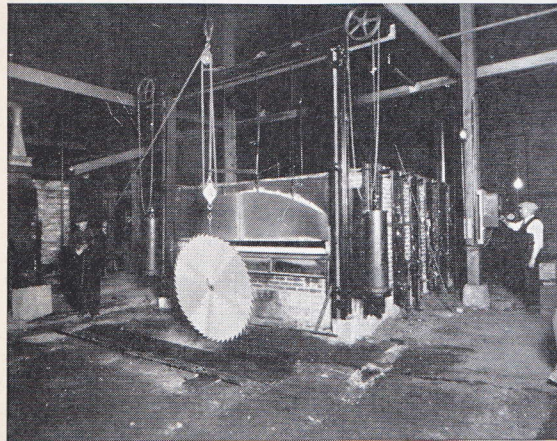
For more than seventy-five years OHLEN-BISHOP SAWS for wood and metal cutting have been recognized as standard in the saw line. Made in the world's most modern Saw Plants they represent the last word in

Saw Efficiency. KNIVES AND FILES

Under the most severe tests, and in competition OHLEN-BISHOP SAWS, have met every demand made upon them.

Ohlen-Bishop Steel

It is fundamental, or should be, in the saw business that only first quality steels should form the base of the product. OHLEN-BISHOP SAWS



Hardening Furnace

are manufactured out of extra refined OHLEN CHROME NICKEL ALLOY and the equally famous GREYHOUND REFINED STEELS, made after time-tested formulas prepared in our Engineering Department for our exclusive use. We know this to be the best steel made for saw purposes and take genuine pleasure in recommending it to the trade. Our furnaces and heat-treating apparatus, being electrically equipped and controlled, assure both uniformity and accuracy. From more than seventy-five years' experience in the Saw business we maintain that OHLEN CHROME NICKEL ALLOY and GREYHOUND REFINED STEELS have no superior in point of temper, tensioning quality or toughness.

Ohlen-Bishop Workmen

OHLEN-BISHOP SAWS are the product of Master Saw Makers. In every department of the OHLEN-BISHOP Plants may be found a corps of experts who have spent the greater part of their lives in the saw

industry. These master workmen were selected because of their ability to meet the most exacting requirements of discriminating Saw users. Rule One of the OHLEN-BISHOP shop code is that QUALITY, not QUANTITY, must govern the out-put.

Ohlen-Bishop Equipment

The superiority of OHLEN-BISHOP SAWS, KNIVES and FILES is not dependent upon human skill alone, however, for every producing department is fully equipped with automatic machinery, electrical devices,

and, in fact, every worth-while facility known to modern Saw Makers.

Ohlen-Bishop Mill Line

The OHLEN-BISHOP Mill line, manufactured at our Columbus, Ohio Plant, includes:

Solid Circular Saws
Inserted Tooth Circular Saws
Teeth for Inserted Tooth Saws
Shanks
Cross Cut Saws One and Two-man
Gang Saws

Ice Saws
Concave Saws
Edger Saws
Horn and Ivory Saws
Narrow Wood Band Saws
Wide Wood Band Saws

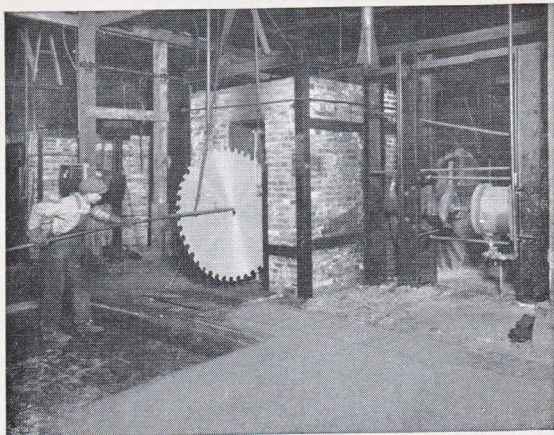
SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Drag Saws
 Pit Saws
 Mitre Saws
 Novelty Saws
 Ohlen-Burke Patent Groover or Dado head

Machine Knives
 Hard Edge Metal Band Saws
 All Hard Metal Band Saws
 Hard Edge Hack Saws
 Power Hack Saws
 Files



Flattening and Tempering Furnace

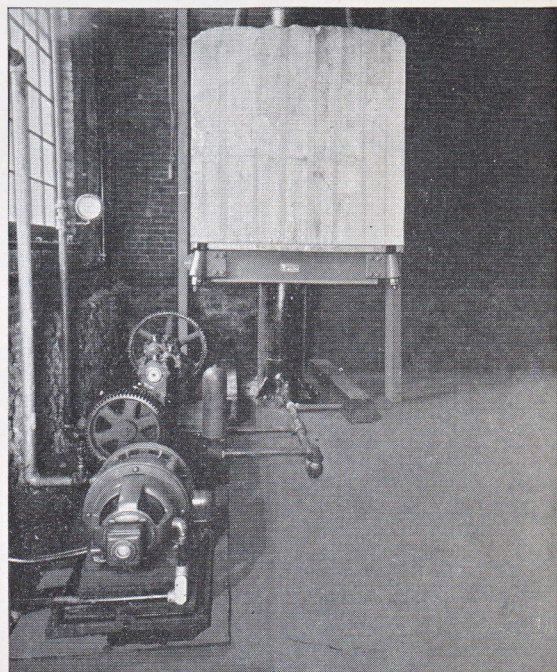
Ohlen-Bishop Hand Saws Ohlen-Bishop Hand Saws are supreme from every viewpoint and have proved the OHLEN-BISHOP claim to mastery of the art of saw making. No others compare with them in point of appearance, easy cutting, speed, durability or correctness of design. Manufactured out of the famous GREYHOUND REFINED STEEL their superiority is universally recognized. In open competition with the world's best known brands "B I S H O P" and "GREYHOUND" Saws, Tools, Trowels and Scrapers have always taken the lead.

Ohlen-Bishop Hardware Line The OHLEN-BISHOP HARDWARE Line, made at our Lawrenceburg, Indiana Plant, includes:

- Hand Saws
- Compass Saws
- Kitchen Saws
- Back and Stair Saws
- Butcher Saws
- Wood Saws and Frames
- Pruning Saws
- Trowels
- Scrapers
- Corn Knives
- Hedge Knives
- Cane Knives

Making Ohlen-Bishop Quality Saws The extreme accuracy of quality control we have in the inspection of materials is carried out in the heat treatment of Ohlen saws.

In this, as in every other phase of saw making, the individual skill of trained men must be supplemented with expen-



Pressure Accumulator

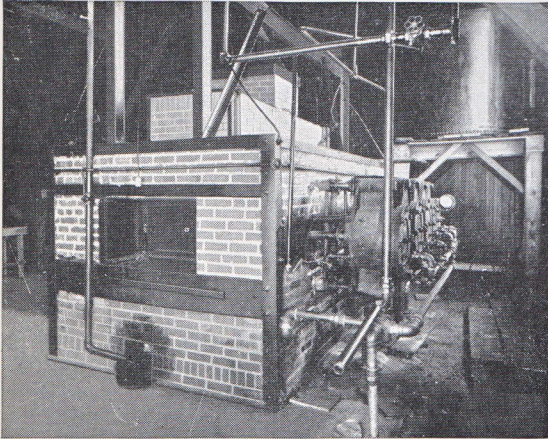


WE SELL NOT ONLY SAWS—BUT

MASTER SAW MAKERS SINCE 1852

sive equipment, which only an organization with ample resources and operating on a large production basis could economically afford.

As every experienced saw filer knows, the cutting and edge holding qualities of a saw depend on its hardening and tempering as much as on the steel analysis. These processes must be accurately and uniformly controlled to an extent which can be only secured by close and precise knowledge of just what is taking place during each moment of the processing.



Flattening and Tempering Furnace

For example, steel undergoes structural or molecular changes at certain temperatures, called transformation points. On the rising temperatures, these are called decalescence points; on falling temperatures, recalescence points. If the steel is quenched at a temperature just above the highest point of decalescence, it will have the finest grain.

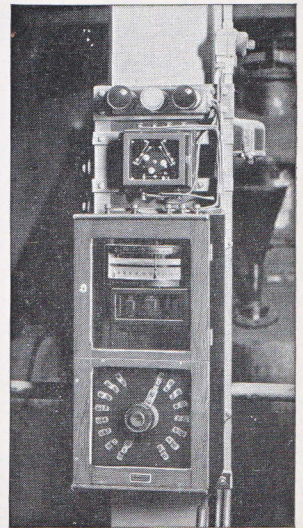
Obviously the small saw maker, without proper furnaces and precision instruments, is guessing at his work. Occasionally he may pass exactly right at each step in the many processes, and turn out a perfect product. But his production cannot be uniformly dependable.

The Hardening Furnace So that guess work will be replaced with scientific accuracy in the important process of heat treatment, we have installed in our plant the best hardening furnace money can buy or present scientific knowledge can devise.

It is the largest saw hardening furnace in the world heated by oil and gas, and the temperature is automatically controlled by electrical pyrometers of the latest design, used only by The Ohlen-Bishop Company, which through a system of colored signaling lights, holds the temperature to within a variation of less than 10 degrees F. This temperature control of heat treatment is one of the phases of production which makes it possible for the Ohlen-Bishop Company to warrant their products **unequaled for fast cutting, toughness, uniformity and edge holding quality.**

Flattening And Tempering Constancy and uniformity of pressures during the heating are equally as essential as constancy and uniformity of heat treating. The tempering furnace is therefore equipped with an automatically controlled hydraulic press with a pressure capacity of 500 pounds per square inch.

To furnish this extreme pressure steadily and with uniform constancy over the entire surface of the saw blank, and to



Pyrometer Control

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

control the degree of pressure applied, an accumulator is used. This accumulator is a reservoir of power from which the high pressure can be instantly drawn under perfect control.

It consists of a vertical cylinder fitted with a weighted ram. Water is pumped into the cylinder, causing the weighted ram to rise. The great weight on the confined water produces the required pressure per square inch which is transmitted under control to each press ram. The heat of the furnace during the process of flattening is pyrometer controlled as in the case of the hardening furnace.

After heat treating in the hardening furnace, the saw blanks are placed in the flattening furnace between the faces of the press. The heat is brought up to the point determined in the laboratory based on the steel analysis and purpose for which the saw is to be used, and an exactly controlled pressure applied for the correct period of time.

The Ohlen-Bishop method of tempering insures lasting tension and much of the expense of rehammering and refitting is saved. Because of this fact, Ohlen-Bishop saws have been found to be far superior to all others where a heavy feed is desired and stand up where other saws fail.

There are four of these flattening furnaces, two for circular saws, one for cross cut saws and one for hand saws, alike in principle and operation, but slightly different in design to accommodate the different shape of the saws. Each of these furnaces is operated under the close observation of men thoroughly experienced in heat-treating and, working with scientifically exact formulae and equipment, they are able to produce a superior product of unvarying uniformity and quality.

This is another phase together with the Ohlen-Bishop special analysis Chrome Nickel Alloy Steel that makes possible the warranty for unequalled fast cutting, toughness, uniformity and edge-holding quality.

Finishing The Saw The saw blank is now ready for grinding and finishing. In these departments the same accuracy and uniformity of operation is maintained as has been described in the steps of material selection and heat treatment.

As we have shown in this brief survey of the making of Ohlen quality saws, no detail of manufacture, no matter how trivial, is left to guess. Every operation is done with scientific certainty, based not only on the sound experience of years of specialization in saw making, but also on the proved results of laboratory research.

Double-Checked Quality Add to these seventy-five years "of knowing how" the advantages of the most modern saw making equipment, highly developed materials, accurate control of each step in production, and the ability and willingness to utilize money, materials, machines and men to fullest advantage, and you have some idea of the unusual combination of personal skill and industrial organization that make Ohlen-Bishop saws without a peer anywhere in the world.

This knowledge, experience and skill is checked and double-checked throughout the course of production by close and frequent inspections. One single supreme objective is continually in the minds of every man in the Ohlen factory—the production of the finest, most perfectly balanced, fastest cutting, and longest wearing saw that human skill can create.



WE SELL NOT ONLY SAWS—BUT

Warranty. All Saws, Knives and Files, manufactured by The Ohlen-Bishop Company are warranted to be free from any defects in material or workmanship. If any defect is found the article must be returned to us within thirty days after receipt. Returned articles will be carefully inspected and if found defective will be repaired free of charge or a new article given in replacement.

Orders. We reserve the right to decline any orders received through our salesmen, agents or by mail. If orders are declined parties will be notified immediately.

Quotations, and Prices are made for immediate acceptance and are subject to change without notice. The right is reserved to correct stenographic errors in invoices or quotations.

Terms are two percent ten days or thirty days net to firms with satisfactory rating in Duns or Bradstreets, or who can furnish bank and commercial references. Otherwise goods will be shipped C. O. D. in accordance with our established custom.

All Prices are F.O.B. factory and shipments are made at purchasers' risk. In order to avoid delays in delivery, definite routing instructions should be given with each order.

Shipments should be checked on arrival and errors or shortages reported promptly.

Accounts not paid in thirty days are subject to sight draft.



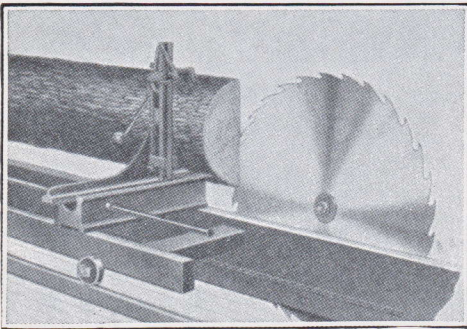
THE OHLEN-BISHOP COMPANY

When Ordering Circular Board Saws the Following Information Should be Given in Detail

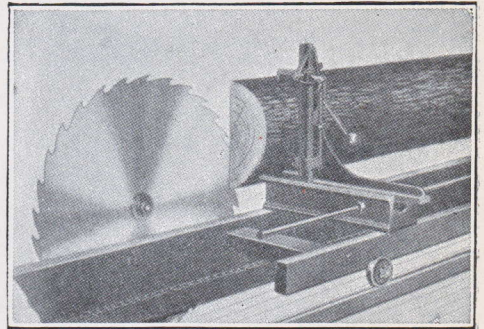
Number and Kind of Saws Wanted
Diameter in Inches
Hand—Right or Left
Gauge or Thickness—At Center
Gauge or Thickness—at Rim
Number and Style of Teeth
Size of Mandrel and Pin Holes

Center to Center Distance of
Pin Holes
Revolutions Per Minute in Cut
Greatest Feed in Inches per
Revolution
Kind of Timber to be Sawed
Horsepower of Engine or Motor

To determine the hand of a Circular Saw stand in front of the Saw, that is, with the Saw revolving toward you. When the log passes to the right of the Saw it is a right hand Saw. When the log passes to the left of the Saw it is a left hand Saw. See illustration below.



Right Hand



Left Hand



WE SELL NOT ONLY SAWS—BUT

Gauges (*Thickness*) of Saws

The Fractional, Decimal and Metric Equivalents of gauges shown in the various lists in this Catalogue, are given in the following table. This table is based on the Birmingham or Stubbs Gauge which is generally used in the saw industry.

Wire Gauge Number	Fractional Part of an inch	Decimals of an inch	Millimeters
1	5-16 Scant	.300	7.62
2	9-32	.284	7.21
3	1- 4 Full	.259	6.57
4	15-64	.238	6.04
5	7-32	.220	5.59
6	13-64	.203	5.18
7	3-16 Scant	.180	4.57
8	5-32 Full	.165	4.19
9	5-32 Scant	.148	3.76
10	1- 8 Full	.134	3.40
11	1- 8 Scant	.120	3.05
12	7-64	.109	2.77
13	3-32	.095	2.41
14	5-64 Full	.083	2.10
15	5-64 Scant	.072	1.82
16	1-16 Full	.065	1.65
17	1-16 Scant	.058	1.47
18	3-64	.049	1.24
19	.....	.042	1.06
20	.....	.035	.89
21	1-32	.032	.81
22	.....	.028	.71
23	.....	.025	.64
24	.....	.022	.56
25	.....	.020	.51
26	.....	.018	.46
27	1-64	.016	.41
28	.....	.014	.36
29	.....	.013	.33
30	.....	.012	.30

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Standard Number of Teeth and Average Speed of Solid Tooth Circular Saws

Diameter Inches	Revolutions Per Minute	Number of Teeth		Diameter Inches	Revolutions Per Minute	Number of Teeth	
		Rip	Cut Off			Rip	Cut Off
8	4600	36-40	100	40	980	36	80
10	3920	30-36	90-100-120	44	890	44	80
12	3260	30-36	90-100-150	48	795	36-48	90
16	2450	30-36	80-90-100-120	52	765	40-60	90
20	1960	30-36	80	56	680	40-56-80	90
24	1630	30-36	72	60	635	60-80-90	120
28	1400	36	72	64	600	60	120
32	1225	36	72	68	560	60	120
36	1080	36	80	72	530	90	120

The Speeds given in above Table are based on a Rim Speed of 10,000 Feet per Minute.

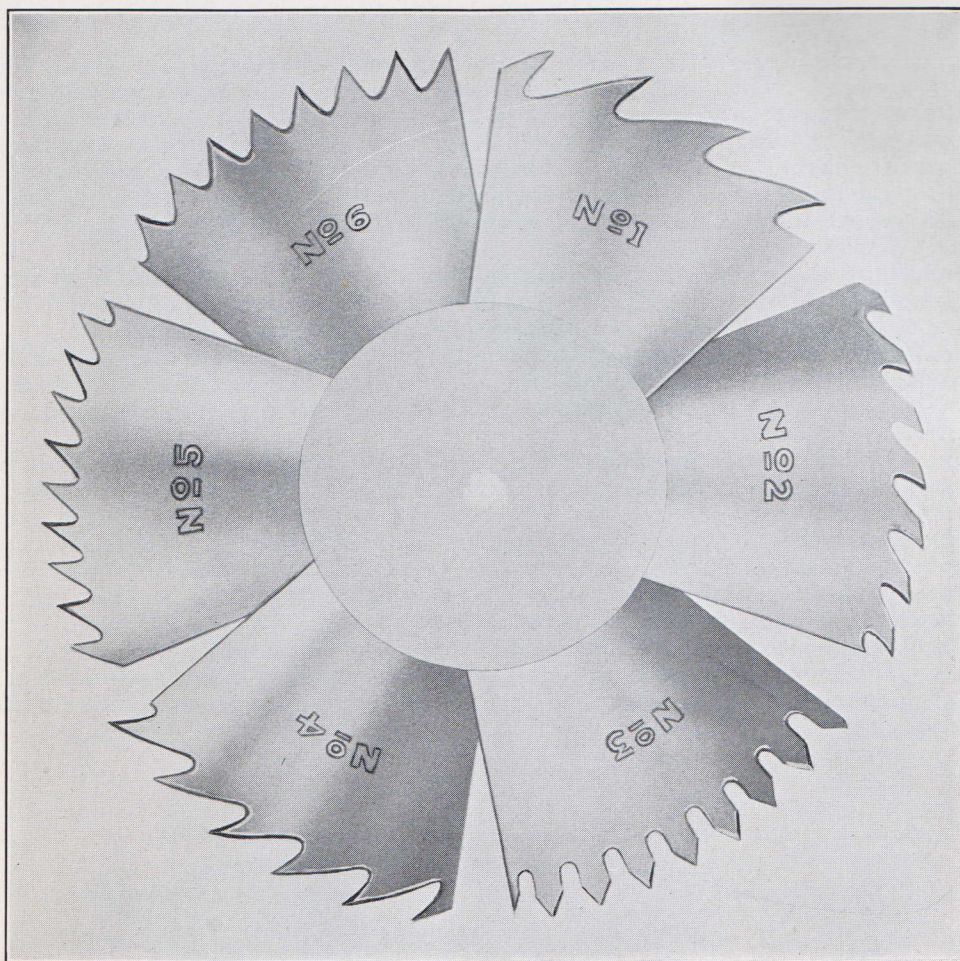
Revolutions per Minute and Number of Teeth Recommended For Large Circular Saws

Diameter Inches	Kind of Saw	Feed Per Rev.	Rim Speed Ft. Per Min.	Rev. Per Min.	Number of Teeth
48	Splitting	4 in. to 6 in.	10,000	795	48
48	Splitting	4 in. and less	8,000	640	36
48	Cut Off				90
50	Splitting	4 in. to 6 in.	10,000	765	54
50	Splitting	Over 6 in.	12,000	915	80
50	Splitting	4 in. and less	8,000	610	40
50	Cut Off				100
52	Splitting	Over 6 in.	12,000	890	90
52	Splitting	4 in. and less	8,000	585	40
52	Splitting	4 in. to 6 in.	10,000	735	60
52	Cut Off				90
54	Splitting	Over 6 in.	12,000	850	90
54	Splitting	4 in. and less	8,000	565	40
54	Splitting	4 in. to 6 in.	10,000	705	54
54	Cut Off				90
56	Splitting	Over 6 in.	12,000	820	90
56	Splitting	4 in. and less	8,000	545	40
56	Splitting	4 in. to 6 in.	10,000	680	56
56	Cut Off				90
60	Splitting	Over 6 in.	12,000	765	80-90
60	Splitting	4 in. to 6 in.	10,000	635	60
60	Cut Off				120
62	Splitting	Over 6 in.	12,000	740	90
66	Cut Off			695	120
72	Splitting	Over 6 in.	12,000		90
72	Cut Off				120



WE SELL NOT ONLY SAWS—BUT

Standard Styles of Teeth for Circular Saws



Only a few of the numerous patterns of Solid Circular Saw Teeth are illustrated above. Orders should specify the style of Tooth desired by referring to numbers shown above.

Style of Tooth Furnished Unless Otherwise Specified

Rip Saws under 38 inches.....	No. 4
Rip Saws 38 inches and over.....	No. 1
Cut Off Saws under 36 inches.....	No. 5
Trimmer and Slasher Saws.....	No. 6

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Solid Tooth Circular Saws

AS maximum production requires heavy feed and is a severe strain on Circular Saws, all experienced mill men realize the importance of toughness and edge-holding qualities when sawing good lumber.

All Ohlen-Bishop Solid Tooth Circular Saws are made of a Special High Grade Chrome Nickel Alloy Steel. This steel is of a special analysis prepared for our exclusive use. This insures lasting tension and, consequently, much of the expense of re-hammering and re-fitting is saved. Ohlen-Bishop Solid Tooth Saws have been found to be far superior to all others where a heavy feed is desired. This fact shows that Ohlen-Bishop Solid Tooth Saws, because of the toughness and lasting tension in the plate, stand up where other Saws fail. Furthermore, we use but one grade of steel, CHROME NICKEL ALLOY, in OHLEN-BISHOP Circular Saws.

Because of the severe strain of swaging or spreading hardened steel, Saws carrying swaged teeth should not be made of the steel ordinarily used in spring set saws. To prevent splitting of teeth and the losing of corners requires the addition of NICKEL.

To further increase their toughness and edge-holding qualities, OHLEN-BISHOP have added **Chrome**, which is the most active element known in causing steels to respond to heat treatment and give the greatest depth of hardness with a minimum danger of cracking.

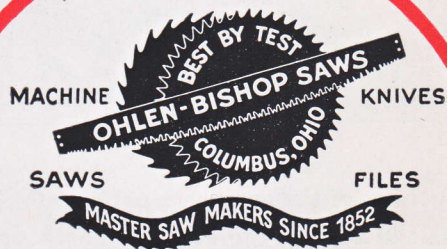
The added advantage in using OHLEN-BISHOP CIRCULAR SAWS is that we use but one quality steel, CHROME NICKEL ALLOY, in all our Circular Saws, which can be either swaged or set.

The workmanship on Ohlen-Bishop products is of the highest grade as is evidenced by our reputation maintained for over seventy-five years as "Master Saw Makers."

Our equipment is designed to satisfy the exacting needs of mill men who realize the importance of having Saws made correctly.

Our furnaces are electrically controlled by pyrometers of latest design. Our flatteners are all under uniform pressure at all times as they are governed by an Accumulator. Because of these features our Saws are manufactured under constant pressure and temperature—necessary essentials in a Quality Saw.

This is a strong guarantee, but we back it up with our reputation as Master Saw Makers since 1852.



CHROME NICKEL ALLOY STEEL
WARRANTED UNEQUALED
FOR FAST CUTTING,
TOUGHNESS, UNIFORMITY
AND EDGE-HOLDING
QUALITY
MADE IN U. S. A.



WE SELL NOT ONLY SAWS—BUT

MASTER SAW MAKERS SINCE 1852

Simplified Solid Tooth Circular Saw Price List

Uncertainty and unnecessary figuring eliminated.

Heavy Type shows Saws specified by the majority of the trade on which prompt shipment can be made.

Diam.	Ga.	Hole	Splitting			Cut-Off						1 Gauge	Beveled	
			No. of Teeth			No. of Teeth						Beveled	Over	
												No Charge	1 Gauge	
												Price	Per Gauge	
4	19					40							\$3.30	\$.25
5	19					40							3.30	.25
6	18	3/4			36	40							3.30	.25
7	18	3/4			36	40							4.40	.35
8	18	3/4			36	40							4.40	.35
8	16	3/4			36	40							4.50	.35
10	16	1		30	36			90		120			5.60	.45
10	15	1		30	36								5.60	.45
10	14	1		30	36								5.80	.45
10	13	1		30	36								6.00	.45
10	12	1	L24		36								6.20	.45
12	16	1			36								7.00	.55
12	15	1		30	36			90		100		150	7.00	.55
12	14	1		30	36			90		100		150	7.00	.55
12	13	1		30	36		72						7.30	.55
12	12	1	L24	L30	36								7.60	.55
12	11	1		30									7.90	.55
14	15	1 1/8			36								8.50	.65
14	14	1 1/8			36	40		80	90	100	120		8.50	.65
14	13	1 1/8			30	36			90				8.50	.65
14	12	1 1/8	L24		30	36							8.90	.65
14	10	1 1/8			30								9.70	.65
16	14	1 1/8			30	36	40		80	90	100	200	10.50	.75
16	13	1 1/8			30	36			80		100	120	10.50	.75
16	12	1 1/8			30	36							11.00	.75
18	14	1 1/4			36								12.50	.90
18	13	1 1/4			30	36		80	90	100			12.50	.90
18	12	1 1/4			30	36	60		80				12.50	.90
18	10	1 1/4		B	30								13.70	.90
18	9	1 1/4		E30									14.30	.90
20	13	1 1/8			36			80					15.00	1.05
20	12	1 1/8			36			80					15.00	1.05
20	8	1 1/8	E24	B									18.00	1.05
22	12	1 1/8		E30				72					17.50	1.20
24	11	1 3/8			36			72					20.50	1.35
24	10	1 3/8			36			T72					20.50	1.35
24	8	1 3/8		B									22.60	1.35
26	11	1 3/8		E30		36		72					24.00	1.55
26	10	1 3/8						T72					24.00	1.55
26	8	1 3/8		B									26.50	1.55
26	7	1 3/8		E30									27.75	1.55
28	10	1 1/2			36			T72					28.00	1.75
30	10	1 1/2			36			T72					32.00	1.95
30	9	1 1/2						S72					32.00	1.95
32	10	1 5/8			36								36.50	2.15
32	9	1 5/8						T					36.50	2.15
32	8	1 5/8						S72					38.50	2.15
34	9	1 5/8			36			72					41.00	2.35
34	8	1 5/8						S72					41.00	2.35
36	9	1 5/8			36				80				47.00	2.55
36	8	1 5/8							S80				47.00	2.55
38	9	1 5/8			36								54.00	2.75
38	8	1 5/8							S80				54.00	2.75
38	7	1 5/8							S80				57.00	2.75
40	9	2			36								62.00	2.95
40	8	2							80				62.00	2.95
40	7	2							S80				65.40	2.95
40	6	2							S80				68.80	2.95
42	8	2			36								71.00	3.25
42	7	2							S80				71.00	3.25

L—Lath. B—Bolter. E—Edgers. T—Trimmers. S—Slashers.

See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Simplified Solid Tooth Circular Saw Price List—Continued

Dia.	Ga.	Hole	Splitting							Cut-Off				2 Gauges Beveled No Ch'rg	Beveled Over 2 Gauges
			No. of Teeth							No. of Teeth				Price	Per Gauge
44	8	2							80				\$ 83.00	\$3.55	
46	8	2											98.00	3.85	
48	7-8	2			48								112.00	4.15	
48	7	2								90			112.00	4.15	
48	8-9	2	36								100		112.00	4.15	
50	6	2											127.00	4.45	
50	8-9	2			54			80					127.00	4.45	
50	9-10	2		40									127.00	4.45	
52	6	2						90					142.00	4.80	
52	7	2											142.00	4.80	
54	7	2		40			60			90			157.00	5.15	
54	8-9	2		40		54							157.00	5.15	
56	6	2						80	90				180.00	5.50	
56	8-9	2		40			56						180.00	5.50	
58	7	2											200.00	5.95	
60	6	2						80	90			120	224.00	6.40	
60	7-8	2											224.00	6.40	
60	7	2						60					224.00	6.40	
60	8-9	2							80	90			224.00	6.40	
62	6	2											250.00	6.85	
64	6	2											280.00	7.35	
66	6	2											310.00	7.85	
68	5	2											350.00	8.45	
70	5	2											400.00	9.05	
72	5	2											450.00	9.65	
74	5	2							90				510.00	10.30	
76	5	2											575.00	11.00	
78	5	2											690.00	11.85	
80	5	2											810.00	12.90	
82	5	2											940.00	14.10	
84	5	2											1075.00	15.40	

See Discount Sheet

The foregoing list includes practically all gauges required by the trade. To arrive at list prices of special gauge saws not covered by above list, add to the price of standard gauge saws (shown in heavy type) the extra gauge cost as shown by following table.

No extra charge for saws one gauge heavier than standard.

Diameter	Extra for Each Gauge Heavier	Diameter	Extra for Each Gauge Heavier	Diameter	Extra for Each Gauge Heavier	Diameter	Extra for Each Gauge Heavier
6	\$.07	26	\$1.25	46	\$ 5.15	66	\$22.00
8	.10	28	1.50	48	5.90	68	26.40
10	.20	30	1.75	50	6.65	70	30.80
12	.30	32	2.00	52	7.40	72	35.20
14	.40	34	2.25	54	8.80	74	39.60
16	.50	36	2.60	56	10.25	76	44.00
18	.60	38	3.00	58	11.75	78	49.85
20	.75	40	3.40	60	13.25	80	55.75
22	.90	42	3.80	62	14.75	82	63.05
24	1.05	44	4.40	64	17.60	84	70.40



WE SELL NOT ONLY SAWS—BUT

Resawing or Siding Saws

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated.

Figures in Heavy Type show Saws, specified by the majority of the trade on which prompt shipment can be made.

Dia.	Gauge	Collar	Teeth	Price	Dia.	Gauge	Collar	Teeth	Price
16	13-17			\$12.75	28	9-14			\$35.00
16	12-16			13.25	28	8-13			36.50
16	11-15			13.75	30	9-13			37.85
18	12-16	4½	36	15.20	30	9-14			39.80
18	11-15			15.80	30	8-13			41.55
18	12-17			16.10	30	10-14	7½	40	37.85
20	12-16			18.15	32	9-13			42.95
20	11-15			18.90	32	9-14			45.10
20	12-17			19.20	32	8-13			47.10
20	10-14	5	36	19.65	32	10-14	8	50	42.95
22	11-15			21.10	34	9-13			48.05
22	10-14	5½	36	22.00	34	8-13			50.40
22	11-16			22.30	34	8-14	8½	60	52.75
24	10-14	6	36	24.55	36	8-13			57.20
24	9-13			25.60	36	8-14			59.75
24	10-15			25.90	36	7-14			64.90
26	10-14	6½	40	28.65	36	10-15	9	50	57.20
26	9-13			29.90	38	8-12			62.25
26	10-15			30.20	38	8-13			65.00
28	9-13	7	50	33.25	38	7-13			70.75

Figure sizes not listed above same as Solid Circular Saws, adding for gauges heavier than standard and for gauges beveled. No extra charge for one gauge heavier or one gauge beveled.

Solid Tooth Edger Saws

Diameter Inches	List Price				
	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	-----	-----
26	26.50	-----	-----	-----	-----

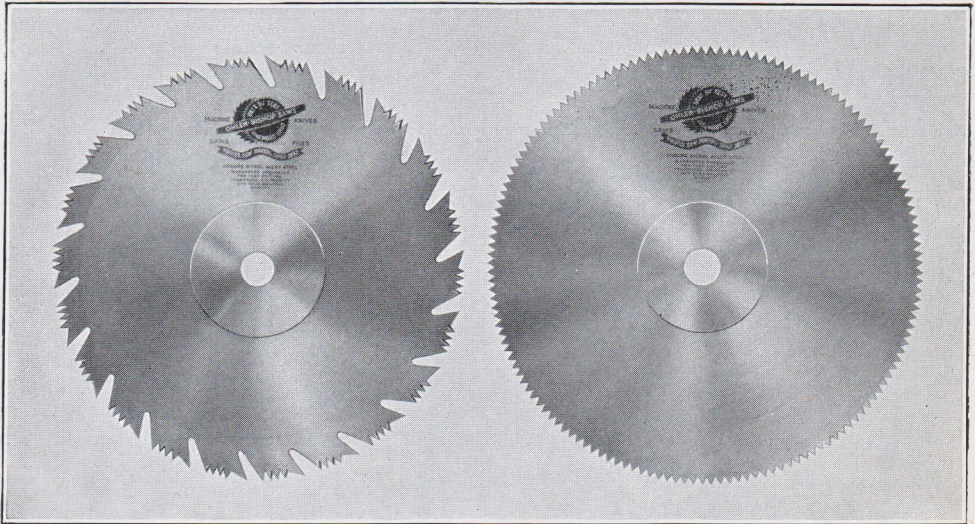
For other sizes of Edger Saws use solid tooth saw price list page 15.

See Discount Sheet

SAW SERVICE AND SATISFACTION

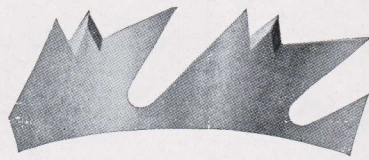


Ohlen-Bishop Mitre and Novelty Saws



Novelty Tooth

Mitre Tooth



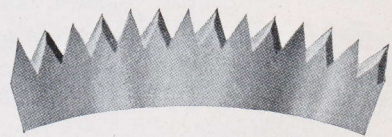
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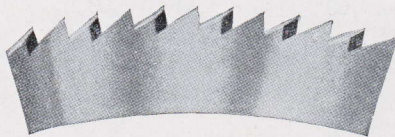
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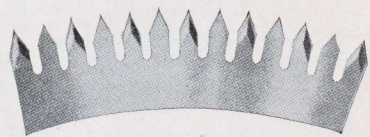
Style "B"



Style "F"



Style "D"



Style "G"

Unless otherwise specified, Style B is furnished on Novelty Saws.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen Bishop Mitre and Novelty Saws

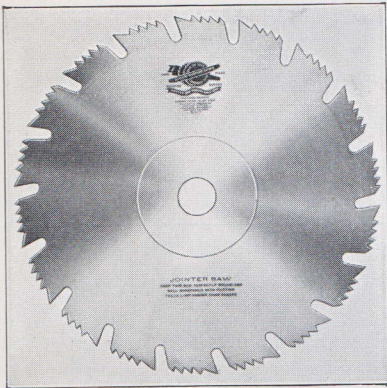
Mitre and novelty saws are recommended for fine work where an extremely smooth cut is desired. They are hollow ground, that is gradually tapered from the tooth edge to the collar and run without set. Their use is not recommended where fast production is required.

Novelty saws are made for both splitting and Cross Cutting.

DIAM.	GAUGE			Size Collar	No. of Teeth Mitre	Style of Teeth Mitre	Style of Teeth Novelty	Price Each	Extra For Each Gauge Heavier	Extra For Each Add. Gauge Concaving
	At Center	At Collar	At Teeth							
6	17	20	17	2½	150	F	B	\$5.40	\$.07	\$.50
8	16	19	16	3¼	150	F	B	6.80	.10	.70
10	15	18	15	3½	150	F	B	8.60	.20	.90
12	14	17	14	4	150	F	B	10.60	.30	1.10
14	13	16	13	4½	200	F	B	12.60	.40	1.30
16	13	16	13	5	200	F	B	14.80	.50	1.50
18	12	15	12	5½	200	F	B	17.40	.60	1.80
20	12	15	12	6	250	F	B	20.60	.75	2.10
22	11	14	11	6½	250	F	B	24.20	.90	2.40
24	11	14	11	7	250	F	B	28.00	1.05	2.70

Above list covers standard saws which are carried in stock and on which prompt shipment can be made.

Ohlen-Bishop Jointer Saw



Diam.	Price	Diam.	Price
6	\$ 5.55	16	\$15.80
8	7.00	18	18.60
10	9.00	20	22.10
12	11.20	22	26.00
14	13.40	24	30.10

Made only with Style "B" Tooth and in standard gauges.

The Ohlen-Bishop Jointer Saw is made to meet the demand for a saw which will stand up in hard or soft

wood under a fast hand feed and which will work equally well as a Splitting, Cross-Cutting or Mitering Saw.

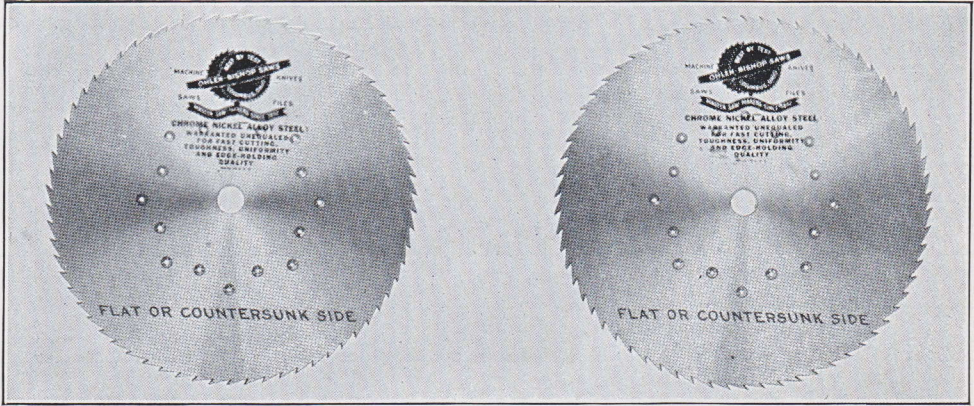
The Jointer saw will give a smooth cut which in the past could be secured only with a novelty or mitre saw, and because of our improved method of grinding can be used for many different kinds of work.

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Shingle and Heading Saws



Left Hand

Right Hand

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated

Figures in Heavy Type show Saws, specified by the majority of the trade on which prompt shipment can be made.

Diam.	Gauge	Teeth	Price	Diam.	Gauge	Teeth	Price
36	9-17	90	\$62.00	44	9-17		\$113.55
38	9-16	60	70.00	46	8-17	60	128.85
38	9-16	100	70.00	48	8-16		145.00
38	9-17	60	70.00	50	7-15		170.00
40	8-17	60	82.95	52	7-15		200.00
40	9-17		80.00	54	7-15		230.00
42	8-17	60	98.25	56	7-15		260.00
42	9-17		95.00	58	7-15		290.00
44	8-17	60	110.00	60	6-14		320.00

Fitting old Flanges to Saws—\$8.00 each.

Bevel starts 2 inches outside pinholes unless otherwise specified.

For Saws beveled more than eight gauges and thicker at center than shown above add for extra gauges and extra beveling same differentials as shown on pages 15, 16 for Solid Circular Saws.

Be sure to give diameter, gauge at center and at rim, number of teeth, hand, speed, and maker of machine when ordering Shingle or Heading Saws.

Send us sample screw and template of flange to guide us in drilling and countersinking holes.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

A Few Hints on the Proper Care of Shingle Saws

TO secure maximum production and high uniform quality of shingles requires a Saw that will hold its cutting edge and tension without the necessity of too frequent hammering and fitting.

Ohlen-Bishop Chrome Nickel Steel Shingle Saws meet these requirements in a highly satisfactory manner. The high percentage of Chrome and Nickel in the Steel from which our Shingle Saws are made insures lasting tension and edge-holding qualities.

The successful operation of a Shingle Saw depends, to a great extent, on the proper care of the Saw. Frequent inspection should be made of the Saw Arbors and Flanges which can very easily cause the Saw to be out of true—consequently, making the production of smooth shingles impossible.

Shingle Saw Teeth must be kept sharp, of uniform shape, and equally distant. The Saw as it comes from the factory has the proper tooth, spacing and hook and should not be changed. Either too much or not enough hook will affect the running of the Saw and the quality of the shingles.

The use of automatic machines for sharpening Shingle Saws is highly recommended. These machines keep the tooth space and hook of the tooth uniform and also keep the Saw in a perfectly round shape. If these points are carefully watched in running and caring for Shingle Saws very little trouble will result and the product will be uniformly good.

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Slate Saws

Unground

Diameter	Thickness		Price	Extra for each $\frac{1}{32}$ Heavier
	Gauge	Inches		
36	4	$1\frac{5}{64}$	\$26.00	\$2.30
38	4	$1\frac{5}{64}$	29.00	2.55
40	4	$1\frac{5}{64}$	32.00	2.85
42	3	$1\frac{7}{64}$	38.00	3.15
44	3	$1\frac{7}{64}$	40.00	3.45
46	3	$1\frac{7}{64}$	42.00	3.75
48	2	$\frac{9}{32}$	47.00	4.10
36	0	$\frac{11}{32}$	34.00	
38	0	$\frac{11}{32}$	38.00	
40	0	$\frac{11}{32}$	42.00	
42	0	$\frac{11}{32}$	45.00	
44	0	$\frac{11}{32}$	49.00	
46	0	$\frac{11}{32}$	53.00	
48	0	$\frac{11}{32}$	57.00	
36	00	$\frac{3}{8}$	37.00	
38	00	$\frac{3}{8}$	41.00	
40	00	$\frac{3}{8}$	45.00	
42	00	$\frac{3}{8}$	49.00	
44	00	$\frac{3}{8}$	53.00	
46	00	$\frac{3}{8}$	57.00	
48	00	$\frac{3}{8}$	61.00	



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Slate Saws

Hollow Ground

Diameter	Thickness		Price	Extra for each gauge heavier
	Gauge	Inches		
14	10	$\frac{1}{8}$	\$ 7.00	\$.35
16	10	$\frac{1}{8}$	8.50	.40
18	9	$\frac{5}{32}$	10.50	.50
20	8	$\frac{11}{64}$	13.50	.65
22	7	$\frac{3}{16}$	16.00	.80
24	6	$\frac{13}{64}$	20.00	1.00
26	6	$\frac{13}{64}$	23.00	1.20

Straight Ground

Diameter	Thickness		Price	Extra for each gauge heavier
	Gauge	Inches		
14	10	$\frac{1}{8}$	\$ 4.50	\$.25
16	10	$\frac{1}{8}$	5.00	.30
18	9	$\frac{5}{32}$	6.50	.35
20	8	$\frac{11}{64}$	8.00	.40
22	7	$\frac{3}{16}$	10.00	.50
24	6	$\frac{13}{64}$	12.00	.60
26	6	$\frac{13}{64}$	14.00	.75
28	5	$\frac{7}{32}$	16.00	.90
30	5	$\frac{7}{32}$	19.00	1.10
32	5	$\frac{7}{32}$	22.00	1.25
34	5	$\frac{7}{32}$	25.00	1.40

See Discount Sheet

SAW SERVICE AND SATISFACTION

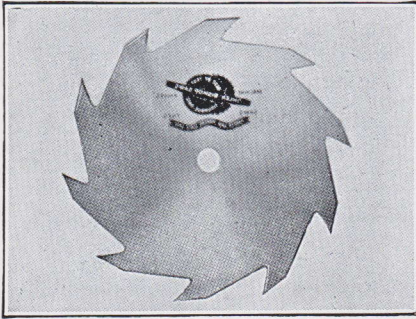


THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Lathe Saws

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

All Lathe Saws less than 8 inches in diameter take list of 8 inch saw.



SOLID TOOTH GROOVING SAWS

Diam. Inch	No. of Teeth	Thickness								
		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
4	5	\$ 3.60	\$ 3.80	\$ 6.20	\$ 7.00	\$ 8.00	\$ 8.80	\$ 9.60	\$14.00	\$14.60
5	6	4.20	4.40	7.20	8.00	9.20	10.20	11.20	16.80	17.80
6	8	5.20	5.40	8.20	9.20	10.40	11.60	12.80	19.60	21.00
7	8	6.00	6.40	9.20	10.40	11.60	13.00	14.40	22.80	23.60
8	10	6.80	7.40	10.20	11.60	13.20	14.80	16.40	26.00	27.00
9	10	7.40	8.40	11.40	13.00	14.80	16.60	18.40	29.20	31.00
10	10	8.20	9.40	12.60	14.40	16.40	18.40	20.40	33.40	35.00
11	11	10.60	11.80	14.00	16.80	18.80	21.00	22.40	36.60	39.00
12	12	11.60	12.80	15.40	19.20	21.40	23.60	24.80	39.80	43.00
14	14	13.80	15.40	17.80	22.20	26.00	28.20	29.80	45.00	49.80
16	16	15.40	18.40	21.20	26.00	30.60	33.40	35.60	53.00	59.00

All Grooving Saws under 4 inches in diameter take 4 inch list.

Beveled Grooving Saws, add 10 per cent to above prices.

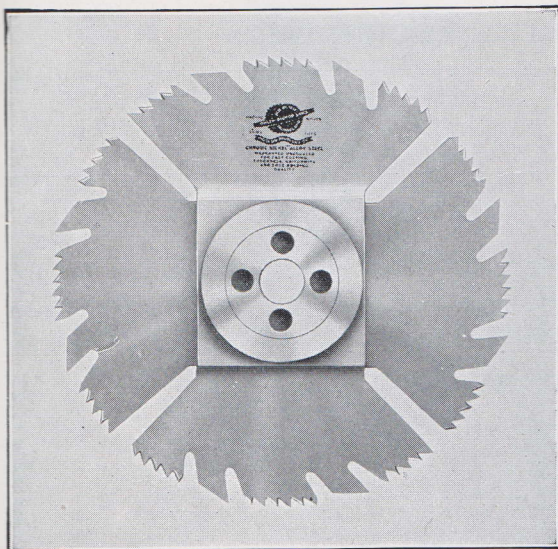
Grooving Saws with teeth shaped and backed off, add 50 per cent to above prices.

Special Grooving Saws made to order, special prices.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

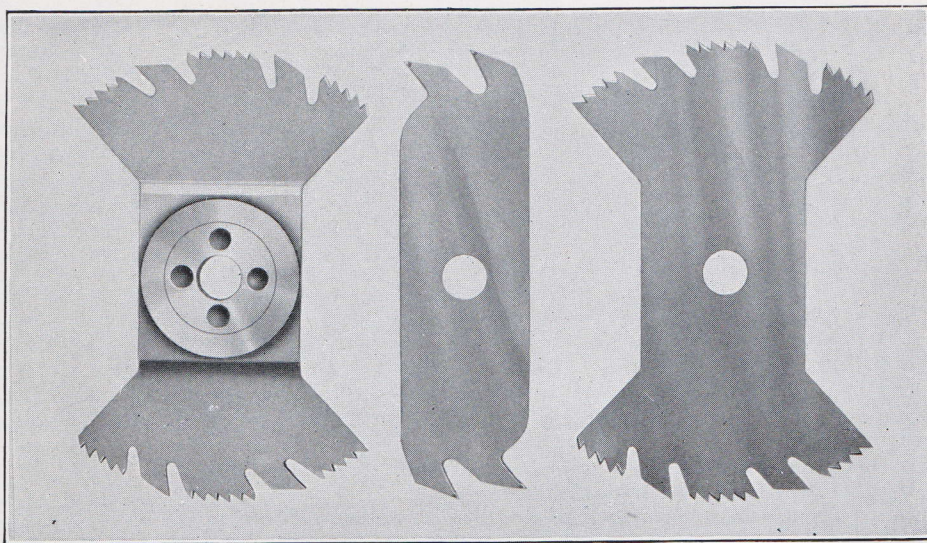


Simple and Practical

Ohlen Burke Patented Adjustable Groover or Dado Head

This Groover of Exceptional Merit has two side saws with cross cutting teeth and ripping teeth so that it will cut with or across the grain with perfect smoothness. Each set consists of two outside saws, and two or more inside saws. Outside saws on all sets are $\frac{1}{8}$ " thick.

The adjustment consists of outside saws with off-set and threaded bushing. By turning the bushing one way or the other, up to one-eighth inch variations may be obtained without adding or removing any inside saws. Any width groove from $\frac{1}{8}$ to 2 inches or more can be made by adding inside saws and varied by the minutest fraction of an inch without the use of paper or other filling.



Outside Saws

Inside Saws

Outside Saws

PRICE LIST OF COMPLETE SETS					PRICE LIST OF SEPARATE PARTS				SPECIFICATIONS			
Diam. Inches	Set No. 1	Set No. 2	Set No. 3	Set No. 4	Outside Saw with Collar	Outside Saw without Collar	Inside Cutter $\frac{1}{8}$ " thick	Inside Cutter $\frac{1}{4}$ " thick	Set No.	Variation of Grooves	Number of Cutters	
											$\frac{1}{8}$ "	$\frac{1}{4}$ "
8	\$30.00	\$33.30	\$39.90	\$46.50	\$16.20	\$ 8.00	\$2.50	\$3.30	1	$\frac{1}{8}$ to $\frac{3}{4}$ "	1	1
9	32.30	35.80	42.80	49.80	17.15	8.95	2.70	3.50	2	$\frac{1}{8}$ to 1"	1	2
10	35.75	39.50	47.00	54.50	18.65	10.45	2.90	3.75	3	$\frac{1}{8}$ to 1 $\frac{1}{2}$ "	1	4
12	44.00	48.40	57.20	66.00	22.25	14.05	3.30	4.40	4	$\frac{1}{8}$ to 2"	1	6
14	53.30	58.75	69.65	80.55	26.15	17.95	3.75	5.45				
16	62.80	69.50	82.90	96.30	30.05	21.85	4.20	6.70				

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Price List for Repairing Circular Saws

Diameter	Hammer	Gum and Hammer	Cut Down Retooth and Hammer	Grinding		Set and Sharpen	
				First Gauge	Each Additional Gauge	Cut-off	Rip
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 inches take 6 inch price.

Saws of odd diameter, take the price of next larger size.

When saw is ground, add price of hammering to price of grinding. Gumming and retooling prices cover sizes of saws after they have been repaired. All breakages of risk of owner.

Burned Saws. We repair burned saws at two-thirds price of new ones, which includes retempering, grinding, hammering, polishing, etc.

Changing Solid Saws to Inserted Tooth Saws, or cutting down Inserted Tooth Saws, price is \$2.00 per tooth plus one-half the list price of Solid Tooth Saws of same size, this price being based on size the saw will cut to, and subject to same discount as Inserted Tooth Saws. Same extras furnished as with a new saw.

Repairing Burned Inserted Tooth Saws, two-thirds the price of a new Solid Tooth Saw of the same diameter, plus 30 cents per tooth. Add for any points and shanks inserted at regular prices. No extras furnished.

Shingle and other thin bevel saws generally will not permit being retempered.

All repairs are at risk of owner, but no charge will be made in case of failure.

Owner's name should appear on each package or board to insure identification at the factory.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Repairing Shingle and Heading Saws

When Hammered only use regular repair list.

Grinding and Hammering		
34 to 38" inc.....		\$ 6.50 each
Over 38 to 42" ".....		7.50 "
" 42 to 46" ".....		10.50 "
" 46 to 50" ".....		13.00 "
" 50 to 54" ".....		16.00 "
" 54 to 60" ".....		19.50 "

All Shingle or Heading Saws sent in to be reground will be hammered and charge made accordingly.
Re-drilling old Shingle Saws to fit other collars \$5.00.

Repairing Inserted Tooth Saws

Brazing 1 point or section.....	\$ 5.75 each
Brazing 2 points or sections.....	5.00 "
Brazing 3 points or sections.....	4.50 "
Brazing 4 or more points or sections charge at rate of.....	\$2.50 per hour

Repairing Long Saws

MILL MULAY AND EQUAL WIDTH DRAG SAWS

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

TAPER DRAG SAWS

Re-toothng, hammering and filing.....	each	\$3.00
Hammering only.....	each	1.50
Setting and sharpening only.....	each	1.50
Re-toothng 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-toothng, 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 foot for each inch in width	.07½
Gumming and toothng.....	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 in to 1¼ inch.....	per braze	1.35
Brazing 1⅜ inch to 1½ inch.....	per braze	1.80
Brazing 1¾ inch.....	per braze	2.05

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Inserted Tooth Saws



Ohlen-Bishop Inserted Saws are made of the same high grade Chrome Nickel Alloy Steel as our Solid Tooth Saws. This insures lasting tension and, consequently, much of the expense of re-hammering and re-fitting is saved. Our Inserted Tooth Saws have been found to be far superior to all others where a heavy feed is desired. This fact shows that Ohlen-Bishop Inserted Saws, because of the toughness and lasting tension in the plate, together with our accurately tempered teeth, must stand up where other saws fail.

We manufacture all the standard style teeth. All of our teeth are accurately made, insuring the user of a perfect fitting joint. Our machinery for milling the "V" in teeth is especially designed for accuracy and quality.

Special attention is called to our double shoulder Saws Nos. 77 and 22, illustrated on the following pages. Because of their double support these Saws are very popular where a Saw is required to work under great strain.



WE SELL NOT ONLY SAWS—BUT

MASTER SAW MAKERS SINCE 1852

Simplified Inserted Tooth Saw Price List

Uncertainty and unnecessary figuring eliminated

Heavy Type shows saws which the majority of the trade specify on which prompt shipment can be made.
Style 2½

Diameter	Gauge	Hole	Standard No. of Teeth	Greatest No. of Teeth	Price
10	12			10	\$27.00
12	11			12	32.00
14	10	1	12	14	37.00
16	10		14	16	43.00
16	9	1		16	43.00
18	10			20	49.00
20	9			22	55.00
22	9			24	61.00
22	7	1	18	24	61.90
22	6	1	18	24	62.80
24	9			26	68.00
24	6	1	20	26	70.10
26	9			28	75.00
26	6	1	20	28	77.50
28	9			30	82.00
30	9			32	90.00
30	6	1	24	32	93.50
30	6	1½	26	32	93.50
32	8			34	100.00
34	8			36	110.00
36	8			38	120.00
36	6	1½	28	38	122.60
38	8			42	130.00
40	8			44	140.00
42	8			46	150.00
44	8			50	165.00
46	8			52	180.00
46	8-9	2	44	52	180.00
48	8			54	200.00
48	7-8	2	46	54	200.00
48	8-9	2	46	54	200.00
48	8-9	2	52	54	200.00
50	8			56	220.00
50	7-8	2	48	56	220.00
50	8-9	2	48	56	220.00
50	8-9	2	50	56	220.00
50	8-9	2	54	56	220.00
50	8-9	2	56	56	220.00
52	7			60	245.00
52	7-8	2	50	60	245.00
52	8-9	2	50	60	245.00
52	8-9	2	56	60	245.00
54	7			62	275.00
54	7-8	2	52	62	275.00
54	8-9	2	52	62	275.00
56	7			64	310.00
56	7-8	2	54	64	310.00
56	4-5	2	52	64	330.50
58	7			66	340.00
60	7			70	375.00
62	6			74	420.00
64	6			76	470.00
66	6			78	520.00
68	6			80	575.00
70	6			82	630.00
72	6			84	685.00

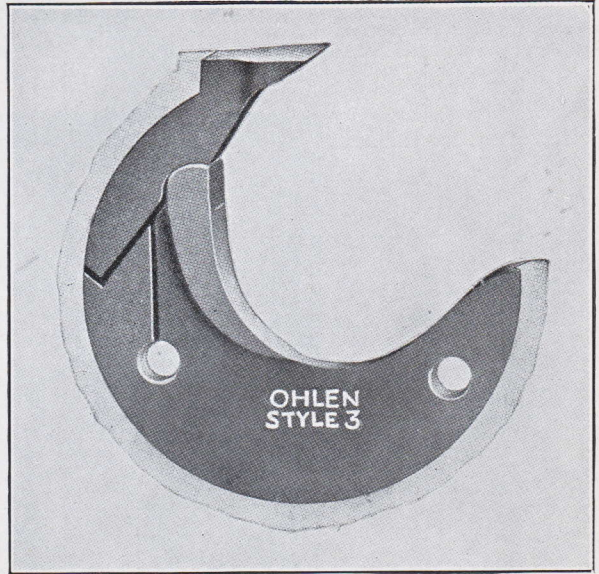
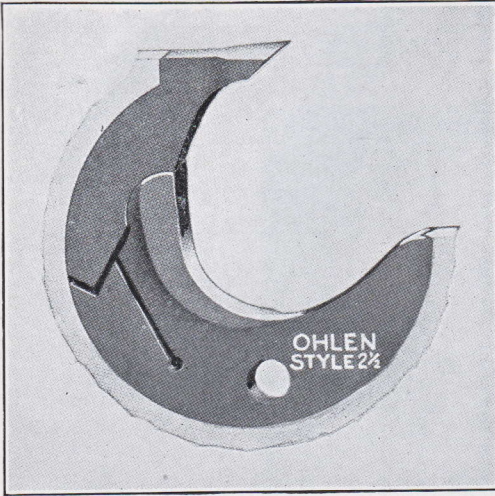
One extra set of teeth and two extra shanks given with each saw. One wrench given with each saw or set of saws. See Discount Sheet

SAW SERVICE AND SATISFACTION

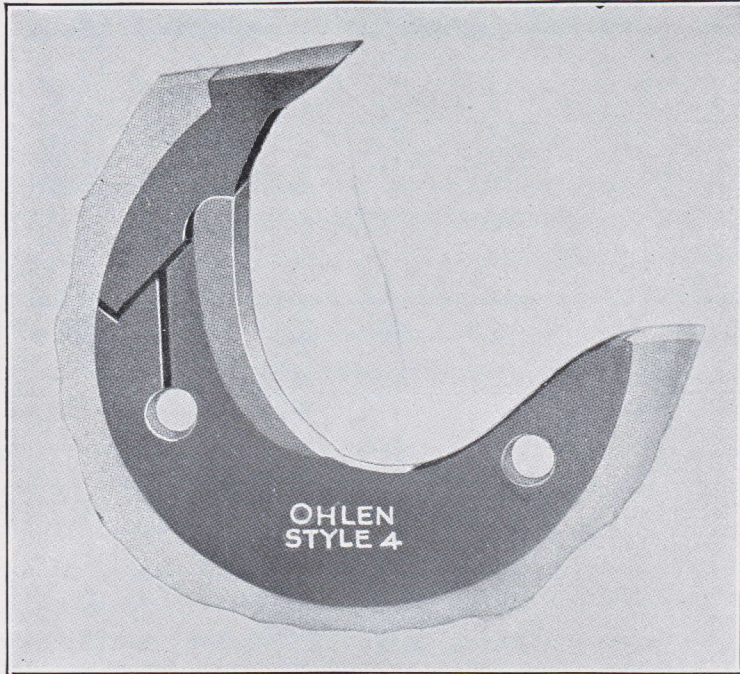


THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Inserted Tooth Saws

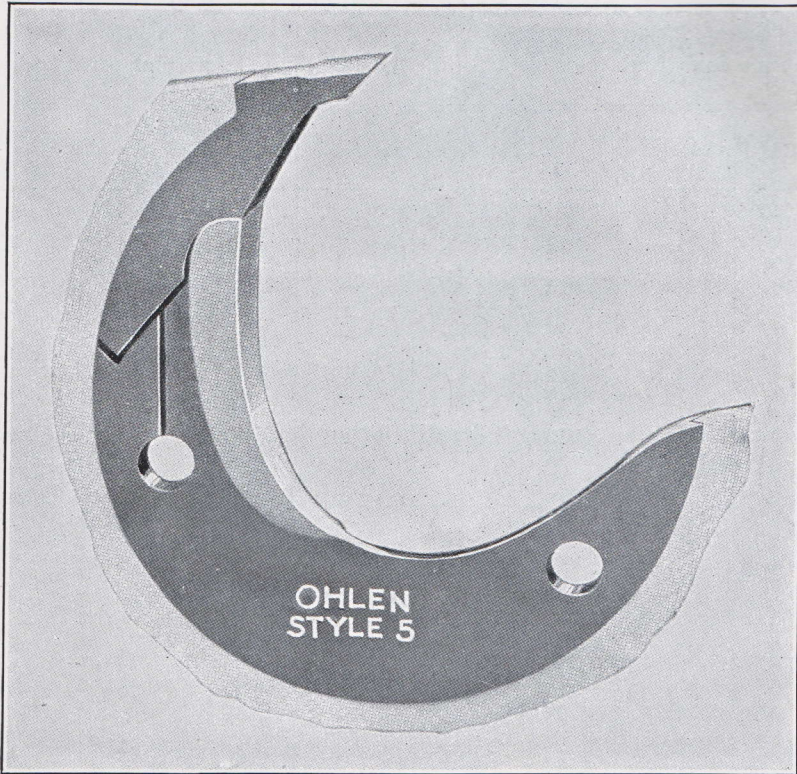


Ohlen-Bishop Inserted Saw Teeth are accurately made and carefully inspected.

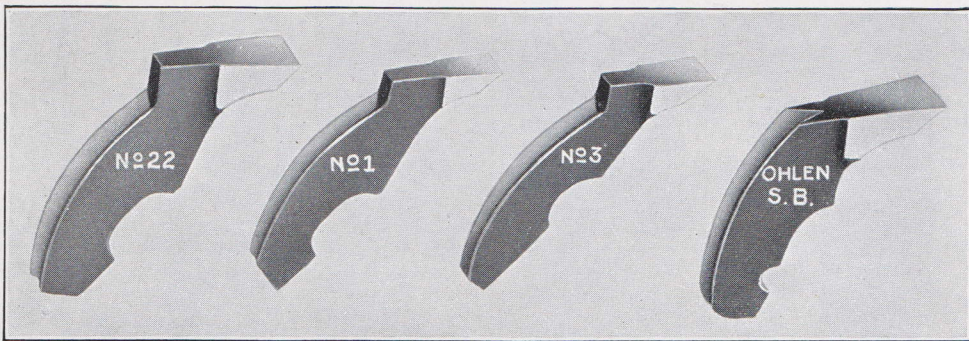


WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Inserted Tooth Saws



Principally used on the Pacific Coast where Coarse Teeth are desired
Ohlen-Bishop Inserted Teeth



The following is a list of Inserted Teeth carried in stock showing gauge, and width of kerf or cutting edge. Be sure and specify kerf and gauge when ordering.

10 gauge $\frac{1}{4}$ inch kerf
 9 " $\frac{17}{64}$ " "
 8 " $\frac{5}{16}$ " "

8 gauge $\frac{3}{8}$ inch kerf
 7 " $\frac{3}{8}$ " "
 7 " $\frac{11}{32}$ " "

6 gauge $\frac{13}{32}$ inch kerf
 6 " $\frac{3}{8}$ " "
 5 " $\frac{13}{32}$ " "

See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Inserted Tooth Saws

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated
Heavy Type show Saws which the majority of the trade specify on which prompt shipment can be made.
Styles 3, 4, and 5

Diam.	Gauge	Hole	Standard No. of Teeth			Greatest No. of Teeth			Price
			3	4	5	3	4	5	
16	10					12			\$39.00
16	8	1	12			12			39.50
16	7	1	12			12			40.00
18	10		14			14			44.00
18	7	1	14			14			45.20
20	9		14			16			50.00
20	8	1	16			16			50.00
20	7	1	16			16			50.75
22	9		16	12	10	18	14	12	56.00
22	7	1	14			18			56.90
22	7	1	16			18			56.90
24	9		18	14	12	18	16	14	62.00
24	7	1	18			18			63.05
24	6	1	18			18			64.10
24	6	1	20			20			64.10
26	9		18	14	12	20	16	14	68.00
26	6	1	20			20			70.50
28	9		18	16	14	22	18	14	74.00
30	9		20	16	14	24	20	18	80.00
30	6	1	24			24			83.50
32	8		22	18	16	26	22	20	88.00
32	6	1½	24			26			90.00
32	6	1½	26			26			90.00
34	8		22	20	18	28	24	20	97.00
36	8		24	20	18	30	26	22	106.00
36	6	1½	26			30			108.60
38	8		24	22	20	32	28	22	115.00
40	8		26	24	20	34	30	24	125.00
42	8		28	26	22	36	32	26	137.00
44	8		30	26	24	38	34	26	150.00
44	8-9	2	30			38			150.00
46	8		32	28	24	40	36	28	165.00
46	7-8	2	36			40			165.00
46	8-9	2	36			40			165.00
48	8		34	30	26	42	36	28	180.00
48	8-9	2	36			42			180.00
48	8-9	2	40			42			180.00
48	7-8	2	36			42			180.00
50	8		36	32	28	44	38	30	200.00
50	8-9	2	36			44			200.00

One extra set of teeth and two extra shanks given with each saw. One wrench given with each saw or set of saws. **See Discount Sheet**



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Inserted Tooth Saws—Continued

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated

Heavy Type show Saws, which the majority of the trade specify on which prompt shipment can be made.

Styles 3, 4 and 5

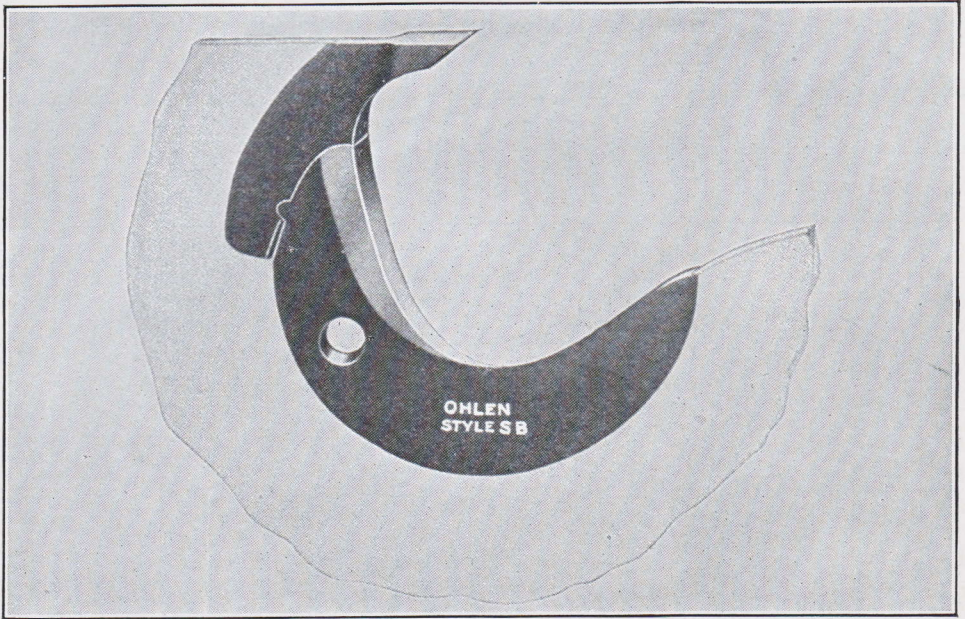
Diam.	Gauge	Hole	Standard No. of Teeth			Greatest No. of Teeth			Price
			3	4	5	3	4	5	
50	8-9	2	40			44			\$200.00
50	8-9	2	42			44			200.00
50	8-9	2	44			44			200.00
50	7-8	2	36			44			200.00
50	7-8	2	40			44			200.00
50	6-7	2		30			38		206.65
50	6-7	2		36			38		206.65
52	7		38	34	30	44	40	32	220.00
52	8-9	2	40			44			220.00
52	8-9	2	44			44			220.00
52	7-8	2	36			44			220.00
52	8-9	2	36			44			220.00
52	8-9	2	42			44			220.00
52	7-8	2	44			44			220.00
52	6-7	2	36			44			220.00
52	5-6	2	44			44			227.40
54	7		40	36	30	46	42	32	250.00
54	7-8	2	40			46			250.00
54	8-9	2	44			46			250.00
56	7		42	36	32	48	42	34	280.00
56	8-9	2	40			48			280.00
56	6-7	2		36			42		280.00
56	6-7	2		36			42		280.00
56	5-6	2	46	40				42	290.25
56	5-6	2				48			290.25
56	5-6	2		36			42		290.25
58	7		44	38	34	50	44	36	310.00
60	7		46	40	34	52	46	36	340.00
60	8-9	2	46			52			340.00
60	8-9	2	52			52			340.00
60	5-6	2	50			52			353.25
60	5-6	2	52			52			353.25
60	5-6	2		44		46			353.25
60	5-6	2		40			46		353.25
62	6		48	40	36	54	48	38	380.00
64	6		48	42	36	56	50	38	425.00
66	6		50	44	38	58	52	40	470.00
68	6		52	44	38	60	54	40	520.00
70	6		54	46	42	62	54	44	570.00
72	6		56	48	42	64	56	44	620.00

One extra set of teeth and two extra shanks given with each saw. One wrench given with each saw or set of saws. See Discount Sheet

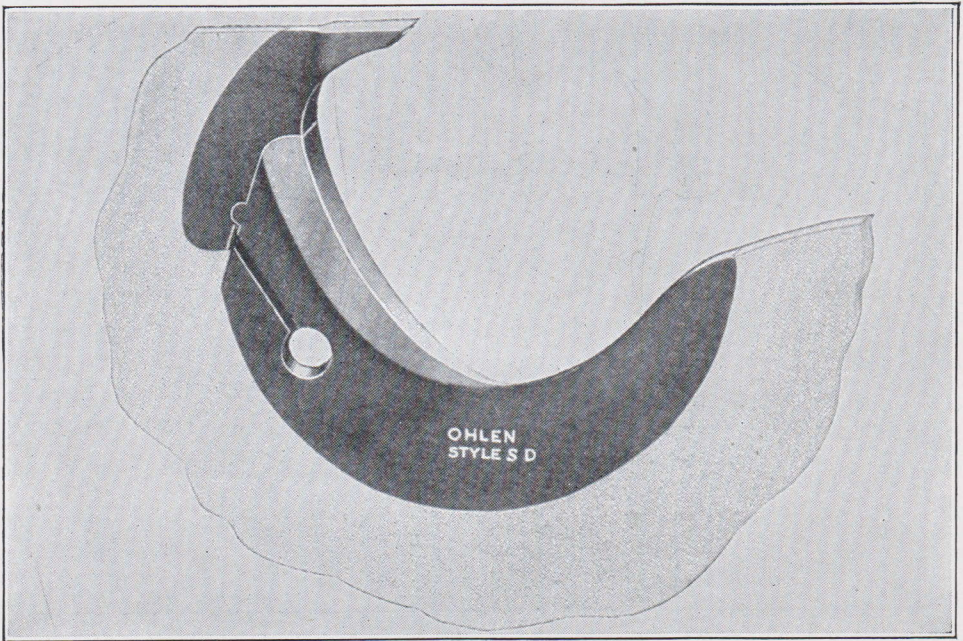
SAW SERVICE AND SATISFACTION



Ohlen-Bishop Inserted Tooth Saws



Ohlen Style S. B. for Medium Tooth Saws, used for sawing Frozen Lumber



Ohlen Style S. D. for Coarse Tooth Saws



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Inserted Tooth Saws

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated

Figures in Heavy Type show Saws, specified by the majority of the trade on which prompt shipment can be made.

Style SB and SD

Diameter	Gauge	Hole	Standard No. of Teeth SB and SD	Greatest No. of Teeth		Price
				SB	SD	
12	11	1	8	8		\$32.00
14	10	1	10	10		37.00
16	10	1	12	12		39.00
16	8	1	12	12		39.50
16	7	1	12	12		40.00
18	10	1	14	14		44.00
18	8	1	14	14		44.60
18	7	1	14	14		45.20
20	9	1	14	16		50.00
20	8	1	14	16		50.00
20	7	1	14	16		50.75
22	9	1	16	18		56.00
22	7	1	16	18		56.90
22	7	1	14	18		56.90
24	9	1	18	20		62.00
24	7	1	18	20		63.05
24	6	1	18	20		64.10
26	9	1	18	22		68.00
26	6	1	20	22		70.50
28	9	1	20	24		74.00
30	9	1	20	26	22	80.00
30	6	1	24	26	22	83.50
30	6	1½	24	26	22	83.50
32	8	1½	22	28	24	88.00
32	6	1½	24	28	24	90.00
34	8	1½	22	30	24	97.00
36	8	1½	24	30	26	106.00
36	6	1½	26	30	36	108.60
38	8	2	24	32	28	115.00

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

See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Inserted Tooth Saws

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated

Figures in Heavy Type show Saws, specified by the majority of the trade on which prompt shipment can be made.

Styles SB and SD

Diameter	Gauge	Hole	Standard No. of Teeth SB and SD	Greatest No. of Teeth		Price
				SB	SD	
40	8	2	26	34	30	\$125.00
42	8	2	28	36	32	137.00
44	8-9	2	30	38	32	150.00
44	8	2	30	38	32	150.00
46	8	2	30	40	34	165.00
48	8	2	32	42	36	180.00
48	8-9	2	36	42	36	180.00
48	8-9	2	40	42	36	180.00
50	8	2	34	44	38	200.00
50	8-9	2	36	44	38	200.00
50	8-9	2	40	44	38	200.00
50	8-9	2	42	44	38	200.00
52	7	2	36	46	38	220.00
52	8-9	2	40	46	38	220.00
52	8-9	2	44	46	38	220.00
54	7	2	38	48	40	250.00
56	7	2	40	50	42	280.00
56	8-9	2	40	50	42	280.00
56	6-7	2	36		42	280.00
56	5-6	2	40		42	290.25
58	7	2	42	50	44	310.00
60	7	2	42	52	58	340.00
60	8-9	2	46	52	58	340.00
62	6	2	44	54	46	380.00
64	6	2	44	56	48	425.00
66	6	2	48	58	50	470.00
68	6	2	48	60	52	520.00
70	6	2	52	62	54	570.00
72	6	2	52	64	54	620.00

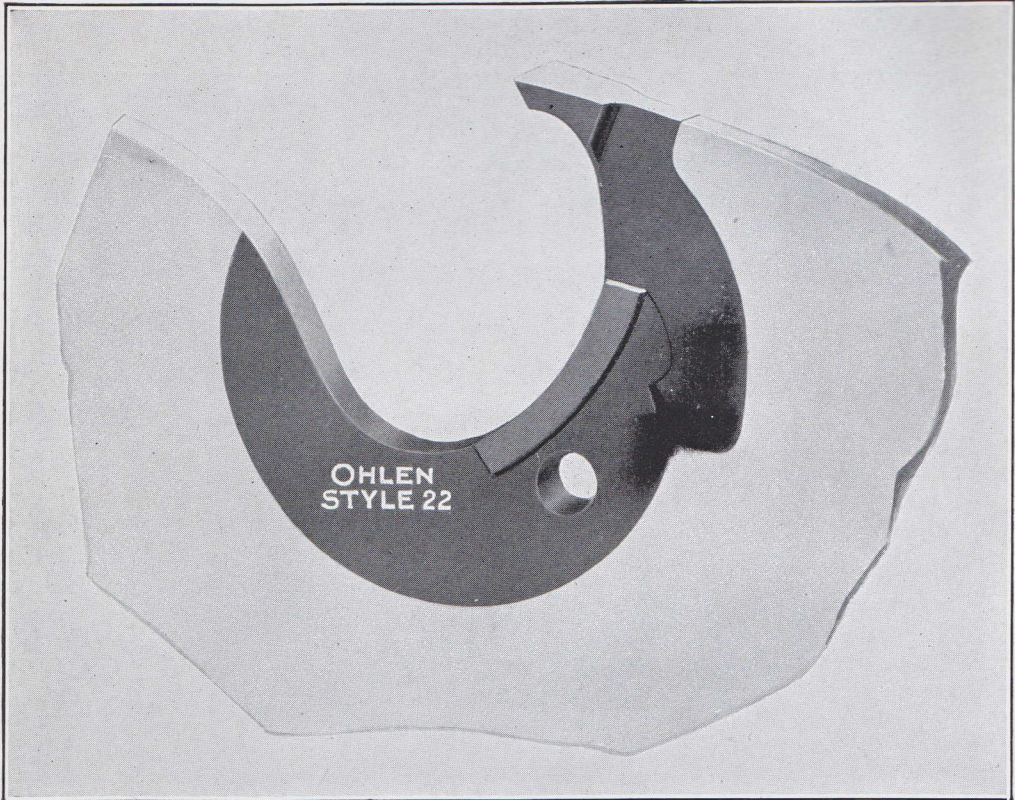
One extra set of teeth and two extra shanks given with each saw. One wrench given with each saw or set of saws.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Inserted Tooth Saws

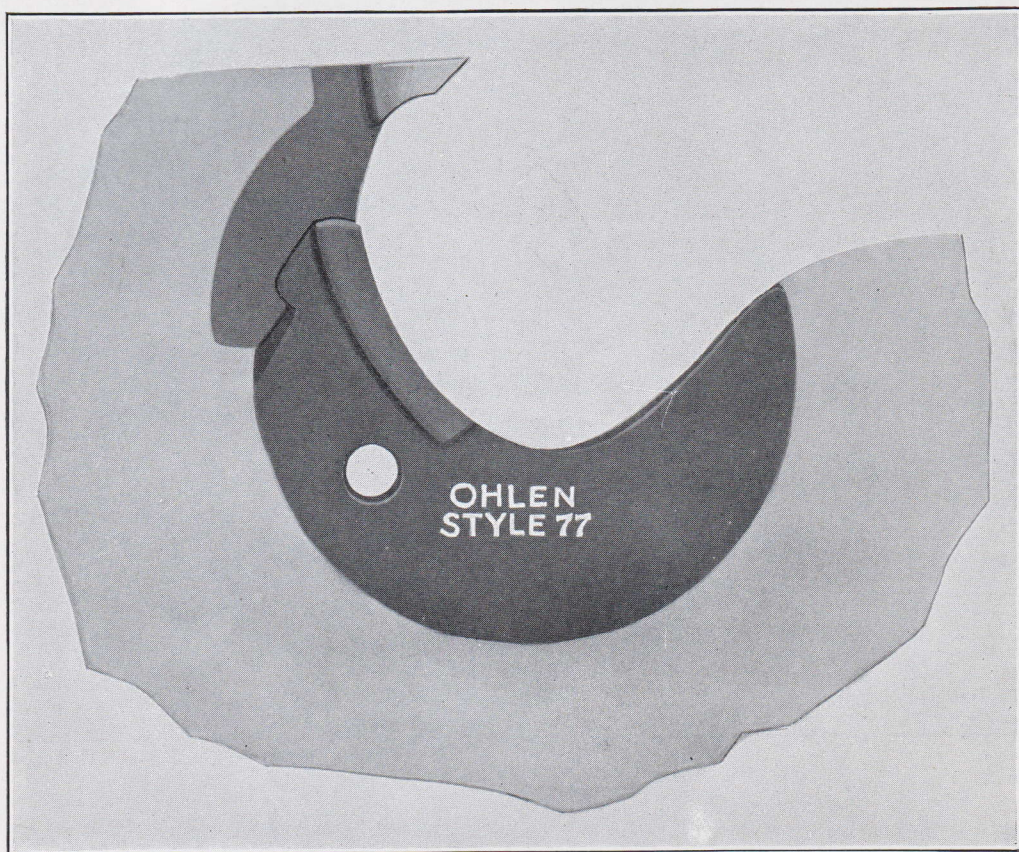


This Point and Shank, with an improved method of holding has developed the strongest Inserted Tooth Saw known to the trade. We have authentic records of this saw being driven direct to the mandrel by an 1100 Horse Power Engine cutting through the log at the rate of 11 feet per second. It will stand an unlimited feed and speed and is unquestioned in its claim to superiority as King of the Inserted Tooth Mill Saw class.

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Inserted Tooth Saws



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Inserted Tooth Saws

Ohlen-Bishop Simplified Price List

Uncertainty and unnecessary figuring eliminated

Styles No. 22 and No. 77

Diameter	Gauge	Hole	Standard No. of Teeth		Greatest No. of Teeth		Price
			No. 22	and No. 77	No. 22	and No. 77	
16	10	1 $\frac{1}{8}$	12		12		\$ 43.00
18	10	1 $\frac{1}{4}$	14		14		49.00
20	9	1 $\frac{5}{16}$	14		16		55.00
22	9	1 $\frac{5}{16}$	16	12	18	14	61.00
24	9	1 $\frac{3}{8}$	18	14	18	16	68.00
26	9	1 $\frac{3}{8}$	18	14	20	18	75.00
28	9	1 $\frac{1}{2}$	18	16	22	20	82.00
30	9	1 $\frac{1}{2}$	20	16	24	20	90.00
32	8	1 $\frac{5}{8}$	22	18	26	22	100.00
34	8	1 $\frac{5}{8}$	22	20	28	24	110.00
36	8	1 $\frac{5}{8}$	24	20	30	24	120.00
38	8	1 $\frac{5}{8}$	24	22	32	26	130.00
40	8	2	26	24	34	28	140.00
42	8	2	28	26	36	30	150.00
44	8	2	30	26	38	30	165.00
46	8	2	32	28	40	32	180.00
48	8	2	34	30	42	34	200.00
50	8	2	36	32	44	36	220.00
52	7	2	38	34	44	36	245.00
54	7	2	40	36	46	38	275.00
56	7	2	42	36	48	40	310.00
58	7	2	44	38	50	40	340.00
60	7	2	46	40	52	42	375.00
62	6	2	48	42	54	44	420.00
64	6	2	48	42	56	46	470.00
66	6	2	50	44	58	46	520.00
68	6	2	52	44	60	48	575.00
70	6	2	54	46	62	50	630.00
72	6	2	56	52	64	56	685.00

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

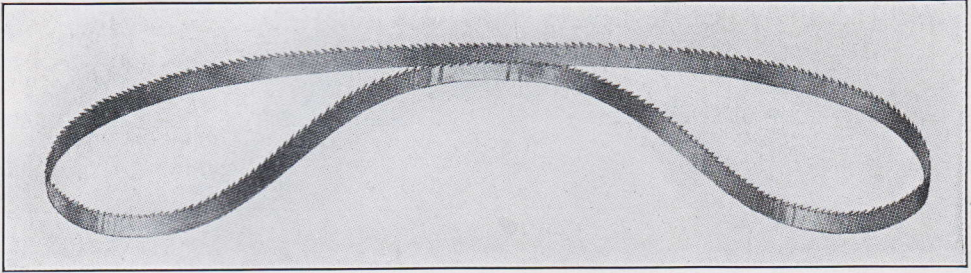
See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen Narrow Band Saws for Wood



Figures in Heavy Type show Saws, which are specified by the majority of the trade on which prompt shipment can be made.

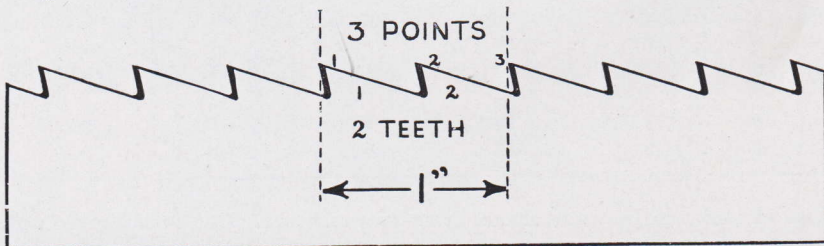
Width In.	Price Ft.	Gauge	Points Per Inch	Gauge	Points Per Inch	Gauge	Points Per Inch
$\frac{1}{8}$	\$0.13	23	7				
$\frac{3}{16}$	.13	22	7				
$\frac{1}{4}$	.13	21	6	21	5		
$\frac{3}{8}$	.14	21 or 22	5	21	6		
$\frac{1}{2}$	.15	21 or 22	5	21	4		
$\frac{5}{8}$	.16	21	4	21	5		
$\frac{3}{4}$	.18	21	4	20	4		
$\frac{7}{8}$	.20	20	3½	20	4		
1	.22	20	4	20	3	20	3½
$1\frac{1}{8}$	.24	20	3				
$1\frac{1}{4}$	.26	20	3	20	4		
$1\frac{3}{8}$	.28	20	3	20	4		
$1\frac{1}{2}$	.32	20	3				
$1\frac{3}{4}$	.38	20	3				

These prices are for saws set and filed but not brazed. If not wanted filed and set deduct 4 cents per foot from list.

Brazing $\frac{1}{4}$ to $\frac{1}{2}$ "	50 cents per braze
$\frac{3}{8}$ to $\frac{7}{8}$ "	60 " "
1 to $1\frac{1}{4}$ "	70 " "
$1\frac{3}{8}$ to $1\frac{3}{4}$ "	80 " "

When ordering Narrow Band Saws always give the number of points per inch desired. There is always one more point per inch than there are teeth per inch.

The following illustration shows the difference between points and teeth.



See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Nickel Alloy Wide Band Saws



Brazed Set and Sharpened

Width Inches	Gauge	Price	Width Inches	Gauge	Price
2	18 to 20	\$1.00 per foot	9	14 to 16	\$4.30 per foot
2½	18 to 20	1.20 " "	10	14 to 16	4.80 " "
3	18 to 20	1.40 " "	11	14 to 16	5.40 " "
3½	18 to 20	1.60 " "	12	13 to 15	6.00 " "
4	17 to 19	2.00 " "	13	13 to 15	7.20 " "
4½	17 to 19	2.20 " "	14	13 to 15	8.40 " "
5	17 to 19	2.40 " "	15	12 to 14	10.20 " "
5½	17 to 19	2.70 " "	16	12 to 14	12.00 " "
6	17 to 19	3.00 " "	17	12 to 14	16.80 " "
7	16 to 18	3.40 " "	18	12 to 14	21.60 " "
8	14 to 16	3.80 " "			

Saws of widths not listed above take price of next wider size listed.

Saws heavier than gauges listed above add 5% for each gauge heavier.

Saws one or two gauges thinner than list furnished without extra charge, if more than two gauges thinner add 5% for each gauge.

Double edge band Saws, add 10% to above list prices.

Toothed blanks same price as finished Saws.

Band Saw blanks are furnished ground and polished but are not warranted.

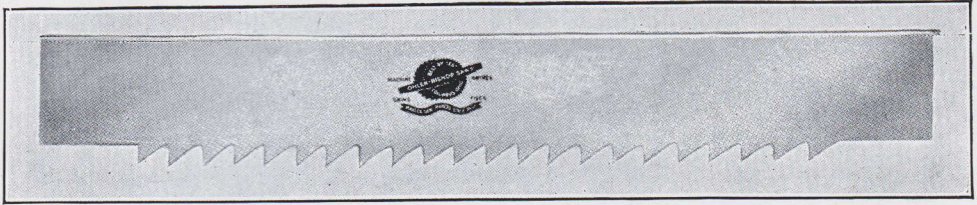
See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Nickel Alloy Gang Saws



Price Per Foot

Width Inches	11 Gauge	12 Gauge	13 Gauge	14 Gauge	15 Gauge	16 Gauge
4			\$1.90	\$1.85	\$1.75	\$1.70
5			2.00	1.95	1.85	1.80
6			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 list covers Saws fitted but not with tabs or holes punched.

Add 10% to above list for Gang Saws with reversed teeth.

Saws of heavier gauges than listed above use drag saw list on next page.

Add 2c per hole Net for punching tab holes.

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

Specifications Required When Ordering Gang Saws

Length of Saw

Length over all including Tabs

Distance between tabs

Width of Saw

Width at ends

Distance from lower end of Saw to point of first tooth

Gauge or thickness

Shape and space of teeth

Number of teeth in Saw

Length of tabs

Width of tabs

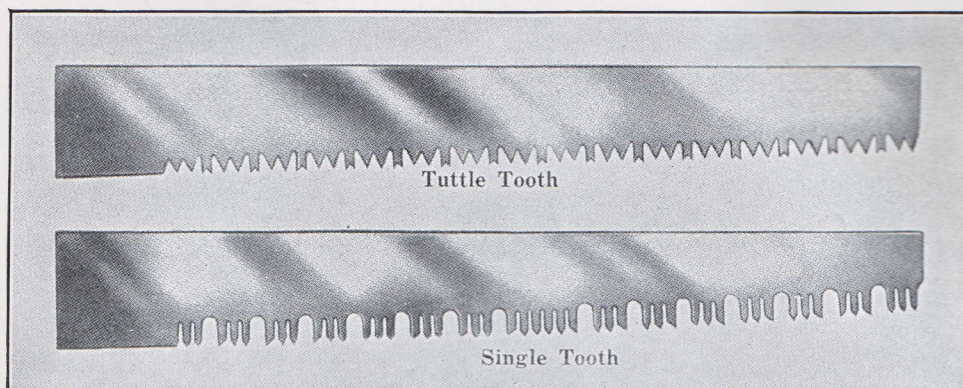
Location of tabs

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Drag Saws

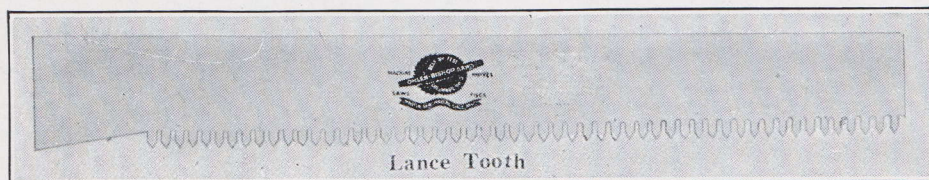


PRICE PER FOOT

Width	Thickness		
	10 Gauge	11 Gauge	12 Gauge
Tapered 6 in. butt, 4 in. point	\$2.00	\$1.80	\$1.60
“ 6 “ “ 5 “ “	2.20	2.00	1.80
“ 8 “ “ 6 “ “	2.40	2.20	2.00

All saws fitted, ready for use.
 Tapered Drag Saws wider or thicker than above will be figured by the Mill, Mulay, and Drag Saw list, using the average width as the basis.
 Drag Saws taper ground, add 5 per cent to the list for each gauge taper grinding.

Ohlen-Bishop Drag Saws of Equal Width



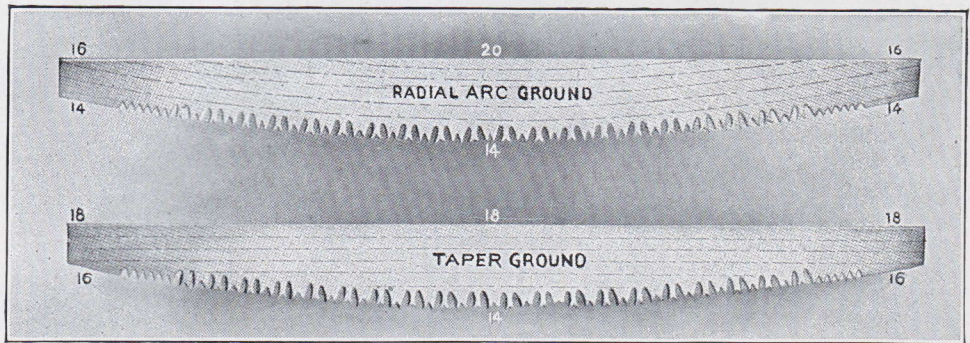
Width, Inches	Price, per Foot						
	4 Gauge	5 Gauge	6 Gauge	7 Gauge	8 Gauge	9 Gauge	10 Gauge
8	\$6.00	\$5.60	\$5.00	\$4.40	\$4.00	\$3.60	\$3.40
9	6.40	6.00	5.40	4.80	4.40	4.00	3.60
10	7.00	6.40	5.80	5.20	4.80	4.40	4.00
11	7.60	7.00	6.40	5.80	5.40	4.80	4.40
12	8.40	7.80	7.00	6.40	6.00	5.40	4.80
14	9.60	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.
 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.
See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Radial Arc Ground Cross Cut Saws



OHLEN-BISHOP Crosscut Saws are made and warranted with full knowledge of the unusually severe service that they are expected to render with the minimum of care. They are used indiscriminately in hard and soft, green and seasoned timber.

Ohlen special formula CHROME NICKEL ALLOY STEEL provides the toughness and hardness that such service demands. Any but the toughest steel would be too brittle for crosscut use. Ohlen Crosscuts hold their edge and set, cut fast, clear quickly, and are refitted readily. Evenness of temper and grain throughout the blade are secured by exact temperature control in hardening and tempering.

All of OHLEN-BISHOP high grade crosscut saws are "Radial Arc Ground", that is ground in a line parallel to the cutting-edge of the saw. This gives a saw an even thickness throughout the tooth edge and a gradual taper from the tooth to the back. Because of this our crosscut saws have less set in the teeth and less kerf to cut. The real advantage is that there is no binding at all in the kerf, enabling the operator of the saw to work more easily and accomplish more work.

CHROME NICKEL ALLOY STEEL, special accuracy and trueness in every detail, added to our surpassing RADIAL ARC GRINDING, makes possible the OHLEN-BISHOP warranty for unequalled fast-cutting, uniformity, toughness, and edge-holding qualities.



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Radial Arc Ground Cross Cut Saws

Chrome Nickel Alloy Steel

Heavy Type denotes Standard Sizes.



No. 13 Tuttle Tooth Saw. Two Cutting Teeth to each Raker.

Length, feet.....	5	5½	6	6½
Weight each, lbs.....	5¼	6¼	7½	8½
List Price, each.....	\$7.60	\$9.20	\$10.40	\$12.40

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge.



No. 22 Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker.

Length, feet.....	5	5½	6	6½	7
Weight each, lbs.....	5¼	6¼	7½	8½	9½
List Price, each.....	\$7.60	\$9.20	\$10.40	\$12.40	\$13.60

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge. Dimensions of No. 13 and No. 22 in 6 foot lengths are width at center, 7", width at ends 3⅜".

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Radial Arc Ground Cross Cut Saws

Chrome Nickel Alloy Steel
Heavy Type denotes Standard Sizes.



No. 316. Perforated Lance Tooth Saw. Two Cutting Teeth to each Raker.

Length, feet.....	5 1/2	6	6 1/2
Weight each, lbs.....	5 1/4	6	6 3/4
List Price, each.....	\$9.20	\$10.40	\$12.40

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge.



No. 324. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker.

Length, feet.....	5	5 1/2	6	6 1/2	7	7 1/2
Weight each, lbs.....	4 1/2	5 1/4	6	6 3/4	7 1/2	8 1/2
List Price, each.....	\$7.60	\$9.20	\$10.40	\$12.40	\$13.60	\$16.00

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge.



No. 326. Tuttle Tooth Saw. Two Cutting Teeth to each Raker.

Length, feet.....	5 1/2	6	6 1/2
Weight each, lbs.....	5 1/4	6	6 3/4
List Price, each.....	\$9.20	\$10.40	\$12.40

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge. Dimensions of No. 316, No. 324 and No. 326 in 6 foot lengths are, width at center 6", width at ends 3 3/8".

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Felling Saws Radial Arc Ground

Chrome Nickel Alloy Steel

Heavy Type denotes Standard Sizes.



No. 113. Tuttle Tooth Saw. Two Cutting Teeth to each Raker.

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4 1/4	5	5 3/4
List Price, each.....	\$7.00	\$9.20	\$10.40

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge.



No. 133. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker.

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4 1/4	5	5 3/4
List Price, each.....	\$7.00	\$9.20	\$10.40

Saws 6 feet and over are 14 x 20 gauge. Under 6 feet are 15 x 20 gauge.

Dimensions of No. 113 and No. 133 in 6 foot lengths are, width at center 5 1/2", width at ends 3 1/4".

See Discount Sheet



Ohlen-Bishop Felling Saws Radial Arc Ground

Chrome Nickel Alloy Steel

Heavy Type denotes Standard Sizes.



No. 315. Tuttle Tooth Saw. Two Cutting Teeth to each Raker.

Length, feet.....	5	5½	6
Weight each, lbs.....	4½	5	5½
List Price, each.....	\$7.60	\$9.20	\$10.40



No. 325. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker.

Length, feet.....	4½	5	5½	6
Weight each, lbs.....	4	4½	5	5½
List Price, each.....	\$6.80	\$7.60	\$9.20	\$10.40

Dimensions of No. 315 and No. 325 in 6 foot lengths are 14 x 17 gauge, width at center 4½", width at ends 3¼".

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Radial Arc Ground Cross Cut Saws

Pacific Coast Patterns

Chrome Nickel Alloy Steel

Heavy Type denotes Standard Sizes.



No. 503. Master Cutter. Bucking Pattern.
 No. 251. Same Pattern as No. 503—Crucible Alloy Steel
 No. 251P. Same as 251 except Perforated Tooth.

Length, feet.....	6	6½	7	7½
Weight each, lbs.....	9	10	11½	13
List Price, each—No. 503.....	\$16.00	\$18.00	\$20.00	\$22.00
List Price, each—No. 251 and 251P.....	10.50	12.00	13.50	14.50

Nos. 503, 251 and 251P Saws 6 feet and over 13 x 15 x 17 gauge. Under 6 feet 14 x 16 x 17 gauge.



No. 513. Master Cutter. Falling Pattern.
 No. 252. Same Pattern as No. 513—Crucible Alloy Steel.

Length, feet.....	5	5½	6	6½	7	7½	8	8½	9	9½	10
Weight each, lbs.....	5½	6½	7½	8½	9½	10½	11½	12½	13½	14½	15½
List Price, No. 513.....	\$12.50	\$14.25	\$16.00	\$18.00	\$20.00	\$22.00	\$24.25	\$26.50	\$29.00	\$31.50	\$34.25
List Price, No. 252.....	8.00	9.25	10.50	12.00	13.50	14.50	16.00	17.50	19.00	21.00	23.00

Nos. 513, 252 Saws 6 feet and over 13 x 15 x 17 gauge. Under 6 feet 14 x 16 x 17 gauge.

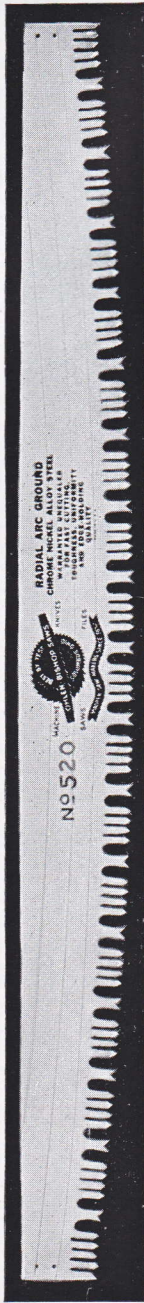
See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Radial Arc Ground Cross Cut Saws

Pacific Coast Pattern
 Chrome Nickel Alloy Steel
 Heavy Type denotes Standard Sizes.



No. 520. Lance Tooth

Length, feet.....	5	5½	6	6½	7	7½
Weight each, lbs.....	6½	7½	8½	9½	10½	11½
List Price, each—No. 520.....	\$12.50	\$14.25	\$16.00	\$18.00	\$20.00	\$22.00
List Price, each—No. 520-A.....	7.12	7.92	8.64	9.35	10.00	10.72

Nos. 520 and 520-A Saws 6 feet and over 13 x 15 x 17 gauge. Under 6 feet 14 x 16 x 17 gauge.



No. 541

Length, feet.....	6	6½
Weight each, lbs.....	5½	6¼
List Price, each.....	\$10.85	\$12.75

No. 541 Saws 6 feet and over 14 x 16 x 18 gauge.



No. 363. Tuttle Tooth

Length, feet.....	5	5½	6	6½	7	7½
Weight, lbs.....	6½	7½	8½	9½	10½	11½
List Price, each.....	\$7.00	\$7.50	\$8.00	\$8.75	\$9.50	\$10.25

No. 363 Saws 6 feet and over 13 x 15 x 17 gauge. Under 6 feet 14 x 16 x 17 gauge.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Wide Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 330. Tuttle Tooth Saw. Two Cutting Teeth to each Raker. 14 x 16 Gauge

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	5	6	7 1/2
List Price, each.....	\$5.20	\$5.76	\$6.24

No. 331. Tuttle Tooth Saw. Two Cutting Teeth to each Raker. 14 x 18 Gauge

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4 3/4	5 3/4	7 1/4
List Price, each.....	\$6.00	\$6.64	\$7.12

No. 332. Tuttle Tooth Saw. Two Cutting Teeth to each Raker. 14 x 19 Gauge.

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4 1/4	5 1/4	7
List Price, each.....	\$6.50	\$7.20	\$7.80

No. 332 1/2. Tuttle Tooth Saw. Two Cutting Teeth to each Raker. 14 x 20 Gauge.

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4	5	6 3/4
List Price, each.....	\$7.05	\$7.75	\$8.40

Dimensions of No. 330, No. 331, No. 332, and No. 332 1/2 in 6 foot lengths are: width at center 7", width at ends 3 1/4".

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Wide Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 225. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker. 14 x 18 Gauge.
 No. 225N.P. Lance Tooth Saw Not Perforated. Four Cutting Teeth to each Raker. 14 x 18 Gauge.

Length, feet.....	5	5 1/2	6	6 1/2
Weight each, lbs.....	4 3/4	5 3/4	7 1/2	8 1/4
List Price, each—Nos. 225 and 225N. P.....	\$7.60	\$8.40	\$9.12	\$9.92

No. 225A. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker. 14 x 19 Gauge.

Length, feet.....	5	5 1/2	6	6 1/2
Weight each, lbs.....	4 1/2	5 1/2	7 1/4	8
List Price, each.....	\$8.15	\$9.00	\$9.80	\$10.60



No. 338. Common or Tenon Tooth Saw. 14 x 18 Gauge

Length, feet.....	4 1/2	5	5 1/2	6
Weight each, lbs.....	4	4 3/4	5 3/4	7 1/4
List Price, each.....	\$5.20	\$5.84	\$6.40	\$7.04

No. 337. Common or Tenon Tooth Saw. 14 x 16 Gauge

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	5	6	7 1/2
List Price, each.....	\$5.20	\$5.76	\$6.24

Dimensions of No. 225, No. 225A, No. 337 and No. 338 in 6 foot lengths are: width at center 7", width at ends 3 1/4".

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Wide Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 334. American Tooth Saw. 14 x 18 Gauge

Length, feet.....	5	5 1/2	6
Weight each, lbs.....	4 3/4	5 3/4	7 1/4
List Price, each.....	\$6.56	\$7.20	\$7.84

No. 333. American Tooth Saw. 14 x 16 Gauge

Length, feet.....	5	5 1/2	6
Weight, each.....	4 3/4	5 3/4	7 1/4
List Price, each.....	\$6.25	\$6.75	\$7.25

Dimensions of No. 334 and No. 333 in 6 foot lengths are: width at center 7", width at ends 3 1/4".

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Wide Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 221. Diamond Tooth Saw. Two Cutting Teeth to each Raker. 14 x 16 Gauge

Length, feet.....	5 1/2	6
Weight each, lbs.....	5	7 1/2
List Price, each.....	\$6.00	\$7.15

No. 222. Diamond Tooth Saw. Two Cutting Teeth to each Raker. 14 x 18 Gauge.
No. 222A. Diamond Tooth Saw. Two Cutting Teeth to each Raker. 14 x 19 Gauge.

Length, feet.....	5 1/2	6
Weight each, lbs.....	4 3/4	7 1/4
List Price, each—No. 222 and No. 222A.....	\$6.60	\$7.90

Dimensions of No. 221, No. 222 and No. 222A in 6 foot lengths are: width at center 7", width at ends 3 1/4".



No. 223. Diamond Tooth Saw. Two Cutting Teeth to each Raker. 14 x 18 Gauge

Length, feet.....	5 1/2	6
Weight each, lbs.....	4 1/2	5 1/2
List Price, each.....	\$6.60	\$7.90

Dimensions of No. 223 in 6 foot lengths are: width at center 5 5/8", width at ends 3".

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Hollow Back Cross Cut Saws

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 313. Champion Tooth Saw. 3 1/4 inches Wide Two Cutting Teeth to each Raker.

Length, feet.....	4 1/2				5 1/2	6
List Price, each.....	\$3.10		\$3.50		\$3.85	\$4.15



No. 379. Tuttle Tooth Saw. 3 1/4 inches Wide Two Cutting Teeth to each Raker.

Length, feet.....	4 1/2				5 1/2	6
List Price, each.....	\$3.10		\$3.50		\$3.85	\$4.15



No. 384. Diamond Tooth Saw. 3 1/4 inches Wide Two Cutting Teeth to each Raker.

Length, feet.....	4 1/2				5 1/2	6
List Price, each.....	\$3.35		\$3.70		\$4.10	\$4.45

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Hollow Back Cross Cut Saws

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 385. American Tooth Saw. 3 1/4 inches Wide

Length, feet.....	4 1/2	5	5 1/2	6
List Price, each.....	\$2.09	\$2.32	\$2.56	\$2.79



No. 386. Perforated Lance Tooth Saw. 3 1/4 inches Wide

Length, feet.....	4 1/2	5	5 1/2	6
List Price, each.....	\$3.70	\$4.10	\$4.60	\$4.90

No. 387. Perforated Lance Tooth Saw. 3 3/4 inches Wide.

Length, feet.....	4 1/2	5	5 1/2	6
List Price, each.....	\$3.76	\$4.24	\$4.64	\$5.12

No. 388. Perforated Lance Tooth Saw. 3 3/4 inches Wide. 14 x 16 Gauge

Length, feet.....	4 1/2	5	5 1/2	6
List Price, each.....	\$4.16	\$4.56	\$5.04	\$5.44

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

OHLEN-BISHOP ONE MAN SAWS are manufactured with the same care and attention to the slightest details which characterizes all Ohlen-Bishop products. The finest quality Saw Steel and our exclusive heat-treating processes give these Saws an exceptionally durable and edging nature. Accurate and uniform grinding, filing and setting insure a fast and easy cutting blade which will not bind in the kerf. Saws illustrated on the following pages are equipped with well seasoned hardwood handles with varnished edges and side sanded. Handles are fastened to the blade with two brass saw screws and one brass medallion. Each Saw is warranted to be free from any defect in material or workmanship.

Ohlen-Bishop Radial Arc Ground One Man Cross Cut Saws

Chrome Nickel Alloy Steel

Heavy Type denotes Standard Sizes.



No. 223. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker. Skew Back.

Length, feet.....	3 1/2	4	4 1/2
Weight each, lbs.....	4 1/4	5	5 3/4
List Price, each.....	\$6.40	\$7.36	\$8.40

A Radial Arc Ground Lance Tooth One Man Saw accurately tapered from cutting edge to back. An even gauge all along the tooth edge. Double Horn Handle with large opening, enabling operator to use glove in winter.

See Discount Sheet

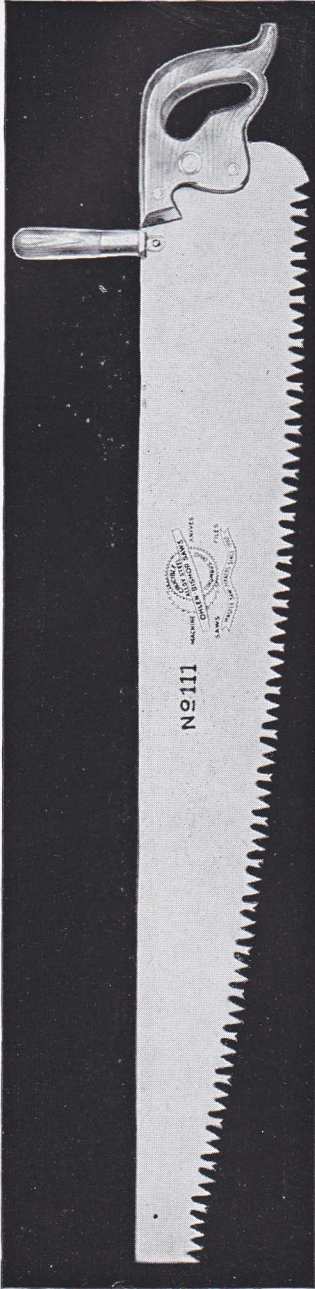
SAW SERVICE AND SATISFACTION



Ohlen-Bishop One Man Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 111. Tuttle Tooth Saw. Two Cutting Teeth to each Raker. Straight Back

Length, feet.....	3	3½	4	4½	5
Weight each, lbs.....	3¼	4	4¾	5½	6¼
List Price, each.....	\$3.60	\$4.32	\$4.96	\$5.60	\$6.24



No. 112. Lance Tooth Saw. Two Cutting Teeth to each Raker. Skew Back

Length, feet.....	3	3½	4	4½
Weight each, lbs.....	3	3¼	4	4½
List Price, each.....	\$4.80	\$5.60	\$6.40	\$7.28

See Discount Sheet

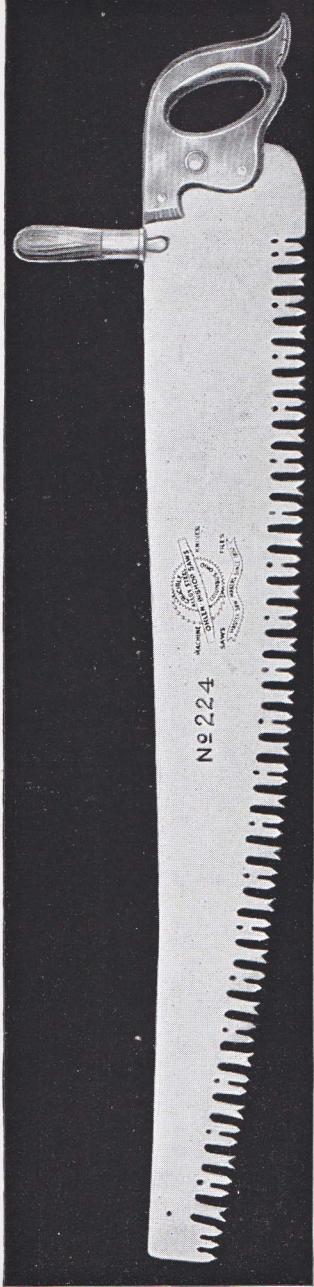


WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop One Man Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes



No. 224. Perforated Lance Tooth Saw. Two Cutting Teeth to each Raker. Skew Back.

Length, feet.....	3	3 1/2	4	4 1/2	4 1/2
Weight each, lbs.....	3	3 3/4	4	4 1/2	5 1/4
List Price.....	\$5.20	\$6.00		\$6.80	\$7.60



No. 237. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker. Skew Back.

Length, feet.....	3 1/2	4	4 1/2	5
Weight each, lbs.....	3 3/4	4 1/2	5 1/4	6
List Price, each.....	\$6.00	\$6.80	\$7.60	\$8.48

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop One Man Cross Cut Saws Taper Ground

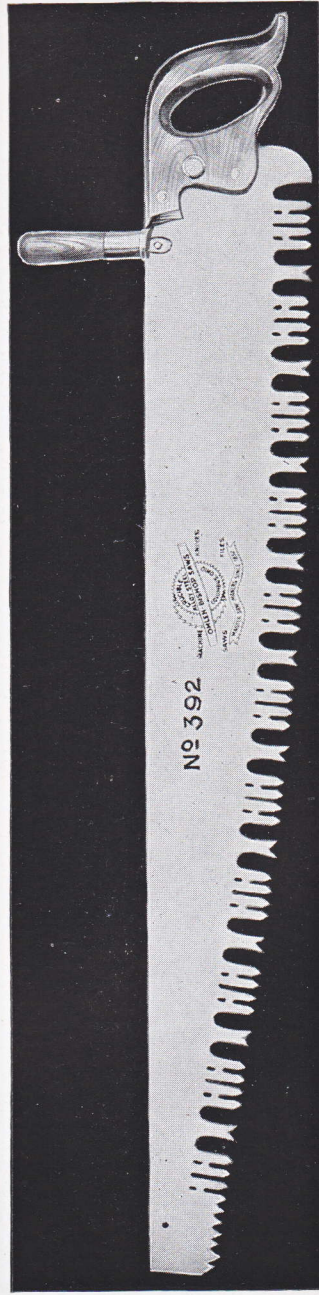
Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 238. Lance Tooth Saw, not Perforated. Four Cutting Teeth to each Raker. Skew Back.

Length, feet.....	3 1/2	4	4 1/2	5
Weight each, lbs.....	3 3/4	4 1/2	5 1/4	6
List Price, each.....	\$6.05	\$6.85	\$7.55	\$8.45



No. 392. Perforated Lance Tooth Saw. Four Cutting Teeth to each Raker. Straight Back.

Length, feet.....	3	3 1/2	4	4 1/2	5
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/2	6 1/2
List Price, each.....	\$4.24	\$4.96	\$5.60	\$6.32	\$7.04

See Discount Sheet

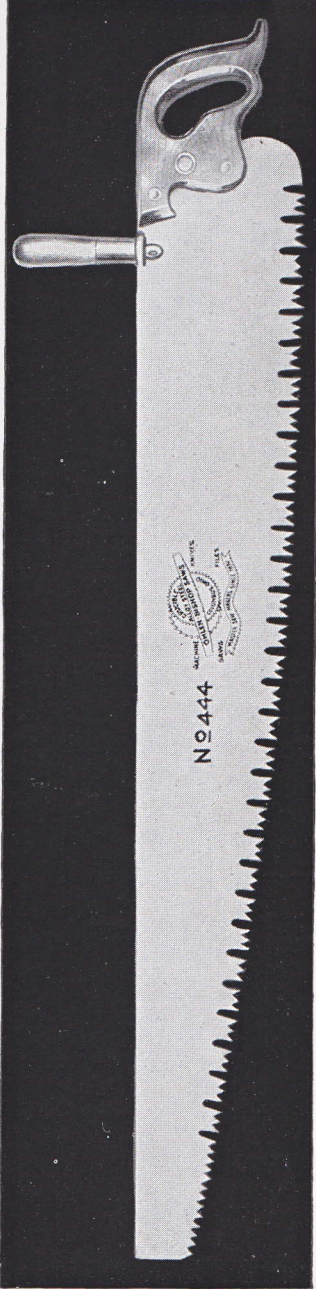


WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop One Man Cross Cut Saws Taper Ground

Crucible Alloy Steel

Heavy Type denotes Standard Sizes.



No. 444. American Tooth Saw. Straight Back

Length, feet.....	3	3½	4	4½
Weight each, lbs.....	3¼	4	4¾	5½
List Price, each.....	\$4.00	\$4.72	\$5.44	\$6.15



No. 777. Common or Tenon Tooth Saw. Straight Back

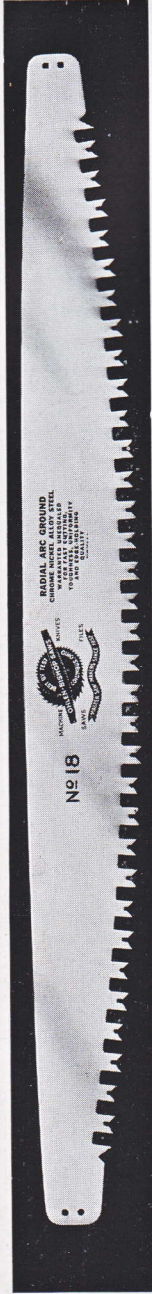
Length, feet.....	3	3½	4	4½
Weight each, lbs.....	3¼	4	4¾	5½
List Price, each.....	\$3.60	\$4.32	\$4.96	\$5.60

See Discount Sheet

SAW SERVICE AND SATISFACTION

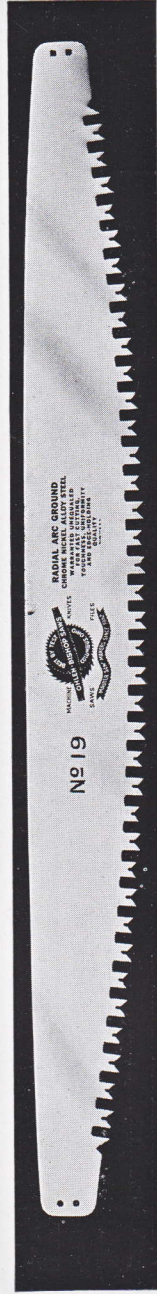


Australian Pattern Cross Cut Saws
Radial Arc Ground



No. 18. Chrome Nickel Alloy Steel. Tasmanian Pattern with filing gullet.
No. 118. Crucible Alloy Steel. Tasmanian Pattern with filing gullet.

Length, feet.....	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/4	7 1/4	8 1/2	9 1/2	10 1/2	11 1/2
List Price—No. 18.....	\$6.15	\$6.92	\$7.69	\$9.08	\$10.38	\$12.23	\$13.31	\$15.84	\$17.38
List Price—No. 118.....	4.98	5.66	6.26	6.94	7.52	8.12	8.80	9.38	10.06



No. 19. Chrome Nickel Alloy Steel. Jarrah Pattern No. 119. Crucible Alloy Steel. Jarrah Pattern

Length, feet.....	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/4	7 1/4	8 1/2	9 1/2	10 1/2	11 1/2
List Price—No. 19.....	\$6.15	\$6.92	\$7.69	\$9.08	\$10.38	\$12.23	\$13.31	\$15.84	\$17.38
List Price—No. 119.....	5.09	5.68	6.34	7.02	7.60	8.26	8.85	9.52	10.18



No. 26. Chrome Nickel Alloy Steel. Peg Tooth No. 126. Crucible Alloy Steel. Peg Tooth

Length, feet.....	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/4	7 1/4	8 1/2	9 1/2	10 1/2	11 1/2
List Price—No. 26.....	\$6.15	\$6.92	\$7.69	\$9.08	\$10.38	\$12.23	\$13.31	\$15.84	\$17.38
List Price—No. 126.....	4.51	5.09	5.71	6.25	6.78	7.37	7.92	8.49	9.03

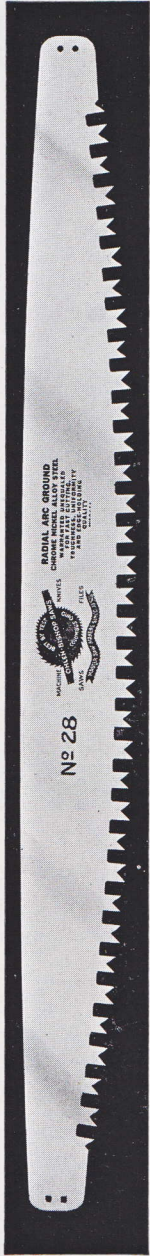
Australian Pattern Saws 6 feet and over, 14 x 16 x 20 gauge. Under 6 feet 15 x 16 x 20 gauge.



WE SELL NOT ONLY SAWS—BUT

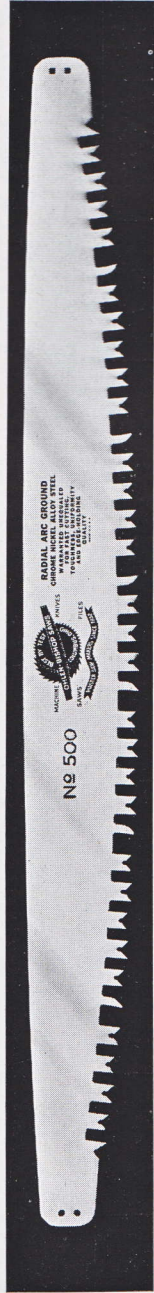
Australian Pattern Cross Cut Saws

Radial Arc Ground



No. 28. Chrome Nickel Alloy Steel. Tasmanian Pattern without filing gullet
 No. 128. Crucible Alloy Steel. Tasmanian Pattern without filing gullet

Length, feet.....	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/4	6	7 1/4	8 1/2	10 1/2	11 1/2
List Price—No. 28.....	\$6.15	\$6.92	\$7.69	\$9.08	\$10.38	\$12.23	\$13.31	\$15.84	\$17.38
List Price—No. 128.....	4.98	5.66	6.26	6.94	7.52	8.12	8.80	9.38	10.06



No. 500. Chrome Nickel Alloy Steel. Australian Pattern
 No. 1500. Crucible Alloy Steel. Australian Pattern

Length, feet.....	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
Weight each, lbs.....	3 1/4	4	4 3/4	5 1/4	6	7 1/4	8 1/2	10 1/2	11 1/2
List Price—No. 500.....	\$6.15	\$6.92	\$7.69	\$9.08	\$10.38	\$12.23	\$13.31	\$15.84	\$17.38
List Price—No. 1500.....	5.09	5.68	6.34	7.02	7.60	8.26	8.85	9.52	10.18

Australian Pattern Saws 6 feet and over, 14 x 16 x 20 gauge. Under 6 feet, 15 x 16 x 20 gauge.

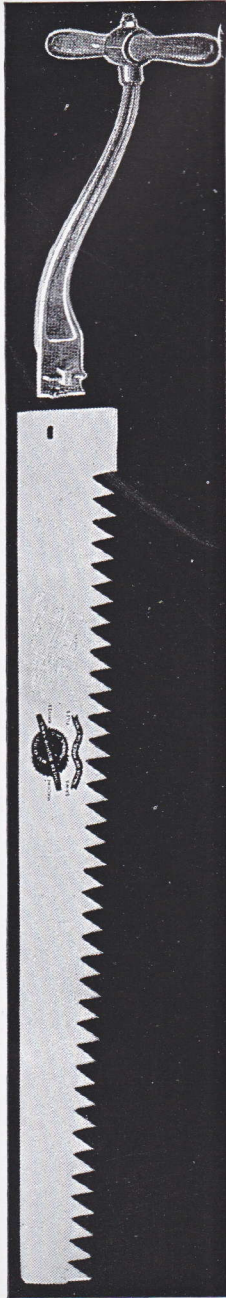


A—Large Auckland Tabs—List, \$6.96 Per Doz.
 B—Small Auckland Tabs—List, 4.68 Per Doz.
 C—Common Ears —List, 2.64 Per Doz.

SAW SERVICE AND SATISFACTION



Pond Ice Saw No. 3



LIST PRICE, WITHOUT HANDLE

Width at Butt	Width at Point	Thickness	3 feet	3½ feet	4 feet	4½ feet	5 feet	5½ feet	6 feet
8 inch	6 inch	10 gauge	\$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

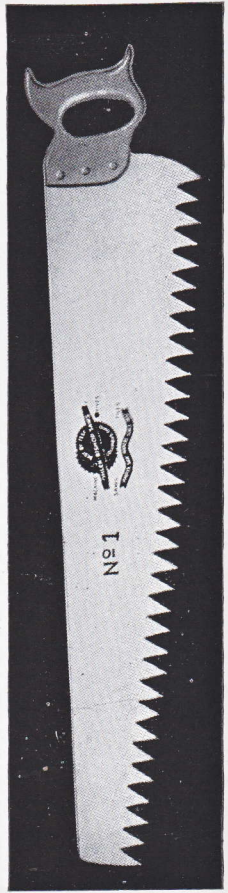
Tiller Handles, complete, as shown above.....\$2.30 each

Hand Ice Saw No. 2



Length, inches..... 24 26 28
List Price, per dozen..... \$16.05 \$17.65 \$19.15

Length, inches..... 30 32 34
List Price, per dozen..... \$20.65 \$22.25 \$23.75



No. 1

Malleable Iron Handle

Length, inches.....	24	26
List Price, per dozen.....	\$33.20	\$34.95
Length, inches.....	28	30
List Price, per dozen.....	\$36.70	\$38.50

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Machine Knives

ON the following pages are illustrated a few of the principle styles of machine knives. Due to the various shapes, sizes and tempers a full description is not given but we can furnish any special knife desired and any temper required.

Ohlen-Bishop Knives are made from the best selected material ground to the proper gauge, tempered to the right degree and finely finished; the undivided efforts in all stages of their production, combine to maintain their reputation for **Superior Quality.**

We will be pleased to quote prices on any pattern or specification required.



Ohlen-Bishop Machine Knives

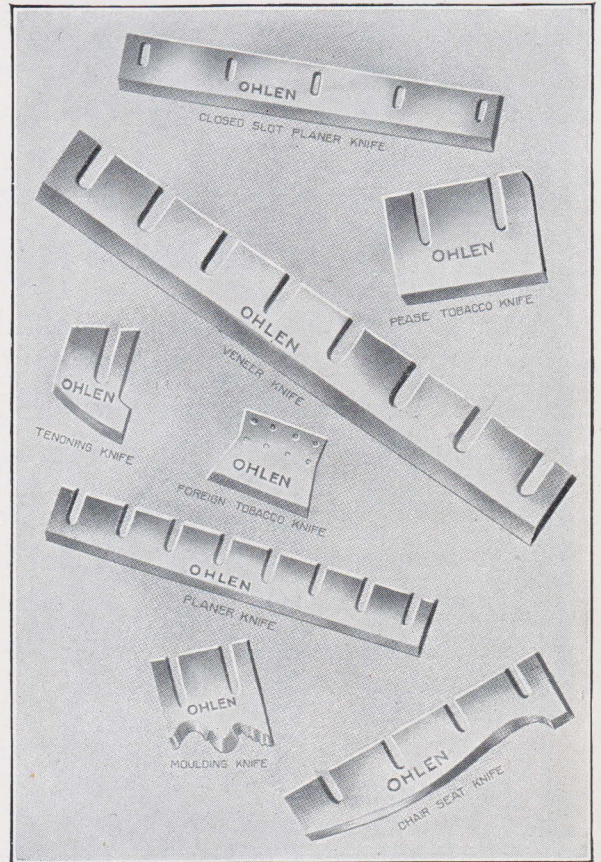
For Planing, Moulding and Veneer Mills

CAREFUL attention should characterize every operation in the manufacture of Planing, Moulding and Tenoning Knives. To produce satisfactory results, save money in grinding and allow the proper running of the machine on which they are used, knives in sets must conform in every respect, be the same thickness and weight and be evenly balanced. The entire length of cutting edge should have both a uniform temper and the exact degree of hardness best adapted to the wood for which it is desired. The size of the bevel, another important feature, should be governed by the thickness, and work required of the knife. Ohlen-Bishop knives have perfect welds thus making a smooth bevel without cracks or seams between iron and steel and eliminating the wedging of shavings.

Veneer manufacturers understand perfectly how imperative it is to secure Veneer Knives, finely tempered, accurately ground and free from imperfections. Owing to the delicate nature of veneer, and the absolutely clear surface required, the knives should be very sharp, cut clean and even, and hold their edges.

If the users of Veneer Knives could see the careful methods employed by us on knives of this kind they would soon realize why Ohlen-Bishop knives produce such smooth and perfect veneer.

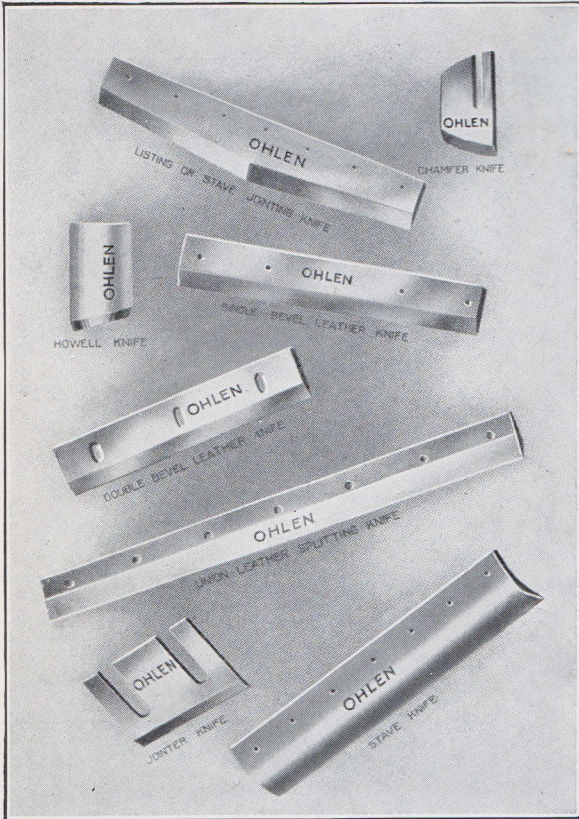
Write for Prices



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Machine Knives

For Coopers' and Barrel Manufacturers, Tanneries and Leather Splitters



KNIVES used in the production of staves, barrels and kegs are taxed to the utmost, owing to the peculiar method of manufacture, and users of Stave, Listing, Chamfer and other knives for this purpose know the importance of securing Knives which are perfect in every respect. They know too well how often their output is greatly reduced—because of a poor Knife. They realize the time and money lost in grinding and repairs when poor Knives are used on their machines.

After trying other makes and meeting with the difficulties to which Knives of this class are subjected, manufacturers invariably find success in Ohlen-Bishop Knives.

Without a question, the most difficult knives to make are used by leather manufacturers. They know from experience how hard it is to secure a **PERFECT LEATHER KNIFE**, combining the edge of a razor with the greatest strength and

efficiency. They realize the saving in time, patience and money which a good knife means, and prize it above all other classes of machinery.

Users of Leather Knives know that Knives of this description must be made accurately in order to turn out high grade leather products. If the knives are at fault many costly skins may be spoiled at a great loss to the manufacturer. Because of this fact we have made our Leather Knives with infinite care and we believe that no other make of Knife can compare with the edge-holding quality so noticeable in Ohlen-Bishop Leather Knives.

Write for Prices

SAW SERVICE AND SATISFACTION



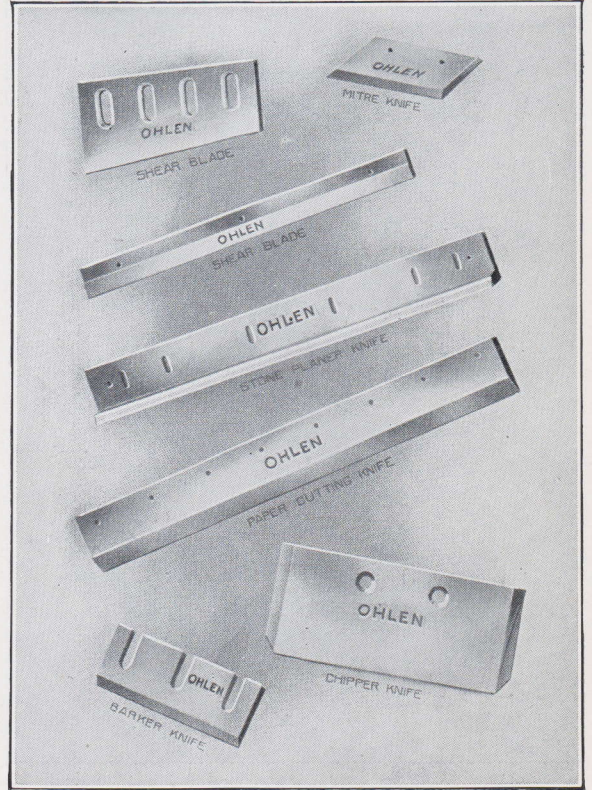
Ohlen-Bishop Machine Knives

For Paper Manufacturers and Lithographers

PAPER manufacturers, printers, bookbinders, lithographers and other users of Paper Knives appreciate from experience the importance of buying knives which can be used on the finest work, without danger of leaving ridges and uneven edges on their catalogs, booklets, and circulars. Knives which cut faster, easier and last longer, mean dollars saved to them in grinding and costs. In addition to this, new customers are more easily secured and old accounts are held.

Because Ohlen-Bishop Paper Knives cut clean and even, hold their edge against the toughest stock, require less grinding and honing and last longer than other makes, they have been recognized as a necessary requirement by many manufacturers.

The demand for our Shear Blades is rapidly increasing, because we realize the severe strain to which Shear Blades are subjected and have maintained the policy that the best is always the cheapest. Steel against steel, the Shear Blade is expected to do its work, from the thin sheet of tin to the heaviest bars of steel. It must always do its duty. Seeing bars of steel cut smooth and even without the slightest effect on the Shear Blade certainly seems wonderful, and proves that the highest in quality always pays.



Write for Prices



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Machine Knives

High Speed Planer Knives

OHLEN-BISHOP High Speed Planer Knives are made from a high quality tungsten steel with a peculiar evenness of grain and temper, which grinds easily and holds its edge. Our grinding is done with utmost care on magnetic chucks, in order that these knives, which are run in sets, shall conform in every respect, be the same thickness and weight, and be evenly balanced. These qualifications, which are absolutely essential in a high speed knife, make our knives stand up longer and consequently produce a great saving in producing good lumber.



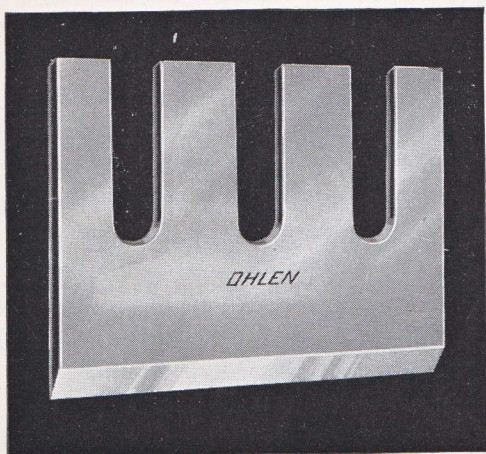
We recommend the following cylinder speeds for High Speed Knives running under high speed conditions. These feeds are based on getting eight to ten knife marks per inch on the lumber.

3000 R. P. M. for a four knife cylinder with a feed of 100 to 125 feet per minute.

3000 R. P. M. for a six knife cylinder with a feed of 150 to 190 feet per minute.

2700 R. P. M. for an eight knife cylinder with a feed of 180 to 225 feet per minute.

Hog Knives



Ohlen-Bishop Hog Knives are made especially adapted for the hard usage that a knife of this type receives. We furnish these knives carefully tempered and balanced, either with or without the corrugations across the slots. If a real high quality Hog Knife is desired, no mistake will be made in ordering a set of OHLEN-BISHOP Hog Knives. **They wear well because they are made well.**

Write for Prices

SAW SERVICE AND SATISFACTION



Ordering Knives

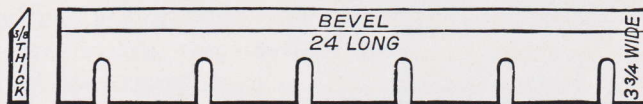
Knife. The term KNIFE when used in connection with Machine Knives means one which has a temper, and is ground sharp ready for use.

Blank. A BLANK is untempered and ordered for the purpose of making moulding and other special cutters of odd shapes. These are sometimes called Sticker Blanks.

Bit Cutters. Knives under six inches long are sometimes called Bits, and small shape Knives are frequently called cutters.

Planer Knife Patterns. The sketch below illustrates the proper method of furnishing Planer Knife Patterns, and a similar drawing of all knives should be sent with order. Lay the old knife, bevel up, on strong manilla paper; carefully mark all around with sharp pencil, showing the slots in their exact location, and whether knives are wanted square back or bevel back. Mark on the pattern the length (meaning the cutting edge) the width (from cutting edge to back of knife) and thickness. This is very important, as the width is frequently greater than length, viz., in short knives. Also be sure and give the diameter of bolts.

Knives in Sets. State how many knives, of each size, are wanted, and the number of knives to each set. We stamp the sets to show which knives are balanced together.



2 Sets, 4 each, Planers 24 x $3\frac{3}{4}$ x $\frac{3}{8}$
6 Slots, 2 x $\frac{3}{4}$ Slotted Head

Slotted Head Planer Knives. Planer Knives for use on slotted head (where bolts are not stationary) do not require patterns, but, to avoid any uncertainty, be sure to state on your order that knives are for slotted head. Be particular to give length, width and thickness of knife; also depth and number of slots in each knife and diameter of bolts.

Sizes of Slots. The size of the slots should be one-sixteenth of an inch larger than the diameter of the bolt used to hold the knife to the machine. Planer Knife slots are usually cut a little over half the distance from back of the knife.

Temper. We temper knives for all classes of wood. If you are undecided about the temper, advise us as to the class of work required, and the kind of lumber and we will deter-



WE SELL NOT ONLY SAWS—BUT

MASTER SAW MAKERS SINCE 1852

mine this point. Temper may be indicated as follows: **Soft**—or easy filing temper. **Medium**—This covers the ordinary requirements when knives are usually ground and dressed with a file. **Hard**—The temper generally used in furniture factories when hardwood is used, and is described as “slow filing” or “no file will barely touch them.” **Very Hard**—or for grinding only.

Moulding Cutters. When ordering moulding cutters, furnish patterns or specify from “The Universal Moulding Book.”

Odd Shapes. It is safest when ordering odd shapes, to mail an old worn knife with the order for information. Be sure to give exact width new knives are desired.

Milled Knives. Samples or accurate drawings should accompany all orders for Milled Knives.

Veneer Knives. Furnish patterns with veneer knife orders, giving length, width, thickness, depth and width of slots, length of bevel, name of machine and manufacturer.

Paper Knife Patterns. Paper Knife patterns should be taken on good manilla paper, rolled for mailing (not folded). Special care should be exercised in locating the holes and giving the exact width and thickness of the knife.

Send Old Knife if Possible. If convenient, it is safest for customer to send us his old Knife, which with the desired width of the new knife, forms the best pattern possible. The expense of shipping is more than offset by the accuracy in dimensions, which we can then furnish.

Stave and Listing Knives. Be sure to give length and width when ordering Stave or Stave Jointer (listing) knives; also name of machine and manufacturer.

High Speed Woodworking Knives. We are prepared to furnish High Speed Woodworking Knives of the best quality. They hold their cutting edges and do an immense amount of work without regrinding. When ordering specify length, width and thickness, number of knives to each set, whether single or double bevel is desired, and the exact angle same is required.

Retempering Knives Not Our Make. While we do not recommend the repairing and retempering of old knives, work of this class will be given our best attention. We however, wish to warn the trade that **we do not retemper knives of other makes except at the owner's risk.**

SAW SERVICE AND SATISFACTION



Proper Care and Grinding of Knives

PROPER treatment and grinding are two of the most important points to the user of Machine Knives, and his satisfaction and success largely depends on whether or not his knives are properly ground, honed and cared for. It is safe to say that ninety percent of the difficulties experienced with knives of any kind, come from the man in the mill who cares for them. We quote here the words of a prominent user of Machine Knives.

“The manufacturer of Knives stands in a relation to his customer different from that of any other manufacturer towards the consumer of his product in that he is so frequently called upon to make good the errors that arise through carelessness or other causes in the handling, treatment or use of the knife he furnishes.

Blame Wrongly Placed. The incorrect position so often taken with reference to knives that have gone wrong can nearly always be traced directly to the pride taken by the man who grinds the knives on his reputation for doing good work. While the pride is in itself a thing to be commended and fostered it should not blind either the man himself or his superiors to his mere fallacies or errors. It is an injustice to his employer as well as to the manufacturer of the knife.”

Have Best Man in Charge of Grinding. Therefore, it is plain that the best man obtainable should be secured to take charge of the grinding and honing and to see that the knives receive proper treatment. It means a saving of time, labor and money, and the bringing about of better results.

Keep Sharp Knives Always Ready. There is no special secret connected with keeping knives in order, probably the best tip is contained in the injunction to have plenty of knives on hand, so that there may never be an accident, or occasion arise, but that there are sharp knives ready to put on the machine. This will prevent the man in charge of grinding or filing from being caught with a rush job, and will enable him to take pains in putting every knife in order.

It is bad policy to even rush the job of putting a knife into a machine, but when it comes to rushing the job of grinding, it is simply ruinous because a **little rushing** with the grinder, may burn the edge or draw the temper, and the result is damage in excess of the whole day's work.

Grind Knives Slowly. Knives must be ground very slowly and carefully; **even the grinders should be run slower than most of them are, and the cut must be made very light so that it will not generate heat.** The bevels of most knives are tapered very slender and a little too much pressure will spoil the cutting edge, besides the heat generated may cause some expansion of the blade, so that the grinding will not be perfectly true.

Use Soft Stone and Emery Wheels. It is probably safe to assert that half of the success of grinding knives is in the selection and use of proper grinding wheels. This refers more particularly to the material entering the wheel and the method of bonding, rather than the design and shape of the wheel, though the latter has some effect. It is an acknowledged fact that very good success can be obtained by the use of the commonly called grindstones, especially if they are very soft. However, as a large percentage of



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grinding is done with emery, carborundum or abrasive wheels, we will devote a little space to their influence on the cutting efficiency of a knife. Of late years, there has, naturally, been new wrinkles, alterations and additions to the general process of making wheels, but too much space would be required to go into details. It may be said, however, that almost any combination of material and bonding can be had. Different manufacturers of wheels will produce specific arguments in favor of their own material, but in the meantime, we must not forget this point—that **what the knife-grinder needs is a soft wheel**, one as soft as practical to do the work. There is less danger of heating and burning the cutting edge with a soft and free-cutting wheel which does the work easier and with no harm to the knife, while hard wheels generally glaze, cut hard and burn the edge. Some expert knife grinders make a practice of getting several new wheels and trying out each one to demonstrate its qualities. If one proves unusually soft and free-cutting, a record of grit and bond is taken for specification on all orders for new wheels.

Do Not Use Small Grinding Wheels. When grinding Planer Knives and various small cutters, straight wheels can be made use of, as well as cup wheels, but for Veneer, Leather, Paper and other knives with long bevels, the straight wheel, unless unusually large, will give too much concave to the bevel, consequently it is better to use the cup wheel.

Use Plenty of Water. The majority of grinding machines are provided with a water attachment; and knife-grinders, to prevent over-heating, should **keep the knife and wheel cool with a good supply of water.** Do not allow oil or grease to get into the water attachment, and from there to the grinding wheel. After oil has once reached the wheel, it is next to impossible to keep the face from glazing, which will quickly heat and burn the cutting edges.

Use the Emery Wheel Dresser. Frequent recourse to the emery wheel dresser is the only remedy. This is very important and should not be overlooked.

Grinding Stave Knives. Stave Knives, when leaving our plant, are always ground to the proper shape. Great care should be taken regrinding, particularly the bevel, so that the original curve is followed, and knives are not ground too thin. Years of manufacturing experience has proven that, by carefully observing the above instructions, the greatest life and best service will be obtained.

Better Results After First Grinding. Another point well to be remembered is the fact that the longer you can keep a knife on a machine without having to change and grind it, the better the cutting will be. That is in whetting, barring gaps and accidental breaks, **a knife is in better shape after the first grinding for doing true work than when it was first put on.** Then as long as you keep the edge in good shape, properly whetted, it will do good work.

Knives Burned By Grinding. There is no immediate indication of overheating when the temper of a knife is being drawn; it is only after the grinding wheel again passes over the knife, that the slightest blue mark will appear. This is all that is visible to the eye, but try the knife with a file and you will find it very soft. Take a hammer, strike the edge lightly and the edge will turn over completely; then if you strike harder, it will break out further back from the cutting edge. This indicates that only the cutting edge is overheated, and if it is carefully ground off, the knife will again be ready for use. This remedy, while known only to expert grinders, proves very successful; but it is far better and more economical to be careful when grinding and prevent the overheating of the cutting edge. "An ounce of prevention is worth a pound of cure."

SAW SERVICE AND SATISFACTION



Ohlen-Bishop Files

FILES made to cut, not to rub or slide over the work, require an even, draw-filed blank; full, correctly shaped teeth cut on the proper angle—teeth that remove chips on each stroke and do not fill up. Quality steel, extreme hardness combined with toughness, produces the keen, edge-holding teeth, and the joy of feeling the file cut right into the hardened steel.

**THAT'S THE
REAL TEST.**

**FILING
CROSSCUT
and
CIRCULAR
SAWS**

OHLEN FILES

MANUFACTURED BY
THE OHLEN - BISHOP COMPANY
COLUMBUS, OHIO, U.S.A.

**OHLEN HIGH QUALITY FILES
ESPECIALLY CUT TEMPERED
AND TESTED FOR QUICK,
CORRECT AND ECONOMICAL
FILING OF SAWS AND TOOLS**

BEST BY TEST

OHLEN-BISHOP FILES

COLUMBUS, OHIO

SAWS **KNIVES** **FILES**

MASTER SAW MAKERS SINCE 1852

MACHINE

**Hardened
teeth against
hardened
steel.**

**That's where
OHLEN-BISHOP
FILES
are the leaders.**

There's real joy in the long, clean, easy strokes of the OHLEN-BISHOP FILE. You know what you can do with it; you can depend on it to help you turn out the best job whether you're an expert or a handy man around the house. Furthermore, these good qualities are lasting.

The Reasons

AT the Ohlen-Bishop Plant every facility for the production of fine Files, special methods of cutting and finishing, are provided.

Made by expert metallurgists and mechanics who have made a life study of their work and using only the highest grade of Steel, no detail of Quality manufacturing is omitted. Each file must be soundly tempered, teeth cut deep and sharp, inspected for most minute defects of workmanship or materials before it receives the O. K. of the Ohlen-Bishop Brand.

These are the reasons why Ohlen-Bishop Files and Rasps are so extensively used the world over.

We solicit your orders. Service is the watchword of our house. Service means prompt shipments and careful attention to your wants.

The Proper Manner to Order Files

- First:** The length, determined by measuring from the heel (or where the tang begins) to the point.
- Second:** The shape, Flat, Mill, Round, Half Round, Taper, Square, etc., as listed on pages 78 and 79, which are considered standard styles and sufficient to meet any requirements.
- Third:** The Cut by this is meant the kind or character, coarseness or fineness of teeth, which are designated as follows; as to character of teeth, Single Cut, which has one unbroken row of teeth or chisel cuts across its surface, parallel with each other, but on an oblique angle to the length of the file. This cut is used on all Mill Files, Taper Saw Files, etc. The Double Cut which has two rows of teeth or chisel cuts crossing each other, one row being finer than the other, Machinist's Files as Flat, Hand, Square, Round, Half Round are Double Cut. Rasp Cut Files have no parallel rows of teeth but separate teeth made by a single pointed tool or punch. The coarseness of cut is designated as follows: Bastard, Second Cut and Smooth. There are also files made coarser than Bastard, namely Rough and Coarse; also finer than Smooth, namely, Dead Smooth.

SAW SERVICE AND SATISFACTION



Look
for the

OHLEN SPECIAL CROSS CUT SAW FILES
MANUFACTURED BY THE OHLEN-BISHOP COMPANY
COLUMBUS, OHIO, U.S.A.

OHLEN HIGH QUALITY FILES
ESPECIALLY CUT TEMPERED
AND TESTED FOR QUICK,
CORRECT AND ECONOMICAL
FILING OF CROSS CUT SAWS

BEST BY TEST
OHLEN-BISHOP FILES
COLUMBUS, OHIO
KNIVES
FILES
MASTER SAW MAKERS SINCE 1852

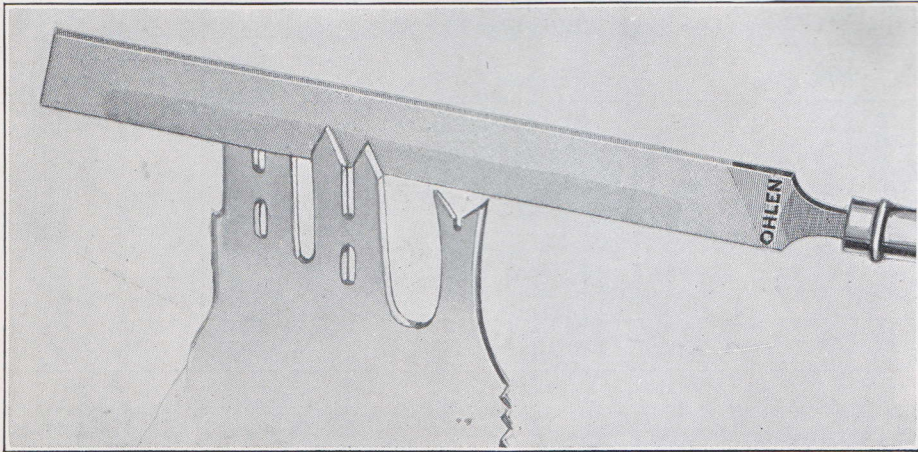
MACHINE
SAWS

Ohlen
Label



WE SELL NOT ONLY SAWS—BUT

Ohlen Special Cross Cut Files



Furnished in the following sizes:

Inch	Price Per Dozen
6.....	\$4.60
7.....	4.90
8.....	5.80
10.....	7.80

Have you ever used an Ohlen Special Cross-Cut File? If not you have missed that feeling of joy which every skilled mechanic experiences when he feels that his task is completed correctly and economically. These files, because they are uniform in width, give 15 or 20 percent more work than a mill file (the shape of which is tapered at the point) so commonly used for cross-cut filing.

Let us help you save money on your next order for cross-cut files by giving you a file which will stand up longer and turn out a better filed cross-cut saw.

See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop Files and Rasps

LIST PRICE PER DOZEN

Inch	TAPERS		Slim Taper	Extra Slim Taper	BANDSAW BLUNT & TAPER		Double Ender	Pit Saw	Special Hand Saw	HAND SAW	
	Sgl. Cut	Dbl. Cut			Regular	Slim				Blunt	Blunt Slim
3	\$2.10	-----	\$2.10	-----	-----	-----	-----	-----	-----	-----	-----
3½	2.10	-----	2.10	-----	-----	-----	-----	-----	-----	-----	-----
4	2.20	\$2.90	2.20	\$2.20	\$2.90	-----	-----	\$4.80	-----	\$2.60	\$2.50
4½	2.40	3.10	2.30	2.30	3.10	-----	-----	5.40	-----	3.00	-----
5	2.60	3.50	2.50	2.50	3.50	-----	-----	5.40	3.10	3.40	3.10
5½	3.00	-----	2.90	2.90	-----	-----	-----	6.10	3.80	-----	-----
6	3.40	4.70	3.10	3.10	4.70	\$3.90	-----	6.10	4.50	4.30	3.80
7	4.30	5.60	3.80	3.80	5.60	-----	\$3.50	7.00	-----	5.40	-----
8	5.40	6.70	4.50	4.50	6.70	5.30	3.90	7.50	-----	6.60	5.40
9	-----	-----	-----	-----	-----	-----	4.40	-----	-----	-----	-----
10	8.10	-----	6.40	-----	9.70	-----	4.90	-----	-----	-----	-----
12	12.50	-----	9.50	-----	-----	-----	-----	-----	-----	-----	-----

Inch	WARDING			KNIFE			Planer Knife	Cant Saw	Cross Cut	Cabinet Files	LEAD FLOAT and WOOD FILES	
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth					Flat	Hf. Rd.
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	-----	\$5.40	-----	\$8.10	\$4.80	\$7.00
8	6.40	7.50	8.20	8.50	9.10	9.50	\$6.40	6.40	\$7.50	10.10	6.30	8.50
10	8.70	10.10	11.00	10.10	11.50	12.30	8.60	8.70	9.10	13.70	8.60	10.70
12	-----	-----	-----	13.70	15.20	16.10	-----	-----	-----	18.70	11.80	14.10
14	-----	-----	-----	-----	-----	-----	-----	-----	-----	24.80	16.00	18.50
16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	21.50	24.70

Inch	FLAT WOOD RASPS		HALF ROUND WOOD RASPS		CABINET RASPS		SHOE RASPS		HORSE RASPS	
	Bast.	Smooth	Bast.	Smooth	2d Cut	Smooth	Flat	Hf. Rd.	Plain ½ File	Tanged
6	-----	-----	\$8.10	\$10.10	\$10.10	\$11.70	-----	-----	-----	-----
8	\$9.40	\$12.80	10.10	13.70	12.80	15.50	\$10.10	\$10.10	-----	-----
9	-----	-----	-----	-----	-----	-----	12.20	12.20	-----	-----
10	12.80	17.50	13.70	18.70	17.50	20.70	13.70	13.70	-----	-----
12	17.50	23.20	18.70	24.80	22.80	26.80	-----	-----	\$12.80	\$16.80
13	-----	-----	-----	-----	-----	-----	-----	-----	-----	19.60
14	23.20	30.80	24.80	32.90	29.60	33.90	-----	-----	17.80	23.10
15	-----	-----	-----	-----	-----	-----	-----	-----	20.90	-----
16	30.80	40.90	32.90	43.60	-----	-----	-----	-----	24.40	32.20
18	-----	-----	-----	-----	-----	-----	-----	-----	32.90	-----

The above list comprises all of the kinds, sizes, and cuts of files that will be regularly carried in stock. Anything differing from these files will be considered as special and will not be manufactured except in cases of urgent necessity; and when manufactured, price will be based strictly upon cost of material and cost of manufacture at time goods are made.

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop Files and Rasps

LIST PRICE PER DOZEN

Inch	MILL			MILL 1 R. E.		MILL 2 R. E.		MILL BLUNT		Square Blunt Bast.	Round Blunt Bast.
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut		
4	\$3.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5	3.20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6	3.50	\$4.00	\$4.50	\$3.90	\$4.50	\$4.40	\$5.00	\$3.90	\$4.60	-----	-----
7	3.90	4.60	4.90	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	\$7.40	\$5.60
9	4.90	5.80	6.30	5.50	6.50	6.50	7.30	-----	-----	-----	-----
10	5.60	6.40	7.00	6.30	7.20	7.00	-----	6.70	7.80	10.20	7.50
12	7.50	8.60	9.40	8.40	9.70	9.40	10.80	-----	-----	13.90	10.70
14	10.70	12.20	13.10	12.00	-----	-----	-----	-----	-----	18.70	14.70
16	14.70	16.80	17.90	-----	-----	-----	-----	-----	-----	25.10	-----
18	20.20	-----	-----	-----	-----	-----	-----	-----	-----	32.80	-----

Inch	FLAT			HAND			PILLAR			HAND FINISHING	
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	2d Cut	Smooth
4	\$3.70	\$4.30	\$4.70	\$3.70	\$4.30	\$4.80	-----	-----	-----	-----	-----
5	3.90	4.60	4.90	3.90	4.70	5.30	-----	-----	-----	-----	-----
6	4.30	4.80	5.30	4.30	5.10	5.60	\$4.30	\$5.10	\$5.60	-----	-----
7	4.80	5.50	6.10	4.90	5.80	6.30	-----	-----	-----	-----	-----
8	5.30	6.10	6.60	5.40	6.30	6.70	5.40	6.30	6.70	-----	-----
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	7.50	8.70	9.40	-----	-----
12	9.70	11.00	12.10	10.70	12.30	13.50	10.70	12.30	13.50	\$15.20	\$16.20
14	13.30	15.30	16.70	15.00	17.00	18.20	15.00	-----	-----	20.60	21.70
16	17.80	20.10	22.30	20.10	22.80	24.20	20.10	-----	-----	-----	-----
18	23.90	26.80	29.20	26.80	29.90	31.50	-----	-----	-----	-----	-----
20	31.50	-----	-----	35.10	-----	-----	-----	-----	-----	-----	-----

Inch	ROUND			SQUARE			HALF ROUND			THREE SQUARE		
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	\$3.00	\$3.50	\$3.90	\$3.80	\$4.60	\$4.90	\$4.80	\$5.60	\$6.10	\$4.80	\$5.60	\$6.10
5	3.20	3.80	4.10	4.10	4.80	5.30	5.40	6.10	6.40	5.40	6.10	6.40
6	3.50	4.00	4.50	4.60	5.10	5.50	6.10	6.70	7.10	6.10	6.70	7.10
7	3.90	4.60	4.90	5.10	5.80	6.30	7.00	7.70	8.20	7.00	7.70	8.20
8	4.30	4.90	5.40	5.50	6.30	7.00	7.50	8.30	8.90	7.50	8.30	8.90
9	4.90	5.80	6.30	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	5.60	6.40	7.00	7.40	8.50	9.10	9.10	10.10	10.70	9.10	10.10	10.70
12	7.50	8.60	9.40	10.20	11.50	12.80	11.80	13.00	13.90	11.80	13.00	13.90
14	10.70	12.20	13.10	13.90	16.10	17.50	15.50	17.00	18.30	15.50	17.00	18.30
16	14.70	16.80	17.90	18.70	21.20	23.30	20.60	22.50	24.20	20.60	22.50	24.20
18	20.20	22.70	24.30	25.10	28.20	30.40	27.50	29.90	32.00	27.50	29.90	32.00
20	27.40	-----	-----	32.80	-----	-----	-----	-----	-----	-----	-----	-----

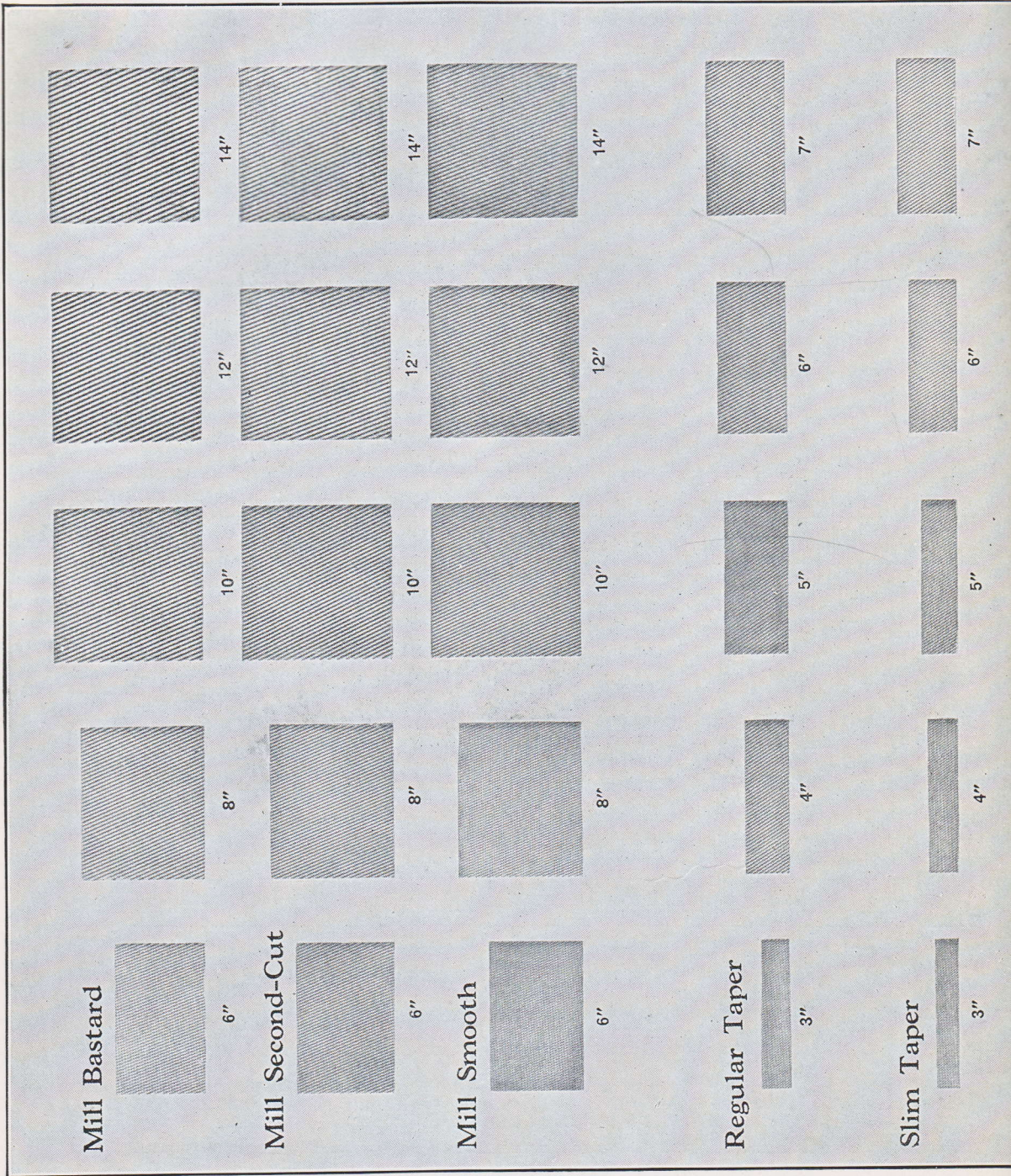
See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

The Illustrations below show the different cuts of Teeth in the various lengths of Single Cut, Flat Surface Files

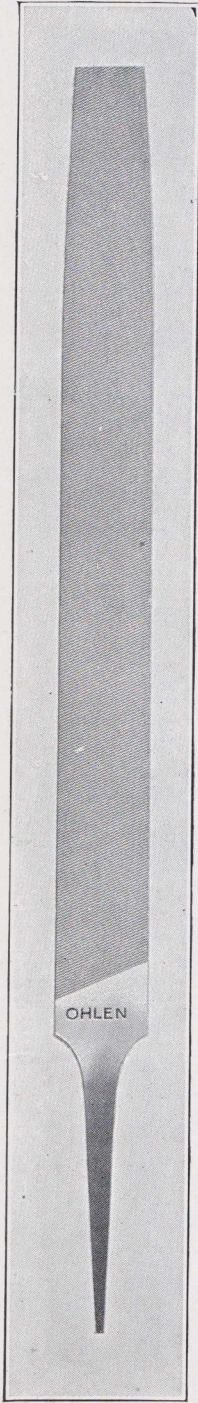


WE SELL NOT ONLY SAWS—BUT

Mill Files

Mill Files are used principally for filing Mill Saws, Planer Knives and on similar work. They are tapered in shape, taper extending from a point about one-third of the distance from point back to the heel. Most mechanics prefer the Bastard Cut but in some cases Second Cut and Mill Smooth are desired.

Mill Bastard File



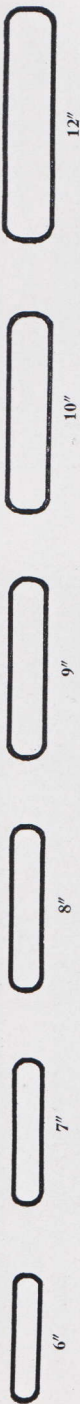
Cross Sections of Various Lengths of Mill Files



Cross Sections of Various Lengths of Mill Files—one round edge



Cross Sections of Various Lengths of Mill Files—two round edges



Ohlen Standards

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

LIST PRICE PER DOZEN

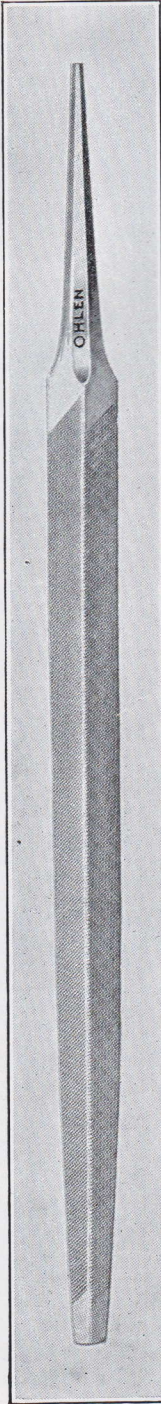
Inch	Mill		Mill 1 R. E.		Mill 2 R. E.		Mill Blunt	
	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut
4	\$3.00							
5	3.20							
6	3.50	\$4.00	\$3.90	\$4.50	\$4.40	\$5.00	\$4.00	\$4.60
7	3.90	4.60	4.40	5.20	4.90	5.60	4.30	4.90
8	4.30	4.90	4.80	5.50	5.40	6.10	4.90	5.80
9	4.90	5.80	5.50	6.50	6.10	7.30	6.10	7.80
10	5.60	6.40	6.30	7.20	7.00	8.40	6.70	8.40
12	7.50	8.60	8.40	9.70	9.40	10.80		
14	10.70	12.20	12.00					
16	14.70	16.80						
18	20.20							

For Complete Prices on Files See Pages 78-79
See Discount Sheet

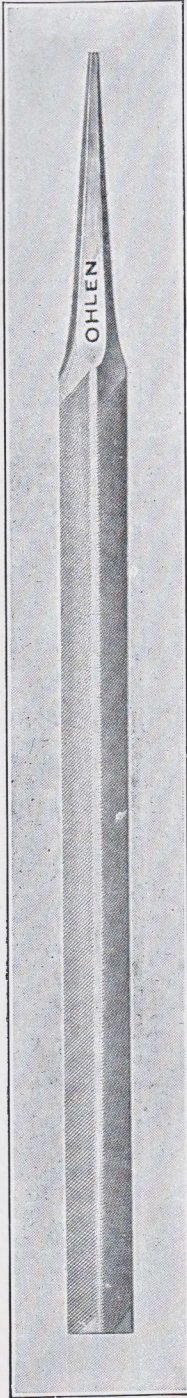


Taper Files

Taper Files used principally for filing Hand Saws and Band Saws. They are three cornered or triangular in shape and gradually tapered from point to heel.



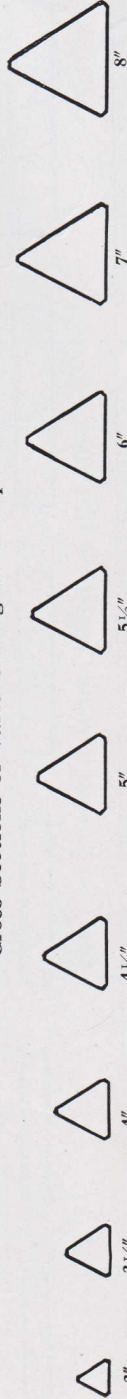
Taper Saw Files are used for filing hand saws. Edges are cut with one row of teeth.
Taper Band Saw Files have rounded edges cut with two rows of teeth.



Blunt Band Saw Files are the same as taper saw files excepting shape as the end is blunt and the edges are rounded and cut with two parallel rows of teeth for filing band saws.
Hand Saw Blunt Files are the same shape as blunt band saw files excepting that the edges are set and cut with one row of teeth.

Taper Saw File

Cross Sections of Various Lengths of Taper Files



LIST PRICE PER DOZEN

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Taper Saw		Inch	Taper Band	Blunt Band	Hand Saw Blunt
	Single Cut	Double Cut				
3	\$2.10	.....	3	\$2.90	.....	.....
3 1/2	2.10	\$2.90	3 1/2	3.10	\$2.90	\$2.60
4	2.20	3.10	4	3.50	3.10	3.00
4 1/2	2.40	2.60	4 1/2	4.70	3.50	3.40
5	2.60	3.00	5	5.60	4.70	4.30
5 1/2	3.00	3.40	5 1/2	6.70	5.60	5.40
6	3.40	4.30	6	9.70	6.70	6.60
7	4.30	5.40	7	.....	.....	.....
8	5.40	.....	8	.....	.....	.....
9	.....	.....	9	.....	.....	.....
10	8.10	.....	10	.....	.....	.....
12	12.50	.....	12	.....	.....	.....

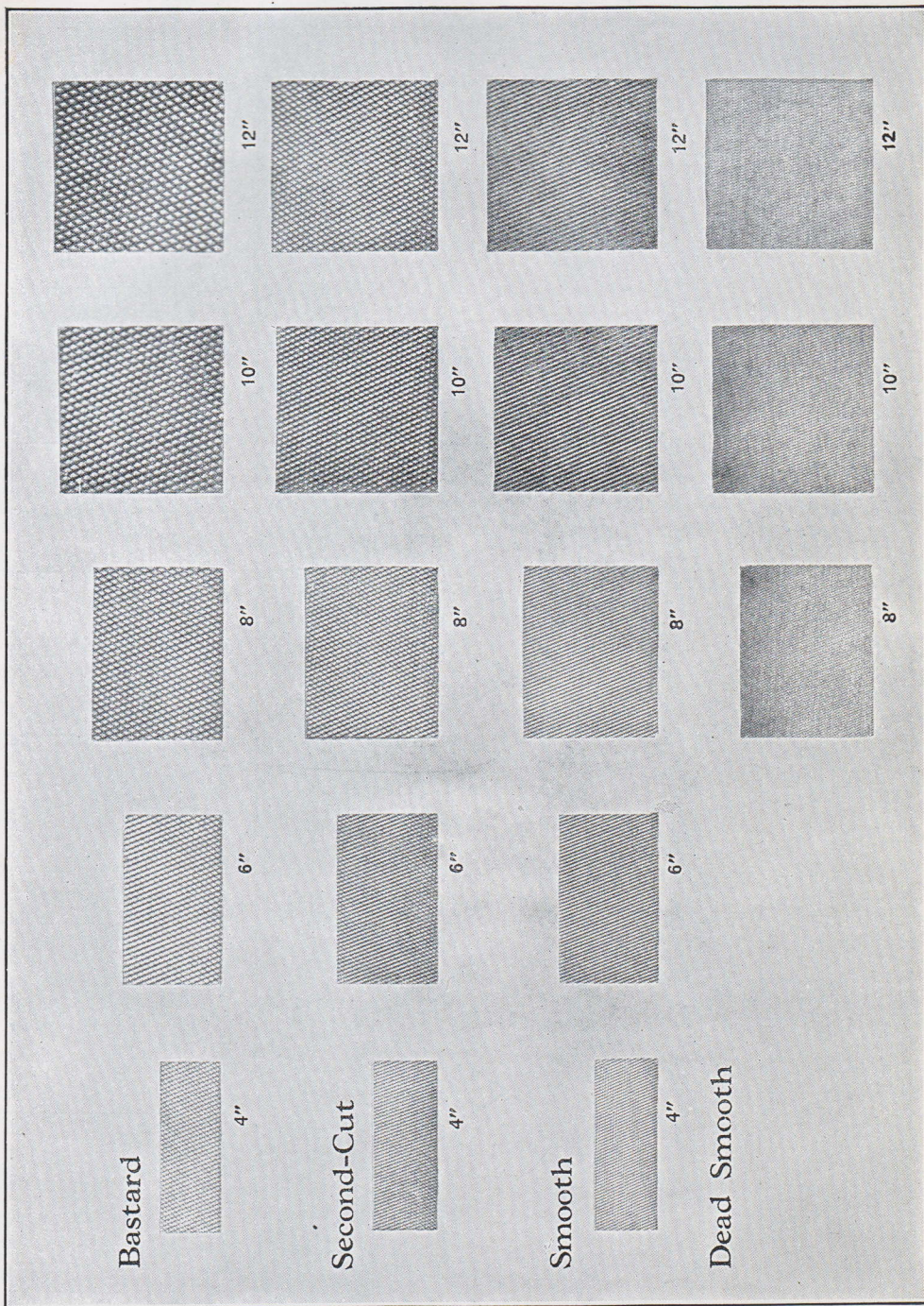
For Complete Prices on Files See Pages 78-79 See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

THE OHLEN-BISHOP COMPANY

The illustrations below show the different cuts of Teeth in the various lengths of double cut, flat surfaced files.

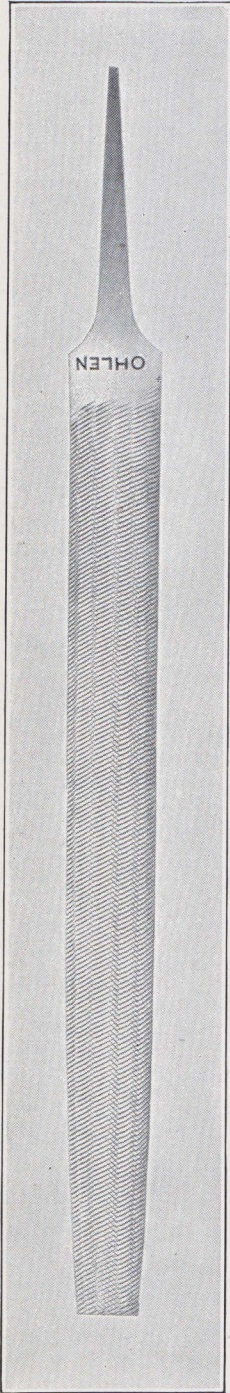


WE SELL NOT ONLY SAWS—BUT

Flat Files

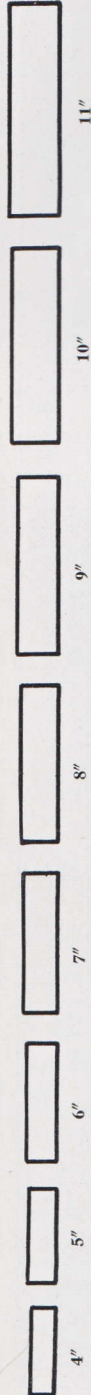
Flat Files are tapered both in width and thickness and have open cut, widely spaced teeth. They are used principally on soft metals.

Flat Bastard File

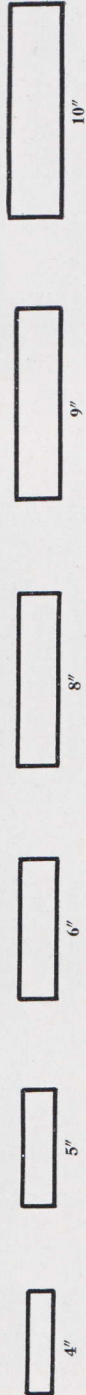


Hand Files are similar to flat files but are tapered in thickness with one uncut edge and are of uniform width. Used mainly on flat surfaces because of their shape and safe edge.

Cross Sections of Various Lengths of Flat Files



Cross Sections of Various Lengths of Hand Files



LIST PRICE PER DOZEN

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Flat			Hand		
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth
4	\$3.70	\$4.30	\$4.70	\$3.70	\$4.30	\$4.80
5	3.90	4.60	4.90	3.90	4.70	5.30
6	4.30	4.80	5.30	4.30	5.10	5.60
7	4.80	5.50	6.10	4.90	5.80	6.30
8	5.30	6.10	6.60	5.40	6.30	6.70
9	5.80	7.20	7.90	6.70	7.80	8.30
10	6.90	8.10	8.70	7.50	8.70	9.40
12	11.00	11.00	12.10	10.70	12.30	13.50
14	13.30	15.30	16.70	15.00	17.00	18.20
16	17.80	20.10	22.30	20.10	22.80	24.20
18	23.00	26.80	29.20	26.80	29.90	31.50
20	31.50	.....	.....	35.10	.....	.....

For Complete Prices on Files See Pages 78-79

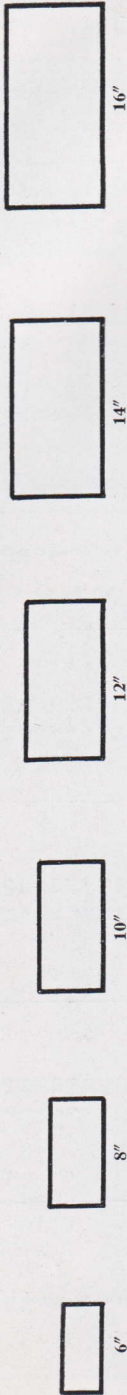
See Discount Sheet



Pillar Files

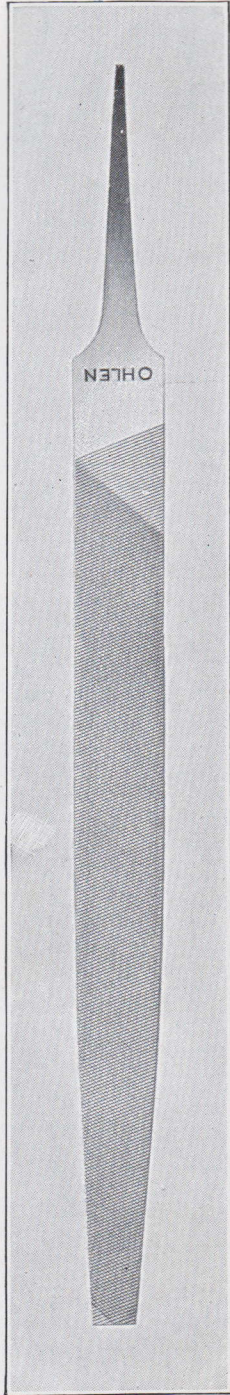
Are similar to, but narrower than, Hand Files. One edge is uncut. Used principally in machine shops where a narrow file is required.

Cross Sections of Various Lengths of Pillar Files



Warding File. Very thin with an extreme taper to point; uniform thickness.

Warding File



Cross Sections of Various Lengths of Warding Files



LIST PRICE PER DOZEN
 Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Pillar			Warding			
	Bast.	2d Cut	Smooth	Inch	Bast.	2d Cut	Smooth
4	.....	.....	.....	4	\$4.00	\$4.80	\$5.40
5	\$4.30	\$5.10	\$5.60	5	4.50	5.30	5.80
6	5.40	6.30	6.70	6	4.90	5.90	6.40
8	7.50	8.70	9.40	8	6.40	7.50	8.20
10	10.70	12.30	13.50	10	8.70	10.10	11.00
12	15.00	.....	.....	12	.....	.....	.....
14	20.10	.....	.....	14	.....	.....	.....
16	.....	.....	.....	16	.....	.....	.....

For Complete Prices on Files See Pages 78-79
 See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Square Files Square Bastard File

Are furnished either tapered or blunt shape. Used principally for enlarging rectangular holes.

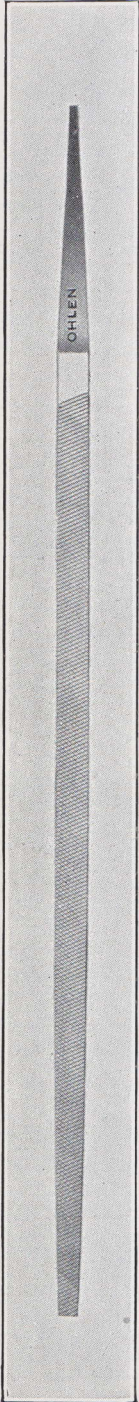
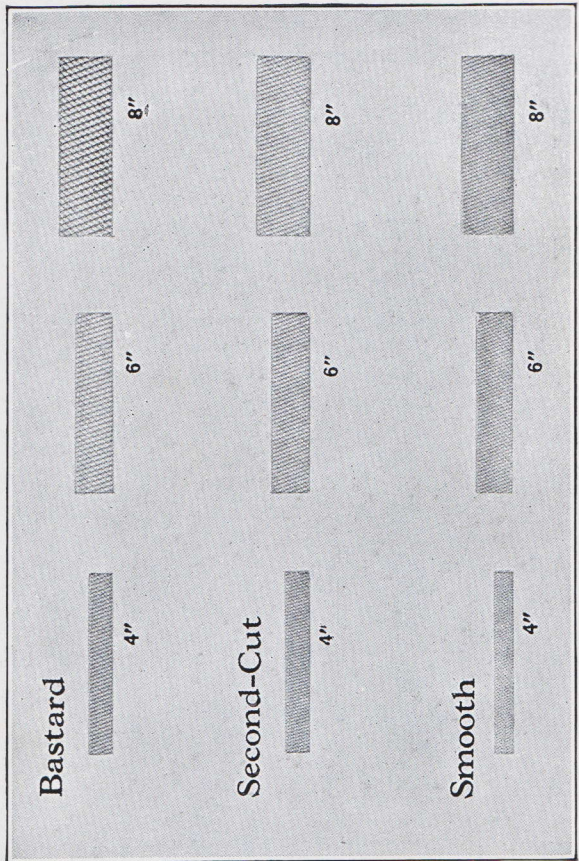
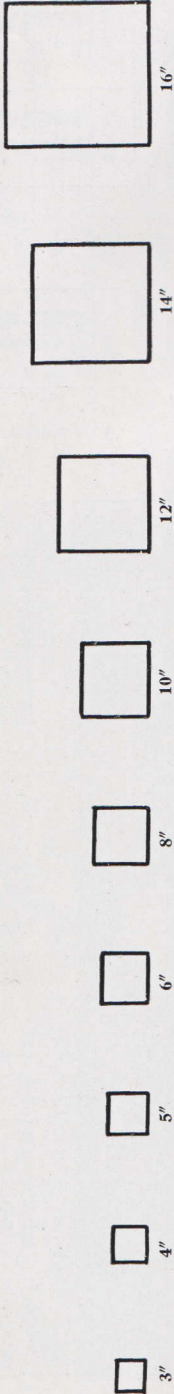


Illustration showing the variations in the cut of the different lengths of Square and Three Square Files. These files are double cut in bastard, second-cut, and smooth.

Cross Sections of Various Lengths of Square Files



LIST PRICE PER DOZEN

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Square		
	Blunt Bast.	2d Cut	Smooth
4	\$3.80	\$4.60	\$4.90
5	4.10	4.80	5.30
6	4.60	5.10	5.50
7	5.10	5.80	6.30
8	5.50	\$7.40	7.00
9			
10	7.40	10.20	9.10
12	10.20	13.90	12.80
14	13.90	18.70	17.50
16	18.70	25.10	23.30
18	25.10	32.80	30.40
20	32.80		

For Complete Prices on Files
See Pages 78-79

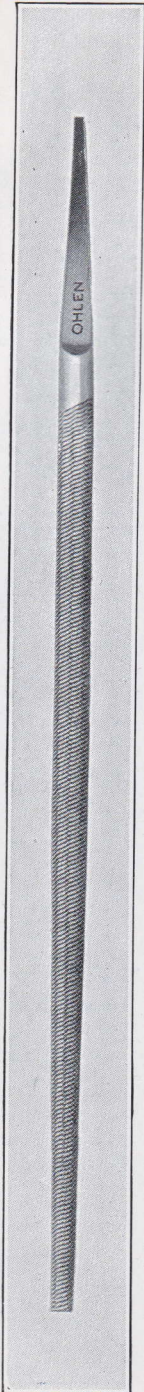
See Discount Sheet

SAW SERVICE AND SATISFACTION

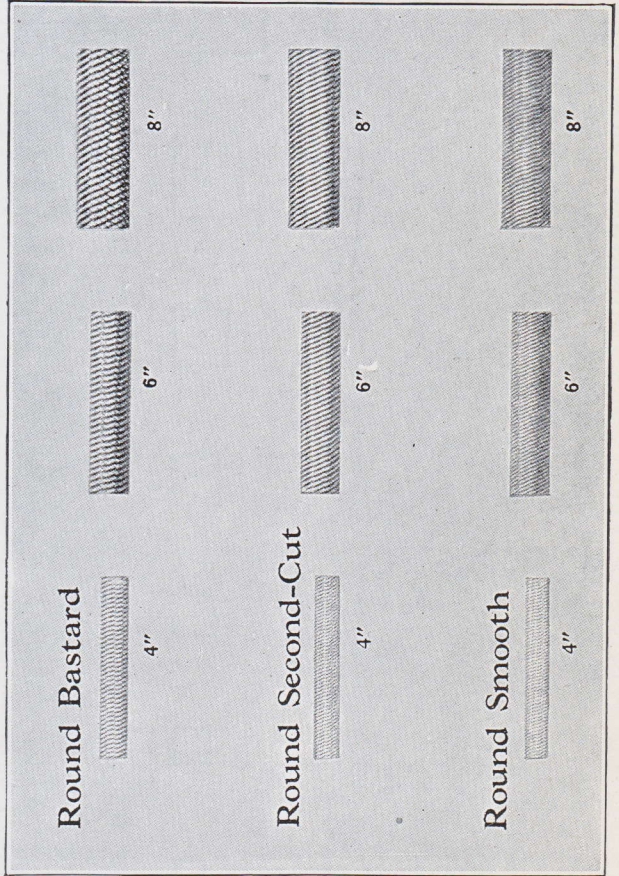
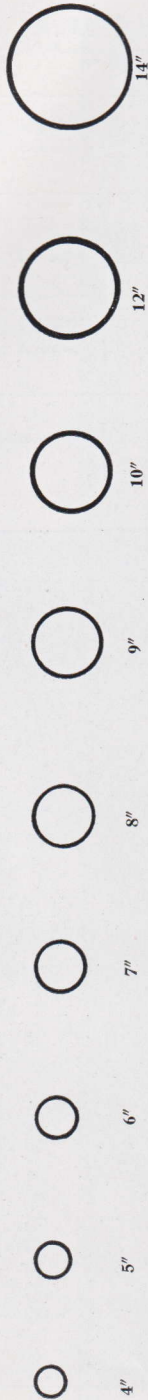


Round Files

Also known as Rat-tail Files. These Files are tapered and used for enlarging Circular holes.
Round Bastard File



Cross Sections of Various Lengths of Round Files



LIST PRICE PER DOZEN

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Round			Smooth
	Bast.	Blunt Bast.	2d Cut	
4	\$3.00	.....	\$3.50	\$3.90
5	3.20	.....	3.80	4.10
6	3.50	.....	4.00	4.50
7	3.90	.....	4.60	4.90
8	4.30	5.60	4.90	5.40
9	4.90	.....	5.80	6.30
10	5.60	7.50	6.40	7.00
12	7.50	10.70	8.60	9.40
14	10.70	14.70	12.20	13.10
16	14.70	.....	16.80	17.90
18	20.20	.....	22.70	24.30
20	27.40	.....	.....	.....

For Complete Prices on Files

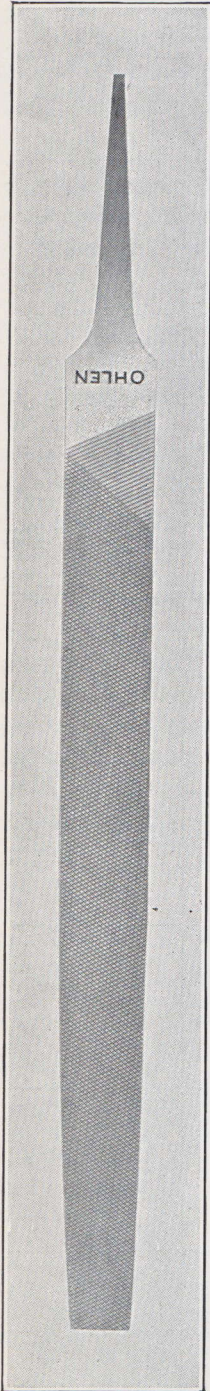
See Pages 78-79

See Discount Sheet

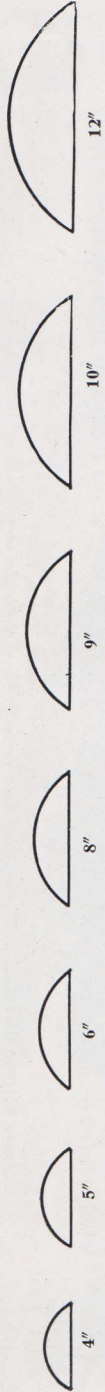


WE SELL NOT ONLY SAWS—BUT

Half Round Files
Half Round Bastard File



Cross Sections of Various Lengths of Half Round Files



The difference in the Cut of different lengths of Half Round Files is illustrated on this page. Half Round Files are double cut and are furnished either bastard, second cut or smooth in coarseness.

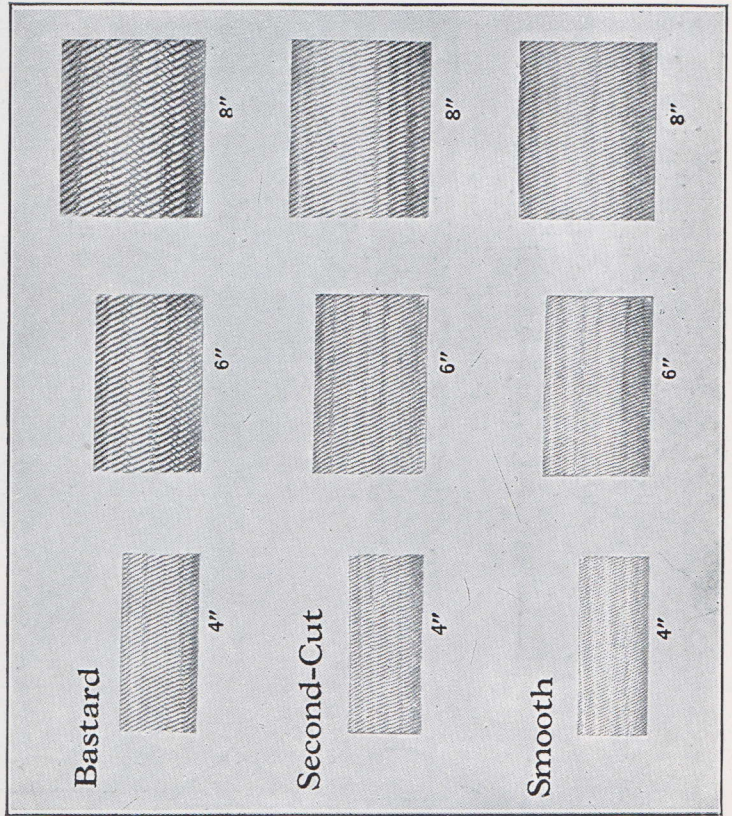
LIST PRICE PER DOZEN

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Half Round		
	Bastard	2d Cut	Smooth
4	\$4.80	\$5.60	\$6.10
5	5.40	6.10	6.40
6	6.10	6.70	7.20
7	7.00	7.70	8.20
8	7.50	8.30	8.90
9			
10	9.10	10.10	10.70
12	11.80	13.00	13.90
14	15.50	17.00	18.30
16	20.60	22.50	24.20
18	27.50	29.90	32.00

For Complete Prices on Files See Pages 78-79

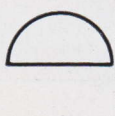
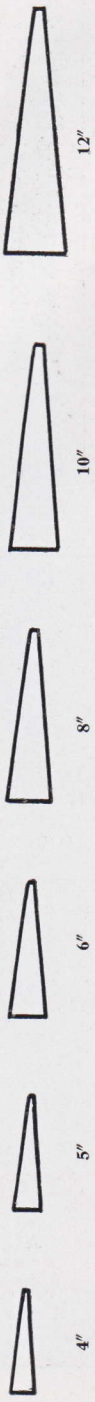
See Discount Sheet



Knife Files

Knife Files are double cut on the flat sides. The back is uncut and the thin edge Single cut. They are tapered in width and thickness and end of File is rounded similar to a pocket knife blade.

Cross Sections of the Various Lengths of Knife Files



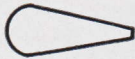
End Section of Pit Saw File



End Section of Planer Knife File



End Section of Cant Saw File



End Section of Gt. American File



End Section of Cabinet File

Pit Saw Files are semi circular and blunt in shape. Filing pit and frame saws is their principle use.

Cant Saw Files are used for filing "M" Tooth Cross Cut Saws and Wood Saw Blades.

Cabinet Files are double-cut and tapered. Used for work in wood. Although the same shape, it is slightly wider and thinner than regular half-round file. Naturally the teeth are larger and more widely spaced because of the softer nature of wood.

Planer Knife File. A double-end file without a Tang and used for sharpening planer knives without removing them from machine head. Both ends are single cut both ways towards the center. Planer Knife Files are blunt and same dimensions as Mill Files.

Great American Cross Cut Files. A file made especially for filing American Tooth Cross Cut Saws.

Hook Tooth Files are used for sharpening inserted tooth saws and hook tooth cross cut saws.

Heavy Figures show Files which are specified by the majority of the trade, on which prompt shipment is made.

Inch	Pit Saw	Cant Saw	Planer Knife	Cabinet	Cross Cut Files		
					Special	Cross Cut (Gt. American)	Hook Tooth (Inserted Tooth)
4	\$4.80	.....	.....	.....	.....	.....	.....
4 1/2	5.40	.....	.....	.....	.....	.....	.....
5	6.10	.....	.....	.....	.....	.....	.....
5 1/2	6.10	\$5.40	.....	\$8.10	\$4.60	.....	.....
6	7.00	.....	.....	.....	.....	.....	.....
7	7.50	.....	.....	.....	.....	.....	.....
8	.....	6.40	\$6.40	10.10	5.80	\$7.50	\$8.30
9	.....	.....	8.60	13.70	7.80	9.10	10.10
10	.....	8.70	.....	18.70	.....	.....	.....
12	.....	.....	.....	24.80	.....	.....	.....
14	.....	.....	.....	.....	.....	.....	.....

For Complete Prices on Files See Pages 78-79

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

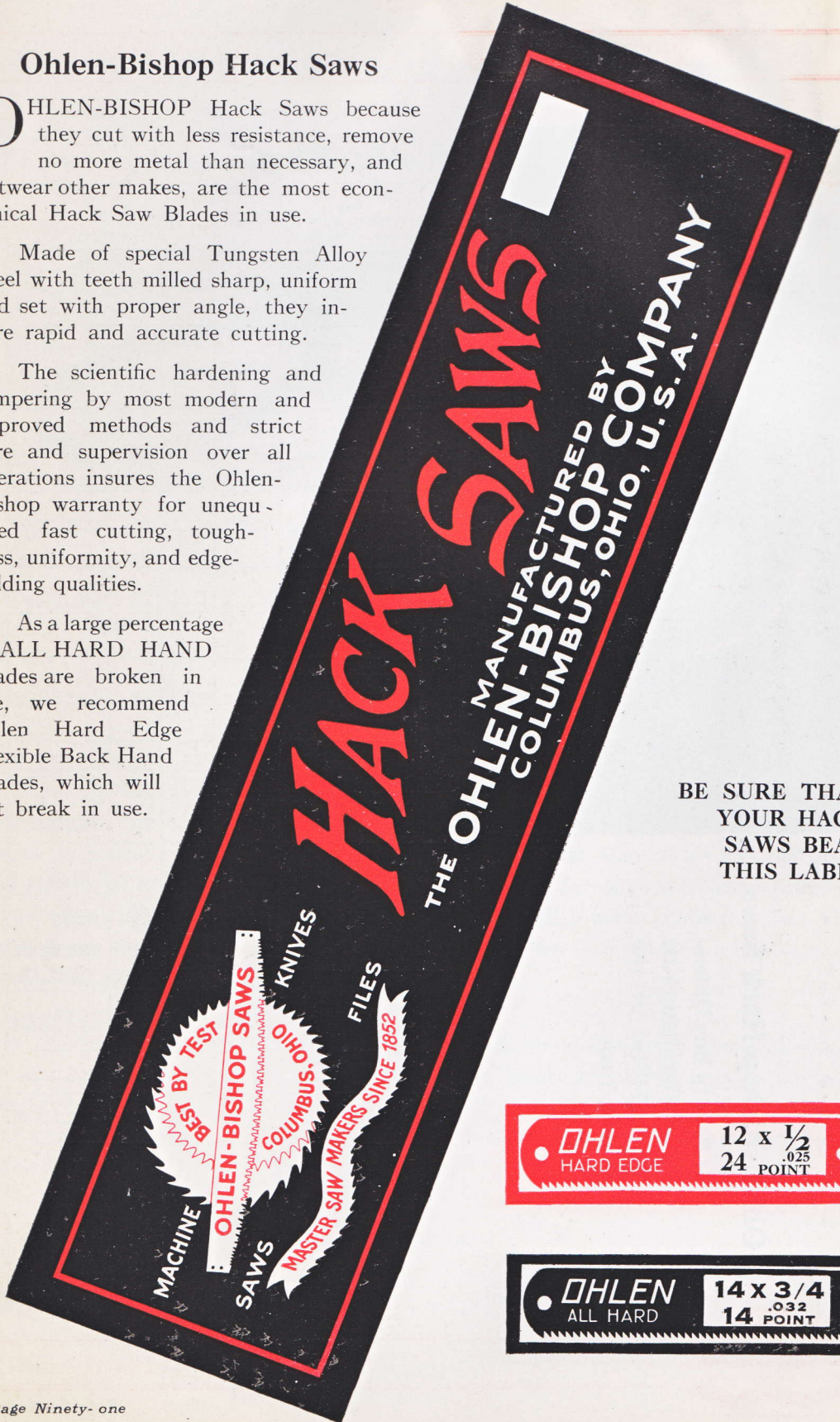
Ohlen-Bishop Hack Saws

OHLEN-BISHOP Hack Saws because they cut with less resistance, remove no more metal than necessary, and outwear other makes, are the most economical Hack Saw Blades in use.

Made of special Tungsten Alloy Steel with teeth milled sharp, uniform and set with proper angle, they insure rapid and accurate cutting.

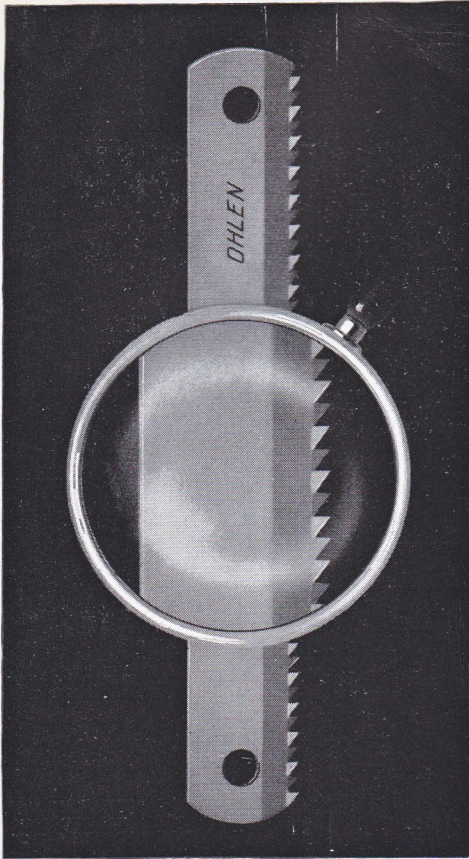
The scientific hardening and tempering by most modern and improved methods and strict care and supervision over all operations insures the Ohlen-Bishop warranty for unequalled fast cutting, toughness, uniformity, and edge-holding qualities.

As a large percentage of ALL HARD HAND Blades are broken in use, we recommend Ohlen Hard Edge Flexible Back Hand Blades, which will not break in use.



BE SURE THAT
YOUR HACK
SAWS BEAR
THIS LABEL





Ohlen-Bishop Hack Saws

It Pays to Buy Ohlen-Bishop Hack Saws with Teeth Milled at the Proper Angle.

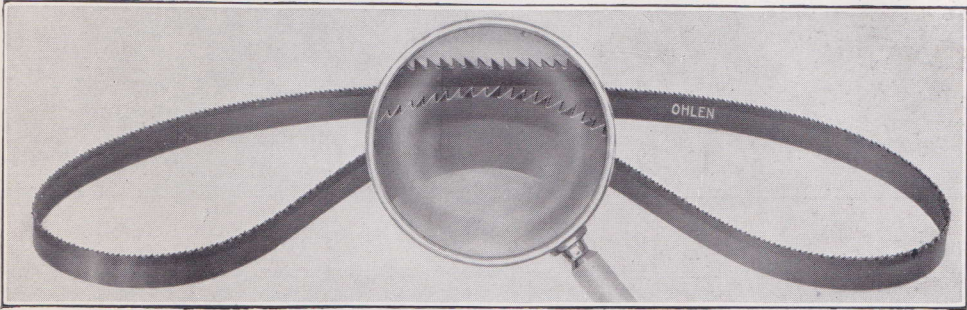


WE SELL NOT ONLY SAWS—BUT

	Length Inches	Width Inches	Thickness Gauge	Standard No. of Teeth Per Inch	List Price	No. of Teeth For Material to be Cut											
						Cast Iron, Brass, Copper, Solid Babbitt,	Bronze, Aluminum	Rails, Machinery Steel, Soft Steel, Annealed Tool Steel, Heavy Structural	Hard Metals, Light Structural Tool Steel,	Heavy-Angles, Channels, Tee Iron, High Speed Steel	Steel Pipe, Iron Pipe, Brass Pipe, Copper Conduit	Light-Angles, Channels, Tee Iron, Ornamental Iron	Drill Rod, Medium Sheet, Metals and Tubing	Thin Sheet Metals and Thin Tubing			
Hard Edge Flexible Back Hand Blades	8	1/4	.025.....23	14 18 24 32	\$8.00	4	14	14	14	14	18	24	24	24	24	32	32
	9	1/2	.025.....23	14 18 24 32	6.00	4 1/2	14	14	14	18	24	24	24	24	24	32	32
	10	1/2	.025.....23	14 18 24 32	10.00	5	14	14	14	18	24	24	24	24	24	32	32
	12	1/2	.025.....23	14 18 24 32	12.00	6	14	14	14	18	24	24	24	24	24	32	32
All Hard Power Blades	12	5/8	.028.....22	14 18 24	16.80	9 1/2	12	14	14	14	18	24	24	24	24	32	32
	12	3/4	.032.....21	14 18 24	21.36	11 1/2	12	14	14	14	18	24	24	24	24	32	32
	14	3/4	.032.....21	14 18 24	24.36	13	12	14	14	14	18	24	24	24	24	32	32
All Hard Medium Machine Blades	12	3/4	.049.....18	10 14	28.92	18	10	10	10	14	14	14	14	14	14	14	14
	14	3/4	.049.....18	10 14	33.12	20 1/4	10	10	10	14	14	14	14	14	14	14	14
All Hard Heavy Duty Machine Blades	12	1	.049.....18	10 14	37.92	23 3/4	10	10	10	14	14	14	14	14	14	14	14
	14	1	.049.....18	10 14	43.56	28 3/4	10	10	10	14	14	14	14	14	14	14	14
	17	1	.049.....18	10 14	51.72	34 3/4	10	10	10	14	14	14	14	14	14	14	14
	18	1	.049.....18	10 14	54.36	35 1/2	10	10	10	14	14	14	14	14	14	14	14
	17	1	.065.....16	10 14	50.88	35 3/4	10	10	10	14	14	14	14	14	14	14	14
14	1	.065.....16	10 14	59.52	44	10	10	10	14	14	14	14	14	14	14	14	
18	1	.065.....16	10 14	62.04	47 3/4	10	10	10	14	14	14	14	14	14	14	14	

See Discount Sheet

Hard Edge Flexible Back Metal Bands



Hard Edge Flexible Back Metal Bands furnished in the following sizes:—

Size	Price per Foot	Brazing per Saw
1/2 x 025	.07	.20
5/8 x 032	.08	.25
3/4 x 032	.09	.30
1 x 036	.11	.30

Due to special equipment we are in a position to furnish Hard Edge Flexible Back Metal Bands cut to length for any standard machine. We furnish a sufficient lap free of charge so that the saw can be brazed. This feature is finding many contented users who claim that the saving in steel and time required to cut a saw from a coil is a big factor in reducing their expense.

In addition to this all our Hard Edge Flexible Back Metal Bands are furnished with a milled tooth similar to those in a hack saw. Ordinary blades are milled one at a time and consequently are burred. Ours are milled 40 at a time and due to this fact all are without burrs excepting the last one. This has a burr similar to ordinary saws but instead of being sold this last saw is scrapped.

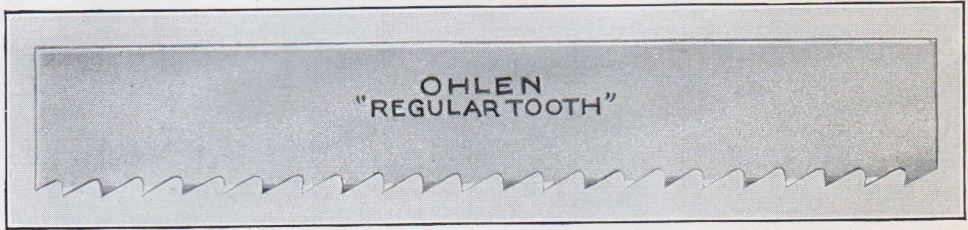
See Discount Sheet

SAW SERVICE AND SATISFACTION



THE OHLEN-BISHOP COMPANY

Ohlen-Bishop All Hard Metal Bands



For Cutting	Saw Speed Per Minute Recommended
Aluminum.....	1,000 Feet
Angles, Light.....	4,000 "
Asbestos.....	4,000 "
Babbitt.....	1,000 "
Bakelite.....	2,000 "
Brass Sprews and Gates, Soft.....	2,000 "
Bronze Sprews and Gates, Soft.....	2,000 "
Channels, Light.....	4,000 "
Copper.....	2,000 "
Fibers.....	4,000 "
Metal Molding, 19 Ga. and Thinner.....	4,000 "
Mica.....	4,000 "
Steel Sheets, Soft, 19 Ga. and Thinner.....	4,000 "
Tubing, Light Steel and Brass.....	4,000 "
White Metals.....	2,000 "
Wind Shield Frames.....	4,000 "

Widths	Thickness	Teeth Per Inch				Price Per Foot	Price Per Weld
1/4 inch	.032 or 21 Ga.	8	9	10		\$0.08	\$0.20
3/8 "	.032 " 21 "	7	8	9		.09	.20
1/2 "	.032 " 21 "	6	7	8		.10	.20
5/8 "	.032 " 21 "	5	6	7		.11	.25
5/8 "	.035 " 20 "	4	5	6		.12	.25
3/4 "	.042 " 19 "	3	4	5		.13	.25
3/4 "	.032 " 21 "	3 1/2	4	5	6	.12	.30
3/4 "	.035 " 20 "	3	4	5		.13	.30
7/8 "	.032 " 21 "	3	3 1/2	4	5	.13	.30
1 "	.032 " 21 "	2 1/2	3	3 1/2	4	.14	.30
1 1/8 "	.035 " 20 "	2 1/2	3	3 1/2		.15	.35
1 1/4 "	.035 " 20 "	2	2 1/2	3		.16	.40
1 3/8 "	.035 " 20 "	2	2 1/2	3		.18	.40
1 1/2 "	.035 " 20 "	1 1/2	2	2 1/2		.20	.45
1 3/4 "	.035 " 20 "	1	1 1/2	2		.22	.50

Can be successfully operated as fast as 12,000 feet per minute. SHAPE of TEETH should be specified—either "REGULAR" as above, or "FORMED".

See Discount Sheet



WE SELL NOT ONLY SAWS—BUT

Ohlen-Bishop All Hard Metal Bands



Right and Left Set Set and Sharpened For Cutting	Deep Circular Gullets Can be Re-Filed and Re-Set Saw Speed Per Minute Recommended
Angles, Medium Sizes.....	4,000 Ft. to 12,000 Ft.
Buckram, For Auto Tops, etc.....	4,000 " " 12,000 "
Channels, Medium Sizes.....	4,000 " " 12,000 "
Metal Molding, 18 Ga. and Heavier.....	4,000 " " 12,000 "
Pipe, Light Steel, Iron and Brass.....	4,000 " " 12,000 "
Steel Sheets, Soft, 18 Ga. and Heavier.....	4,000 " " 12,000 "
Wind Shield Frames.....	4,000 " " 12,000 "

Furnished Either in Coils or Cut to Length and Welded
"Formed" Teeth Supplied in Following Sizes Only

Width	Thickness	Teeth Per Inch				Price Per Set	Price Per Weld
		7	8	9			
3/8 inch	.032 or 21 Ga.	7	8	9		\$0.09	\$0.20
1/2 "	.032 " 21 "	6	7	8		.10	.20
5/8 "	.032 " 21 "	5	6	7		.11	.25
5/8 "	.035 " 20 "	4	5	6		.12	.25
5/8 "	.042 " 19 "	3	4	5		.13	.25
3/4 "	.032 " 21 "	3 1/2	4	5		.12	.30
3/4 "	.035 " 20 "	3	4	5		.13	.30
7/8 "	.032 " 21 "	3	3 1/2	4	5	.13	.30
1 "	.032 " 21 "	2 1/2	3	3 1/2	4	.14	.30

Welded Saws measuring 6 inches or more over the even foot will be charged for the entire foot; less than 6 inches over the even foot will not be charged for:

EXAMPLE: 1 saw 3/8 in. wide, 15 ft. 8 in. long equals 16 ft. at 11c (\$1.76) plus 25c for welding; total \$2.01.

For FAST SPEEDS, COURSE TEETH are recommended.

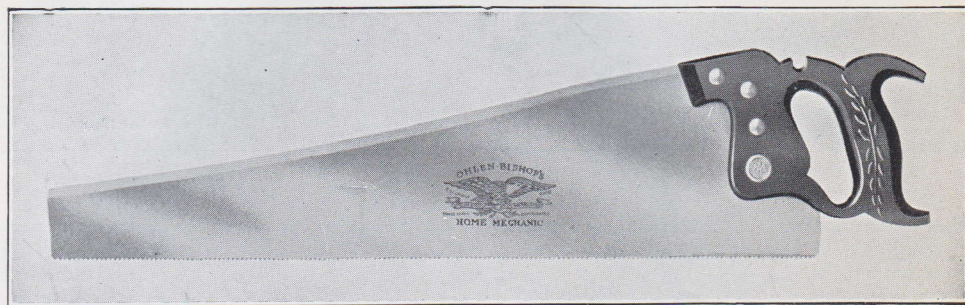
SHAPE of TEETH should be specified, either "FORMED" as above or "REGULAR".

See Discount Sheet

SAW SERVICE AND SATISFACTION



Ohlen-Bishop "Home Mechanic" Hand Saw



A beautifully designed, hand finished, high quality saw bearing the OHLEN-BISHOP guarantee for unexcelled toughness and durability.

This saw is made of a high quality alloy steel, with a highly polished blade and carefully filed teeth.

Accurate grinding, uniform cutting edge and an attractive finish with a hand rubbed beech handle, fitted to the blade with four nickel-plated screws especially qualifies this saw for general use around the shop or home.

Made in one length and two points only.

24" long, 7 or 8 points to the inch.....\$2.00

**Don't Fail to Ask Your Dealer for an
Ohlen-Bishop "Home Mechanic" Hand Saw**



WE SELL NOT ONLY SAWS—BUT

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LEN.

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