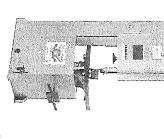
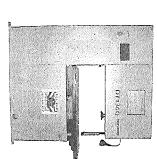
ADDITONAL Model B17340 Ball MA 1220 Journeyman Model B17340 Ball Market B17340 Ball Marke

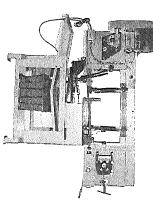
Model JM1220 Journeyman 20" Vertical Tool & Die Bandsaw

Model DT1340 Deep Throat Vertical Journeyman Bandsaw



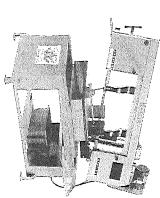


Model HW1212 Horizontal / Wet Mitre Bandsaw



Model TF 1420 Vertical Tik-Frame Bandsaw

Model HS 1418
Horizontal Swivel Bandsaw





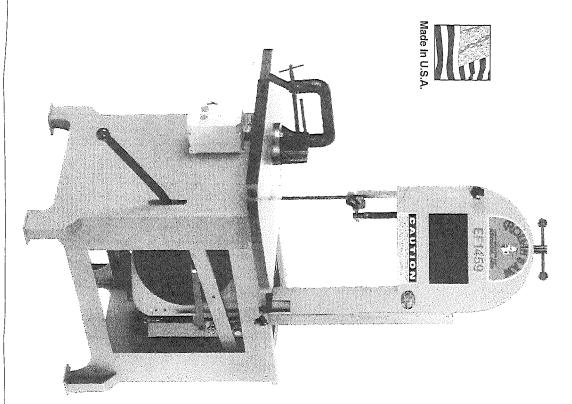
ROLLIN SAW

15851 Commerce Park Drive • Brook Park, Ohio 44142 800-966-1925 • 216-459-9001 • Fax 216-459-9220 www.rollinsaw.com



ROLLIN SAW

OPERATORS WANUA



COLINSAW

Vertical All-Purpose Bandsaw Model F14,59

CAPACITY UNDER GUIDES 14-1/2"

THROAT 8-3/4"

WHEELS

Cast iron, 14" x 1-1/8"

WHEE TRES

Replaceable rubber

BLADE TRAVEL

9" blade travel into work

TABLE

Precision ground, cast iron table, 18-1/2" x 30"

HENCH ENGIN

GUIDE ROLLERS FOR SHIGH SOAS

1/4", 3/8", 1/2" and 3/4"

1 HP, 110/220V, 60 cycle single phase 1HP 220/440V, 60 cycle three phase

MAGNETIC STARTER

BLADE SPEEDS

70, 140, 270 and 525 fpm

DIMENSIONS

66" H x 30" W x 40" D

SHIPPING WEIGHT

650 lbs

OPTIONAL EQUIPMENT

"1" guide rollers, casters, 4 per set, chip dust blower, contour guide assembly, Saw Master 1" welder, grinder and shear, accessory pkg., work light, bench model

MODEL EF1459 ROLL-IN SAW

about quality since 1940. America in Brook Park, Ohio by people that have cared Congratulations on your purchase of a new Roll-In Saw. This machine was built with pride in the United States of

this machine we would like you to follow these easy steps will give you years of service. To get you started using Your Roll-In Saw is a simple but robust band saw that

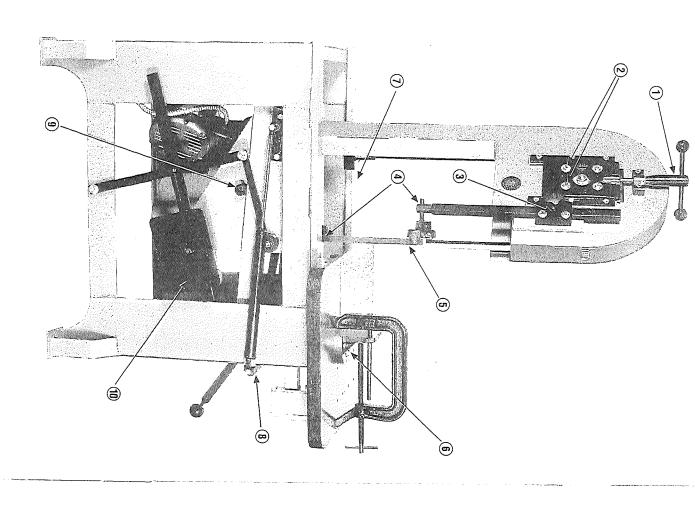
so this situation can be remedied immediately. with appearance or function should be noted right away before you accept delivery of the machine. Any problems can be damaged in shipment. It is best to do this inspection First, give your saw a thorough first inspection as they

on the tracks of some models and metal banding on others. These can be removed. Secure the saw to its working area the wooden skid. There are certain marked shipping bolts plastic from the machine. Then remove the lag bolts from Once satisfied with your delivery, you can un wrap the

appropriate outlets. 440 volt will need a qualified electrician to wire them into in to any approved electrical outlet. Models with 220 or Roll-In Saw models with 110 volt motors can be plugged

Follow the basic instructions appropriate for the model Once this is done, you are ready to begin cutting material Check for any other condition that may cause concern. Install the band saw blade if not installed by the factory.

800-966-1925 Department for support not covered in this manual at maintenance of this machine, call our Technical Assistance If there are any questions regarding the operation or



AVOID OPERATIONAL TROUBLES

Check All Adjustments Before Using The First Time!

- 1. Make sure Tension Handle (Fig. 1) is tight.
- 2. Study instructions carefully and the suggestions on this page before using.
- 3. Use correct speed. If in doubt, select slower speed Too high speed tends to take the temper out of the blade and ruin's cut.
- 4. Figures below refer to Picture Chart inside front cover

Adjustments for Roll-In All Purpose Metal Cutting Bandsaw

CAUTION: Before adjusting your saw disconnect from, or lockout, the power source.

Blade Tension Adjustment (Fig. 1). Handle at top is to control tension of your saw blade. Tighen firmly before using, or you cannot get straight cuts. Hand tighten with one hand, then one full turn with both hands. Leave slack in saw blade when not in use for extended periods of time.

Cant, or Tilt, of Blade Wheels (Fig.2). Wheels are at proper tilt when machine leaves factory. If blade rides flange of upper wheel, or runs off wheel, adjust it by first loosening lower two of four Hex screws on back plate (Fig.2) which permits setting it properly with the one set-screw between them. Then lock in place by retightening the two Hex screws. When perfectly adjusted, back of blade will clear flange by about 1/32-inch. Though seldom needed there is an adjustment for the lower wheel - a single screw to the right of the gearbox.

Adjusting Top Saw Guide (Fig.3). Top guide should be lowered to lowest point that still leaves clearance for the saw blade to clear the work. Lower guide is stationary.

For True, Straight Cut (Fig. 4,5). If cut gets out of alignment, check first to be sure set of teeth on one side or the other have not been damaged. If blade is OK but cuts crooked, check set screws of the

guides. Both rollers above and those below point of cut should be so angled that at all times the blade turns all four rollers and touches them both back and front.

Table Angle Plate (Fig.6). Graduated for either straight or angle cuts. The 1/2-inch pin, on bottom of angle plate, fits into forward hole in the table at end of saw slot. Screw fitting into back hole of table and through slot in angle plate holds block firmly when clamped. Set at 0 degrees for straight cut-off work. No clamp needed when cutting flat stock, as pressure of incoming blade holds it in place against the table and angle plate. For angle cuts, set work block by arrow and graduations. Use large C-Clamp to hold stock; introduce blade slowly to avoid having it walk away from the cut! For contour or rip work, remove the block, leaving table clear, and lock blade frame in forward position with small stop clamp (Fig.7). (Graduations are for reference only.)

To Cut Into, but Not Through Stock (Fig.7). Lock small clamp to base rail at the distance you want left uncut. When locked BEHIND the column it will hold the frame firmly in place for contour and rip cutting

V-Belt and Pulley Tension on belt from gear box to motor is maintained by weight of motor.

Speed Adjustment is through Cone pulleys and V-belt. Remember, in gravity-feed cut-off work, speed is controlled more by pressure of the feed than by the speed of the blade.

Note: Gear box and all parts of the drive are designed for use with 4-step (2,3,4,5-inch) pulleys. If higher speed is desired move belt to proper sheave of pulley for speed change of 70-140-270 and 525 FPM. These speeds are calculated from the outer sheave of gear box pulley.

Hydraulic Feed Regulator (Fig.8). Controls acceleration of blade into work when cutting tubing and pipe.

Keep Eccentric Wheel (Under Left Track) Snugly Locked (Fig.9). This should be loose enough to permit free movement on track, but tight enough to hold upper roller bearing on track.

Counterweight Pressure Control (Fig. 10). See detailed chart.

Will take 3/4, 5/8, 1/2, 3/8, or 1/4-inch blades, and guide rolls are grooved for all these widths. The blade length below is recommended, leaving extra length for rewelding. Tension control handle (Fig. 1) permits the 5-inch adjustment. For cut-off work, the 3/4-inch blade will usually be used. Use narrower blade for contour work. Normally we recommend using a blade for hard metal with fine enough teeth to keep at least three teeth or more within the thickness of the metal being cut.

Cut Vertical and Down. When installing blades over carrying wheels, be sure the teeth point down.

Use 10' blade with EF Model Use 9' blade with SF Model

Place Saw on Level Floor. The "Roll-In" needs no special base when being set up, but to insure accuracy of cuts it should stand on a level floor.

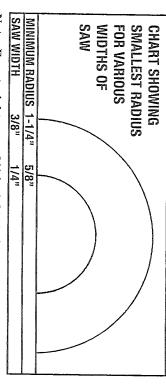
Before using saw, tighten blade with tension handle with one hand, then a full turn with both hands. Most cutting problems result from loose blade. When saw is not being used, however, it is well to release this tension to preserve blade.

When bringing carriage down track for cut DO NOTLET GO OF HANDLE until cut is begun. Jamming blade into work may damage it. Be sure that there is nothing between saw blade and work piece.

BLADES WILL WEAR LONGER, and cut better if you use blade of fine enough teeth so at least three are always inside thickness of material being cut. Adjust counter weight to reduce blade pressure when cutting extremely thin stock.

Cautions in Using Narrow Metal Band Saw Blades

- 1. Use proper teeth; fine teeth for thin material, coarse teeth for large or soft stock.
- 2. Use the maximum width blade possible, that will go around curves, yet still enable you to attain the minimum radius.
- 3. Keep upper guide as close to work as possible, and for close contour work we recommend the slotted contour guide attachments.
- 4. Do not force on curves.



Note: For straight cuts, 3/4-inch blade is best.

Recommended Speeds

Please refer to the speed chart on the front of the machine.

Roll-In Standard Equipment

As it reaches you, your Roll-In should include as standard equipment, either as integral parts of the machine or as working fixtures, all of the following:

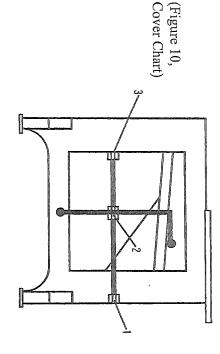
Blade Guard Stop Clamp Replaceable Rubber Tires Pulley Guard

One blade

Graduated swivel Angle Plate
C-clamp for round stock
Counterweight pressure control
Blade-and-Speed-Selector plate
Hydraulic feed regulator

Note: for a list of special purpose "Extras" see the back cover.

Counterweight Pressure Control



To reduce cutting time, slide weight forward front of machine (Position 1). At extreme end, this increases blade pressure sufficiently to slightly more than doubling cutting speed.

For normal cutting pressure, fasten weight at meeting point of cross bars (Position 2). Here, the weight neither increases nor decreases the pressure.

For cutting thin or soft stock move the weight toward the back of the machine (Position 3).

Tests have indicated that on the Roll-In, extra pressure may be applied and the increased cutting speed obtained without shortening the blade life, i.e., without reducing the cutting life of the blade.

Your own tests will best determine how much the pressure should be increased, or decreased, on the material for which you are using your Roll-In.

Replacement Parts

Replacement parts for your Roll-In are available though your dealer, or from the factory (216-459-9001 or 800-966-1925).

Identification or prices of these parts, or both, will be furnished upon request. Please furnish your dealer, or us, with the serial number of your machine, located on back of top rails of base frame, with your inquiry.

TROUBLESHOOTING

select finer pitch adjust clamp firm	3. Pitch too coarse4. Incorrect feed pressure5. Workpiece not held secure	
see section on recommended speed and feed increase tension	 Wrong speed for material and thickness Insufficient blade tension 	Saw vibrates in cut
try to introduce it	4. Not using coolant	
check travel	 Saw rubbing against vise or running deep in guides 	***************************************
decrease speed	2. Saw speed too fast	promatarely
replace with smaller blade	1. Saw is too wide for radius being cut	Saw loses set
replace with correct ones	7. Improper saw guides for band width	
reduce feed rate by half on first few cuts	6. Improper break-in on new blade	
apply at point of cut	5. Coolant improperly directed	
keep teeth engaged use positive feed pressure	4. Saw idling through cut	
use finer pitch	3. Too coarse pitch	
increase	2. Feed rate too light	maturely
reduce	1. Band velocity too high	Saw dulls pre-
reduce	4. Too much blade tension	
use narrower band- saw blade	3. Wrong width of blade for radius being cut	
readjust	saw guide fisers of follers too close to	
reduce feed rate		Blade develops
use a coarser pitch	5. Saw band pitch too fine	
readjust	4. Roller guides not properly adjusted	
tilt wheel for proper tracking	3. Blade riding against flange on wheel	
readjust adjust closer to the work	Feed pressure too heavy Saw guides too far apart	Blade develops camber
SOLUTION	CAUSE	PHOBLEM

TROUBLESHOOTING (Cont'd)

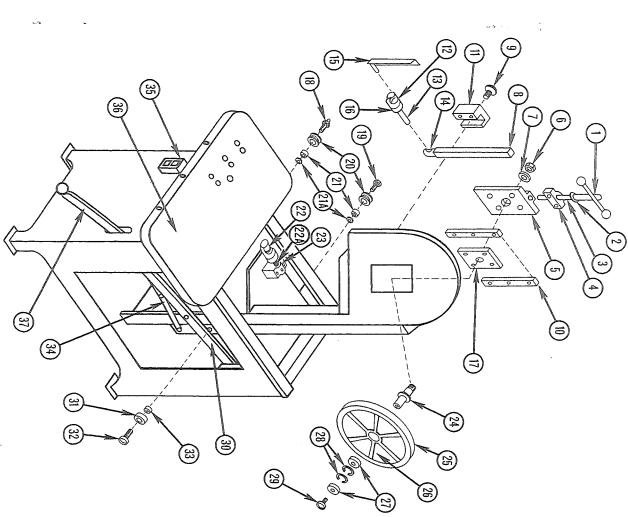
 	2					·		
 Chips welding to bandsaw blade teeth	Bandsaw blade gullets loading up	Cutting rate too slow	Bandsaw blade squeals while sawing	Blade stalls in work-piece	Saw blade breaks pre- maturely		Saw teeth rip out	PROBLEM
 Feed force too heavy Chip brush out of alignment 	Too fine pitch Band speed too great Cutling dry		1. Too low feed	1. Feed pressure too great	1. Speed to low 2. Too much feed 3. Blade too thick for diameter of wheels 4. Cracking at weld weld improperly made 5. Pitch too coarse 6. Excessive blade tension 7. Guides to tight or out of adjustment	Sawing dry Gullets loading Excessive feed pressure Too slow speed	Pitch too coarse Work not tightly clamped	CAUSE
reduce adjust	use coarser pitch reduce use coolant	increase speed increase feed use a coarser pitch blade use coolant	increase pressure	decrease	increase decrease use lighter gage try longer anneal use finer pitch reduce tension readjust	use coolant where possible use coarser pitch or higher viscosity lubricant or attach brush to remove chip reduce increase	use finer pitch on thin sections tighten work-piece to prevent vibration	SOLUTION

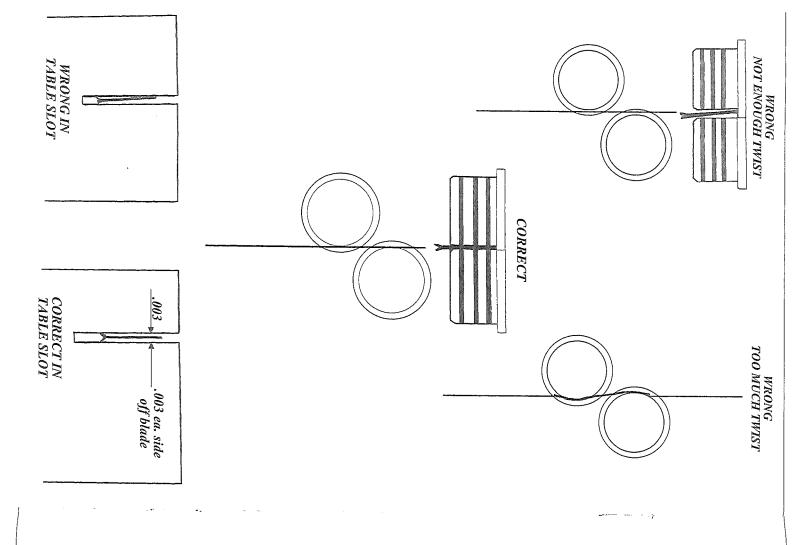
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adjust	s. Guide amils too iar apart irom workpiece	
	4. Blade badly worn	
reduce	3. Too heavy feed	
repair or replace	2. Guides worn	
readjust	1. Guides out of adjustment	Crooked cutting
adjust	3. Guides too tight	SCOLED
adjust	2. Guides out of allignment	becomes
replace	1. Saw guides worn	Bandsaw
		cont'd)
change coolant	 Coolant wrong type, improperly mixed, or improperly applied 	to bandsaw
SOLUTION	CAUSE	PROBLEM

PARTS LIST FOR ASSEMBLY DRAWING

(Counterweight) 19. Grooved Roller Stud (Hex Head)	16. Guide Housing-upper17. Wheel Slide Rocker18. Grooved Roller Stud	 Upper Guide Stem Guide Bar Swivel Blade Guard 	 Guide Bar Block Guide Roller 	 Guide Bar Adjustment Knob Wheel Slide Runner 	7. Wheel Washer8. Guide Bar	Wheel SlideAxle Nut	 Tension Screw Tension Handle Block 	 Tension Handle Tension Handle Spacer
P/N	P/N	PPP ŽŽŽ	P/N			P P N	P/N	PR
1152 1151	148 135	1157 1161 1A142	139 175	1141	N/A 185/1x85	134 N/A	1165 131	1164 188
		 Snap Rings Upper Wheel Stud Flat Track Rail 	•	 Rubber Tire Wheel Casting- Upper 	 Lower Pillow Block Upper Wheel Axle 	Guide Housing-lower22A.Lower Guide Stem	21A.Flat & Grooved Roller Spacer	 Grooved Track Roller Grooved Roller Baering
P P P N	g g g N N N	P P P N	P/N Ng	P P	P P	P P Ž Ž	P/N	P P N
1173 172 132 183	164 1150 190	10 N N	137 167	133	138 1168	148 1156	190	1169 169





INSTRUCTIONS TO RE-ALIGN ROLL-IN SAW GUIDE ASSEMBLY

Loosen both upper & lower guide assembly stems from the pillow block, or guide bar (upper). Caution - do not loosen the upper guide roll housing from the stem. Put a 3/4" blade on the machine. Now turn the lower guide roll housing counter clockwise until the blade is riding squarely on both guide rolls with the back edge of the blade lightly touching the back-up shoulder of the guide rolls. Tighten the set screw in the pillow-block so this assembly is now held firmly in place.

Now swivel the top guide roll housing and stem counterclockwise in the same position as the lower guide-roll housing - with the blade positioned against the guide rolls the same as on the bottom rolls. Tighten this assembly securely with the set-screw in the guide-

Be certain the blade is exactly perpendicular to the table, and in the center of the table slot, after the guide roll housings are locked in place. The blade should be perfectly straight between the lower & upper guides-with no "s" curve between these two points. Place a square on the saw table and against the side of the saw blade teeth. The blade should now be perfectly square to the surface of the table. If this is accomplished your Roll-In should now cut square & straight.

If the blade is not square with the table you may have moved the top guide housing on the housing spindle. (This spindle is eccentric - in order to throw the blade either right or left to bring the blade perfectly square to the table). If this has happened, loosen all set screws on the top saw guide housing and the back of the spindle.

Now by trial and error you can adjust the housing and eccentric spindle, either right or left, until the blade is again in its original perpendicular position.

NOTE - the bottom spindle is not eccentric. All adjustments for squareness must be accomplished with the top guide assembly.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

Failure to follow the following safety precautions may result in serious injury!

DISCONNECT POWER SOURCE. Always disconnect the power source before performing maintenance or changing the blade of this machine.

USE SAFETY EQUIPMENT. Eye protection is required at all times when operating this machine. In some cases face mask and ear protection may be needed. Wear proper apparel to avoid accidents such as slipping, clothing or hair caught in the moving parts of the band saw.

NEVER LEAVE MACHINE RUNNING ATTENDED. Before leaving this machine, make sure the power is off and the blade has come to a complete stop.

WEEP A CLEAN WORK AREA. A clean work area will help prevent accidents. Keep clutter to a minimum and clean oil spills immediately to avoid slipping. Good housekeeping is always a good practice.

ALWAYS BE ALERT. Keep alert to potential work hazards. Do not overcrowd a work area. Watch what others are doing in your work area. Avoid the moving parts of this machine.

SECURE ALL WORK. Use proper clamps, vices or jigs to hold your work secure. Do not push machinery beyond its normal capability. Do not overreach while working on this saw.

MAINTAIN THIS MACHINE. Always keep this machine well maintained by keeping the working parts of this saw in good working order. Be sure the blade is sharp and it is the proper one for the material being cut. Always make sure the blade has proper tension and is cutting straight.

ALWAYS KEEP ALL SAFETY GUARDS IN PLACE.

DO NOT PERFORM MODIFICATIONS TO THIS MACHINE AS THEY MAY CREATE AN UNSAFE CONDITION AND WILL VOID ANY WARRANTIES.

DO NOT ATTEMPT TO USE THIS MACHINE FOR ANYTHING OTHER THAN WHAT IT WAS INTENDED.

DO NOT OPERATE WHEN TIRED OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.

THESE OPTIONS ARE AVAILABLE Valuable Aids for Special Jobs!

"No-Twist" Contour Guides

While our standard guides are adequate for casual contour work, you'll find these special attachments invaluable in close precision jobs.

Chip Dust Blower

Keeps markings on work-piece clear for close contour work.

Blace Welders

You'll need one of these if you plan to use your Roll-In for die work; "inside" cuts.

Casiers

Set of four casters – two with locks – makes Roll-In completely portable. Raises saw about 5 inches.

Saw Master Accessories Package

Quick clamp with back plates. Rip fence with rail.

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