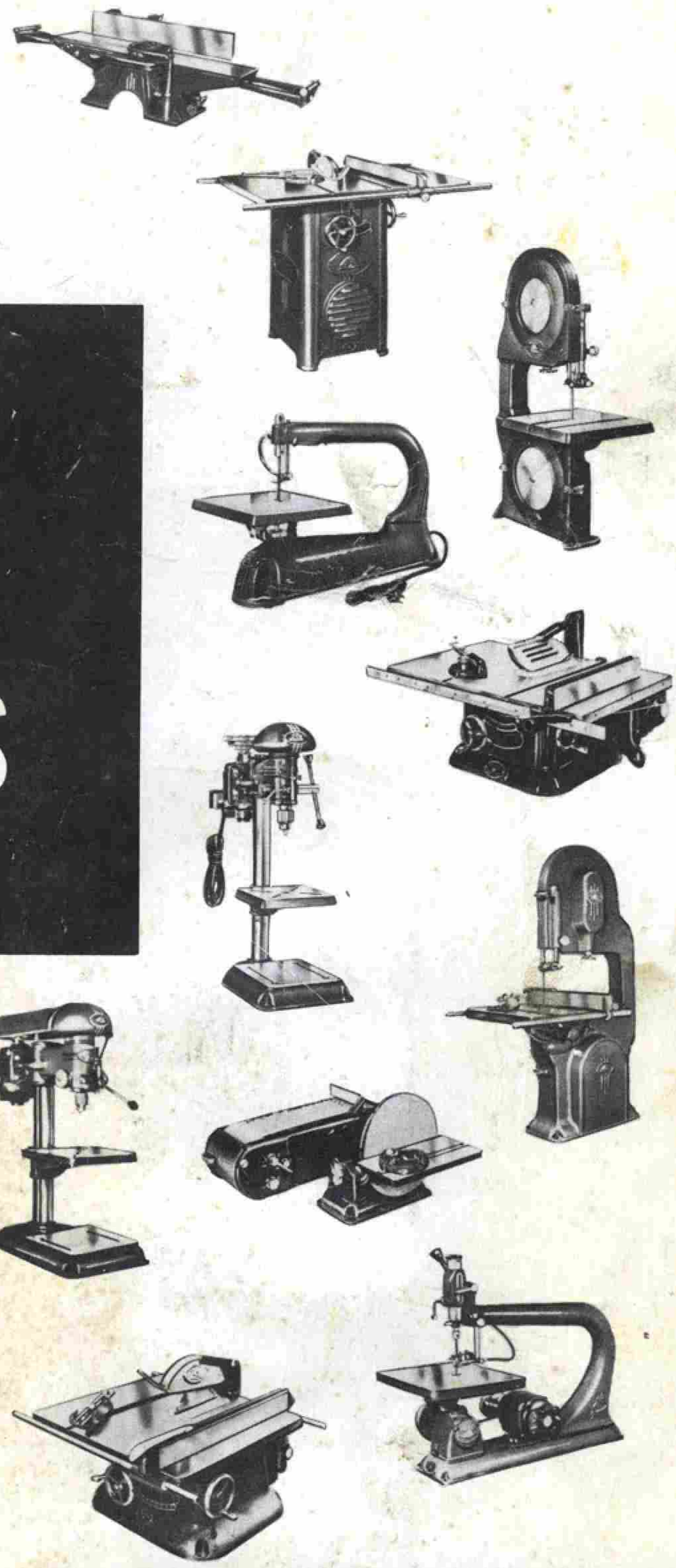
Beaver
POWER TOOLS

DESIGNED AND MANUFACTURED IN CANADA



CATALOGUE

AND GUIDE TO

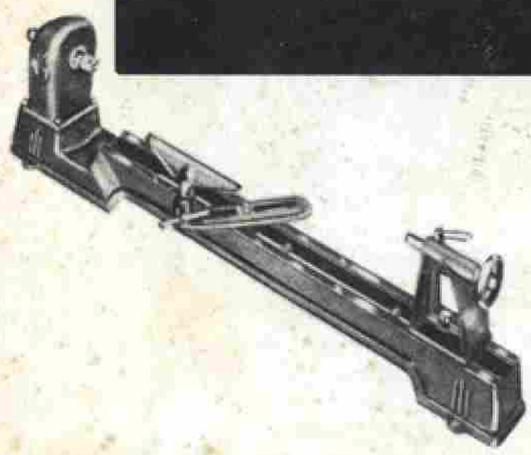
BETTER WOODWORKING

SOLD BY:

Rockwell Manufacturing Company of Canada, Ltd.

BEAVER POWER TOOL DIVISION

Guelph, Ontario



BEAVER POWER TOOLS

Beaver Power Tools provide sturdy, accurate, woodworking equipment for both the home shop and the industrial craftsman.

All design and manufacture is done in our own plant. This enables us to maintain the highest degree of accuracy and interchangeability of parts.

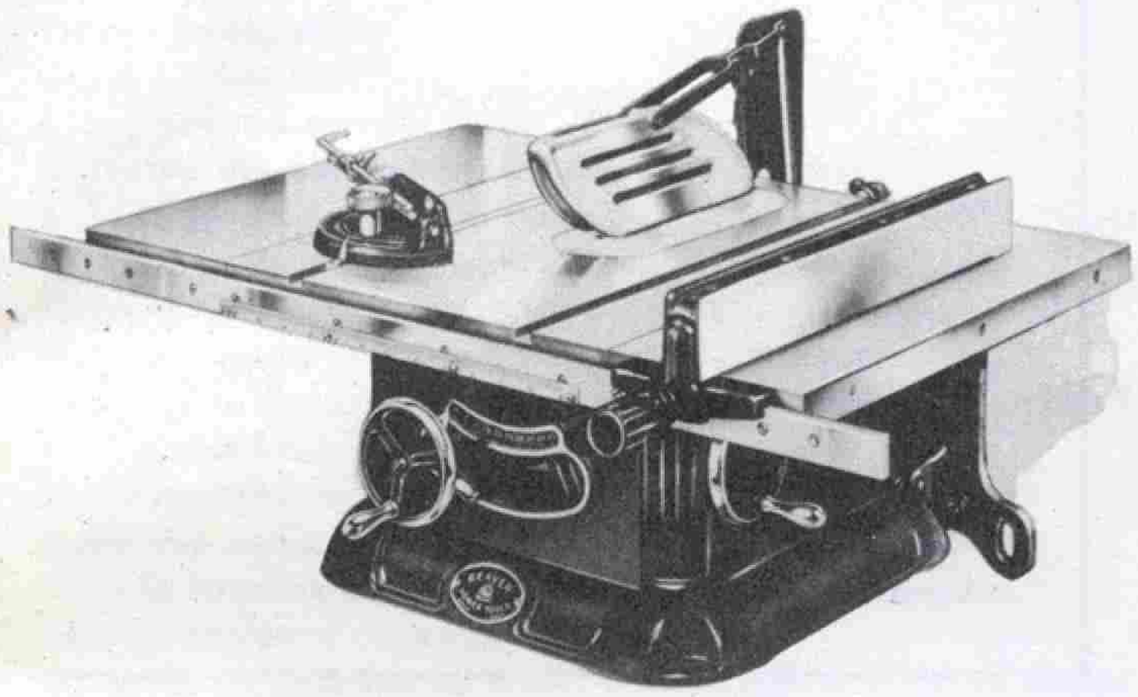
All machines are equipped with sealed, lubricated ball bearings or Timken tapered bearings to provide the utmost in long-lasting qualities even with rough industrial treatment.

They have also been provided with every safety device to permit safe, easy operation in vocational schools.

This catalogue is intended as a guide to Beaver Power Tools—specifications as to their size and performance, various operations which can be performed on them, accessories available and the functions of these accessories.

BEAVER

8″ TILT ARBOR CIRCULAR SAW



The Beaver 8″ Tilt Arbor Circular Saw, embodying several new exclusive features, has been designed to give service and satisfaction at a reasonable price. Features a patented method of motor mounting—permits a full tilting arbor without the necessity of carrying the motor weight on the tilting mechanism.

CATALOGUE LISTING

Complete 8″ Tilt Arbor Circular Saw with extension tables, rip fence, mitre gauge, guard, V-belt and motor pulley. Less motor.
Cat. No. CS2200

Complete 8″ Tilt Arbor Circular Saw, same as above less extension tables ..... **Cat. No. CS2200A**

SPECIFICATIONS

Table size with extensions	26 x 18″
Table size less extensions	14 x 18″
Depth of cut at 90°	2½″
Depth of cut at 45°	1⅝″
Recommended motor size	⅓ or ½ H.P.
Base size	15¼ x 15¼″
Table height	9″
Arbor size	⅝″
Shipping weight	100 lbs.

Lubricated sealed bearings

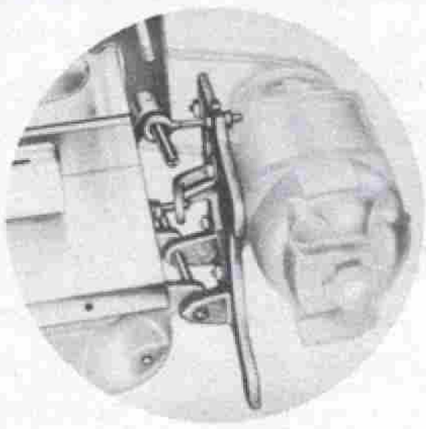
CONSTRUCTION FEATURES

A flat smooth working surface is provided by ground, cast semi-steel table. There are two machined mitre gauge slots and the edges are machined to take the extension tables. The extension tables are machined on both edges so that additional sections may be added, or both extensions may be used on one side of the table as desired. A steel fence support bar is located on the front edge of the table and is equipped with an accurate legible width-of-cut scale. An aluminum throat plate is readily interchangeable for the use of dado or moulding heads.

Base assembly is built of a heavy cast base and legs and sheet metal side panels, and holes are provided for bolting the machine to a bench. An accurate angle-cut-scale is located on the front panel and two readily accessible hand wheels permit fast changing of angle and depth-of-cut settings. The fence is of cast construction ground for use on either side of the blade. It is readily adjustable to width-of-cut positions and clamps quickly and solidly where desired.

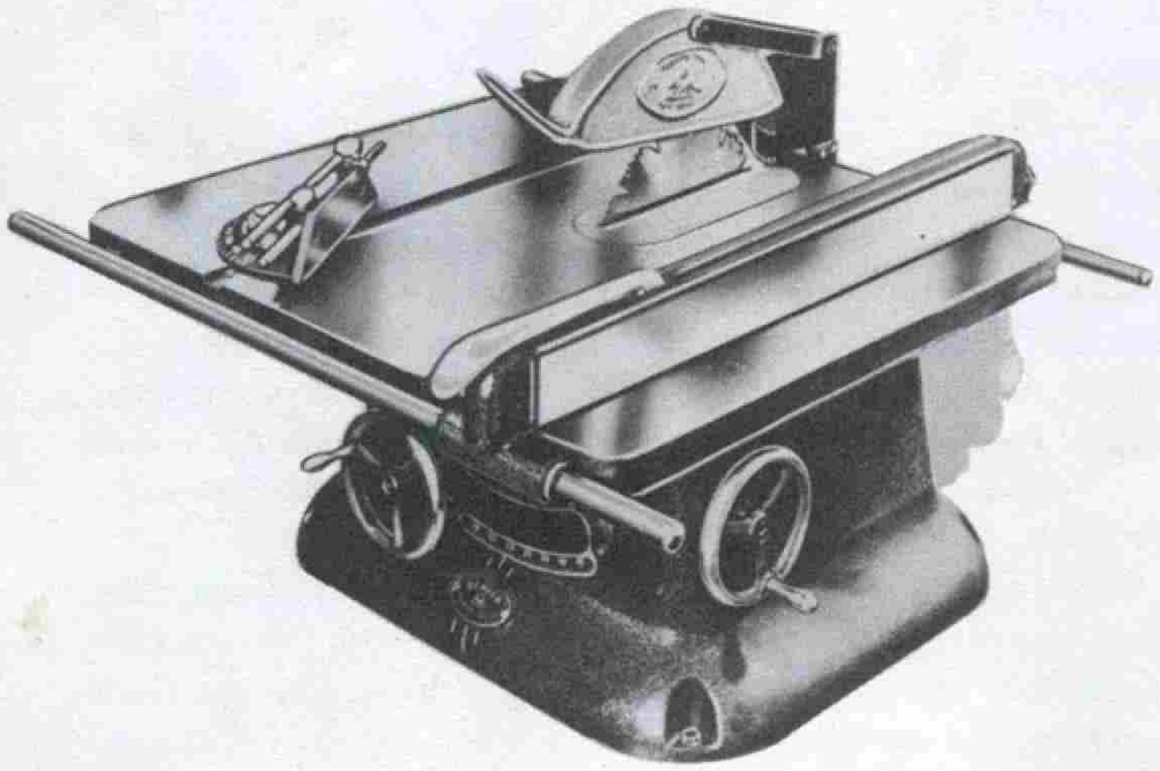
The mitre gauge,which may be used on either side of the blade, is built up of a heavy cast body, steel slide bar, accurate legible angle scale and is equipped with two length-of-cut gauge rods. A splitter, anti-kick-back pawls and an aluminum guard comprise guard assembly. Entire assembly is readily removable for the use of dado or moulding heads.

Motor Mounting Bracket is mounted on slide rods on the base and is adjustable for belt tension. A link arrangement, operated automatically when the arbor is tilted, shifts the position of the motor to maintain constant belt tension. This method ensures that the weight of the motor will not tend in any way to pull the arbor out of line.



PATENTED MOTOR MOUNTING BRACKET IS ADJUSTABLE FOR BELT TENSION

BEAVER 8″ TILT ARBOR HEAVY DUTY CIRCULAR SAW



SPECIFICATIONS

Height	13½″
Table size	24 x 22″
Depth of cut at 90°	2½″
Depth of cut at 45°	1⅝″
Base	22½ x 18½″
Recommended motor	½ H.P.
Arbor size	⅝″
Shipping weight	147 lbs.

Lubricated sealed bearings

This Beaver Circular Saw is a modern power tool that will satisfy the homecraft hobbyist or the professional craftsman, both in operation and in price. It is constructed of semi-steel castings with infra-red baked enamel finish, chrome plated handwheels and first-class workmanship throughout. Cuts 2½″ deep. Sawdust chute ensures clean operation.

CATALOGUE LISTING

Complete 8″ Tilt Arbor Circular Saw with 8″ combination blade, V-belt, motor pulley, rip fence, mitre gauge, and guard and splitter assembly. Less motor..... **Cat. No. CS3200**

CONSTRUCTION FEATURES

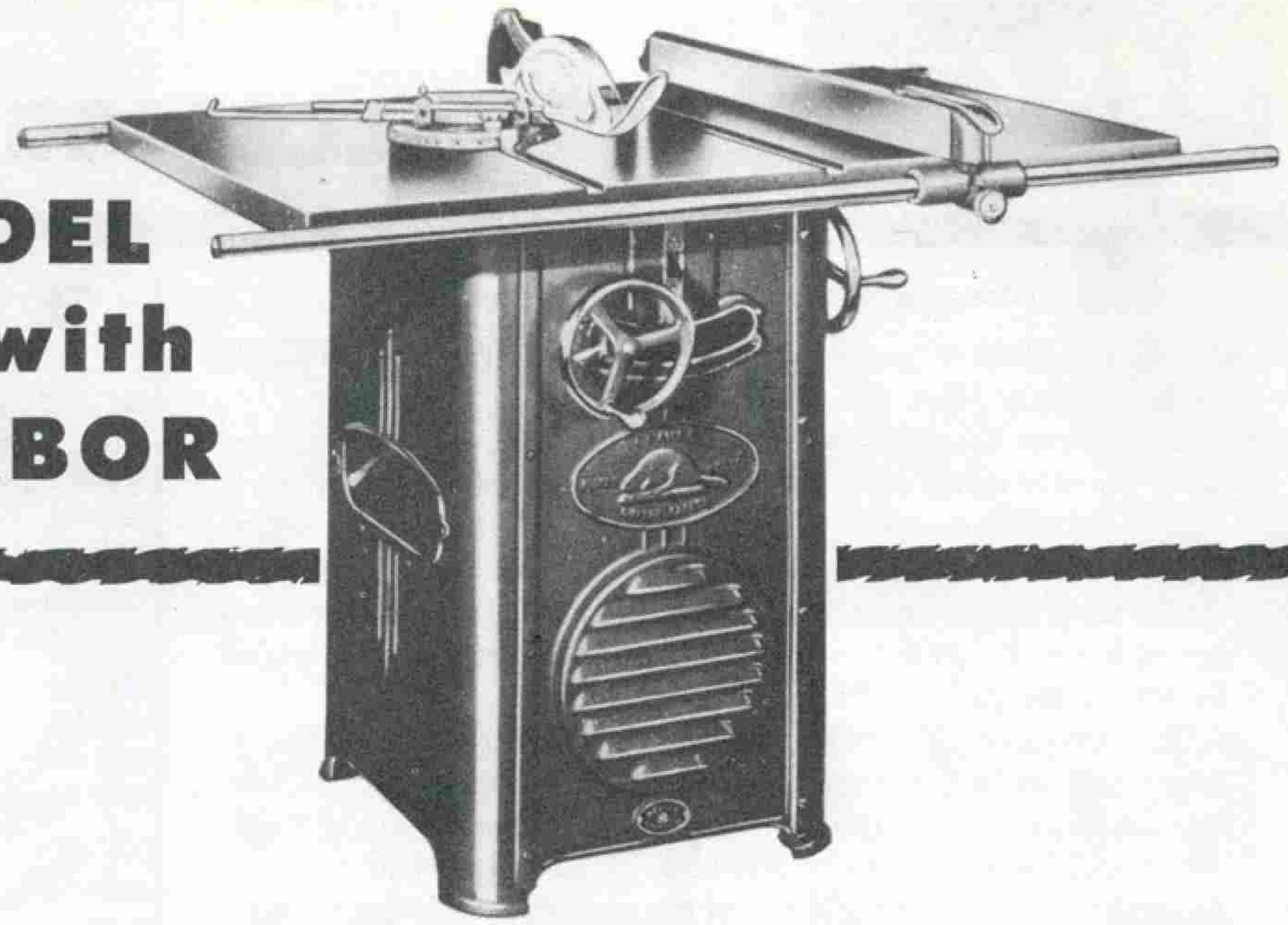
Semi-steel cast table is equipped with two solid steel guide bars for rip fence, two ¾ x $\frac{3}{16}$″ grooves for mitre gauge, and aluminum throat readily removable for use of dado and moulding cutter. Table and guide bars are so arranged that a full 12″ can be ripped from either side of saw.

The arbor bracket is a semi-steel casting equipped with alloy steel spindle ⅝″ diam. at work end, running in S.K.F. lifetime lubricated sealed ball bearings.

Long spindle holds extra pulley if twin V-belt drive is desired. The bracket is arranged to receive demountable motor base so that motor and arbor swing at the same time. Arbor bracket tilts from 0° to 45° and tilt of arbor is shown by a large scale on the base and is locked by a cam that locks both angular and elevation adjustments at the same time.

Free running rip fence mounted on two solid steel bars fastened to table and has provision for adjusting alignment. It clamps both back and front by one handle in front and can be used on either side of saw. Mitre gauge is graduated 0° to 60° both ways of centre and is equipped with gauge rods and 12″ guide bar. The guard is an aluminum casting equipped with spreader bar and anti-kick backs.

10″ FLOOR MODEL CIRCULAR SAW with FULL TILTING ARBOR



OUTSTANDING FEATURES

True running arbor
Sealed arbor ball bearings
Large ground-surface table
Accurate double face, quick-setting rip fence
Micro adjustment on rip fence
Cuts to centre of 48″ panel
Automatic, true-setting mitre gauge
New improved safety guard and splitter assembly
Removable throat plate for dado and moulding cutterhead
Heavy cast base
Large accessible hand wheels
Built-in on-off switch
Built-in sawdust chute
Totally enclosed motor mounting
Accurate calibration on width-of-cut scale and angle scales

CATALOGUE LISTING

Complete 10″ Circular Saw with 10″ combination blade, V-belts, motor pulley, mitre gauge, rip fence, and guard and splitter assembly. Less motor..... **Cat. No. CS4200**

SPECIFICATIONS

Blade size	10″
Depth of cut at 90°	3¼″
Depth of cut at 45°	2⅜″
Spindle size	⅝″
Table height from floor	34″
Table size	28½ x 44″
Recommended motor	1, 1½ or 2 H.P.
Shipping weight	500 lbs.

CONSTRUCTION FEATURES

Offset table permits ripping to centre of 48″ panel. The table assembly is independently mounted on a sub-base to permit adjustment without disturbing mandrel assembly. There are two greased, sealed ball bearings on spindle and 4 Timken tapered roller bearings on right angle drive. The rip fence—2¼ x 28½″ with micro adjustment and 24″ width-of-cut scale—can be rigidly locked at both ends by single, quick-acting clamp lever. Full iron base has removable rear panel for motor mounting purposes.

Built-in 10 amp. 110-220 volt double pole switch, saw-dust chute, large 6½″ hand wheels, cam lock on elevation and angle screws add greatly to the efficiency and desirability of this machine.

A new improved guard, splitter and anti-kick back arrangement are all readily removable for dadoing or moulding and provide the utmost in operational safety. A large heavy mitre gauge, accurately calibrated to 60° both ways and equipped with positive setting stops at 0°, 15°, 22½°, 30°, 45°, and 60° intervals, facilitates fast, accurate mitre cutting.

The drive arrangement eliminates the necessity of hanging the motor on the arbor bracket. One B belt (F.H.P.) from the motor to a right angle drive, and two A belts (F.H.P.) from the right angle drive to the arbor provide an efficient transfer of motor power to the blade without the possibility of motor weight pulling the arbor out of line.

The motor is supported inside the base and features a spring adjustment for varying the belt tension. On the 2-belt drive from the right angle drive to the arbor, a three piece pulley has a positive adjusting arrangement to take up slight variations in belt length and maintain the desired equal belt tension on each belt.

OPERATING YOUR BEAVER CIRCULAR SAW

Rip cutting is probably the most useful operation performed by a circular saw. The fence is set at the desired distance from the saw and the work is held along the fence and fed through the blade. A steady pressure should be maintained when feeding the work to prevent jamming of the blade. Stand a little to either side of the blade, never directly behind it. This affords a measure of protection in the event of kick-backs. When making long rip cuts, the work should be supported past the table.

The mitre gauge is used for cross-cutting the work either at right angles or on a mitre. The work is held against the face of the gauge and both are advanced into the blade, guided by the slots in the table top. When making mitre cuts, the work will tend to pull into the saw blade, making it difficult to do accurate mitre work. This may be overcome by attaching an auxiliary hardwood fence to the face of the gauge by means of screw nails through the holes provided and setting small pointed brads in the face of the hardwood. They should protrude about 1/16″ and will prove ample anchorage for accurate mitre work. The auxiliary fence will also prove beneficial in straight cross-cutting because of the added bearing. The work to be cut should have a straight edge against the face of the gauge.

The Beaver mitre gauge is equipped with gauge rods for use in cutting a number of pieces to identical length. Set the rods to the required length and feed the work through in the usual manner.

(continued on next page)

BEAVER

ACCESSORIES AVAILABLE FOR

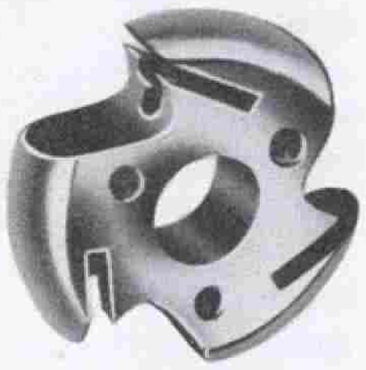
Another method of gauging for length is to clamp a wood block to the auxiliary fence and use it as a length stop.

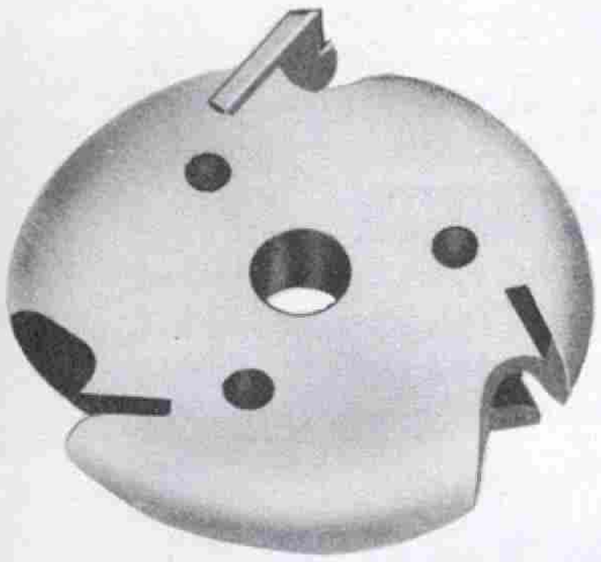
The Beaver Circular Saw may frequently be used to advantage as an abrasive cutoff-saw. Abrasive wheels are obtainable in various grades, thicknesses and diameters. They may be used for cutting plastics, glass or metals. The abrasive wheels are mounted in the same manner as a saw blade except that heavy paper discs are added on either side of the blade and steel washers are added on top of the paper discs.

It is frequently desirable to make rip cuts on a taper. This is impossible without the use of some form of tapering jig. A very simple, adjustable jig can be made by taking two pieces of hardwood and hinging them at one end. A line is scribed one foot from the hinge on the top edge of the pieces and a locking device placed on the end opposite the hinge. By opening the two pieces of hardwood out to the required taper per foot—measured at the one foot mark—holding the work against one leg and sliding the entire assembly along the rip fence, an accurate job of taper ripping can be done.

No. 2½ SHAPER HEAD

With ¾" bore bushed to ½" or ⅝" as specified. Used on spindle shapers.

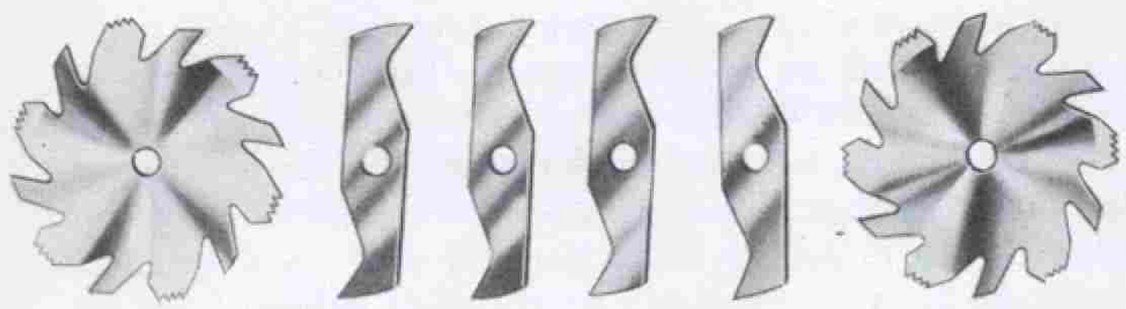




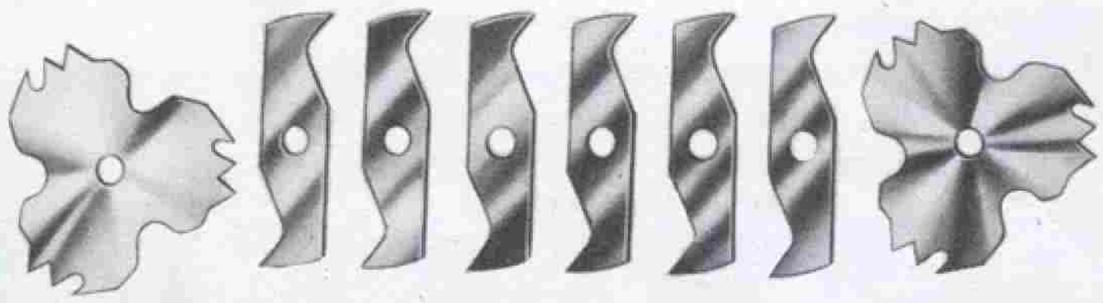
No. 4 MOULDING HEAD

With ⅝" arbor hole for Beaver Circular Saw.

DADO CUTTERS



Set of 6 dado cutters. 6" diam. with ⅝" arbor hole. Will cut up to 13/16" wide. . . . . CAT. No. 36-062

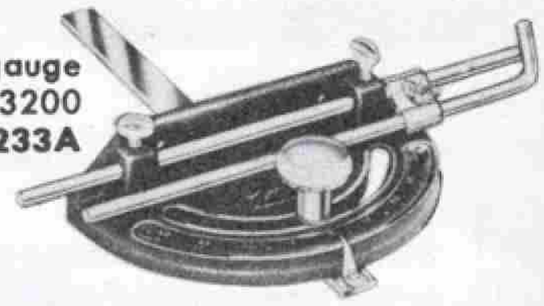


Set of 8 dado cutters. 5½" diam. with ⅝" arbor hole. Will cut up to 9/16" wide. . . . . CAT. No. 36-061

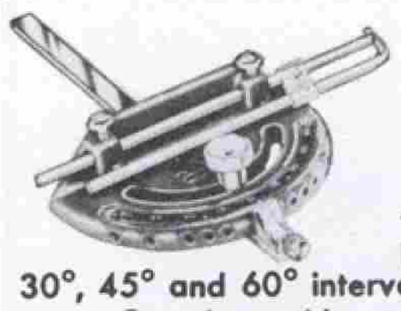
MITRE GAUGES



Accurate mitre gauge complete with gauge rods and ¼ x ⅝" guide bar for use on CS2200 circular saw. . . . . CAT. No.2245A



Accurate mitre gauge complete with gauge rods and 3/16 x ¾" guide bar for use on CS3200 saw. . . . . CAT. No. 3233A



An extremely accurate mitre gauge with positive automatic settings at 0°, 15°, 22½°, 30°, 45° and 60° intervals. Has eccentric pivot pin to permit adjustment. Complete with gauge rods and ¼ x ¾" guide bar. Use on CS4200 saw. . . . . CAT. No. 4249A

RIP FENCES

Rip fence for CS2200 —CAT. No. 2237A

Rip fence for CS3200 —CAT. No. 32141A

Rip fence for CS4200 —CAT. No. 4234A

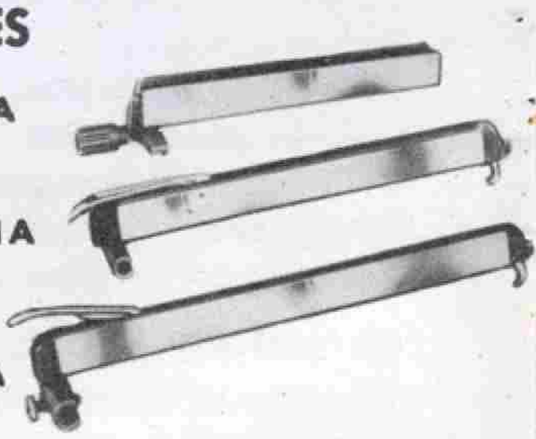
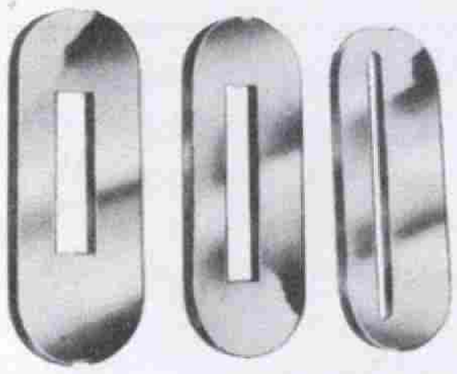


TABLE INSERTS



Standard table insert for CS2200 & CS3200 . . . . . CAT. No. 32181

Dado table insert for CS2200 & CS3200 . . . . . CAT. No. 32186

Moulding table insert for CS2200 & CS3200 . . . . . CAT. No. 32187

Standard table insert for CS4200— . . . . . CAT. No. 4219

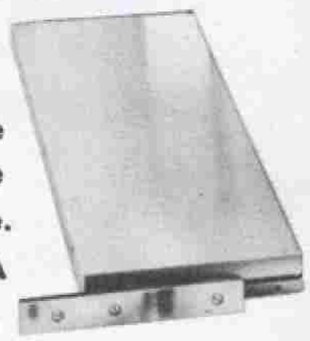
Dado table insert for CS4200— . . . . . CAT. No. 42145

Moulding table insert for CS4200— . . . . . CAT. No. 42146

TABLE EXTENSION

EXTENSION WING, one only, for catalogue number CS2200 with section of fence guide bar. Can be used on either side of saw table.

CAT. No. 2280A



DOUBLE BELT DRIVE

A kit consisting of arbor pulley, companion motor pulley, and 42" V-belt is available to provide double belt drive on the CS3200 Beaver Circular Saw. . . . . CAT. No. 32272A



WOBBLE WASHER

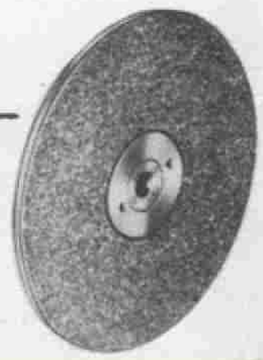
Wobble Washers with ⅝" arbor hole. Readily adjustable to make any of above cuts.

CAT. No. 650

SANDING DISC AND PAPERS

8" Sanding Disc with ⅝" arbor hole. CAT. No. 508

5 papers, assorted grits, to fit above. . . . . CAT. No. 508A



BEAVER CIRCULAR SAWS

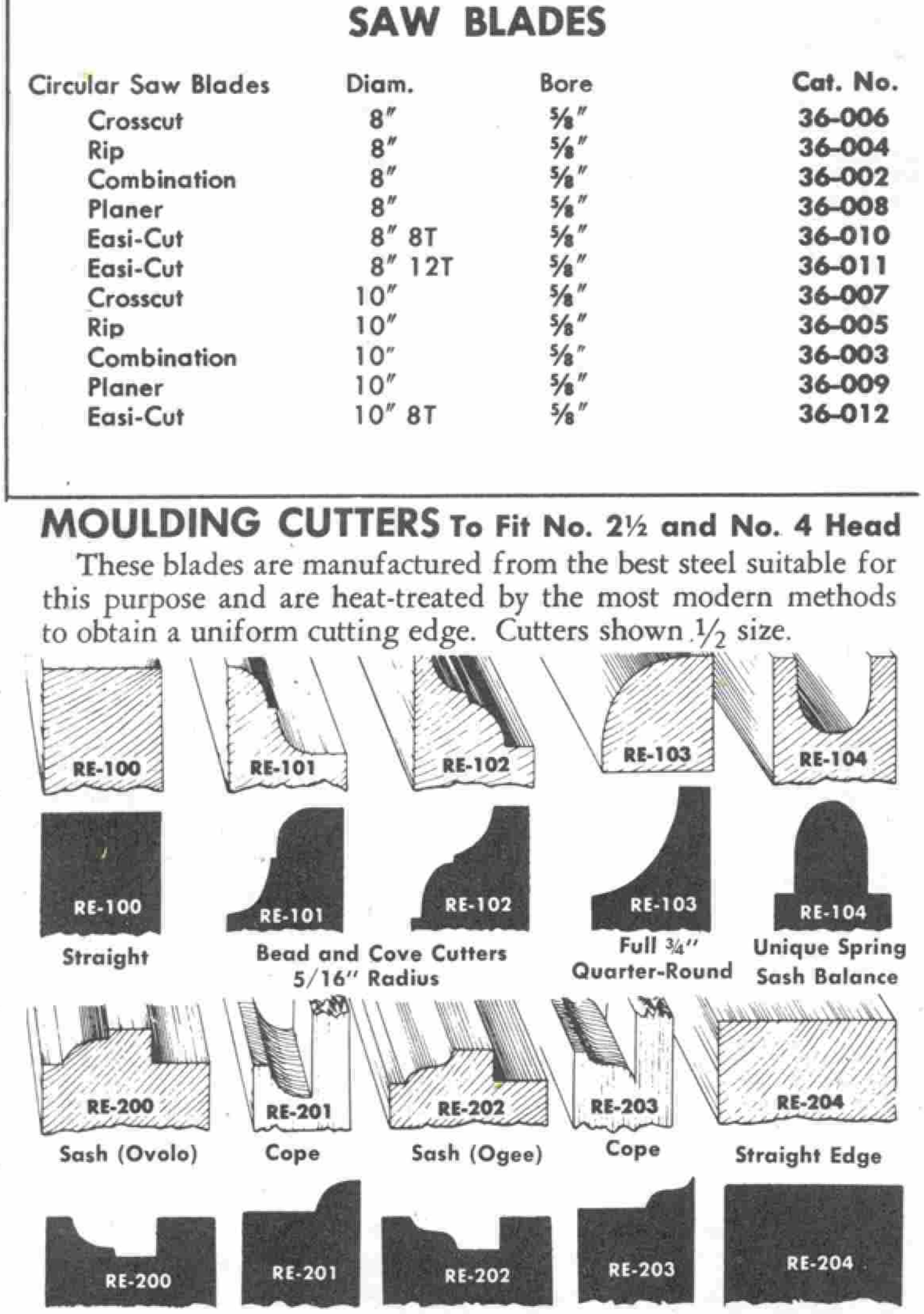
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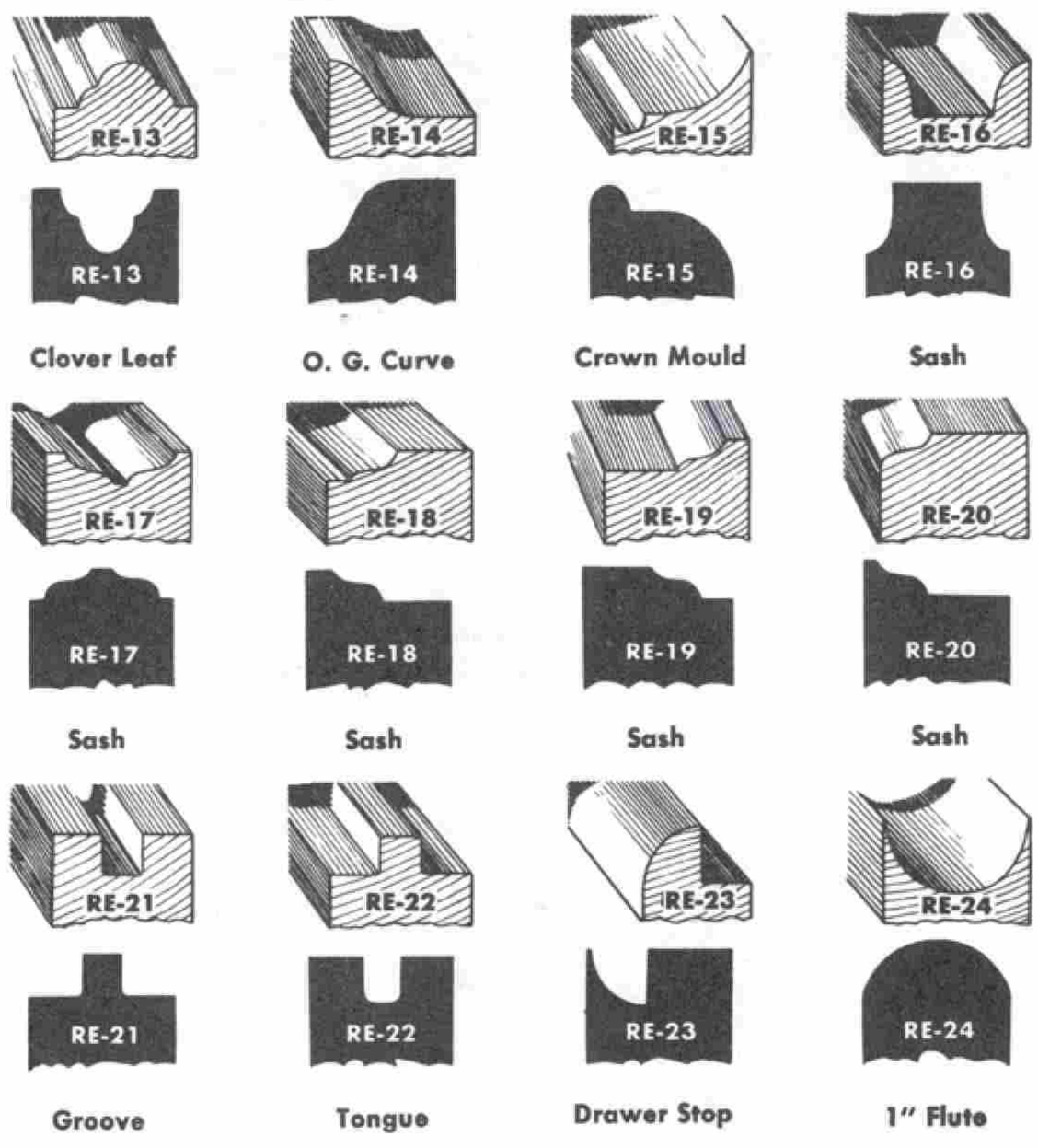
SAW BLADES

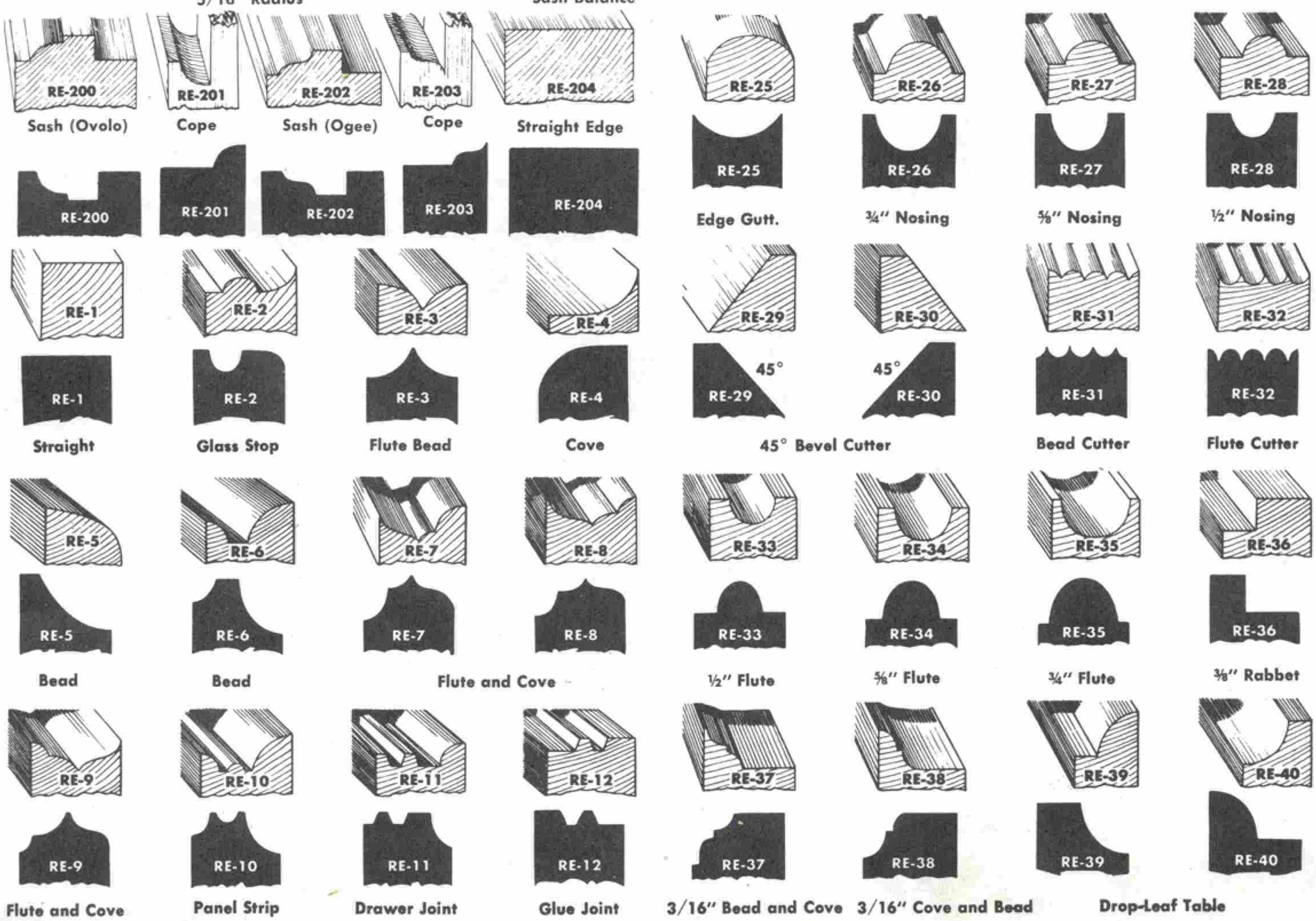
Circular Saw Blades	Diam.	Bore	Cat. No.
Crosscut	8″	5/8″	36-006
Rip	8″	5/8″	36-004
Combination	8″	5/8″	36-002
Planer	8″	5/8″	36-008
Easi-Cut	8″ 8T	5/8″	36-010
Easi-Cut	8″ 12T	5/8″	36-011
Crosscut	10″	5/8″	36-007
Rip	10″	5/8″	36-005
Combination	10″	5/8″	36-003
Planer	10″	5/8″	36-009
Easi-Cut	10″ 8T	5/8″	36-012

MOULDING CUTTERS To Fit No. 2½ and No. 4 Head

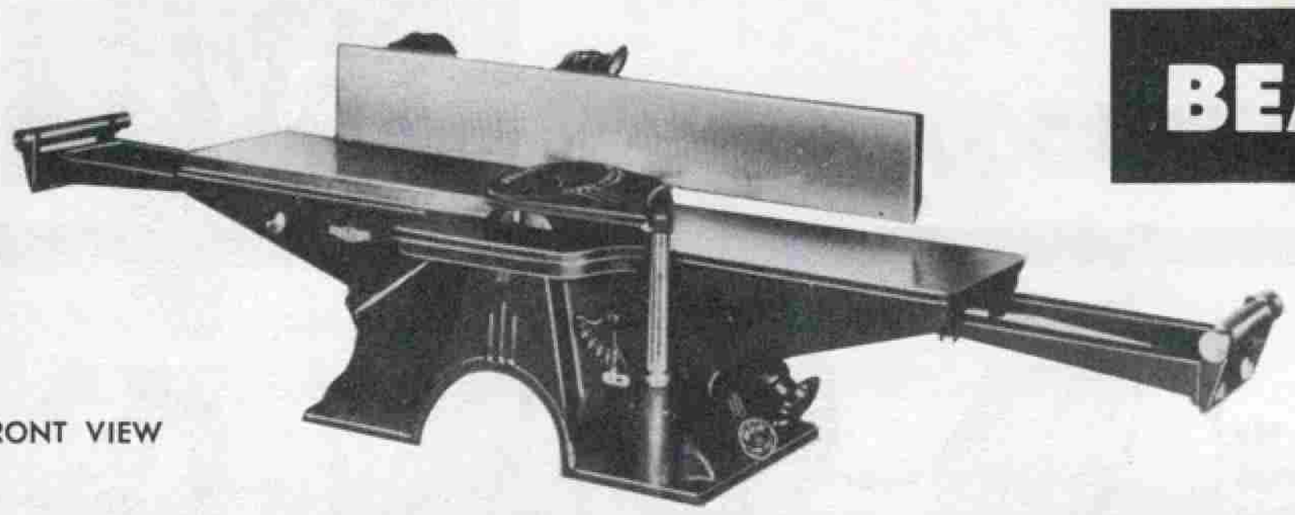
These blades are manufactured from the best steel suitable for this purpose and are heat-treated by the most modern methods to obtain a uniform cutting edge. Cutters shown ½ size.







BEAVER 6″ JOINTER–PLANER



FRONT VIEW

The Beaver 6″ Jointer-Planer, with 5/8″ rabbet depth capacity, offers the utmost in performance, modern engineering development and pleasing appearance. The integral design of pulley and cutterhead combined with Timken tapered roller bearings permits the simplest method of adjustment to maintain maximum efficiency.

CATALOGUE LISTING

Complete 6″ Jointer-Planer with knives and V-belt. Less extensions and motor .....**Cat. No. PJ3800**
Set of extension rollers..**Cat. No. 38100**
Set of 3 ground cutter knives.....
.....**Cat. No. 3838**

SPECIFICATIONS

Height	13½″
Length (without extensions)	35″
with extensions	53½″
Width	22″
Length of fence	27½″
Shipping weight	162 lbs.
Recommended motor pulley	8″ dia.
Recommended motor	½ or ¾ H.P.

CONSTRUCTION FEATURES

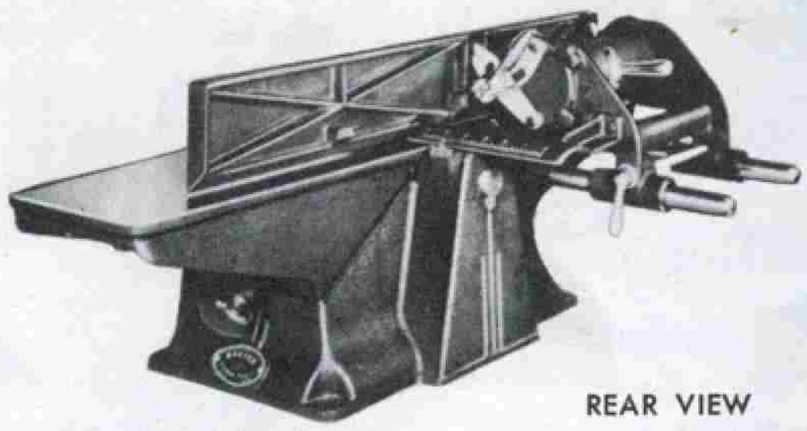
Heavy cast base incorporates belt and pulley housing which permits drive from behind or below. The table ways are accurately machined and the bottom is ground to ensure level set-up. It also has a machined socket and return spring for the front blade guard. 7/16″ diameter holes are provided for fastening the base to bench or work table.

Sturdy semi-steel tables have machined ways, ground top and are adjustable to working height by means of large easy-to-grip knobs. Tables are drilled and tapped to receive extension rollers as required.

The cutterhead and pulley are machined integrally with three slots for cutter knives. They are supported on Timken tapered roller bearings between heavy, readily adjustable steel trunnions. This design permits exact balancing of the unit for smooth efficient operation with minimum vibration. The unit may be easily removed and replaced if required for belt changes, etc.

Advanced design and heavy, machined construction of the fence, plus double mountings rather than the conventional single end mounting, affords rigid support in any position. An accurate degree scale, incorporated into the fence design, permits smooth accurate setting. A single cam clamp, conveniently located, firmly locks the fence at any angle. The entire fence assembly is mounted on 2—1″ ground bars securely fastened in rear table. This method of mounting maintains a constant contact between fence and rear table regardless of depth of cut.

The front blade guard is an aluminum casting and steel support rod mounted on the base which permits any depth of cut without changing the clearance between guard and rear table. This feature is particularly advantageous when jointing thin pieces of stock. The entire guard assembly is easily removed for rabbeting and replaced when required with no screws to loosen or loose springs to misplace.



REAR VIEW

The rear blade guard is of cast aluminum, securely fastened to the fence, thereby giving complete blade coverage behind the fence regardless of position. A six inch scale, cast in the guard is a time saver when setting fence for width of cut.

Depth scale designed for accurate depth-of-cut setting, is fastened to the base and actuated by movement of the front table. Its convenient location and oversize graduations simplify depth-of-cut settings.

OPERATING YOUR BEAVER JOINTER-PLANER

Proper alignment of the blades and the maintenance of keen cutting edges are essential to good jointing.

The most common operation on a jointer-planer is that of jointing an edge. With the fence set square to the table and the front table set to depth-of-cut required, the work is fed across the knives, with the left hand maintaining work pressure against the back table and the fence and the right hand feeding the work and holding work against the fence. The right hand exerts no downward pressure. The best-dressed side of the work should be against the fence. When edge jointing a wide piece of stock, it is advisable to fasten an auxiliary fence to the existing one, making a large fence bearing surface.

When jointing an end, the same general procedure is used but the depth of cut should be very fine to prevent tearing the grain at the end of the cut.

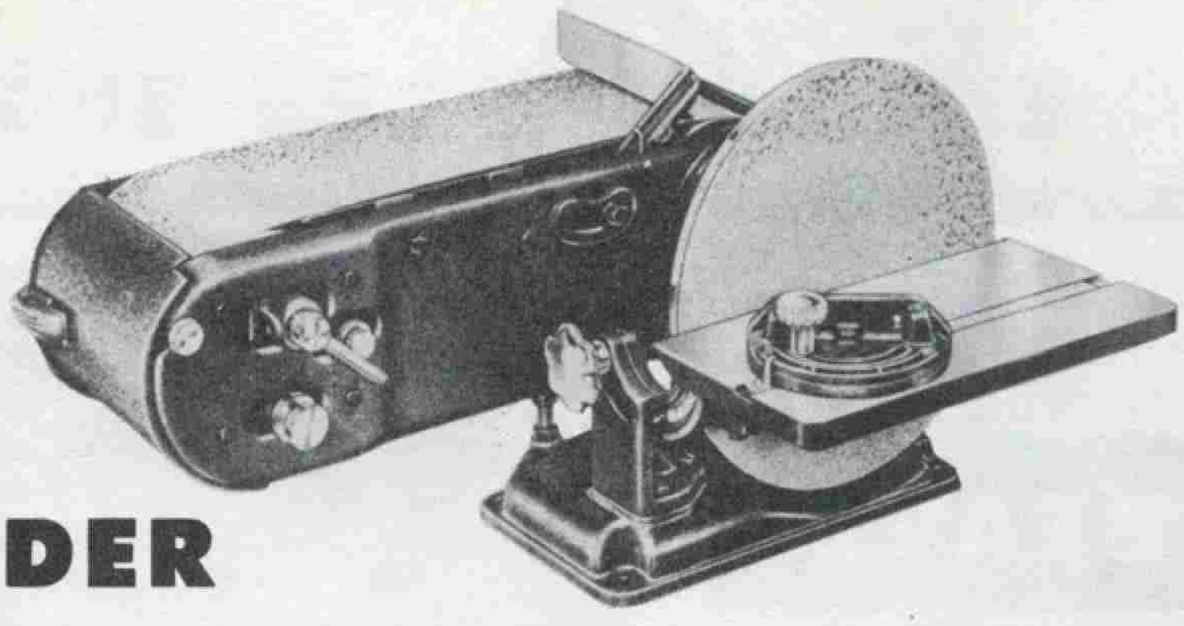
When rabbeting, the guard must be moved. This is accomplished simply by lifting the guard and the support rod out of the socket in the base. The fence is set to width of rabbet and the front table dropped to depth of rabbet required and the work fed through in a manner similar to that in jointing. If a deep rabbet is required it is sometimes advisable to make more than one cut.

Using a straight edge along the rear table top, insert the blades in slots until the cutting edges are level with table top at the height of their rotary swing, when the depth scale registers zero. All three blades must be parallel to table top and parallel to each other. The rabbeting ends of blades must also protrude the same distance, $\frac{1}{32}$″ to $\frac{1}{16}$″ past the rabbeting cutout on rear table. Do not tighten the blades completely in place in one operation. Locate the first blade and snug into place, repeating for the second and third blades and then tighten in place progressively.

The keen edges on the blades can be maintained for some time with regular honing. When it becomes necessary to regrind them, it may best be accomplished by grooving a hardwood block to take the blade and sliding the block back and forth on a guide rail set on the grinder table. Very light cuts should be taken on the grinder to prevent burning and all blades should be ground with the same number of passes across the grinding wheel.

BEAVER

6″ BELT & DISC SANDER



The Beaver 6″ Belt and Disc Sander is designed to give the craftsman or hobbyist a sturdy, accurate finishing machine for woods, plastics or metals. The belt may be used in either horizontal or vertical position and the covers are readily removable to permit using the drums for contour work. Provision is made to permit use of No. 1 or No. 2 Morse Taper drum sanders when the disc has been removed.

CATALOGUE LISTING

Complete 6″ Belt & Disc Sander with sanding belt, sanding disc, V-belt, table, mitre gauge. Less motor. . . . **Cat. No. BDS3900**

SPECIFICATIONS

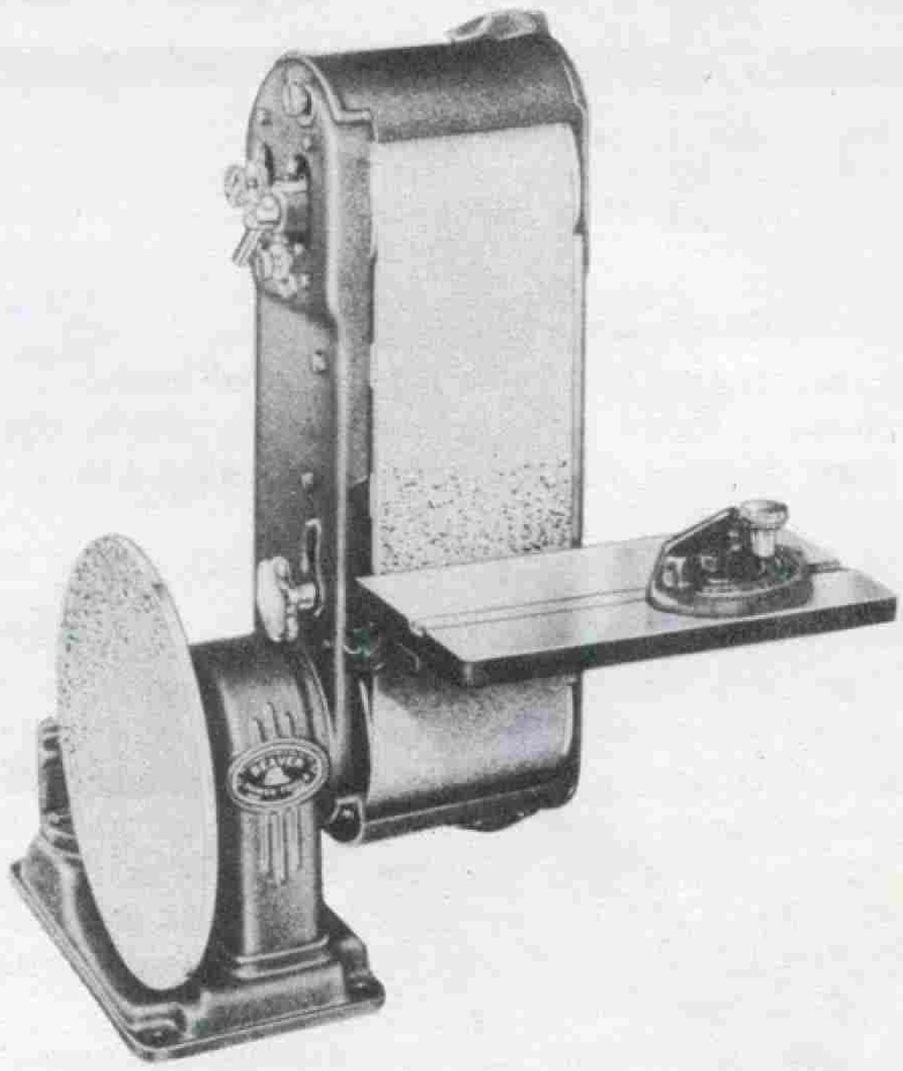
Length	26″
Width	25″
Height	12½″
Disc size	12″ diam.
Sanding belt size	6 x 48″
Disc and belt table	7 x 13″
Belt support table	13 x 6⅜″
Belt drums	5½″ diam.
Recommended motor pulley	3″
Shipping weight	81 lbs.
Centre to centre of drums	15¼″
Spindle speeds	
with 25 cycle 1425 R.P.M. motor—	950 R.P.M.
with 60 cycle 1725 R.P.M. motor—	1150 R.P.M.

OPERATING YOUR BEAVER SANDER

The Beaver 6″ Belt and Disc Sander has been designed to provide the utmost in versatility in a finishing machine.

In the horizontal position short work can be finished on the belt with the use of the work stop. By removing the work stop, long pieces of wood, plastic or metal can be finished by feeding lengthwise along the belt. Mitred work, compound angles or circular work can be finished on the disc sander using the tilting table as a work support and the mitre gauge for accurate angle work.

The tilt table can be removed along with the disc sander and provision is made in the spindle to receive any drum sander with either a No. 1 MT or No. 2 MT shank.



When large internal radii are to be finished the belt frame can be tilted to about 45° and the end cover removed thus making the 5½″ diameter belt drum available.

By tilting the belt frame up to a vertical position and positioning the tilting table in the trunnion provided as shown in the illustration, end grain work can be sanded to a smooth finish.

Several different grades of abrasive belts are available, ranging from a very fine grit to a very coarse grit. A garnet abrasive belt is satisfactory for wood sanding. When surfacing metals, an aluminum oxide belt is preferable.

ACCESSORIES AVAILABLE FOR THE BEAVER SANDER

6 x 48″ Sanding Belt, coarse	CAT. No. 36-066
6 x 48″ Sanding Belt, medium	CAT. No. 36-067
6 x 48″ Sanding Belt, fine	CAT. No. 36-368
12″ Sandpaper Discs, coarse	CAT. No. 36-063
12″ Sandpaper Discs, medium	CAT. No. 36-064
12″ Sandpaper Discs, fine	CAT. No. 36-065

See page 14 of this catalogue for drum sander and drum sander sleeves which can be used on the Beaver Sander.

BEAVER



36″ GAP BED WOOD LATHE

CATALOGUE LISTING

Beaver Gap Bed Lathe has improved headstock spindle, machined to receive a No. 2 Morse taper, and is equipped with draw bar and threaded adapter is equipped to receive a No. 1 Morse taper.

Complete lathe, less motor and motor pulley. . **Cat. No. WL3400**

CONSTRUCTION FEATURES

Bed is a sturdy, one-piece, semi-steel casting with fully machined ways and $\frac{5}{16}$″ holes for bolting to bench. Headstock is a semi-steel casting, housing a 4-step aluminum pulley. Hollow spindle centre is driven between lifetime-lubricated ball bearings from behind or below the lathe. Spindle is machined and ground to receive a No. 2 Morse taper in the front end and is threaded $\frac{3}{4}$″-16 L.H. on back to take a face plate, sanding disc, etc., for outboard work.

The adapter and draw bar, standard equipment with every Beaver Lathe, permits the use of any No. 1 Morse taper accessory. The adapter is also threaded $\frac{7}{8}$″-14 thread on front end to take spur centre, face plate, sanding disc, etc. The draw bar, inserted in back end of spindle and threaded into adapter prevents any possible slippage when large diameter work is turned. The tailstock is a fully machined semi-steel casting with knockout bar, chrome hand wheel and barrel friction-clamp handle. The hardened steel No. 1 Morse taper barrel has a full 2″ travel.

The tool rest and tool rest base are equipped with quick acting clamps to lock in any position.

STARTING A PROJECT TO BE TURNED BETWEEN CENTRES

About the only tools required, other than the cutting chisels, to start a lathe project, are a scale for length measurements and a pair of calipers for diameter measurements. The first step, after the wood has been selected, is to mark centres on the ends of work piece as accurately as possible. If the work is hardwood the centres should be drilled about $\frac{1}{8}$″ deep. Place the spur centre against one end of work and tap gently with a soft hammer until spurs are well set in the wood. Here again, if the work is hardwood diagonal saw cuts in the end of the work will be necessary. Replace spur centre on spindle and while holding work firmly against it, slide the tailstock assembly to within 1″ of other end of work. Tighten bolt to securely lock tailstock in position on the bed. Oil the end of the work to be supported by tailstock—this prevents burning of the centre—and, using the handwheel, advance tailstock centre to seat in end of work. Rotate work slowly, continuing to advance centre until work is difficult to turn. Retract centre by about $\frac{1}{4}$ turn of hand wheel and lock securely in position.

The next step involves the position of the tool rest. It should be about $\frac{1}{8}$″ from the work and set about $\frac{1}{8}$″ above the centre line. Small variations in these figures are permissible but the tool rest should never be below the centre line of the work. Never start the motor without first rotating the work by hand to make sure that everything is clear.

If the work is being turned from a square, as it will be in most cases, the starting cuts shuld be very light until a round shape is obtained. Always start the cuts from the centre and work towards the end of the project.

FACE PLATE TURNING

Any work that cannot be supported between centres is usually done on a face plate. The most common of these are the single screw centre, the 3″ face plate with four screw holes and the 6″ face plate with 4 slots and a series of screw holes. The work should be band sawed to within $\frac{1}{8}$″ of the finished diameter and then mounted on the face plate most suitable for the job by the use of screw nails. The right-angle tool rest is the most effective on this type of set-up, permitting the operator to work on the periphery or the face of the project without changing the set-up.

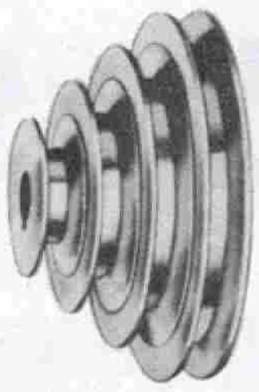
SPECIFICATIONS

Capacity in gap	15″ diam. x 3″ wide in gap
Capacity over ways	11″
Capacity over T-rest base	9½″
Distance between centres	36″
Motor requirements	⅓ or ½ H.P.
Shipping weight	64 lbs.
Speeds obtainable using Beaver No. 3416 4-step pulley	
60 cycle 1725 R.P.M.	800, 1350, 2200, 3700 R.P.M.
25 cycle 1425 R.P.M.	600, 1110, 1810, 3030 R.P.M.

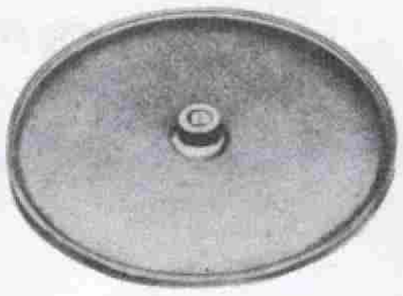
ACCESSORIES FOR THE BEAVER LATHE



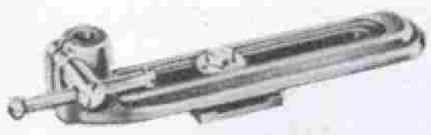
10″ face plate—**Cat. No. 3405**
6″ face plate—**Cat. No. 3406**
3″ face plate—**Cat. No. 3407**
10″ and 6″ face plates can be supplied with R.H. or L.H. thread for outboard use. When ordering for lefthand use, specify **Cat. No. 3405L or 3406L**



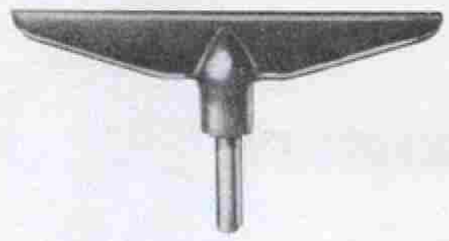
Companion Aluminum Motor Pulley, suppled in ½″, ⅝″ and ¾″ bore.—**CAT. No. 3416**



12″ Aluminum sanding disc, supplied with R.H. or L.H. thread—**CAT. No. 3410**



Tool rest base, complete—**CAT. No. 3404**



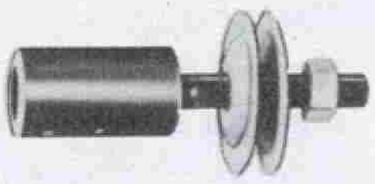
10″ tool rest—**CAT. No. 3418**



Headstock work arbor and drill chuck adapter, ½″–24 thread—**CAT. No. 3431**



24″ double tool rest—**CAT. No. 3411**



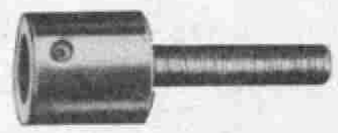
Motor shaft work arbor and drill chuck adapter, supplied for ½″, ⅝″ or ¾″ motor shaft—**CAT. No. 3432**



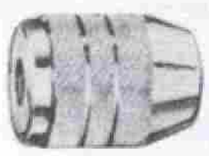
Spur centre with #2MT shank. **CAT. No. 402-2MT**
Spur centre with #1MT shank. **CAT. No. 402-1MT**



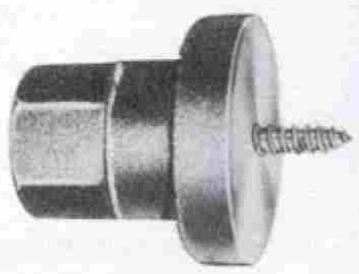
Cup centre with #1MT shank. **CAT. No. 397-1MT**



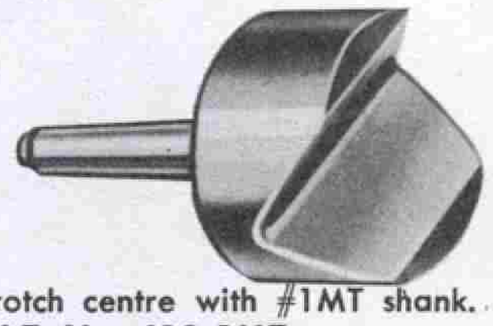
Tailstock drill chuck adapter, ½″–24 thread—**CAT. No. 3430**



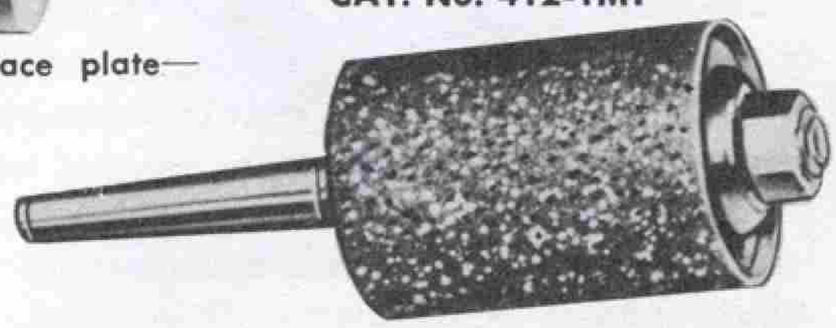
½″ capacity drill chuck threaded ½″-24. — **CAT. No. 365**



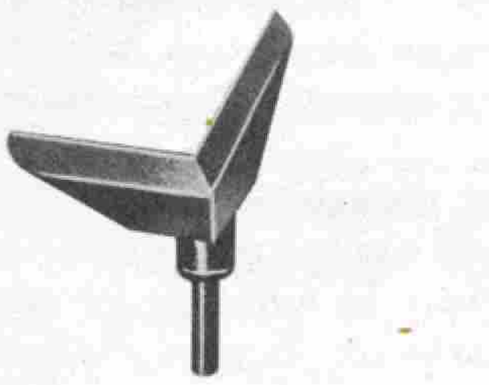
2″ screw centre face plate—**CAT. No. 3436**



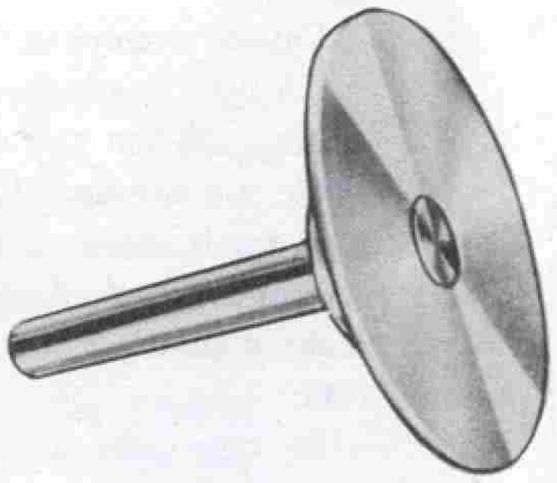
Crotch centre with #1MT shank. **CAT. No. 412-1MT**



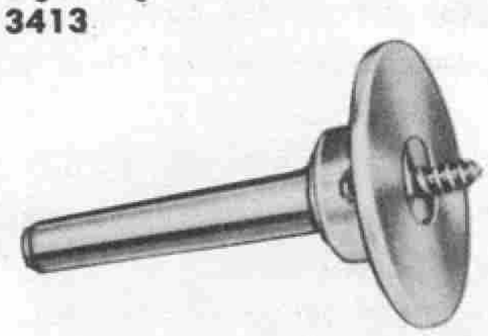
Drum sander 3 x 3″ with No. 1MT shank—**CAT. No. 425-1MT**
Drum sander 3 x 3″ with No. 2MT shank—**CAT. No. 425-2MT**
Drum sander 2 x 3″ with No. 1MT shank—**CAT. No. 426-1MT**
Drum sander 2 x 3″ with No. 2MT shank—**CAT. No. 426-2MT**
3 x 3″ drum sander with straight shank—**CAT. No. 425-½ S.S.**
2 x 3″ drum sander with straight shank—**CAT. No. 426-½ S.S.**
Assorted sleeves (set of 3) for 3 x 3″—**CAT. No. 425-A-3**
Assorted sleeves (set of 3) for 2 x 3″—**CAT. No. 426A-3**



Right angle tool rest—**CAT. No. 3413**



3″ drill pad with #1MT shank. **CAT. No. 410-1MT**

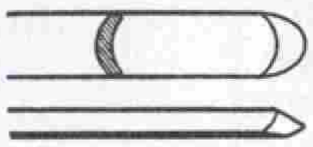


3″ screw centre with No. 1MT shank—**CAT. No. 415-1MT**
3″ screw centre with No. 2MT shank—**CAT. No. 415-2MT**
2″ screw centre with No. 1MT shank—**CAT. No. 420-1MT**
2″ screw centre with No. 2MT shank—**CAT. No. 420-2MT**

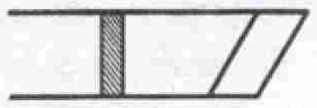
See page 14 for Grinding and Buffing wheels.

CUTTING TOOLS

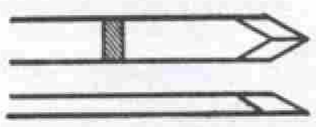
The standard cutting tools used in lathe operation are identified below in order of their importance.



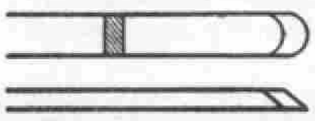
GOUGE
A round nose, hollow chisel used mainly for roughing cuts.

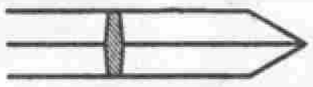


SKEW CHISEL
A flat chisel, double ground on an angle across the end of the chisel, used for finishing cuts.



SPEAR-POINT CHISEL and ROUND-NOSE CHISEL . Scraping tools ground as shown and used wherever the contour of the chisel lends itself to the contour of work.





PARTING TOOL
A double ground tool used for parting off the work and plunging straight cuts to diameters particularly when cutting diameter guides in contour work.

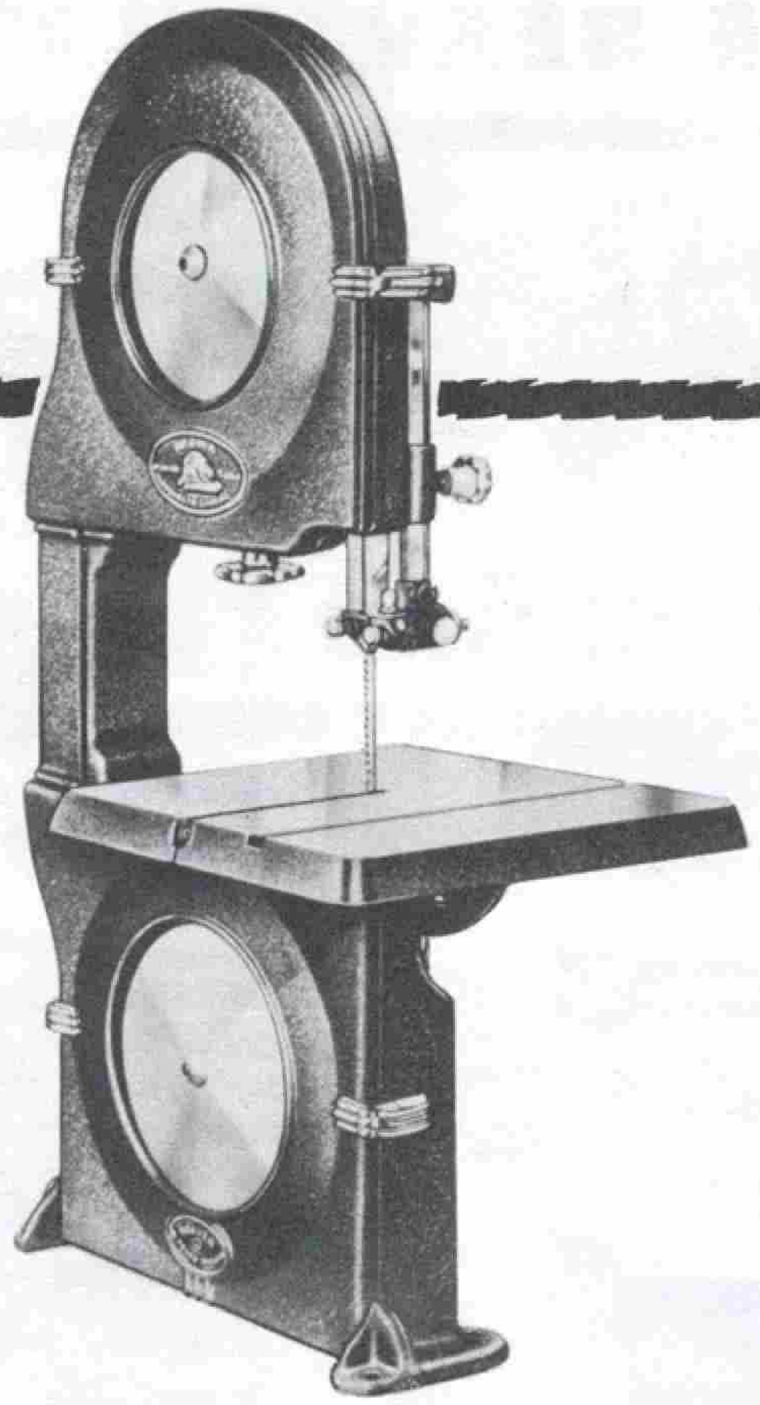
The importance of keeping a keen edge on your cutting tools cannot be too highly stressed. A keen edge is the difference between smooth work and rough, splintery work.



Set of 6 wood turning chisels. **CAT. No. 36-060**
Set of 8 wood turning chisels. **CAT. No. 36-059**

BEAVER

12″ BAND SAW



The Beaver 12″ Band Saw, designed to give maximum efficiency and long life at a moderate price, embodies all the features generally found in the larger, more expensive models. The three piece semi-steel frame, ball bearing mounted band wheels, completely guarded blade, shrouded drive pulley and tilting table have been combined to provide rigid construction and eye-pleasing appearance.

CATALOGUE LISTING

Complete 12″ Band Saw less motor pulley, V-belt and mitre gauge..... **Cat. No. BS2300**

SPECIFICATIONS

Height	37½″
Base size	16 x 15″
Depth of throat	full 12″
Depth of cut under guides	full 5″
Blade length	85″
Recommended motor pulley	3½″ dia.
Table size	12 x 15″
Side guides—hardened steel, fully adjustable	
Blade thrust guides—hardened steel rollers, fully adjustable	
Shipping weight	90 lbs.
Speed—using recommended motor pulley	
60 cycle 1725 R.P.M. motor	3000 S.F.M.
25 cycle 1425 R.P.M. motor	2475 S.F.M.

CONSTRUCTION FEATURES

The table is an accurately ground semi-steel casting which tilts 45° forward and 10° back. It is slotted to take a mitre gauge which is available as an accessory. An adjustable swing-away stop facilitates re-positioning of table to horizontal. Band wheels are cast aluminum, rubber tired and double ball bearing mounted with the upper wheel adjustable for true blade backing and spring loaded for blade tension. Cast aluminum covers, in two sections, have positive position snap-on locks.

OPERATING YOUR BEAVER BAND SAW

The band saw is an indispensable machine in the home or industrial workshop for contour or straight cutting of wood, plastics or metals. The work is normally fed through the blade with the right hand and guided with left. For straight ripping operations the ripping fence may be used and will prove efficient for straight accurate cutting, when using a skiptooth blade. When mitre cutting or crosscutting, the work is held against the face of the mitre gauge and fed through the blade guided by table slot. When feeding the work freehand, if the blade set is not correct or the blade is improperly sharpened, it will tend to cut off line. This can be overcome by adjusting the line of feed. It is not a difficult thing to overcome and the operator will experience no difficulty.

Do not attempt to force the work through the blade too quickly. A light steady feed pressure will give best results for smooth cutting. When cutting contour work be sure the right width blade is being used for the radii to be cut. In other words, if a very small radius is in the contour to be cut, a narrow blade should be used. Contour cutting can be greatly simplified by making auxiliary cuts to break up the contour into short length cuts.

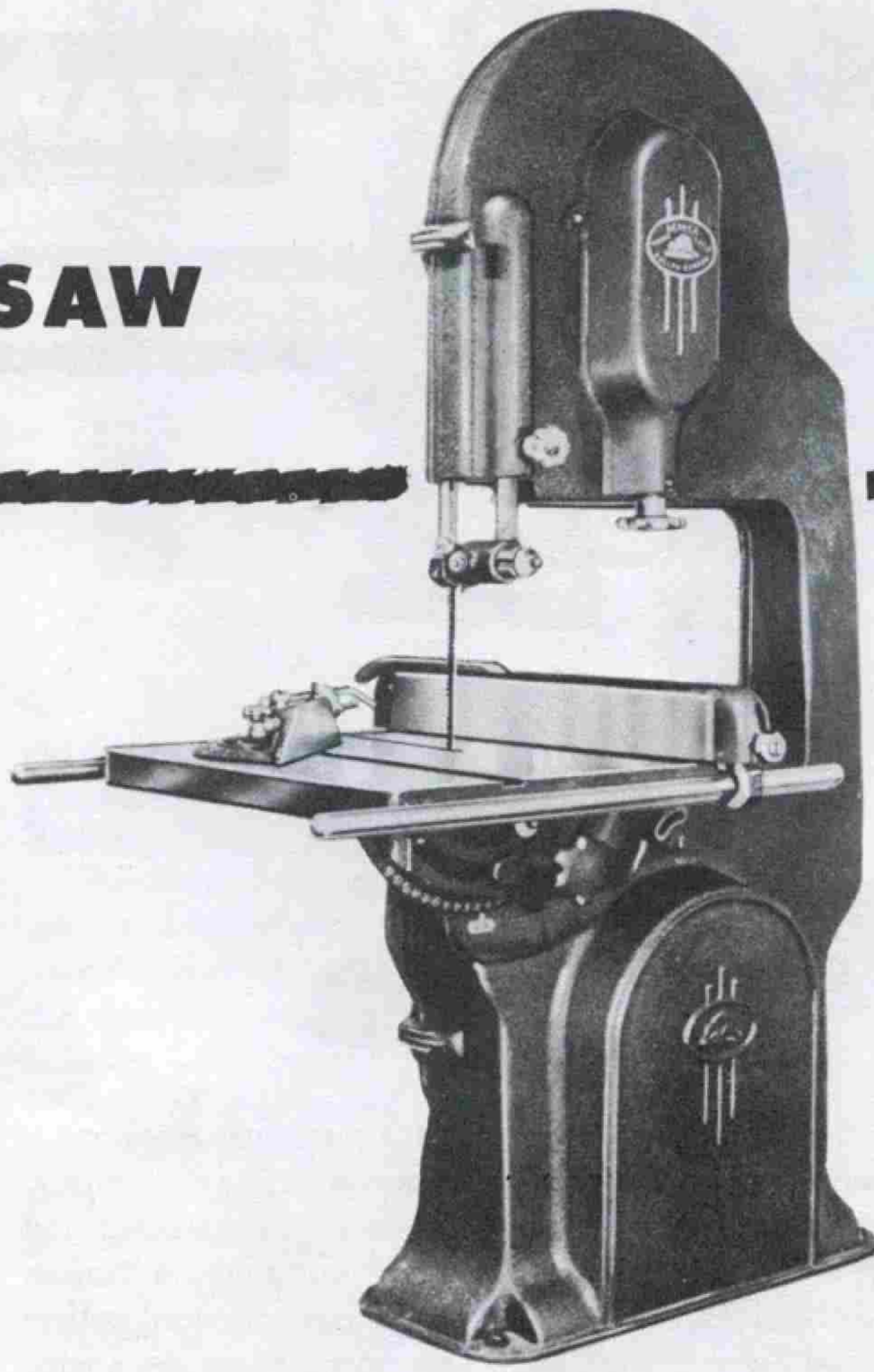
In some cases, where a very small radius forms part of a contour or where it is desired to cut out a square corner, it is advisable to drill a hole and run the saw cuts into them.

For metal-cutting operations the speed range of the Beaver Band Saws, using a 4-step motor pulley ranging from 2¼″ to 4¼″, permits the cutting of sheet metal, aluminum, brass and plastics. For heavier metal cutting, the machine should be equipped with a speed reduction unit or jack shaft to slow the speed to the required surface feet per minute.

Rip fence, guide rails, and mitre gauge for BS3300 complete kit	CAT. No. 33200
Rip fence only for No. 3300	CAT. No. 3364A
Rip fence and guide bars only for No. BS3300	CAT. No. 33300
Mitre gauge only for No. 3300	CAT. No. 3233A
Mitre gauge complete with gauge rods for BS2300	CAT. No. 2245A

BEAVER

14″ BAND SAW



The Beaver 14″ Band Saw embodies the most up-to-date design developments, to combine unsurpassed performance with smart appearance. It features a cast aluminum one-piece frame, full front cover, infra-red baked enamel and chrome plate finish, saw wheels double-mounted on sealed-for-life ball bearings, interchangeable upper and lower saw guides and a compensating spring mounting to maintain constant blade tension. This band saw will give maximum service with minimum blade breakage, to suit even the most critical craftsman or hobbyist.

CATALOGUE LISTING

Complete 14″ Band Saw with blade, rip fence, guide bars and mitre gauge. Less motor.....**Cat. No. BS3300**

Complete 14″ Band Saw same as above less motor, ripping fence, guide bars and mitre gauge.....**Cat. No. BS3300-1**

SPECIFICATIONS

Height overall	45″
Height of table from base	19½″
Throat to blade distance	14⅛″
Capacity under saw guide	7½″
Shipping weight approx.	124 lbs.
Saw blade length	101″ max...98″ min.
Base size	19½ x 8½″
Table size	15 x 15″

BAND SAW BLADES

Standard Wood Cutting

¼ x 85″ for BS2300—**CAT. No. 36-040**
⅜ x 85″ for BS2300—**CAT. No. 36-041**
½ x 85″ for BS2300—**CAT. No. 36-042**
¼ x 101″ for BS3300—**CAT. No. 36-033**
⅜ x 101″ for BS3300—**CAT. No. 36-034**
½ x 101″ for BS3300—**CAT. No. 36-035**

Skiptooth

¼ x 85″ for BS2300—**CAT. No. 36-022**
⅜ x 85″ for BS2300—**CAT. No. 36-023**
½ x 85″ for BS2300—**CAT. No. 36-024**
¼ x 101″ for BS3300—**CAT. No. 36-019**
⅜ x 101″ for BS3300—**CAT. No. 36-020**
½ x 101″ for BS3300—**CAT. No. 36-021**

We are equipped to supply any length blade in ¼″, ⅜″ or ½″ widths in either standard woodcutting or skiptooth section.

CONSTRUCTION FEATURES

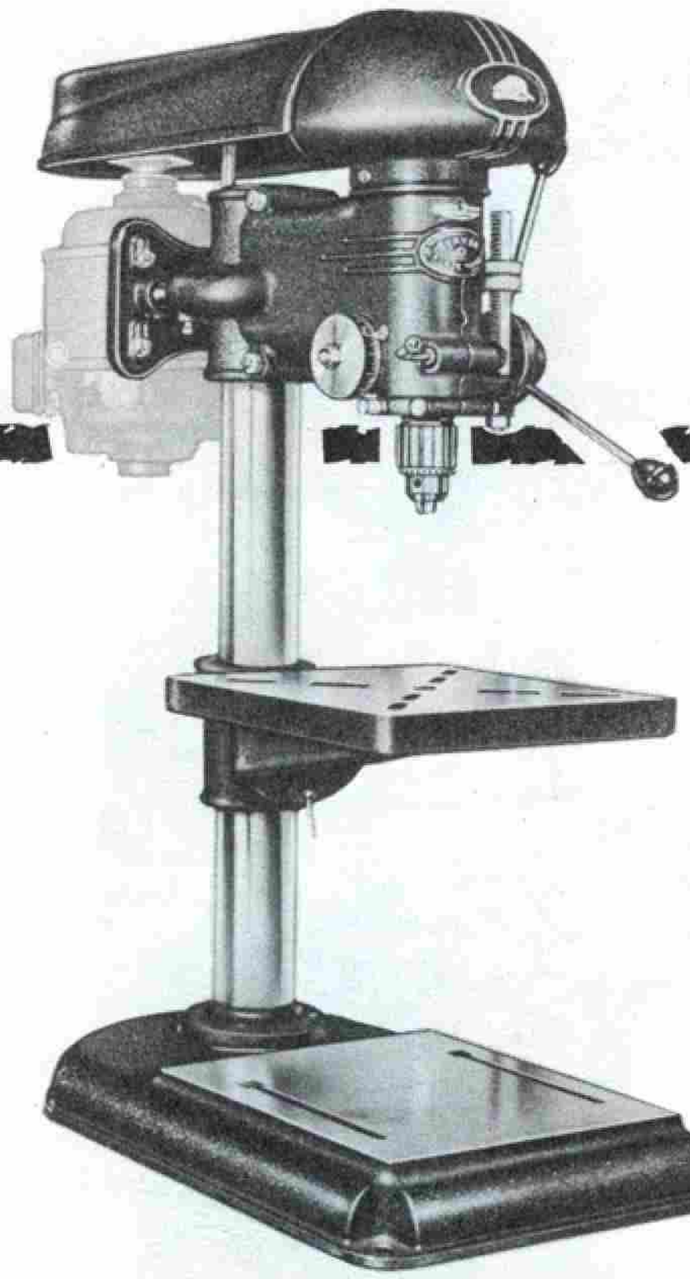
Table is semi-steel cast accurately machined and ground with 8½″ ahead of saw blade, solidly mounted on machined quadrant and ways with quickly legible and adjustable angle indicator. Tilts 45° ahead and 10° back, with quick-action adjustable positive stop for returning table to horizontal position. Has soft aluminum insert for saw protection. Machined way for mitre fence and chrome plated steel ripping fence ways do not interfere with changing of saw blades.

The upper and lower saw guides are interchangeable and have fully adjustable tilted ball bearing blade thrust guide and hardened steel side guides. The saw wheels are machined cast aluminum, rubber banded and statically balanced. Upper and lower wheels are interchangeable. Drive pulley is a semi-steel casting 8″ diameter fully machined and balanced to act as a fly-wheel for smoother operation. It is completely shrouded, permitting drive from behind or below machine.

The ripping fence is a semi-steel casting 18 x 2½″ high and is accurately machined and ground on both sides. Slides smoothly on table ways and clamps solidly on both ends by means of a single clamping rod. Can be used on either side of blade and is fully adjustable for alignment. The mitre gauge is graduated 60° both ways and is equipped with gauge rods and 12″ guide bar.

BEAVER

16″ DRILL PRESS



Beaver 16″ Drill Press—designed for maximum efficiency in craft or industrial work—presents the utmost in fine engineering, workmanship and appearance. It features a legible,accurate and adjustable depth scale, an adjustable depth stop gauge, 4 Timken taper roller bearings, angle tilt table, completely shrouded pulleys and belt, and five-step V-pulleys. This machine provides a wide range of speeds for any class of work on both the floor and the bench models.

CATALOGUE LISTING

Bench model 16″ Drill Press with ½″ capacity Jacob's chuck .....**Cat. No. DP3700-B**

Bench model 16″ Drill Press with No. 2 Morse Taper Spindle .....**Cat. No. DP3700-BMT**

Floor model 16″ Drill Press with ½″ capacity Jacob's chuck .....**Cat. No. DP3700-F**

Floor model 16″ Drill Press with No. 2 Morse Taper Spindle .....**Cat. No. DP3700-FMT**

All models complete with 5-step motor pulley, V-belt and belt guard. Less motor.

CONSTRUCTION FEATURES

An accurately machined semi-steel cast head incorporates motor bracket mounting rod recesses and friction clamps on column and quill. The spindle of nickel chrome alloy steel is machined, heat treated and accurately ground. It embodies six involute splines and is mounted in the quill on two Timken taper roller bearings with easily accessible adjustment features and heavy duty return spring.

There is a readily adjustable friction scale for accurate depth control and an adjustable stop for production depth control. A three lever handle with bakelite knobs—interchangeable with a single sliding handle if desired—provides ample feed pressure with a minimum of effort.

The spindle end has either a No. 33 Jacob's taper or a No. 2 Morse taper as specified when ordering. On the No. 33 taper spindle, a lock collar to take standard router bit adapters or shaper adapters provides a safety factor on shaping, routing, sanding and planing operations.

Spindle pulley is double keyed to a separate shaft of same material as spindle and has six female involute splines to fit spindle. The spindle pulley shaft is mounted on two adjustable Timken tapered roller bearings. This method of construction permits a free floating pulley sleeve and completely eliminates belt pull on the spindle. The motor pulley and spindle pulley are of semi-steel cast construction accurately machined in five matching steps and balanced for smooth operation.

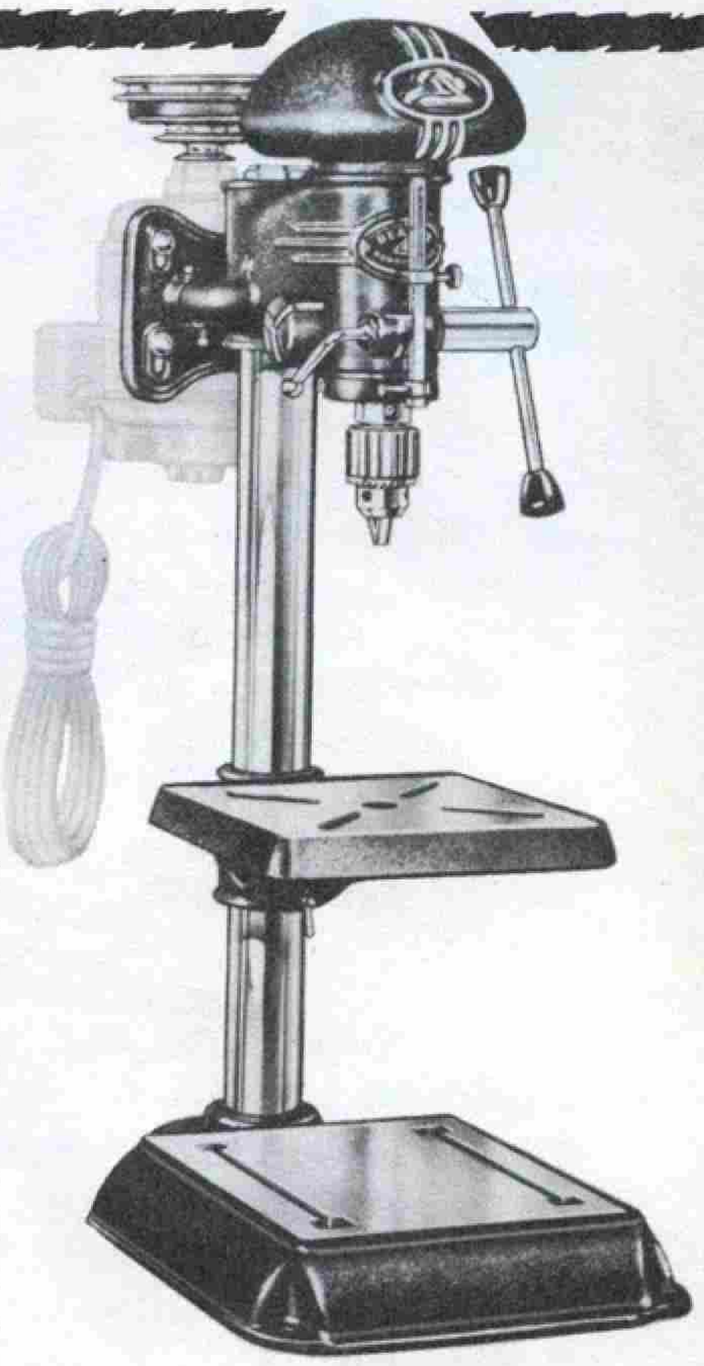
The table is a semi-steel casting with ground top. Bottom incorporates diagonal $\frac{7}{16}$″ bolt slots and is rigidly mounted on a knee bracket which swings through 360° right or left with a pin location to automatically reset the table at zero. The knee bracket is mounted on a friction clamp column collar which is readily adjustable to the length of the column. This method of construction facilitates future mounting of trough type tables, special fixtures, etc.

SPECIFICATIONS

Height—bench model	40″
—floor model	70″
Table size	12½ x 11¼″
Base size	23½ x 14″
Column diameter	3″
Spindle—No. 2 female Morse Taper or No. 33 male Jacob's Taper	
Distance column to spindle	8⅛″
Quill travel	4½″
Spindle speeds with 60 cycle, 1725 R.P.M. motor	600, 1270, 1725, 2340, 4840 R.P.M.
with 25 cycle, 1425 R.P.M. motor	500, 1050, 1425, 1935, 4000 R.P.M.
Shipping weight	Floor Model —208 lbs. / Bench Model—183 lbs.

BEAVER

12″ DRILL PRESS



The Beaver 12″ Drill Press is designed to provide, at a moderate price, a sturdy machine capable of doing the quality work of a more expensive model. The various features combine to conform with the highest of quality, efficiency, safety of operation and appearance.

CATALOGUE LISTING

Complete 12″ Drill Press with motor pulley, V-belt and ½″ capacity Jacob's Chuck. Less motor.....**Cat. No. DP2700**

CONSTRUCTION FEATURES

Base, table, table supports and head casting are semi-steel castings, fully and accurately machined and ground where required. The head assembly is a fully machined semi-steel body incorporating adjustable motor mount, 4-step drive pulley, quill, spindle, adjustable quill return spring, depth-of-cut gauge rod, scale, and head pulley guard.

High tensile spindle, of heat treated, precision ground steel, is mounted in ground semi-steel quill with integral rack teeth—is double ball bearing mounted, has No. 33 Jacob's taper and is threaded to take lock-on chucks to ensure safety when using accessories such as shaper cutters and routers. It is splined to mate with pulley shaft and provides a smooth, positive drive. The pulley shaft of high tensile, heat-treated precision ground steel is double ball bearing mounted to eliminate any possibility of belt pull transferring to spindle.

The table is a semi-steel casting accurately ground to give a smooth working surface. It will tilt and lock in any position up to 180° either way.

SPECIFICATIONS

Height	35″
Base size	18 x 12″
Base working area	10½ x 9½″
Column size	2¼″
Quill size	1-15/16″
Motor pulley supplied	4 step
Table size	9¼ x 9¼″
Quill travel	3¼″
Capacity—drills to centre of circle	12½″
—base to chuck	18¼″
—table to chuck	13¼″
Belt length	44″
Shipping weight	90 lbs.
Spindle speeds—	
60 cycle 1725 R.P.M. motor	614, 1245, 2390, 4850
25 cycle 1425 R.P.M. motor	507, 1030, 1772, 4000

OPERATING YOUR BEAVER DRILL PRESS

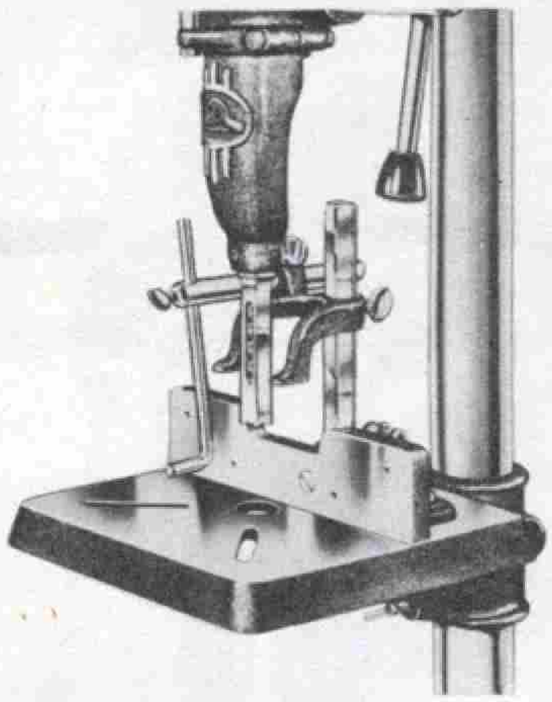
The uses of a drill press are many and varied with the accessories available. Primarily the drill press is for drilling holes in wood or steel. The capacity of the Beaver 16″ Drill Press is ¾″ diameter in mild steel with the No. 2 Morse Taper drill.

A mortising attachment is available as an accessory and includes chisel holder which clamps to the quill, adjustable fence, adjustable hold-down fingers and hold-in rods. When setting up the mortising attachment be sure that the chisel is directly in line with the hole in the table to prevent damaging the bit or chisel when mortising through a piece of wood. It is also extremely important that the chisel be set up square with the fence. To set up for mortising it is necessary to remove the stop collar from the end of the quill and lock the hooded chisel holder in its place. The mortising bit is held in the chuck and the chisel is locked into the holder by means of a set screw.

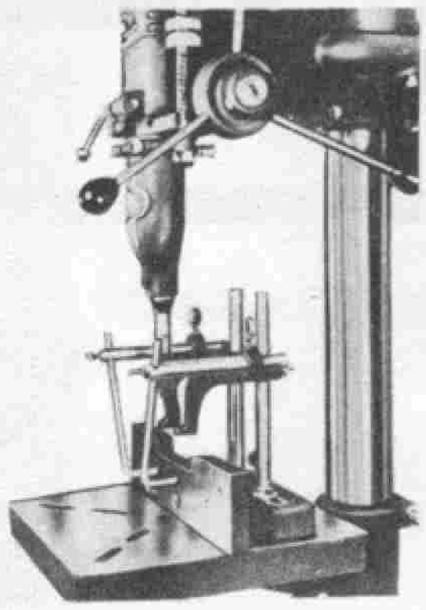
On standard mortising bits and chisels, the bit is left long so that it may be cut to suit the particular machine on which it is to be used. The bit should not extend more than $\frac{1}{32}$″ below the chisel. The extra length can be readily cut off the shank end of the bit with a hack saw.

Routing bits, shaper cutters, sanding drums, and planer heads may be used with No. 33 taper adapters which lock on the spindle by means of lock-nut supplied. When using shaper cutters it is sometimes advisable to invert the head underneath the table with the spindle projecting above the table. This can readily be accomplished by removing the head and table off the column, inverting the head and replacing it on the column before replacing the table.

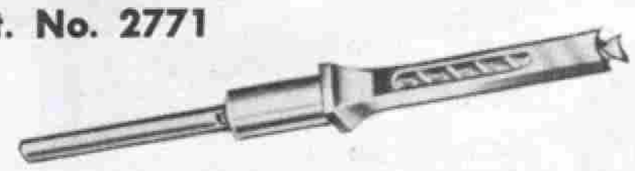
ACCESSORIES FOR BEAVER DRILL PRESSES



Mortising Attachment for DP2700. Consists of a precision built chisel adapter to clamp on the quill and an adjustable fence with work hold down shoes and hold in rod.....**Cat. No. 2771**



Mortising Attachment for DP3700. Complete with adjustable fence, hold down shoes, hold in rods...**Cat. No. 37-200**



Mortising chisels 1/4".....**CAT. No. 50-004**
Mortising chisels 5/16".....**CAT. No. 50-001**
Mortising chisels 3/8".....**CAT. No. 50-005**
Mortising chisels 7/16".....**CAT. No. 50-002**
Mortising chisels 1/2".....**CAT. No. 50-006**
Mortising bits 1/4".....**CAT. No. 52-004**
Mortising bits 5/16".....**CAT. No. 52-001**
Mortising bits 3/8".....**CAT. No. 52-005**
Mortising bits 7/16".....**CAT. No. 52-002**
Mortising bits 1/2".....**CAT. No. 52-006**

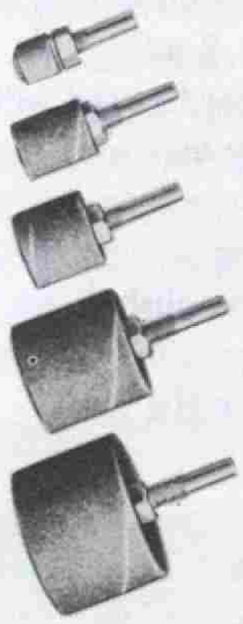
Chuck arbor No. 2MT.....**CAT. No. 3786**



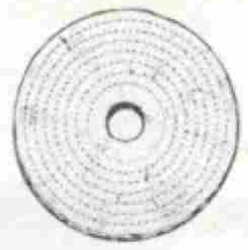
Rotary Disc Sander, 4" diam., ½" shank....
CAT. No. 504
25 assorted grits fits No. 504.....
CAT. No. 36-088

Drum sanding kit, drums—½ x ½", ¾ x 1", 1 x 1", 1½ x 1½", 2 x 2½"—10 Asst. Sanding Sleeves..... **CAT. No. 36-079**
10 Abrasive sleeves, ½ x ½".....
CAT. No. 36-090
10 Abrasive sleeves, ¾ x 1".....
CAT. No. 36-092
10 Abrasive sleeves, 1 x 1".....
CAT. No. 36-094
10 Abrasive sleeves, 1½ x 1½".....
CAT. No. 36-096
10 Abrasive sleeves, 2 x 2½".....
CAT. No. 36-098

Please specify fine, coarse or assorted when ordering.



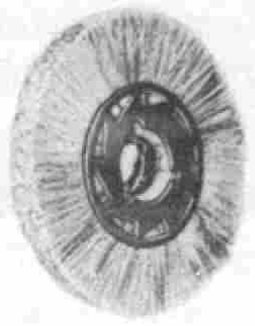
Buffing wheel 6" x ½" hole **CAT. No. 4005**

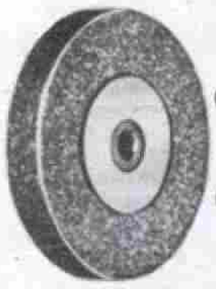




Wire wheel 6" x ½" hole, coarse.....
CAT. No. 3113
Wire wheel 6" x ½" hole, fine .**CAT. No. 3114**

Tampico fibre wheel 6" x ½" hole.....
CAT. No. 3115





Grinding wheel 6" x ½" with ½" hole 46 grit
CAT. No. 3101
Grinding wheel 6" x ½" with ½" hole 60 grit
CAT. No. 3102

1/4" machine spur bit.....**CAT. No. 804**
5/16" machine spur bit.....**CAT. No. 805**
3/8" machine spur bit.....**CAT. No. 806**
7/16" machine spur bit.....**CAT. No. 807**
1/2" machine spur.....**CAT. No. 808**
9/16" machine spur bit.....**CAT. No. 809**
5/8" machine spur bit.....**CAT. No. 810**
3/4" machine spur bit.....**CAT. No. 812**
Set machine spur bits as above.....
CAT. No. 818

Set of 7 auger bits.....**CAT. No. 11-821**
3/8" plug cutter.....**CAT. No. 814**
1/2" plug cutter.....**CAT. No. 815**
5/8" plug cutter.....**CAT. No. 816**
3/4" plug cutter.....**CAT. No. 817**
1" plug cutter.....**CAT. No. 819**
Set plug cutters as above....**CAT. No. 822**
1/4" router bit.....**CAT. No. 474**
5/16" router bit.....**CAT. No. 475**
3/8" router bit.....**CAT. No. 476**
7/16" router bit.....**CAT. No. 477**
1/2" router bit.....**CAT. No. 478**
Set router bits as above.....**CAT. No. 480**



Quick set vise.....**CAT. No. 1024**
Quick set vise.....**CAT. No. 1025**
Quick set vise.....**CAT. No. 1026**

BEAVER

18″ MOTORIZED SCROLL SAW



The Beaver 18″ Scroll Saw provides the hobbyist and craftsman with a complete, ready to operate machine with the fine engineering principles, quality workmanship and finish common to all BEAVER woodworking power tools.

Featured as standard equipment are a built-in universal motor, switch, cord, plug, light, air pump and tilt-top table with accurate, legible angle scale.

This Scroll Saw has been approved and tested by the C.S.A. Approvals Laboratory.

SPECIFICATIONS

Overall Length	28½″
Overall Width	12¾″
Overall Height	17½″
Depth of Throat	18″
Size of Table	10 x 12″
Length of Stroke	11/16″
Lamp required	15 or 25 watt
Motor	115V .8 Amp. AC/DC
Strokes per min. no load	1960
Strokes per min. full load	1180
Height of table from bottom of base	9″
Length of table in front of blade	6″
Table tilts 45° both ways	
Table has adjustable hardened blade guide	
Length of Blade	6″
Shipping Weight	50 lbs.

CATALOGUE LISTING

Complete 18″ Scroll Saw with light, motor, switch, cord and plug ..... **Cat. No. JS2100**

Extra upper and lower chucks are available. Upper or lower chuck ..... **Cat. No. 2107**

See page 17 of this catalogue for Scroll Saw Blades available for this machine.

CONSTRUCTION FEATURES

Base and over-arm are semi-steel enclosing the motor, gear-box housing, air pump, and electric wiring. Four holes are provided in the base for bolting to a bench.

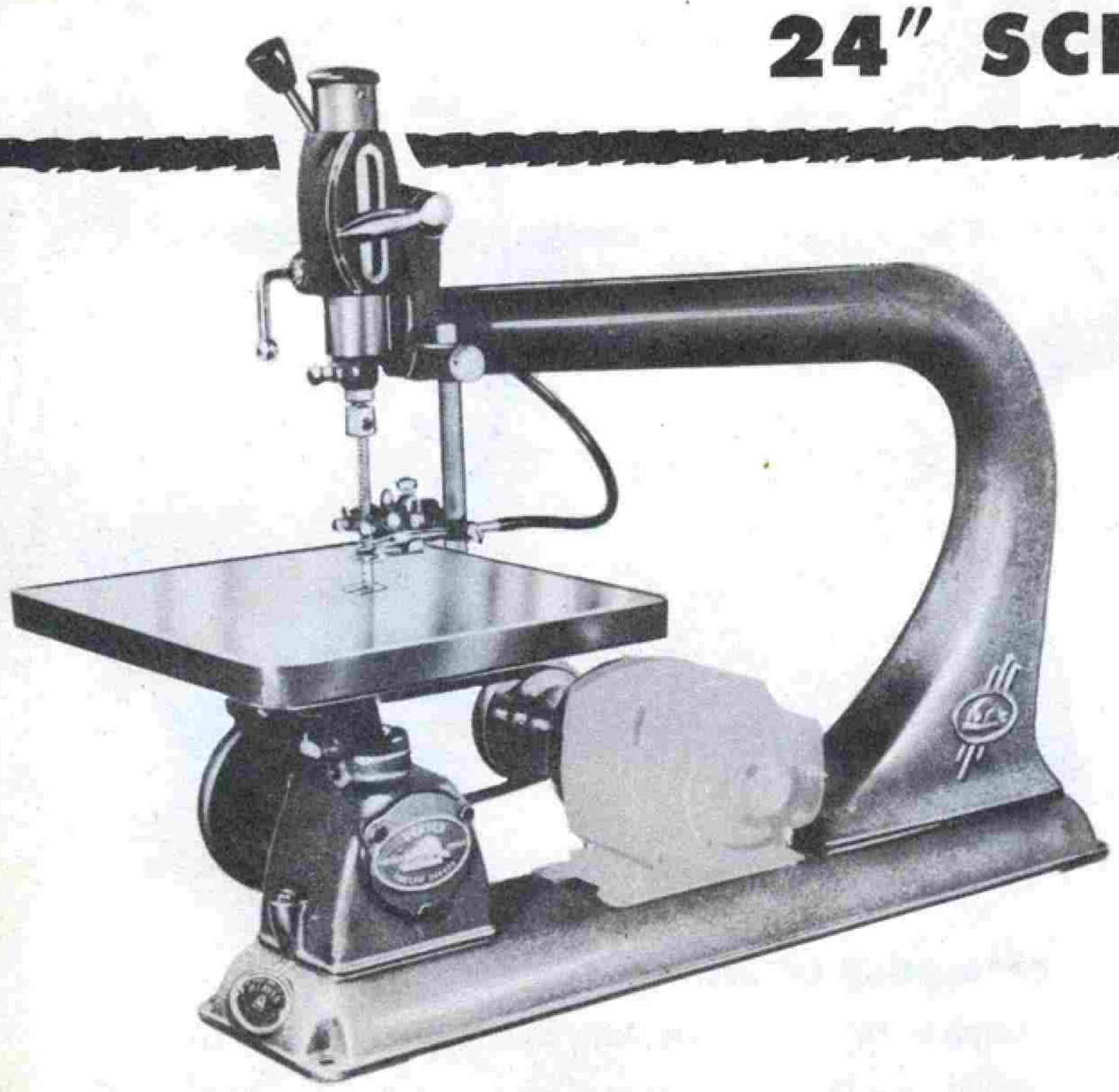
Semi-steel cast table, with a ground surface, is mounted on double trunnions for rigidity and accuracy. It can be tilted 45° either way and embodies an accurate, legible angle scale.

Universal chucks allow use of all 6″ standard blades and saber blades. Long work can be cut by turning the chucks 90°. The upper guide is fully adjustable and is comprised of a blade backing roller and a spring hold down. It can be turned 90° to permit cutting long work.

A blade backing bar, adjustable to blade widths, is mounted on the under side of the table. The drive-box mechanism is sealed in an oil bath and is directly connected to the motor by means of the gear and pinion.

BEAVER

24″ SCROLL SAW



The Beaver 24″ Scroll Saw is of the most modern design, with all features necessary to fill the requirements of the professional craftsman or hobbyist. It is made of semi-steel castings and alloy steels. Good workmanship and construction make this a strong, sturdy machine with a minimum of vibration.

CATALOGUE LISTING

Complete 24″ Scroll Saw with V-belt and machined aluminum 4-step motor pulley. Less Motor..... **Cat. No. JS3100**

SPECIFICATIONS

Length overall	36″
Height	28½″
Width	16″
Throat depth	24¼″
Depth of cut using 7″ blade	1¾″
Size of table	15 x 13″
Size of base	7½ x 33″
Shipping weight	112 lbs.

CONSTRUCTION FEATURES

Semi-steel cast table tilts to a 45° angle. It may also be turned 90° clockwise, allowing longer work to be done. The table rides in fully machined quadrants eliminating uplift and permitting accurate setting. Universal chucks hold all types of blades and files with ¼″ shanks, and may be turned 90° to accommodate long work.

Driving unit is of special design and consists of (a) ball-bearing crankshaft, (b) forced feed lubrication, (c) continuous air stream vane pump, (d) heavy 4-step semi-steel balanced V-pulley. The patented Upper Shaft Housing Assembly is designed for full adjustment and tension of blade. Provision is made for mounting of lamp and the complete housing can be easily removed when filing or using saber blades.

Fully adjustable saw guide assembly accommodates all types of blades. It has hardened steel fully adjustable side guides with hardened steel backing roller. Guide can be removed and placed at right angle position when using the table turned 90° to accommodate long work.

The base is a semi-steel casting with provision for mounting motor and belt guard, and bolting unit to bench.

POWER REQUIREMENTS

A ¼ H.P. split phase motor will provide ample power for most Scroll Saw requirements.

The following speeds are obtainable with the pulleys supplied:

60 cycle motor, 1725 R.P.M., 450, 800, 1270 1965 strokes per minute

25 cycle motor, 1425 R.P.M. 370, 660, 1050, 1620 strokes per minute

ACCESSORIES AVAILABLE FOR BEAVER SCROLL SAWS



¾ x 2" Drum Sander for use with JS3100 Scroll Saw. . . . . **CAT. No. 428**

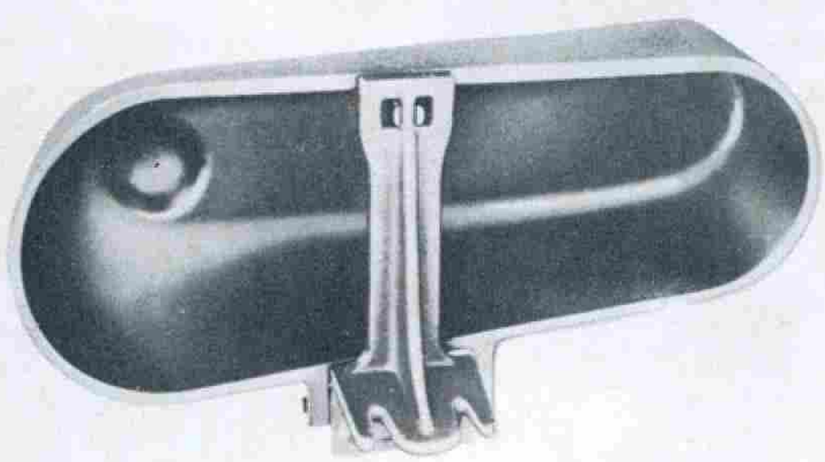
Extra sleeves for above:
Fine 80 grit— **CAT. No. 428A**
Coarse 50 grit—**CAT. No. 428B**

LAMP ATTACHMENT—A handy adjustable, glare-proof, lamp attachment will prove beneficial to accurate work—**CAT. No. 882**



SCROLL SAW BLADES

.028 x .250 x 7T. . . . . **CAT. No. 427**
.028 x .110 x 10T. . . . . **CAT. No. 316**
.020 x .085 x 10T. . . . . **CAT. No. 610**
.020 x .085 x 15T. . . . . **CAT. No. 2M6**
.010 x .035 x 18T. . . . . **CAT. No. 13B6**
.010 x .010 x 14T. . . . . **CAT. No. 11B6**
1 Doz. Assorted Scroll Saw Blades as above. . **CAT. No. 36-001**



BELTGUARD FOR JS3100 SCROLL SAW

The Beaver JS3100 Scroll Saw is drilled and tapped to take this handy hinged belt and pulley safety guard—

CAT. No. 31171

OPERATING YOUR BEAVER SCROLL SAW

When starting a cutting project, select the blade most suitable to the work and after raising the head clear, fasten blade in bottom chuck. Lower head until upper chuck engages blade and tighten blade in plate. In the case of the JS2100 the upper chuck must be lowered down against the spring pressure to engage the top of the blade. In the case of the JS3100 the chuck can be lowered by releasing the quill lock lever. Teeth must point downward toward table. Adjust hold-down springs to suit thickness of work to be done by loosening thumb screws and sliding support rod up or down as required. On the JS3100 set the side guides to proper width and adjust the blade thrust roller frontwards or backwards to suit the blade being used. Adjust backing bar under table to take blade thrust against work feed pressure.

Scroll saw blades basically may be divided into two classes—Jeweler's blades, which are gripped in both the upper and lower chucks—and saber blades which are gripped in lower chuck only. A very wide variety of blades in regards to thickness, width and number of teeth are available. The jeweler's blades are the most useful where intricate curved work is predominant. The saber blades are faster cutting and are used where the curves of the work are not too abrupt.

Cutting on the scroll saw is done in much the same manner as cutting with the band saw, with the right hand being instrumental in feeding the work and the left hand in guiding. Where internal cutting is to be done, holes must be drilled in the work through which the blade is inserted before fastening in upper chuck. If the work is not too intricate, considerable time will be saved by the use of a saber blade as it is only necessary to lift the work over the end of the blade from one starting hole to another. On heavy work, a saber blade should always be used if at all possible to eliminate drift. The tables, chucks, and guides on the Beaver Scroll Saws were designed so that they may be turned to 90° to accommodate long work.

The lower chuck on the JS3100 Beaver Scroll Saw is drilled to take ¼" shank sanders and files. It is necessary to remove the table insert and the spring clip in the chuck before inserting these accessories.

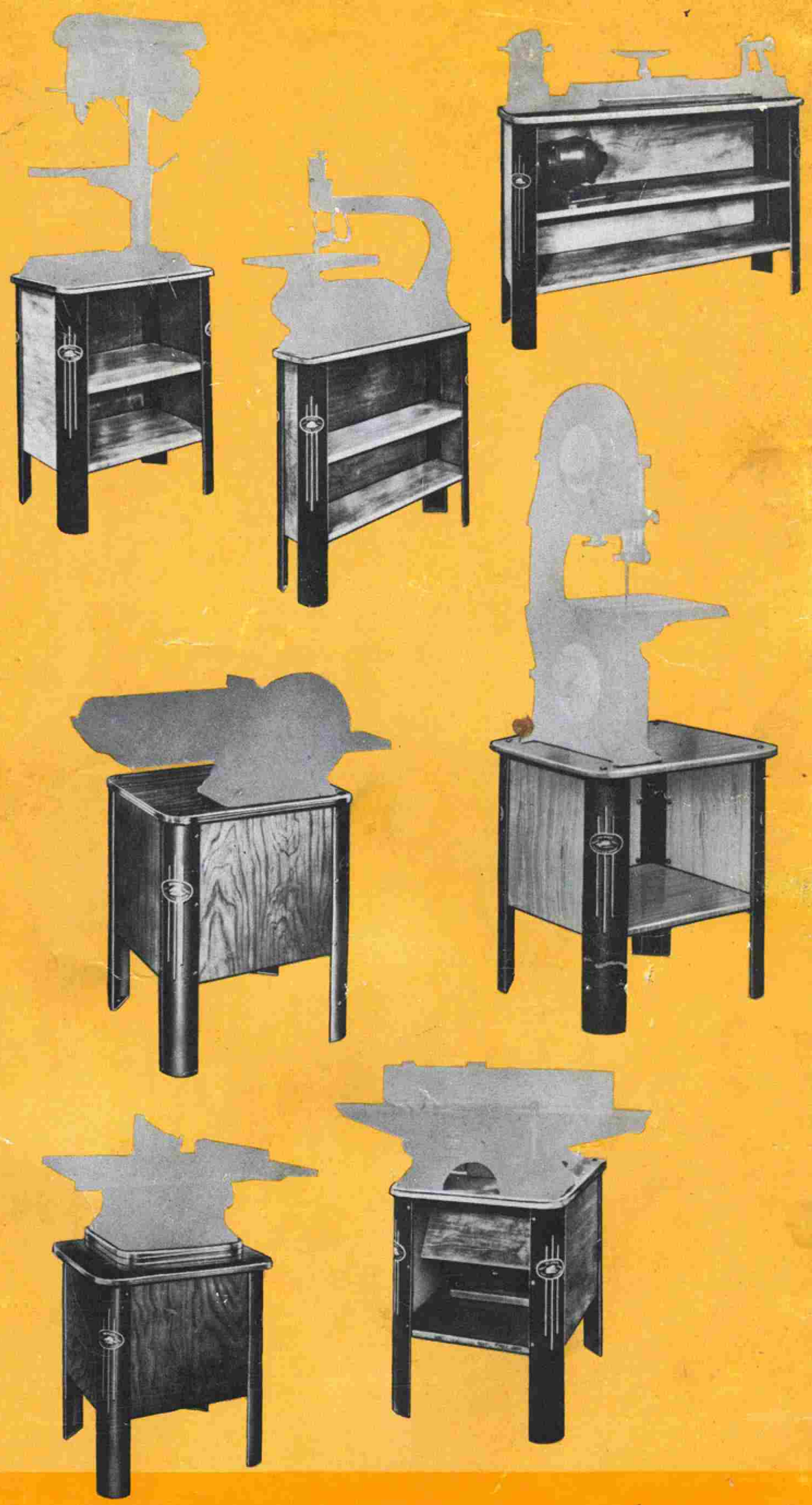
You can construct your own power tool stands using these Beaver semi-steel cast legs. All necessary holes have been cast and drilled in them. All hardware required—nuts, bolts, washers and screw nails—to complete the assembly of any stand is supplied.

Plans are included to enable either skilled craftsman or hobby enthusiast to quickly construct these stands. They show all necessary dimensions and the relationship of all panels in assembly. Although plywood is specified it need not necessarily be used. Masonite or metal may be substituted if desired.

BEAVER LEGS FOR STANDS

These models take 31¼" Legs
Set of Four Legs. . . . CAT. No. 1000S
JS2100—SCROLL SAW
JS3100—SCROLL SAW
WL3400—WOOD LATHE
DP3700B—DRILL PRESS
DP2700—DRILL PRESS

These models take 24⅜" Legs
Set of Four Legs. . . . CAT. No. 1001S
CS2200—CIRCULAR SAW
CS3200—CIRCULAR SAW
PJ3800—JOINTER-PLANER
BDS3900—BELT and DISC SANDER
BS3300—BAND SAW
BS2300—BAND SAW



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Printed in Canada
Form No. BA55-1

ROCKWELL MANUFACTURING CO. OF CANADA, LTD., BEAVER POWER TOOL DIV., GUELPH, ONTARIO

Beaver



SUGGESTED SELLING PRICES

for use with

BEAVER POWER TOOL CATALOGUE

Form BA-55-1 — August 15, 1955

SUPERSEDES ALL PREVIOUSLY DATED PRICE LISTS

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE. Prices shown on this price sheet supersede all prices previously quoted. The right is reserved to make changes in design or equipment without incurring any obligation to install these on machines previously sold, and to discontinue models of machines, motors or accessories at any time without notice. All prices to be determined at time of shipment according to price list then in effect.

Catalogue Number	Suggested Selling Price
PAGE 1	
CS2200	$ 99.50
CS2200A	84.50
PAGE 2	
CS3200	119.50
PAGE 3	
CS4200	369.50
PAGE 4	
*2½	7.25
**4	16.95
36-062	8.10
36-061	5.50
2245A	6.00
3233A	11.50
4249A	7.00
2237A	10.50
32141A	21.25
4234A	2.00
32181	2.00
32186	2.00
32187	4.50
4219	4.50
42145	4.50
42146	7.50
2280A	4.50
32272A	4.95
650	4.95
508	1.00
508A	
PAGE 5	
36-006	3.75
36-004	3.75
36-002	3.75
36-008	7.10
36-010	4.20
36-011	4.20
36-007	8.55
36-005	8.55
36-003	8.55
36-009	13.20

Catalogue Number	Suggested Selling Price
PAGE 5	
36-012	$ 8.55
1 to 40 inc.	per Set 4.20
100 to 104 inc.	per set 4.85
200	6.50
201	4.85
202	6.50
203	4.85
204	6.50
PAGE 6	
PJ3800	129.50
38100	14.95
3838	per set 5.70
PAGE 7	
BDS3900	119.50
36-066	1.40
36-067	1.40
36-068	1.40
36-063	.40
36-064	.40
36-065	.40
PAGE 8	
WL3400	69.50
PAGE 9	
3405	4.50
3406	3.25
3407	2.15
3416	2.25
3410	4.95
3418	2.25
3411	4.95
3404	4.45
3431	2.40
402-2MT	1.80
402-1MT	1.80
397-1MT	1.65
3430	1.75
3432	2.40
3436	2.25
412-1MT	3.65

BEAVER POWER TOOL PRICE LIST

Catalogue Number	Suggested Selling Price
PAGE 9	
3413	$ 2.50
365	2.35
415-1MT	3.35
415-2MT	3.35
420-1MT	3.35
420-2MT	3.35
410-1MT	3.25
425-1MT	6.95
425-2MT	6.95
426-1MT	6.95
426-2MT	6.95
425-1/2SS	6.95
426-1/2SS	6.95
425A	.75
426A	.70
36-059	17.95
36-060	11.95
PAGE 10	
BS2300	109.50
33200	18.00
3364A	9.50
33300	12.50
3233A	6.00
2245A	5.50
PAGE 11	
BS3300	172.50
BS3300-1	154.50
36-040	2.20
36-041	2.30
36-042	2.35
36-033	2.30
36-034	2.45
36-035	2.50
36-022	2.20
36-023	2.30
36-024	2.35
36-019	2.30
36-020	2.45
36-021	2.50
PAGE 12	
DP3700B	144.50
DP3700BMT	144.50
DP3700F	159.50
DP3700FMT	159.50
PAGE 13	
DP2700	99.50
PAGE 14	
2771	14.25
37-200	19.50
50-004	6.35
50-001	6.35
50-005	6.35
50-002	7.00
50-006	7.65
52-004	1.65
52-001	1.65
52-005	1.65
52-002	1.65
52-006	1.65
4005	1.85
3113	3.85
3114	7.10

Catalogue Number	Suggested Selling Price
PAGE 14	
3115	$ 6.10
3101	2.70
3102	2.70
804	2.30
805	2.30
806	2.55
807	2.95
808	3.30
809	3.70
810	4.30
812	4.75
818	26.00
11-821	14.50
814	5.85
815	5.85
816	6.80
817	7.40
819	8.85
822	32.45
474	2.40
475	2.40
476	2.40
477	2.40
478	2.40
480	11.50
1024—1 1/2" Vise	6.70
1025—1 1/2" Angle Vise	9.40
1026—2 1/2" Angle Vise	13.50
3786	1.65
504	4.95
36-088	1.15
36-079	5.95
36-090	1.30
36-092	1.35
36-094	1.45
36-096	1.60
36-098	1.75
PAGE 15	
JS2100	64.50
PAGE 16	
JS3100	99.50
PAGE 17	
428	2.25
428A	.20
428B	.20
882	5.75
427 per doz.	1.10
316 per doz.	.80
610 per doz.	.70
2M6 per doz.	.65
13B6 per doz.	.55
11B6 per doz.	.55
36-001 per doz.	.75
31171	6.50
REAR COVER	
1000S	11.95
1001S	11.95
*Cat. #2 1/2 Specify 1/2", 5/8", 3/4", Bore when Ordering	7.25
**Cat. #4A Moulding Head Standard Steel	7.50
Cat. #4B Moulding Head Recessed Steel	8.00
Cat. #4C Moulding Head Standard Dural	6.00
Cat. #4D Moulding Head Recessed Dural	6.25

BEAVER POWER TOOLS are Designed and Manufactured in Canada by:

BEAVER POWER TOOL DIVISION

Rockwell Manufacturing Company of Canada, Ltd.

GUELPH, ONTARIO, CANADA

Form BA-55-2R

Printed in Canada