

WALKER-TURNER

B-1

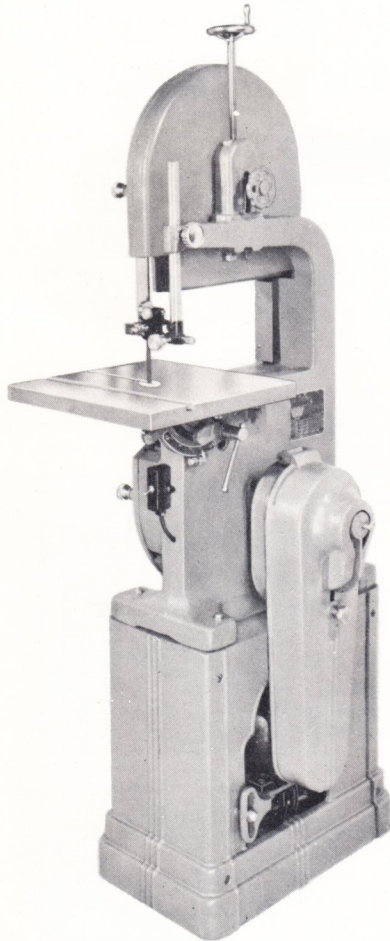
DIVISION
KEARNEY & TRECKER CORP.

The Walker-Turner 14" Band Saws can be used for any material from carbon steel to plastics, compositions and wood. Wide speed range makes it an ideal machine for the die shop, general machine shop, foundry and pattern shop.

All wheels and shafts are mounted on precision, lubricated and sealed ball bearings. The use of these bearings insures trouble free service for the life of the machine.

The gear unit is designed and built for long-run production work on a trouble and service free basis. Back gearing and the four step pulley provide eight speeds suitable for practically all materials from tool steel to wood.

Wheels are cast iron, carefully balanced and true running. Both wheels are completely covered, complying with all safety requirements.



12" - 14" - 16" BAND SAW

WOOD AND METAL WORKING

SPECIFICATIONS—14" BAND SAWS

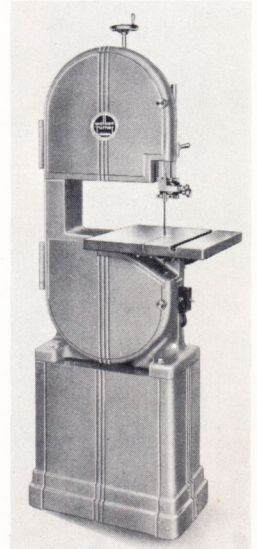
BLADE, to frame 14".
MAXIMUM HEIGHT, under top guide 7".
SAW BLADE SPEED, with standard pulley:
With 1740 rpm. motor—180, 275, 370, 465, 1900, 2780, 3670, 4550 fpm.
With 716 rpm. motor—61, 93, 132, 182, 653, 1103, 1413, 1950 fpm.
BLADE SPEED: (Wood working) 2535 surface feet per minute (680 rpm.) with standard 1740 rpm. motor.
GUIDES: Ball bearing rear thrust rollers, with sintered iron composition. Guide blocks set at 45° on upper and lower guides.
FRAME: One piece cast iron.
BEARINGS: Six—two on upper shaft, two on lower shaft and two on thrust rollers.
TABLE SIZE, overall 16" x 16".
TABLE HEIGHT, from floor 40".
TABLE TILT, to right 45°, to left 5°.
DISTANCE, front of table to saw 7½".
MITRE GAUGE GROOVE, in table ¾" x ⅜".
WHEEL DIAMETERS (rubber faced), 14¼".
MAXIMUM WIDTH OF BLADE, ⅞".
BLADE LENGTH: Standard 96⅝"; Maximum 97"; Minimum 94½".
OVERALL HEIGHT, 69½".
OVERALL WIDTH, 28½".
OVERALL DEPTH, 23¾".
SHIPPING WT., 350 lbs., Stand 130 lbs.

MODEL LISTING (METAL)

3220 14" Metal Cutting Band Saw (at left) including belt, motor pulley and guard, less base and motor.
32C22 Cast Iron Base.
32A23 Motor Bracket for rear mounting (not to be used with 32C22).
9122 ½ hp., 110/220 volt, 60 cycle, 1740 rpm. single phase capacitor start motor.
395A21 On-off Toggle Switch for single phase only.
396A40 Cord and plug for single phase.
9322 ½ hp., 220 volt, 60 cycle, 1740 three phase motor.
395A22 On-off Toggle Switch for three phase or single phase motor.

METAL CUTTING BLADES

424-22 ½" wide 10 teeth per inch.
424-23 ½" wide 14 teeth per inch.
424-24 ½" wide 18 teeth per inch.

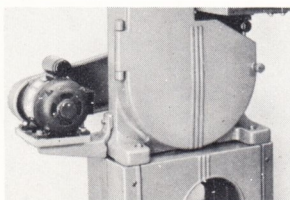


MODEL LISTING (WOOD)

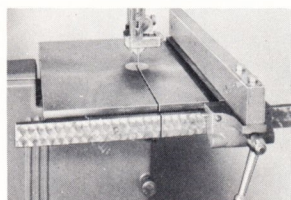
3210 14" Wood Working Band Saw, as shown above including Belt and Motor Pulley, less Belt Guard, Motor Switch, Base and Motor.
32C22 Base.
32A23 Motor Bracket, for rear mounting. (Not required with 32C22).
32A24 Belt Guard.
32A40 Rip Fence.
391A90 Miter Gauge.
32A26 Carriage Bar, Spacers and Screws.
9122 ½ hp., 1740 rpm., 115/230 volt, 60 cycle, single phase motor.
396A40 Cord and Plug for single phase.
395A21 On-off Toggle Switch and cord, single phase.
9322 ½ hp., 1740 rpm., 220/440 volt, 60 cycle, three phase motor.
395A22 On-off Toggle Switch, 3 phase.

WOOD CUTTING BLADES

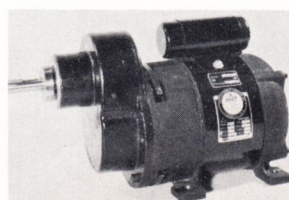
421-21 5 teeth per in., ¼" wide x 96⅝".
423-21 5 teeth per in., ⅜" wide x 96⅝".
424-21 5 teeth per in., ½" wide x 96⅝".
425-21 5 teeth per in., ¾" wide x 96⅝".



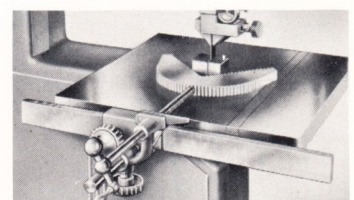
32A23 Motor Bracket for use on both models



Rip Guide and Carriage Bar can be used on all models

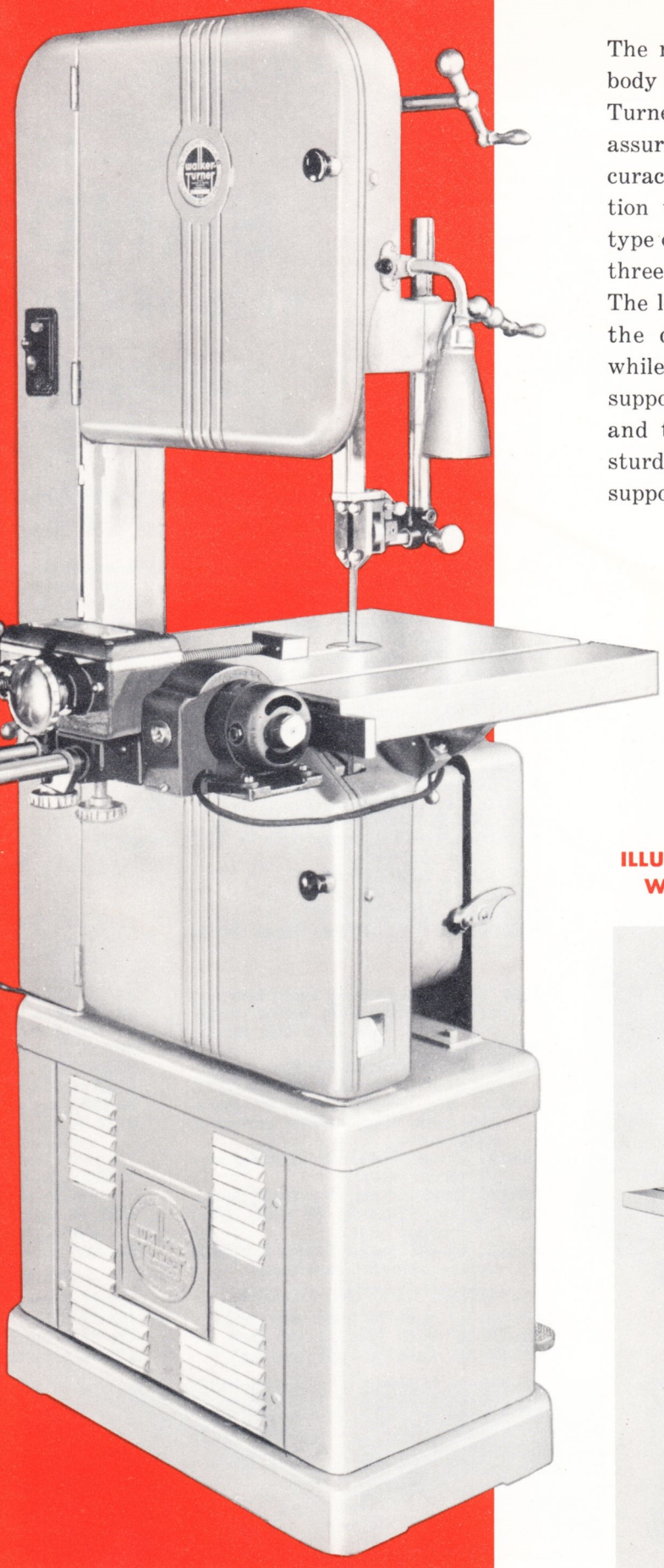
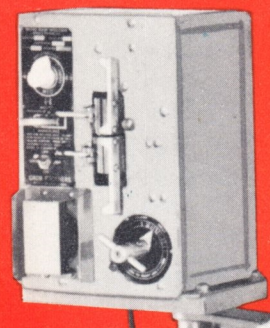


9227—½ hp., 716 rpm. Motor
9437—¾ hp., 716 rpm. Motor



32A91 Screw Feed Attachment
32A26 Support Bars, Spacers, Screws

*Discontinued
See Variable
Speed manual
in white
book*



The new three piece frame and body design of this New Walker-Turner Metal Cutting Band Saw assures a degree of stability, accuracy and vibration free operation unattainable by any other type of construction. Each of the three main units are functional. The lower wheel housing carries the drive shaft and bearing, while the upper housing provides support for the upper wheel unit and tensioning mechanism. A sturdy column or "back-bone" supports both wheel housings.

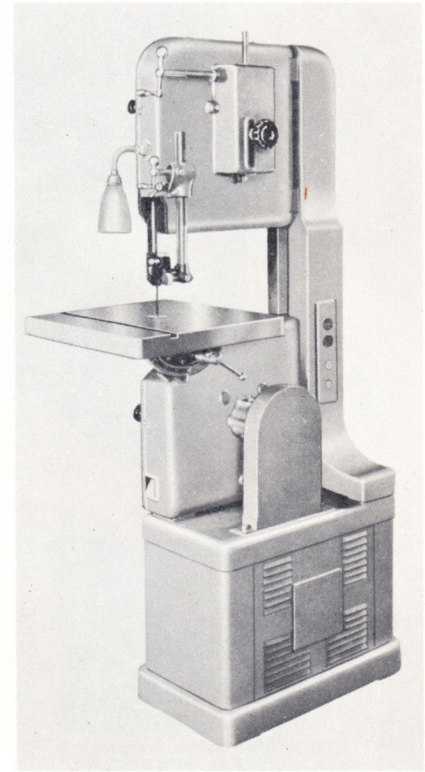
The Automatic Power Feed and Welding Unit shown above are not included with the machine

Walker-Turner patented Feeding Mechanism for straight or irregular cutting. Powered by a 115 Volt Universal Motor. Unique clutch mechanism positively prevents overloading blade, greatly prolongs blade life.

U.S. Patent 2384732
Canada 436279
Great Britain 598253

Welding Unit for blades up to 1/2" wide. Available for operation on 110 or 220 Volt AC. Self-contained grinder for removing flash.

ILLUSTRATION BELOW SHOWS WOOD WORKING MODEL



16" BAND SAW

METAL CUTTING AND WOOD WORKING

SPECIFICATIONS

SPEEDS: 8 blade speeds: 193, 291, 389, 581, 1897, 2850, 4158, 5692 sfm, with 1740 rpm. motor.
126, 188, 277, 370, 1241, 1865, 2723 and 3700 sfm. with 1140 rpm. motor.
(For Wood Working Model): 3515 surface feet per minute (825 rpm.) with standard 1740 rpm. motor.

CAPACITY: Blade to frame 16". Upper guide to table, max. 8".

TABLE: Gray iron, 18 x 19 inches, 1 miter gauge slot $\frac{3}{4}$ " x $\frac{3}{8}$ ". Tilts 45° to right and 5° to left.

GUIDES: Upper and lower guides have ball bearing thrust rollers, with multiple leaf double contact guides.

BLADE ADJUSTMENT: Tensioning and tracking mechanism incorporated in an upper wheel unit, assembly guided on two ground steel rods with spring cushion to absorb shock. Tension control located on right hand side of machine within easy reach.

GUARDS: Hinged cast aluminum guards cover both wheels. Telescoping guard covers blade between upper guard and guide.

WHEELS: Dynamically balanced cast iron 16" in diameter. Rubber face ground concentric and crowned. (Carter quick change tires available at extra cost.)

FRAME: Three unit construction. Through functional design wheel housings become part of frame; their box type construction gives a rigidity impossible to obtain with conventional frames.

BEARINGS: Upper and lower wheel mounted on two precision sealed ball bearings.

DRIVE: Single 'B' Section 'V' belt $\frac{5}{8}$ " wide.

DIMENSIONS: Overall Height on base 68 $\frac{3}{4}$ ". Width 33 $\frac{3}{4}$ ". Depth 28".

SHIPPING WEIGHT: 700 lbs., motor 75 lbs.

MODEL LISTING (METAL WORKING)

3321 16" Metal-cutting Band Saw, as shown including $\frac{1}{2}$ "-18 tooth metal-cutting blade, Belt, Motor Pulley, Light, Carriage Bar, Motor Switch, Belt Guard and Base, less motor.

33A60 Automatic Power Feed, complete, 110 volt only.

33A45 Welding Unit, less bracket. 110 volt or 220 volt, 25, 50, 60 cycle (specify voltage).

33A79 Welding Unit Bracket, only.

33A91 Hand Feed Attachment.

424-32 10 tooth, $\frac{1}{2}$ " metal-cutting blade 111 $\frac{1}{2}$ " long.

424-33 14 tooth, $\frac{1}{2}$ " metal-cutting blade 111 $\frac{1}{2}$ " long.

424-34 18 tooth, $\frac{1}{2}$ " metal-cutting blade 111 $\frac{1}{2}$ " long.

391A90 Miter Gauge.

9142 1 hp., 1740 rpm., 115/230 volt, 60 cycle, single phase motor.

9131 $\frac{3}{4}$ hp., 1140 rpm., 115/230 volt, 60 cycle, single phase motor.

9342 1 hp., 1740 rpm., 220/440 volt, 60 cycle, three phase motor.

9341 1 hp., 1140 rpm., 220/440 volt, 60 cycle, three phase motor.

MODEL LISTING (WOOD WORKING)

3311 16" Band Saw as shown including $\frac{3}{8}$ " blade, light, carriage bar, motor switch, base, belt and motor pulley, less motor.

3310 16" Band Saw as above but less base and motor.

(Note: Provision for belt guard and motor mounting are incorporated only in 3311 Band Saw and 33C22 Base.)

33C22 Base, includes belt guard and motor plate.

33A45 Welding Unit less bracket. 110 volt or 220 volt, 25, 50 or 60 cycle (specify voltage).

33A79 Welding Unit Bracket, only.

20A40 Rip Fence.

391A90 Miter Gauge.

421-31 $\frac{1}{4}$ " Blade, 5 teeth, 111 $\frac{1}{4}$ " long.

423-31 $\frac{3}{8}$ " Blade, 5 teeth, 111 $\frac{1}{4}$ " long.

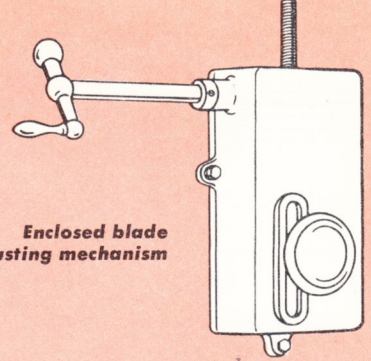
424-31 $\frac{1}{2}$ " Blade, 5 teeth, 111 $\frac{1}{4}$ " long.

425-31 $\frac{3}{4}$ " Blade, 5 teeth, 111 $\frac{1}{4}$ " long.

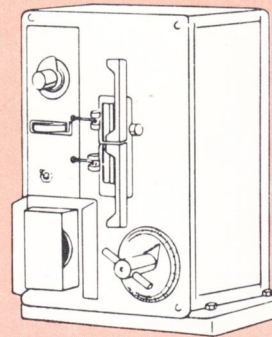
9132 $\frac{3}{4}$ hp., 1740 rpm., 115/230 volt, 60 cycle, single phase motor.

9332 $\frac{3}{4}$ hp., 1740 rpm., 220/440 volt, 60 cycle, three phase motor.

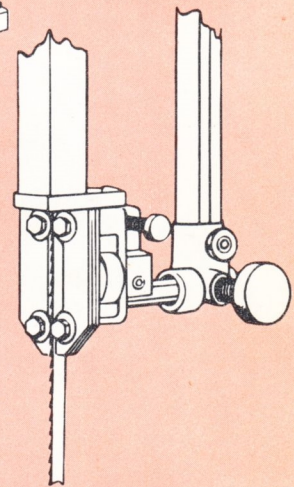
Enclosed blade
adjusting mechanism



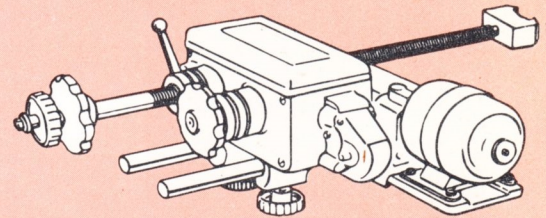
Blade Welding Unit
for blades up to
 $\frac{1}{2}$ " wide



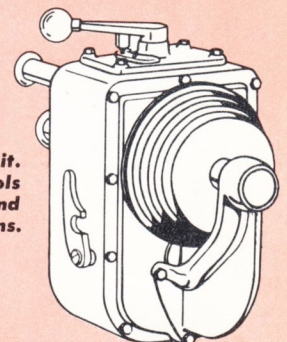
Upper and lower
ball bearing,
leaf type guides



Independent motor driven power feed



Reduction gear unit.
One hand lever controls
high, low and
neutral positions.



12" BAND SAW

The Walker-Turner 12" Band Saw is a completely new machine, revolutionary in design and construction. Now, for the first time in band saw manufacturing, all the basic parts of the machine are functional. The unit construction used in the building of the Walker-Turner 12" Band Saw provides a machine that is by far stiffer and more solid than that found in any machine using the customary one piece frame. In the Walker-Turner Unit Design, the main column or back-bone of the machine supports the two cast iron wheel housings that in turn carry the wheel bearings and the other elements of the saw such as the blade guides, table brackets and so forth. The wheel housings are fitted with strong, light weight covers that completely cover the saw blade and wheels.

The upper wheel is aligned by means of a simple but positive screw device that requires little or no attention once it is aligned.

Improved blade guides give maximum support to both wide and narrow saw blades. An easily adjusted roller provides back support on the upper guide.

SPECIFICATIONS

CAPACITY: Blade to frame 12", upper guide to table 7", Blade width $\frac{1}{8}$ " to $\frac{3}{4}$ ".

BLADE SPEED: 1500 feet per minute, using a 1740 rpm. motor.

GUIDES: Split leaf type for side thrust, with hardened steel roller in upper guide.

FRAME: Cast iron unit type construction. Simplified three unit design to provide maximum stiffness. Patent applied for.

BEARINGS: Saw wheels run on four ball bearings, two on each wheel.

WHEELS: Cast aluminum alloy, dynamically balanced and rubber tired.

TABLE: Cast iron milled working area with a $\frac{3}{16}$ " x $\frac{5}{8}$ " mitre gauge slot, table tilts to 45° on rigid trunion, positive stops at 45 and 90°.

GUARDS: Upper and lower wheel guards cast iron, fully covered by sheet steel doors hinged for easy access. Entire blade guarded except working area.

RECOMMENDED MOTORS: $\frac{1}{2}$ hp., 1740 rpm., W-T Capacitor type or 3-phase.

DIMENSIONS: Height, machine only 42", machine on stand 67". Width 17", Length 34 $\frac{1}{2}$ ", including rear mounted motor. Table to floor, on stand, 40". Table to stand, 15".

WEIGHT: 120 lbs. Shipping weight, 150 lbs.

MODEL LISTING

3110 12" Band Saw with one $\frac{1}{4}$ " saw blade, less motor, motor pulley, and belt.

31A22 Motor Bracket. For mounting motor at rear of machine as shown in photo at left.

VB44 44" V Belt.

31A24 Belt Guard.

9112 $\frac{1}{2}$ hp., single phase, 115/230 volt, 60 cycle motor.

395A20 On and off switch for single phase only.

396A40 10 ft. cord and plug for single phase motors.

9312 $\frac{1}{2}$ hp., three phase, 220/440 volt, 60 cycle motor.

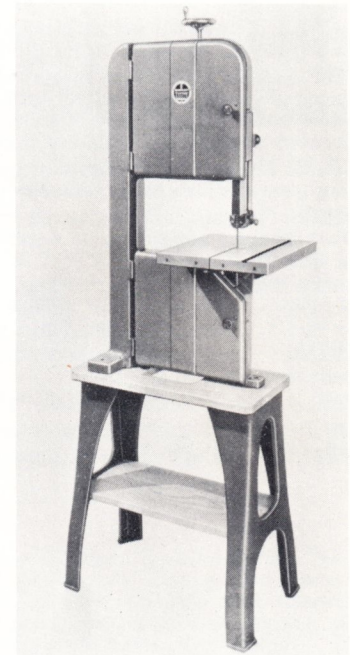
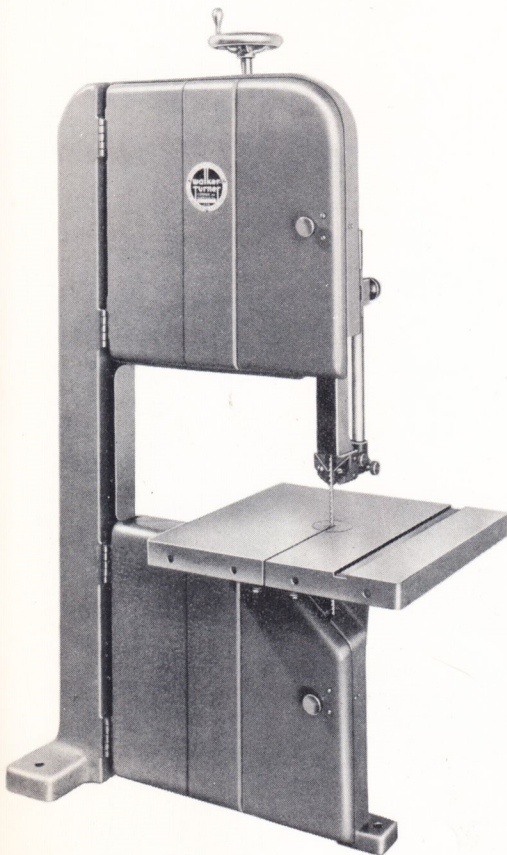
390A20 Stand, cast iron legs, wood shelf and top as shown at right.

399A23 Motor Rails.

VB46 V Belt.

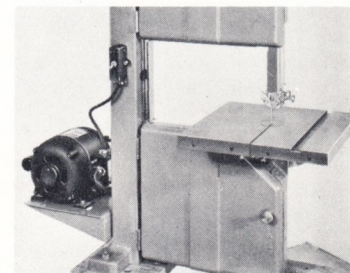
341-72 Motor Pulley $\frac{5}{8}$ " bore.

BELOW: Improved saw guide with guide blocks adjustable for various blade widths. Angled guide blocks permit getting the point of support close to the work. Blade tensioning and aligning mechanism is completely enclosed in a heavy cast iron housing. All control handles are conveniently located.

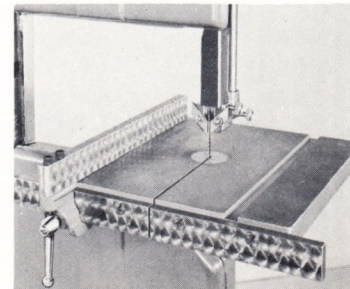


3110 Band Saw mtd. on 390A20 Stand

31A22 Motor Bracket attached



31A40 Rip Fence and Carriage Bar
391A30 Miter Gauge



BLADES

Three standard width blades are available for the 12" Band Saw. A $\frac{1}{4}$ " wide blade is supplied with the saw as standard equipment.

421-11 $\frac{1}{4}$ " wide blade, 85" long.

423-11 $\frac{3}{8}$ " wide blade, 85" long.

424-11 $\frac{1}{2}$ " wide blade, 85" long.

