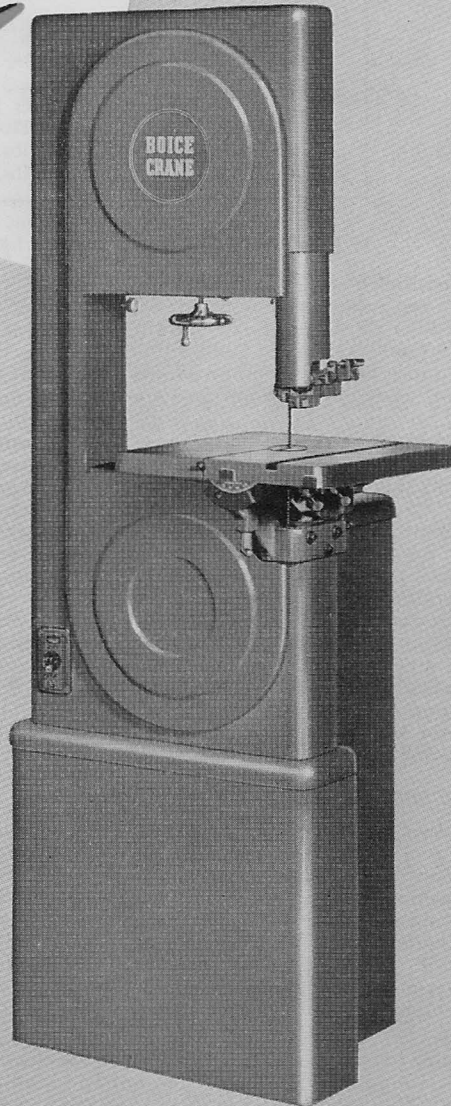


Boice Crane

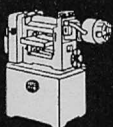
14-INCH BAND SAW



BOICE-CRANE POWER TOOLS

CUTTING • SHAPING • DRILLING • FINISHING
WOOD METAL FIBRE PLASTICS
IN INDUSTRY • SCHOOLS • HOME SHOPS

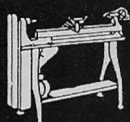
BOICE - CRANE COMPANY
930 W. CENTRAL • TOLEDO 6, OHIO



THICKNESS PLANERS



DRILL PRESSES



LATHES



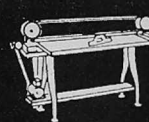
SPINDLE SHAPERS



JIG SAWS



BAND SAWS



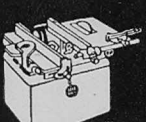
BELT SANDERS



SPINDLE SANDERS



JOINTERS



SAW JOINTERS

Boice Crane

14-INCH BAND SAW

SPECIFICATIONS

SAWING CAPACITY: Blade to guard.....		13 1/2"
Guide to Work Table.....		8 5/8"
TABLE: Tilts on Double-Trunnions 45° to right; 10° to left; size.....		15" x 15 1/2"
HEIGHT OVERALL of Floor Model.....		67"
HEIGHT OF WORK-TABLE from Floor.....		39 1/4"
OVERALL WIDTH 27 1/2".....		Overall depth..... 29"
BLADE WIDTHS: 3/16", 1/4", 3/8", 1/2" and 3/4"		
LENGTH OF BLADE.....		98"
WHEELS: Disc. Moulded Textolite. 14" dia. 1" face.		
BEARINGS: Grease-sealed Ball Bearings.		
FRAME: Heavy Welded-Steel Construction.		
OPERATING SPEEDS:		
1-Speed Model	Wheel r.p.m.'s.....	1120
	Blade Feet Per Min.....	4100
8-Speed Model	Wheel r.p.m.'s.....	1120 890 660 450 70 50 35 25
	Blade Feet Per Min.....	4100 3260 2420 1650 250 183 128 92
NET WEIGHTS		
(both less motors)	No. 2300 No. 2301 No. 2304 No. 2308 No. 2309 No. 2310	122 lbs. 224 lbs. 155 lbs. 250 lbs. 352 lbs. 257 lbs.
GROSS WEIGHTS		197 lbs. 334 lbs. 230 lbs. 320 lbs. 427 lbs. 367 lbs.

STRONGER STEEL FRAME—FASTER—SAFER

Steel-clad design makes this the safest 14" band saw built. Given top rating by State Safety Commissions, it is the best medium size band saw for industry, schools, and homes. The unretouched photo (E) shows how its high speed super sawing smoothness saves sanding labor on every cut, again saving important money on all fine work.

Actual tests prove that a Boice-Crane Band Saw saws from *two to four times* more lumber footage in a given time than any other 14-inch Band saw built and averages *three times faster* to make for tremendous savings in time, labor and money. If you use a band saw 3 hours a day a Boice-Crane saves you at least \$300 a year, paying for itself in 3 to 6 months. Fully 80% of all your band-sawing is done with feed pressures of 4, 6, or 8 pounds . . . so you can use it most where the Boice-Crane effects the very greatest increase in output, and where it produces the greatest profit. See chart at top of next page.

All mechanisms, motor, etc., are fully enclosed. No ugly cross-arms, or exposed moving parts.

Notice the blade tension scale (A)—calibrated for all widths, and easy-to-use blade tracking scale.

HIGH SPEED ZEPHYR-WEIGHT WHEELS

The Boice-Crane has solid TEXTOLITE disc-wheels. Made of one of the strongest yet lightest weight plastic materials known, moulded in a scientifically proportioned section of maximum strength per unit of material. Each wheel weighs only 2 1/2 pounds, permitting operation at near twice normal speed yet assuring years longer ball-bearing life. Even at 1200 r.p.m. wheel speed, the resulting blade-strain on Boice-Crane blades is 20% to 40% LESS than other 14" machines which normally operate at 600 r.p.m.

The entire framework is electric-welded into a single, vibrationless, one-piece steel structure of terrific strength and stiffness. The smooth interior is easy to keep clean and sanitary when used to cut food products. The steel bulkhead at back of lower wheel-compartment protects motor from all dust, and grime. (Illustration B).

The wheel-guard is a single, hinged door, part of the machine, and must be closed before operating.

The blade is guarded on all sides by a heavy steel telescoping guard. Conventional machines leave the rear of the blade and fully half the outer side of blade entirely unguarded, another Boice-Crane "first."

The Telescoping Guard is held friction-tight in its ways by a compression spring. When lock handle is released the guard does not drop, but stays in place until operator repositions it. It even covers and shields the upper blade-guide from accidental damage.

NEW—IMPROVED BLADE GUIDES

A new, patented type of upper and lower blade guides it standard on the Boice-Crane. One handy control knob (not the usual two) provides faster, micrometer-like setting for both the side jaws and ball bearing back-up roller. (See illustration C).

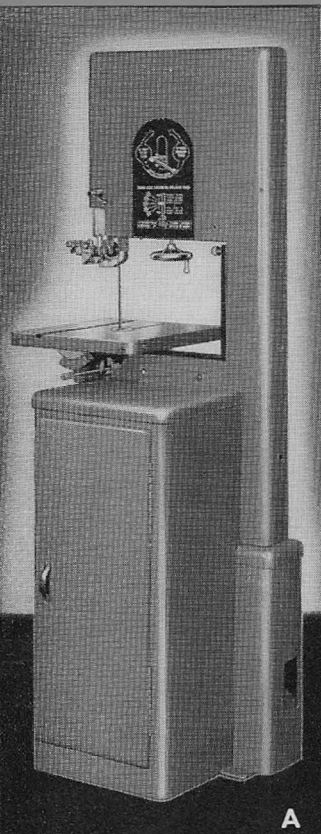
Blade guide adjustment controls are also brought out to the rear, so adjustments can be made *safely, with the machine actually running*, and also without the aid of any kind of special wrenches, or screwdriver.

The only guide with all these features:

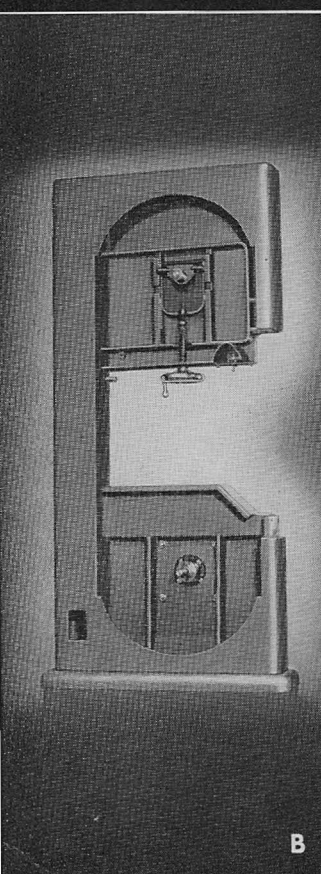
1. One-knob setting control
2. Independent micro-adjustment
3. Anti-creep locks
4. Large back-up roller (sealed ball-bearing type).

The generous size work table, 15" x 15 1/2", is rigidly supported on two large trunnions, one at front, another at rear. (See illustration D). No sag or vibration under heavy cuts. The blade-entry-slot leads to front (not the side) of table . . . the only correct location for quick and easy blade installation. Table tilts 45 degrees to right, 10 to left. Has 90° locating stop, also accurate table-tilt gauge. Removable throat-piece is keyed so sides cannot strike blade.

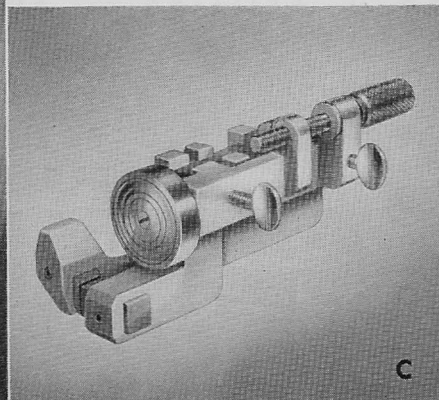
Large steel cabinet-stand provides a solid rock-like foundation—adding to the smooth performance of the Boice-Crane. Also furnishes a sealed-off, dust free compartment for motor, as well as extra blade storage.



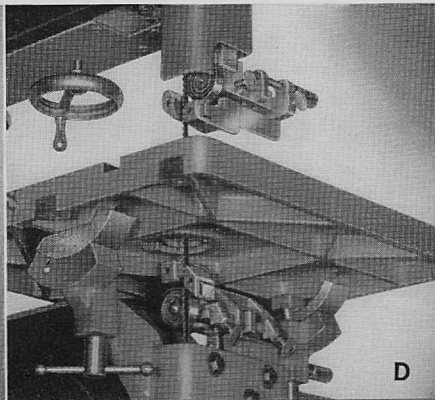
A



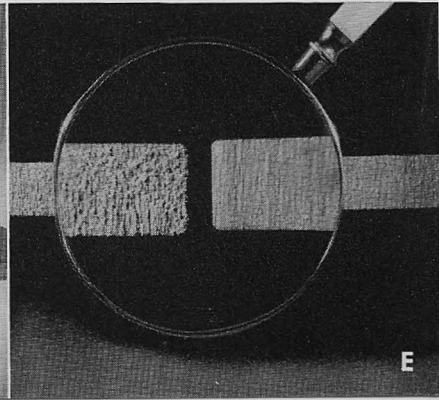
B



C

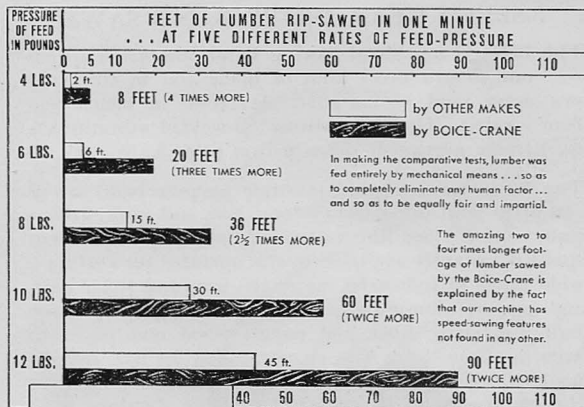


D



E

CUTS WOOD 2 TO 4 TIMES FASTER



Actual cutting tests have been made on a number of machines to demonstrate that The Boice-Crane cuts faster and with less effort. The results, shown on the accompanying chart, prove that the Boice-Crane band saw not only cuts two to four times faster but does it with the same feeding effort. In actual production, double output is easy with 25% to 50% reduction in operator fatigue.

ACCESSORIES FOR INCREASING WORK RANGE AND EFFICIENCY FOR WOODWORKING

MITER GAUGE (F)

Our Band Saw uses same miter gauge as our No. 2505 Saw and No. 2100 Shaper. Improved. Quick-setting. Extremely accurate. Very handy and valuable for cutting precise miters and angles.

NO. 2502 Auto-Set Miter Gauge. Ship. wt. 4½ lbs.

RIP FENCE (G)

A highly valuable accessory. Mechanical feeding and locking control identical with our No. 2505 Saw table fence. Accurate scale calibrated by 1/16's of an inch, for quick setting. Need not be removed when changing blades. Select either the model with 18-inch front and rear bars for cutting widths up to 13 inches wide maximum, or with 32-inch bars for 27-inch width of cut capacity.

NO. 2302 Rip Fence Attachment with 18-inch front and rear bars. Ship. wt. 18 lbs.

NO. 2303 Same but with 32-inch bars. Ship. wt. 23 lbs.

WORK LAMPS—BUILT-IN AND SWIVEL TYPES (H)

Every No. 2300 Series Band Saw is fitted to receive this handy light. Completely built-in to be out of the way and eliminate damage and broken bulbs. Concentrates a bright area of light directly on the cutting point. Improves accuracy. Eliminates eye strain. A necessity for night work or dark shops.

NO. 2321 Work Lamp Attachment, including reflector, socket, switch, cord and plug. Ship. wt. 2 lbs.

NO. 2322 Lamp Bulb for above for 110 volt. Shipping wt. 4 ozs.

Double pivoted arm and oval reflector type of lamp attachment. Preferred by some, because of its focus feature. Has a built-in switch. Uses standard light bulbs. See page 36 of our general catalog.

NO. 115 Machine Lamp complete with bracket, double swivel arm, 8-foot cord and plug, attaching screw. No bulb. Shipping weight 1 lb.

METAL WORKING ACCESSORIES

SCREW-FEED ATTACHMENT (I)

Screw-Feed for metal cutting includes a segment that holds flat pieces of all shapes securely without further clamping... square, hexagonal, and round. This screw-feed includes a very important extra feature you find only in the Boice-Crane—a swivel, compensating adjustment to quickly and easily match the actual feed direction to the "natural lead" of any blade. With this extra adjustment straight cuts are assured... operator has complete control over cut at all times and blade life is lengthened, too. A lateral adjustment to lead-screw provides easy means for sawing accurate curves. A half-nut arrangement makes for speedy set-ups prior to actual feeding. With this screw-feed the Boice-Crane cuts 1-inch thick cold-rolled-steel at the rapid rate of 2 lineal inches per minute. Big machines seldom saw faster.

NO. 2307 Screw Feed Attachment, including universal toothed feed segment, and complete in-feeding and transverse adjusting mechanisms, also table bar. Shipping weight 16 lbs.

BLADE BUTT-WELDER (J)

A necessity for "inside" cutting on dies, blanks, and production parts. Greatly enlarges work range of our Nos. 2308 and 2309 Metal Cutting Band Saws. Reduces operating costs in plants by quickly making finished blades from coil stock.

Also recommended for woodworkers. By buying blade stock in the coil and by welding their own blades they save time and money, too. Also makes a band saw used for woodworking as versatile as a jig saw on inside, inserted-blade cuts.

A complete outfit. It automatically welds; also anneals. Handles all blades to ½-inch wide. Users can learn to operate in a few minutes. Two models, identical as to welding and annealing—but one includes motorized grinder, the other less expensive model providing a vise for filing off the weld burr. Carried in stock only for 110 volt, 60 cycle, 1-phase A.C. Prices on other voltages on application.

NO. 2312 Automatic Electric Blade Butt-Welder, complete with vise for filing weld burr, also includes cord and plug. Overall size 9"x7"x9" high. (Same as illustration "J" except no grinder).

NO. 2313 (Illustrated.) Same as above but also includes motorized grinder for removing weld burr, and grinder switch. Overall size 11"x7"x15½" high. Shipping weight 60 lbs.

BLADES FOR WOOD AND METAL

For WOOD	WIDTH	For METAL
Catalog NO.		Catalog NO.
2375	3/16"	2385
2376	1/4"	2386
2377	3/8"	2387
2378	1/2"	2388
2379	3/4"	2389

Above are 98-inch circumference for No. 2300 Series Band Saws only. Average shipping weight 1½ lbs. each.

NOTE: The above blades are those normally carried in stock. They are selected to suit average conditions.

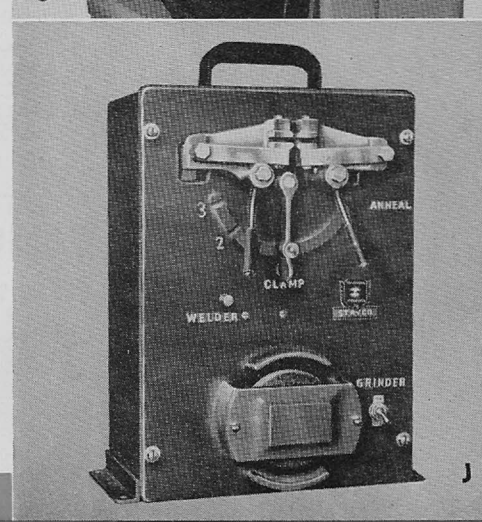
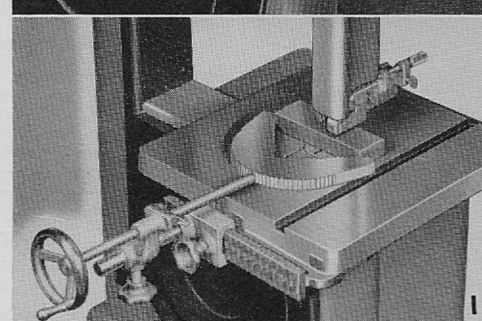
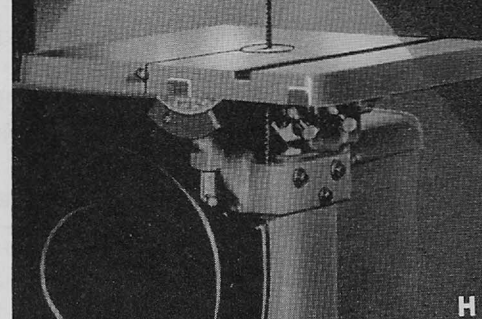
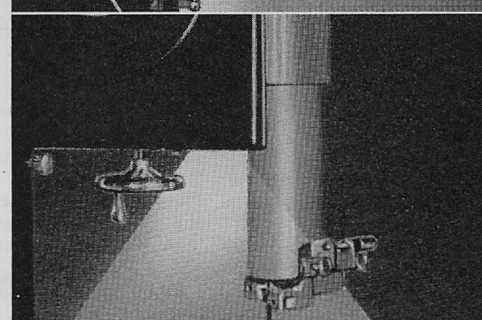
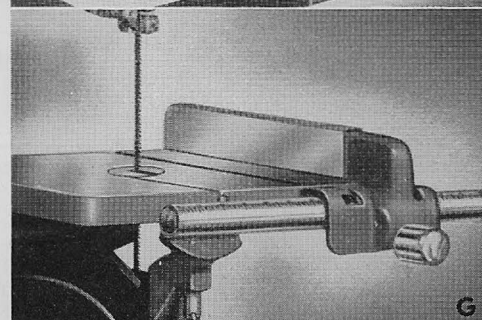
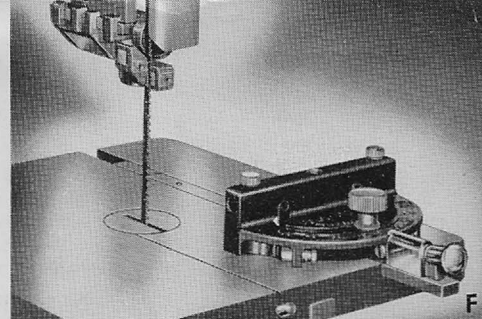
Special blades varying in temper, size and number of teeth, rake or set can be furnished for all sorts of materials. Consult Boice-Crane engineers on your specific sawing problem. No obligation. Prompt delivery on a particular blade to suit your specific needs.

TIRES—TIRE CEMENT

Band Saw wheel tires naturally deteriorate in time like any rubber products. Keep a "live," properly crowned set on your machine for best results.

NO. 2305 Rubber Tire. Shipping weight 8 ozs. each.

NO. 2306 Tire Cement. One pint. A special formula for bonding rubber tires to plastic wheels. Ordinary cements are not successful on plastic. Shipping weight 2 lbs.



MODELS SUITED TO MANY NEEDS AND CONDITIONS

SINGLE SPEED BAND SAWS

DIRECT DRIVE

The two Direct-Motor-Drive models are the most popular with woodworkers. Available in bench or floor type. Efficiently powered. Lower wheel mounted directly to motor shaft. No gears, belts, couplings, or unnecessary parts to wear, no motor power wasted.

NO. 2300 Bench Model, 14-inch Direct-Drive Band Saw, including one $\frac{3}{8}$ " wide wood cutting blade. No motor or floor stand. Illustration K. Shipping weight 197 lbs.

NO. 2301 Floor Model. 14-inch Direct-Drive Band Saw, same as No. 2300 except has cabinet base. No motor. Shipping weight 334 lbs.

DIRECT-DRIVE MOTORS FOR ABOVE

No.	H.P.	Voltage	Cycle	Phase	Price
2311	$\frac{1}{2}$	110-220	60	One	
2318	$\frac{3}{4}$	220-440	60	Three	
2319	1	220-440	60	Three	

Average Shipping Weight 75 lbs.

Be SURE to specify single VOLTAGE for switch connections. Direct-Drive motors for 50 cycle, A.C.; and for Direct Current . . . write for prices.

V-BELT DRIVE

Our V-Belt Drive Band Saws are designed to meet the needs of woodworkers who prefer belt drive, who may already have their own motor, or who out of necessity are forced to drive by gas-engine or lineshaft. Except for the method of driving they are exactly the same as the direct-motor-drive models and are full ball bearing throughout.

NO. 2304 Bench Model, 14-inch Belt-Drive Band Saw with $\frac{3}{8}$ " wide blade and 6" diameter V-pulley. No motor. Illustration L. Shipping weight 230 lbs.

NO. 2310 Floor Model, has cabinet base, otherwise same as No. 2304. No motor. Shipping weight 367 lbs.

NO. 1014 V-Pulley, 4" diameter for motor.

NO. 1060 V-belt, 60" circumference.

MOTORS FOR ABOVE V-BELT DRIVE MODELS

No.	H.P.	Voltage	Cycle	Phase	Bearings	Ship. wt.	Price
1455	$\frac{1}{3}$	110	60	1	Ball	34	
1457	$\frac{1}{3}$	220	60	1	Ball	34	
2345*	$\frac{1}{2}$	110-220	60	1	Ball	75	
2346*	$\frac{3}{4}$	110-220	60	1	Ball	75	
2348*	$\frac{1}{2}$	220-440	60	3	Ball	75	
2347*	$\frac{3}{4}$	220-440	60	3	Ball	75	

*Include switch for flush mounting on front of machine, also ten-foot cord and plug on 1-phase motors only.

Be SURE to specify single VOLTAGE for switch connections. Motors for 50, 40, 30 and 25 cycles, A.C.; and for Direct-current are also available . . . write for prices.

8-SPEED GEAR DRIVE BAND SAWS

The Boice-Crane Metal Sawing Band Saw has 8 speeds . . . one to suit every kind of blade and to efficiently saw every kind of material. Available in bench and floor models. The same strong all-welded vibrationless steel frame previously described on page 2.

The Boice-Crane 8-speed multiple purpose band saw is equipped with quick-change gear box and multi-groove pulley drive. (See illustration "M" at left). An efficient speed is instantly available to the operator for cutting a wide range of industrial materials—iron and steel; brass and copper; aluminum and zinc; brake lining; plastics; building board; fiber and paper; wood and plywood; even meat and fish. Also recommended for tool and die work. Our efficient blade butt-welder accessory makes it the equal (up to its capacity) of large die-shop band saws. Cuts up to 1" thick tool steel and softer materials proportionately thicker.

Precision-built gear box drive (see illustration "M" at left) contains *seven* large anti-friction ball and needle, or roller bearings. Quick acting shift-lever and clutch disengages or engages gears. The helical gears are tough steel (not cast iron or die cast); are $1\frac{3}{8}$ " and $\frac{3}{4}$ " wide and have heavy 12-pitch teeth; transmit as much as one horse-power at lowest speed with a large margin of safety. All gears hardened and run in oil.

The gear-shift lever and V-belt are easily accessible for speed changing through a hinged, spring-latch door. Both oil-filler and oil-drain plugs also accessible through door of drive compartment.

The gear-box unit and motor are both housed entirely within the base cabinet and thereby efficiently sealed off from destructive dust and grit.

NO. 2308 Bench Model, 8-speed Band Saw including gear-box drive unit, complete with 4-step vee (drive) pulley; one $\frac{3}{8}$ " wide metal-sawing blade; No. 1058 V-belt, and No. 1101 4-step pulley for motor shaft. Less motor, and screw-feed device. Illustration N. Shipping weight 320 lbs.

NO. 2309 Floor Model. Same as above with cabinet base. Shipping weight 427 lbs.

MOTORS FOR ABOVE GEAR DRIVE MODELS

No.	H.P.	Voltage	Cycle	Phase	Bearings	Price
2345	$\frac{1}{2}$	110-220	60	One	Ball	
2346	$\frac{3}{4}$	110-220	60	One	Ball	
2348	$\frac{1}{2}$	220-440	60	Three	Ball	
2347	$\frac{3}{4}$	220-440	60	Three	Ball	

Average Shipping Weight 75 lbs.

Include switch for flush mounting on front of machine, also ten-foot cord and plug on 1-phase motors only.

Be SURE to specify single VOLTAGE for switch connections. Motors for 50, 40, 30 and 25 cycles, A.C.; and for Direct-current are also available . . . write for prices.

ALL PRICES F.O.B. FACTORY AND SUBJECT TO CHANGE WITHOUT NOTICE

Any National or State tax now or subsequently levied is to be added to price quoted. We reserve the right to make changes in design, specifications, or equipment at any time without incurring any obligation to install these on any machines already sold.

Boice-Crane products manufactured and sold under the following patents either owned by Boice-Crane or under which we are licensed:

1,790,288	1,967,791	2,166,703	2,347,764
1,894,010	2,049,044	2,211,050	2,347,765
1,902,270	2,049,045	2,256,607	2,371,731
1,922,151	2,107,174	2,260,635	2,384,364
1,927,477			2,431,605

Design Patent Nos. 113,369 115,779 131,216
Other United States Patents Pending

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Chicago Display { Irving S. Kemp Co.
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Chicago, 6, Ill.

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