

INSTRUCTIONS SECTION I – Text

MODELS

Euromatic 370 S Euromatic 370 S-L Euromatic 370 PP Euromatic 370 PP-L



MODEL:	
SERIAL NUMBER:	
DATE PURCHASED:	



1809 Industrial Park Dr. Grand Haven, Michigan 49417 Phone: 800-937-3253

Web: <u>www.dakecorp.com</u>



If machine is to be operated at 440 volt 3 phase power, please read the following warning.

WARNING!

This machine must be wired by a qualified electrician. Do not

connect 440-volt power directly to this machine. The use of a

step down transformer, Must be used with this machine.

Failure to do so may affect warranty.

 Image: Step Down TRANSFormer
 Image: Step Down Transformer
 Image: Step Down Transformer
 Image: Step Down Transformer

Call Dake if a transformer is needed 1-800-937-3253

EUROMATIC 370 PP AUTOMATIC & SEMI-AUTOMATIC

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Technical Data Ferrous

Blade Specifications	Unit	Value
Max. Blade Diameter	Mm/inches	370mm/14.5 Inches
Min. Blade Diameter	Mm/inches	300mm/12 inches
Max. Blade Thickness HSS (STANDARD)	Mm/inches	3.5MM/.137 inch
Min. Blade Thickness HSS (usable range)	Mm/inches	2mm/.098 inches
Blade Arbor Hole	Mm/inches	32mm/1.25 inches
Drive Pin Spacing	Mm/inches	2/10/63mm/.078/.393/2.48 inches
Cutting Speeds		
2 Speeds (standard)	RPM	25 RPM/ 50RPM
Head Decent		
Max. Head Stroke	Mm/inches	228.6mm/9 inches
Head Down stroke		Adjustable
Head Feed System		Air over Hydraulic
Power consumptions		
Drive Motor	HP	4.5
COOLANT Pump	HP	1/3
Electrical Service 220 volt	Volts/Amps	220/20
Electrical Service 440 Volts	Volts/Amps	440/16
Air Requirements (PP has accumulator)	PSI/CFM	90-100/6
Vises		
Main Vise (adjustable)	Power	Pneumatic
Feed Vise (adjustable)	Power	Pneumatic
Max Vise Opening	Mm/inches	228.6/9
Vise Jaw Height	Mm/inches	69.85/2.75
Feed Cylinder (370PP)	Mm/inches	508/20
Multiple Stroke Capacity	Digital Counter	999 Times
~		
Capacities		
Coolant	Liter/Gallon	Approx. 22.7/5
Gear Box Oil	Liter/Gallon	Approx. 4.5/1
Piece Counter Range	Piece	1-99,999
Blade Protection/Amp Meter	Range	Adjustable
Miter Capacities		
Miter Left	Degrees	0-90
Miter Right	Degrees	0-45
Machine Weight		
370PP	Kilograms/Pound	778/1716
370PP 370S	Kilogram/Pound	598/1320
5705	Kilograill/Poullu	370/1320
Cutting Capacity	90 Degrees	45 Degrees
370PP/370S	101.6mm/4inches	98.42/3 7/8
5/011/5/05		70. 72 <i>13</i> 110

Technical Data Non-Ferrous head

Blade Specifications	Unit	Value
Max. Blade Diameter	Mm/inches	370mm/14.5 Inches
Min. Blade Diameter	Mm/inches	300mm/12 inches
Blade Type	Mm/inches	Carbide
Blade Arbor Hole	Mm/inches	32mm
	Willy menes	52mm
Cutting Speeds		
2 Speeds (standard)	RPM	1500 RPM/ 3000RPM
Head Decent		
Max. Head Stroke	Mm/inches	228.6mm/9 inches
Head Down stroke		Adjustable
Head Feed System		Air over Hydraulic
		· · · · · · · · · · · · · · · · · · ·
Power consumptions		
Drive Motor	HP	4.5
COOLANT Pump	HP	1/3
Electrical Service 220 volt	Volts/Amps	220/20
Electrical Service 440 Volts	Volts/Amps	440/16
Air Requirements (PP has accumulator)		90-100/6
Vises		
Main Vise (adjustable)	Power	Pneumatic
Feed Vise (adjustable)	Power	Pneumatic
Max Vise Opening	Mm/inches	228.6/9
Vise Jaw Height	Mm/inches	69.85/2.75
Feed Cylinder (370PP)	Mm/inches	508/20
Multiple Stroke Capacity	Digital Counter	999 Times
	0	
Capacities		
Coolant	Liter/Gallon	Approx. 22.7/5
Gear Box Oil	Liter/Gallon	Approx. 4.5/1
Piece Counter Range	Piece	1-99,999
Blade Protection/Amp Meter	Range	Adjustable
Miter Capacities		
Miter Left	Degrees	0-45
Miter Right	Degrees	0-12 1/2
Machine Weight		
370PP	Kilograms/Pound	778/1716
370S	Kilogram/Pound	598/1320
Cutting Capacity	90 Degrees	45 Degrees
370PP/370S	101.6mm/4inches	98.42/3 7/8

UNPACKING AND INSTALLATION

Unpacking

A: Remove box or shrink wrap. Carefully inspect the machine for any physical damage. If damage is noted, notify the truck line at once. They may require an inspection and a claim to be filed.

B: Remove the metal banding that holds the machine to the skid.

WARNING!!!!! The banding can be sharp and cause injury.

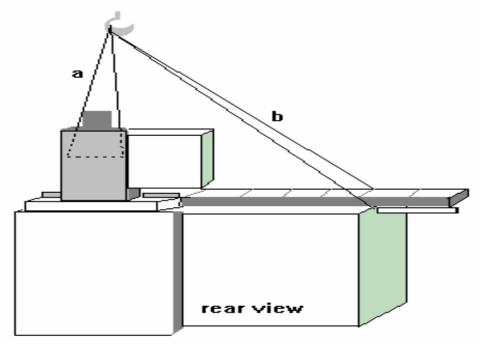
C: Check that all standard parts and optional accessories are with the machine. Some accessories may be located in chip drawer or behind access doors. Each machine should include one blade, one gallon of coolant, tool kit, owner's manual, and saw pitch calculator.

D: Remove the machine from the skid. If using an over head hoist, place a sling (part "A" shown below) around the gear box Put the sling (part "B" shown below) around the feeder portion of the machine. <u>DO NOT PLACE SLING AROUND</u> <u>THE FEED CYLINDER!</u> The sling is to stabilize the machine while lifting, and is not intended for lifting a large load.

When lifting the 370 Semi-Automatic saw, use only one sling around the gear box. Always take proper precautions when lifting these machines. If the machine slips or moves while lifting injury may occur. If a fork lift is used to move the machine, make sure the weight is distributed evenly and the forks are all the way through before lifting.

E: Set the machine in the location where it will be operated. Make sure saw is located in such a way that it will not interfere with surrounding equipment. The machine must not be in a location where unsafe working conditions may exist.

F: Discard packing materials in a safe manner. Make sure all the accessories and literature have been removed.



Installation

A: Clean off all surfaces that have been greased or coated with rust inhibitor.

B: After machine is in place on a level flat surface, adjust leveling bolts located in the foot flange of the machine base. Adjust the machine so that it does not rock from floor irregularities.

C: From the main power, source connects power to the machine. **This power source must supply the machine with a separate breaker of proper amperage.** For a 220 volt machine a 20 amp service is recommended. For a 440 volt machine a

16 amp service is recommended. Machines are rated at +/-10%. The wires are connected to the terminal block inside the control cabinet.

WARNING!!!!!

All electrical connections should only be made by a qualified electrician. Before turning on power, check that all electrical components are in place. They may have come loose in shipping. If you have any questions please call Dake or consult your electrician.

D: Locate the air regulator on the rear of the vertical column. With a quick disconnect or hard plumb air to the regulator. It is recommended to have an emergency air shut off valve. Once all the fittings are secure, turn the air supply on to the machine. The gauge should read at 90 PSI. If the reading is more or less adjust the regulator to 90 PSI. **Incoming air from the air compressor must be clean and dry. Use all precautions and water traps as necessary.**

E: If loading or unloading tables were ordered install them now. Make sure the tables are level and in precise alignment with the feeder unit.

WARNING!!!!!

Failure to align tables and level to the correct height of the feeder may cause material to roll or catch on other components.

Continuation of the set up is on page 9.

INSTALLATION OF THE BLADE

WARNING!!!!!

Before performing the following operations, the electrical supply must be LOCKED OUT.

Installing the blade (Ferrous head)

Open the Plexiglas cover. Open the magnetically latched blade guard. Remove the spindle flange bolt using the socket wrench provided with the saw. (Standard threads) Remove the blade flange, and wipe the blade surface of the flange and spindle clean. Carefully slide the blade up through the coolant distribution tubes. Take care not to bend these tubes. With a rolling motion of the blade counter clockwise, push against the chip brush and slide blade over the spindle shoulder. Rotate the blade on the shoulder to align the two large drive pin holes. Insert the flange pins through the drive pin holes and insert bolt, finger tighten at this point. **The back lash must be removed from the blade.** This is done by pushing the blade against rotation, until it bottoms out on the drive pins. (Push Downward) While holding the blade against the pins tighten the spindle bolt securely. **Failure to remove the back lash may result in blade breakage and personal injury!**

BLADE INSTALLATION

A: Clean spindle and flange faces, so there are no chips on the faces.

B: Install blade on the spindle shaft shoulder, so the teeth are facing down, for clockwise rotation, and install blade flange. Take care that you do not hit any machine parts with the carbide tips; this may affect the blade performance.

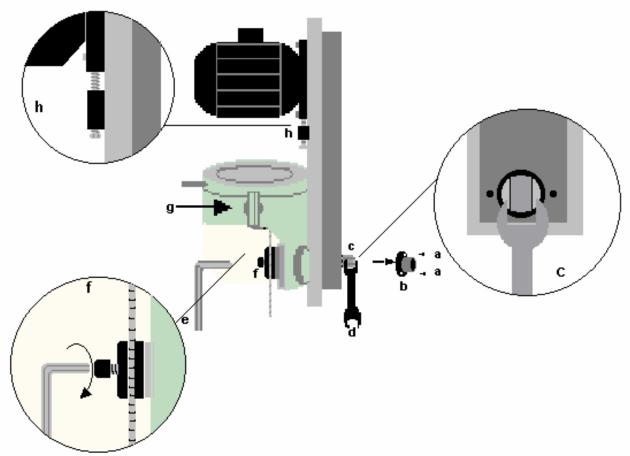
C: Screw the spindle bolt in finger tight

D: Holding the spindle shaft with the wrench tighten bolt securely.

E: Close blade cover.

Continued on page 11

BLADE CHANGING ON THE NON-FERROUS HEAD & DRIVE BELT TENSIONING ADJUSTMENT



WARNING!!!!! Before performing the following operations, the electrical supply must be LOCKED OUT.

NEVER ATTEMPT TO CUT STEEL OR FERROUS MATERIALS WITH THE NON-FERROUS HEAD INSTALLED. IT MAY CAUSE SERIOUS INJURY, OR FIRE!

CAUTION!!!! USE CARE, CARBIDE TIPS ARE SHARP.

BLADE INSTALLATION

A: Clean spindle and flange faces, so there are no chips on the faces.

B. Remove item B using wrench d, put wrench D on shaft C. Then use wrench E to remove bolt F. (Left Hand Threads).

C: Install blade on the spindle shaft shoulder, so the teeth are facing down, for clockwise rotation, and install blade flange. Take care that you do not hit any machine parts with the carbide tips; this may affect the blade performance.

D: Screw the spindle bolt in finger tight

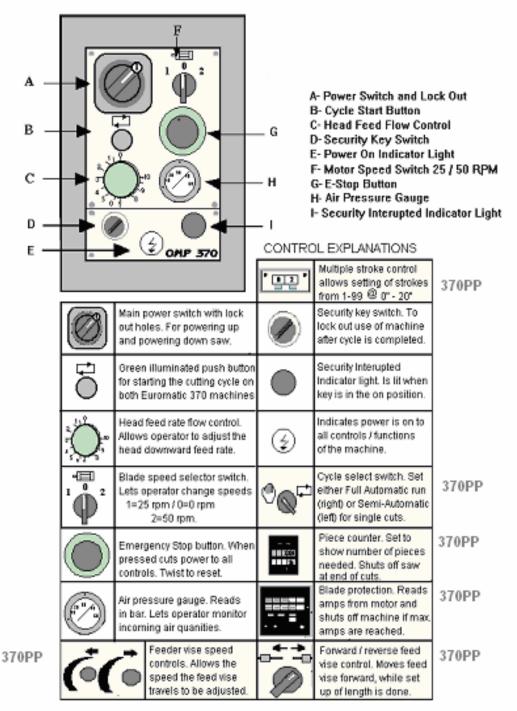
E: Holding the spindle shaft with the wrench tighten bolt securely.

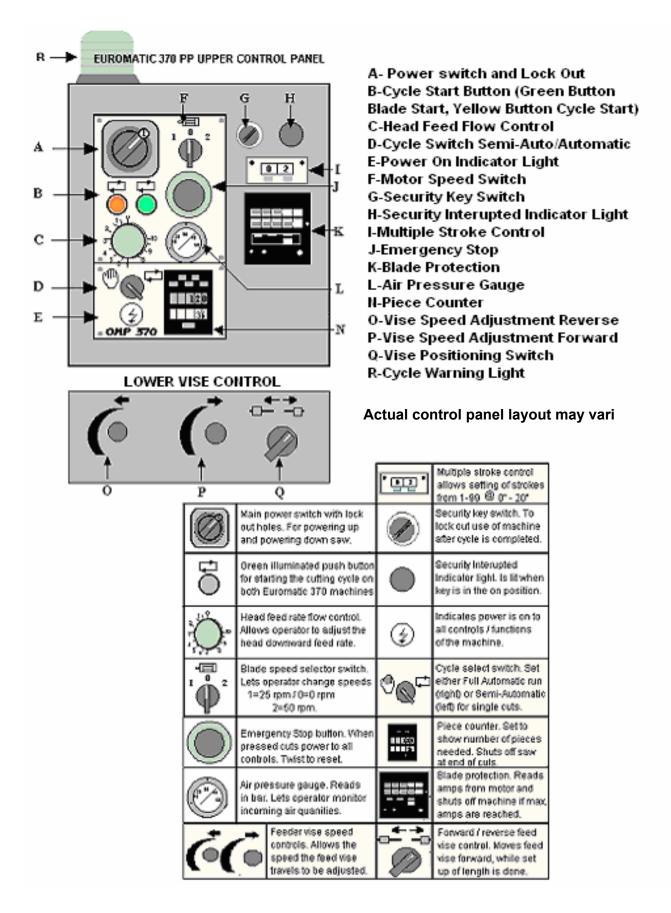
F: Close and tighten blade cover.

NOTE: The blade pins may have been removed from your blade flange, to allow easier blade sizing, and safety. If you reinstall the pins for carbide blade or HSS blade cutting, backlash must be removed from the blade while installing. See the section on blade installation on page 0 of this manual.

Continued on page 11 370 S 370 S L 370 PP 370 PP L

EUROMATIC 370 SEMI-AUTOMATIC CONTROL PANEL





Close the safety guard then turn on the power to the machine. Close the head feed control knob to the "0" setting. (370PP Place the Automatic / Semi-Automatic switch in the Semi-Auto mode The hand symbol). Make sure head is in the up position (making contact with the upper parameter limit, this limit is the bottom one). Place the speed selector switch on either "1" or "2". Press the start button (370PP the green button 370S the yellow button) and take notice of the blade rotation, to stop the blade rotation press the emergency stop button.

If properly wired the blade will rotate: (in accordance with the arrow on the blade guard)

Ferrous Head in a Counter Clockwise direction

Non-Ferrous Head in a Clockwise direction

If rotation is incorrect consult your electrician.

Add coolant to the machine. Using the coolant supplied with your saw (or any water Soluble coolant concentrate) mix per manufactures instructions (normally 10 to 1) in a container or bucket. Next pour the mixed coolant into the machine coolant pan, which can be pulled outward to fill. With the machine in Semi-Auto mode, (be sure the head feed control knob is set at "0") press the start button. (With the 370PP you will have to push the yellow button after pushing the green button for the coolant to come on). This will start the motor and the coolant will flow. The valve right above the blade guard on the right will allow you to regulate the flow of coolant. This can be varied to the type of cutting you doing.

Do not use cutting oil in this machine!!!

I: Familiarize your self with all the warning labels. Check with your safety committee on the proper lock out procedures. These procedures should be followed at all times maintenance is performed, including blade changes.

K: Take time now to familiarize your self with the control panel's functions, using the graphic on the page 9 and 10.

BLADE SELECTION SPEEDS AND FEEDS

Proper Blade Selection 370PP 370S

The most important decision you will make on your machine is selecting the Right Blade for the Material. The larger the part, the more coarse of blade. The smaller or thinner the part the less coarse of bladeAn improper blade will sacrifice the quality of cut, safety and blade life. When in doubt use the slide pitch calculator provided with the machine. If you are not sure, do not hesitate to call DAKE for a recommendation.

Warning!!!!!! Never use a blade that is cracked, dull, or missing teeth.

Different blade types

There are many different grinds that can be put on a blade. A special grind may work for you. Call Dake for information on these blades. Special coated blades are also available, such as cobalt. These blades can increase blade life considerably on certain applications. The blade thickness can affect the way the blade will cut. A thinner blade may work better for you if you are cutting thin wall tubing. The thinner blade has to remove less kerf, meaning the blade cuts less material, and cuts faster without out distorting the tube. A thicker blade such as a 3mm is more rigid and will flex less cutting heavy material. Each high speed steel blade can be reground up to about 20 times. If done properly.

CAUTION!!!!

Always have blades reground by a qualified professional. Always use blade with proper pin hole spacing.

Speeds and feeds

The best way for determining this, is by sound, and chip appearance. With the proper blade the machine will cut smooth and throw a curly chip. The chip should be shinny, curly, and cool to the touch. If the chip is bent into a curl, discolored and/or hot, the feed rate may be too fast. If the chip is powdery or splintered the feed rate may be too fast, too slow or the incorrect blade is being used. Rule of thumb, if it sounds good and the chips look good you have it set right. 370 S 370 S L 370 PP 370 PP L 11

Spindle speeds

The larger or harder the material the slower the speed. The thinner or softer the material the faster the spindle speed.

Example:	3" Solid cold rolled	25 RPM
	2" Solid stainless	25 RPM
	2" X 1/8" wall tubing	50 RPM
	2" Solid aluminum	50 RPM

Blade Selection

For Non-Ferrous Cutting Head

Same rules apply as with the Ferrous cutting head. Your selection of teeth configurations are more limited with carbide. For solid material from 2" to 4" (non ferrous) a 14" X 60 tooth blade is recommended.

Solid material from 1" to 2" a 14" X 84 tooth blade is recommended. For materials less than 1" a 14" X 100 tooth blade is recommended.

Warning!!!!! Never use a blade that is cracked, dull, or missing teeth.

Different blade types

There are different types of grinds for carbide, Positive pitch and negative pitch. You may select a positive pitch blade for more aggressive cutting And a negative pitch for thinner material.

How to use the saw pitch calculator (Graphic on following page)

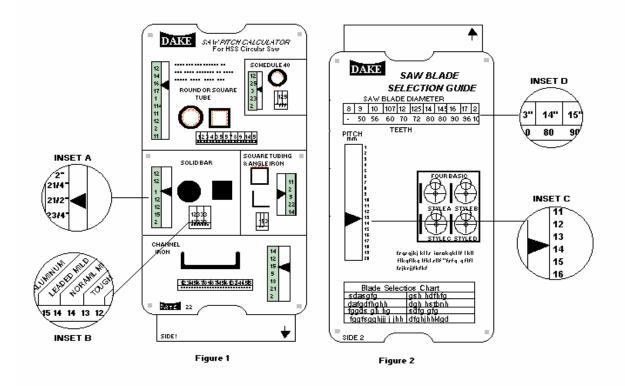
Look at side1, select type of material to be cut from the vertical window on the left side of the material menus. Slide the inner portion so the arrow lines up with the size being cut. The horizontal window will display the Blade pitch. Knowing the pitch turn over and read side 2. In the left hand column find the pitch from the other side. Slide the arrow to this pitch number. Above the horizontal Window is displayed different blade sizes. Select blade size wanted, and read the Number below it this is the number of teeth needed.

Example:

Material2 1/2" round solid mild steel. See figure 1 inset AThe pitch is14mm. See figure 1 inset BThe blade diameter needed is14". (Use this diameter for 14 1/2") See figure 2 inset CThe number of teeth will be 80. See figure 2 inset D

Normally when cutting harder materials like stainless steel, you will use a pitch of 1 or 2 smaller. For softer materials like aluminum, a pitch of 1 or 2 larger.

When miter cutting the next larger pitch blade may be needed. If the chip packs into the gullet, slow feed down or use coarser blade.



BLADE SELECTION FOR NON-FERROUS HEAD

Proper Blade Selection 370 Non-Ferrous

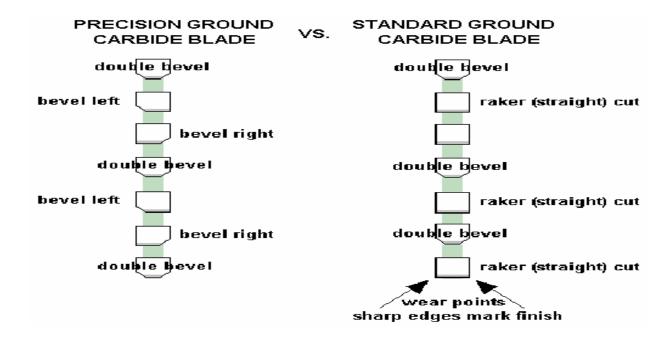
Same rules apply as with the ferrous head in selecting the "Right Blade for the Material". The larger the part the more coarse teeth. The smaller or thinner the part, the more fine the teeth. An improper blade will sacrifice the cut safety and blade life

Although the selection of teeth configurations, are more limited with carbide, here is a brief description of blade recommendations for certain size materials.

- 1. For solid material from 2" to 4" (non-ferrous material) a 14" X 60th blade is used.
- 2. Solids from 1" to 2" a 14" X 84th blade is recommended.
- 3. For cutting material less than 1" a 14" X 100th is recommended.
- 4. Large extrusion with relief an 84th may be used.
- 5. Any thin wall tubing or small extrusions with relief should be cut with a 100th blade

WARNING!!!!!

Never use a blade that is cracked, dull or with chipped or missing teeth.



Different blade types

There are many different grinds for carbide. Positive pitch and negative pitch. You may select a positive pitch blade for more aggressive cutting. A negative pitch for the more thin material. Also, different thicknesses for the blade are available. The same rule applies here as for the Ferrous head, that high speed steel blade are available for the non-ferrous cutting head. These blades may work better for some applications. And are normally run at the 1500 rpm setting.

C: Precision ground carbide blades can be purchased for the non-ferrous head that will give you superior finish. A standard ground carbide blade is cut with a double beveled tooth and a straight rake tooth and so on around the circumference of the blade. A precision ground blade is beveled left, beveled right, and a double beveled tooth, around the blade without the straight ground "rake" tooth, you eliminate much of the kerf marks a special grind may work for you. Call factory for information on these blades.

The blade thickness can affect the way the blade will cut. A thinner blade may work better for you if you are cutting thin wall tubing. The thinner blade has to remove less kerf, meaning the blade cuts less material.

CAUTION!!!!

Carbide blades should be reground only by a qualified professional.

Speeds and feeds

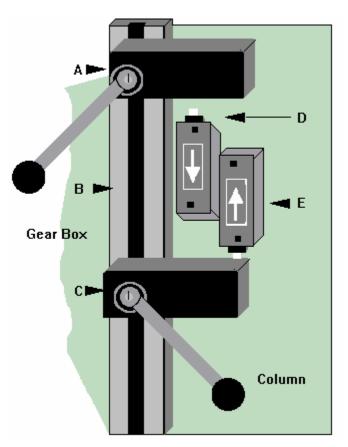
If the saw cuts without laboring through the cut the feed is correct the chip created on non-ferrous normally will not curl, Rule of thumb if it sounds good and the chips look good you have it set right.

Note: 3000 rpm is the normal cutting speed for non-ferrous material with a carbide blade.

WARNING!!!!!

PROPERLY ADJUST ALL VISES BEFORE CUTTING. MAKE SURE THE BLADE WILL NOT STRIKE ANY STEEL PARTS OF THE MACHINE. IF DEEP MITER CUTS ARE BEING MADE, LOWER WEAR PLATES MAY NEED TO BE REPLACED WITH ALUMINUM PLATES, OR REMOVED AND A CLEARANCE CUT MADE INTO THE PLATES WITH STEEL CUTTING SAW.

SETTING THE HEAD PARAMETERS



Warning!!!!!

Never depress the limit switches with your finger. Your finger could be crushed or amputated between the limit switch and cam block.

Setting the head parameters

This is quite simple and very dependable method of reducing "dead air" cutting. The above graphic illustrates the four basic parts of the head positioning system.

A is the lower limit, adjustable cam block.

B. is the machined T-slot way that the cams move vertically in.

C. is the upper head limit, adjustable cam block.

D. is the limit switch that will control the lower setting. When this switch is activated the blade stops and the head returns to the upper setting.

E. This is the upper limit switch; this controls the head on the return stroke and stops it in the upper setting. The gear box is on the left, and the vertical column is on the right side, as looking at the adjustments.

To set these parameters move the cams to the extreme positions and snug down. (The top cam up and the lower cam down)

1. Power up the machine, and check that you have air pressure on the gauge.

2. Turn the speed selector switch to the "0" setting.

3. Place material in the main vise, and up to the blades path. **Do not place under the Blade path.** move the head feed control valve to zero.

4.**Make sure the emergency button is not engaged.** On automatic machines (370 PP) place the cycle selector switch to the "semi-auto" mode (hand symbol). Press the green cycle button (370S Yellow Button) (370PP push the green button then push the yellow button) and slowly open the head feed valve. As the head descends downward toward the material, close the head

feed flow control value to stop the head just above the material. Never have the blade adjusted closer than $\frac{1}{2}$ to the material to allow proper clearance.

5. After stopping the head, loosen the upper head setting cam. (the cam block on the bottom) Now raise this cam up to where it just touches the limit switch without depressing the limit switch button. Securely tighten this cam down. (the power of the head feed cylinder will actually move this limit if the cam is not securely tight)

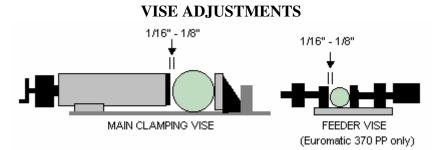
Warning!!!!!

Never lock the cam locks half on or half off the T-slot.

6.Now adjust the lower cam block (top block) to the highest position. Then, open the head feed flow control valve and let the head descend just past the lowest point of the material, and close the valve. Now slide the lower parameter cam setting block (cam block on the top) down to the limit switch. Holding the cam tight activate this limit switch button. This must be done before the head returns to the upper position. Be sure the cam is tight.

Warning!!!!!

Never make these adjustments with the blade rotating.



Proper vise set up and adjustments are very important for quality and safe cutting.

WARNING!!!!!

KEEP FINGERS AWAY FROM THE VISE OPENING, IT MAY CAUSE PERSONAL INJURY.

With the vise in the **open** position, turn the hand wheel until you are a 1/16" to 1/8" away from the material. Push the emergency stop button to activate the vise to see if the material is properly clamped. To deactivate the vise turn the emergency stop button to the right.

This will be the proper setting. (Push the emergency stop button to test clamping)

Note: The main vise can be moved left and right via T-slots. This allows you to clamp close to the blade even when making miter cuts.

Now adjust the anti-burr arm to a setting that will clamp the material in the rear vise jaw. This is done by loosening the bolt that holds the anti-burr arm bracket.

Note: The anti-burr arm is not designed for clamping, but to hold the piece from moving when the blade exits the cut. The anti-burr arm might need to be removed for some miter cutting.

For the 370 PP machine, the feeder vise must also be adjusted. This is done to the same dimensions as the main vise.

Loosen the large bolt on the rear feeder vise block, Then clamp the material in the main vise manually (Do Not use the emergency stop button). Move rear vise feeder jaw so that it lightly touches the material (the jaw should be parallel with the main vise). Tighten the bolt on the rear feeder vise block. Now, loosen the large bolt on the front block of the feeder vise, slide the jaw toward the material and set as above 1/8" from the material.

Note: The rear vise on the feeder also moves. With the material clamped in the main vise loosen the rear vise block bolt, and adjust so the jaw is parallel with the main vise.

Note: If vises crush the material you are cutting increase the gap in the vise dimensions. 370 S 370 S L 370 PP 370 PP L

The air pressure can also be reduced by turning the main incoming air regulator down. Turning this down will also slow the operation of the machine.

WARNING!!!!!

BE SURE CAM IS TIGHT; DAMAGE TO THE MACHINE AND/OR PERSONAL INJURY MAY OCCUR

Warning!!!!!

Never depress the limit switches with your finger. Your finger could be crushed or amputated between the limit switch and cam block.

SEMI-AUTOMATIC CUTTING 370 PP / S

Running in the Semi-Auto mode

WARNING!!!!

Always close the safety guard when the machine is in operation.

A: Turn on the main power to the saw.

B: With the 370 PP model turn the cycle selector switch to the semi-auto selection (hand symbol)

C: Turn the security key to the on position (LEFT)

D: Set up and adjust your vises to the material being cut. (See vise set up section)

E: Set up your head parameters. (See head limit section)

F: Place part against positive stop, or position material for correct length to be cut.

WARNING!!!!!

NEVER MOVE THE BLADE SPEED SELECTION KNOB WHILE THE MACHINE IS IN OPERATION OR WHILE THE GREEN OR YELLOW LIGHT IS ON, IT MAY DAMAGE THE MACHINE.

G: Select speed. 25 or 50 RPM for ferrous material, 15000 or 3000 for non-ferrous material

H: Close head feed flow control.

I: Press the green start button. (370PP you will need to press the orange button after pushing the green button) Adjust the head feed rate, and coolant flow to the material being cut.

WARNING!!!!! Make sure head feed control is closed before starting cycle. Head could overfeed into the part if this is not followed, causing possible blade and/or machine damage, or may result in personal injury.

The following steps will be executed

1. Vises close and clamp the part.

2. Motor starts, coolant flow starts. Head will descend and make cut.

3. Motor stops, coolant flow stops. Head will return to the preset height.

4. Vise will unclamp part.

VISE SET-UP AND MITER CUTTING FERROUS HEAD

Miter cutting and Squaring

The 370 PP and 370 S have a scale scribed into the front of the rotating portion of the cutting head (0 to 60 degrees.) On the stationary portion of the cutting head casting is a scribed line. Any angle can be set by loosening the lock handle. This handle is located front and center of the cutting head.

Loosen the locking handle, this handle can be pulled and repositioned to clear the coolant tube.

Loosen this handle and position it in an upwards position so it will not hit the casting while you rotate the head.

With the handle loose turn the cutting head, using the rotation handle, to the angle needed, and lock down tightly when the angle is set.

WARNING!!!!! HEAD MUST BE LOCKED IN POSITION, MAY CAUSE DAMAGE TO THE MACHINE.

There are preset stops at 90 and 45 degrees. Remove the positive stop on the left hand side of the cutting head to go beyond 45 degrees. This will allow you to miter in both directions and allow placement of the head for slot cutting.

The saw can be squared up on the horizontal plane with the two adjusting bolts in the positive stop block located on the left side of the cutting head. Loosen the lock nuts and adjust the stop bolts in or out against the positive pin stops to achieve square ness.

Adjust main vise as close to the blade as possible (in the "T" slots) without interfering with the cutting.

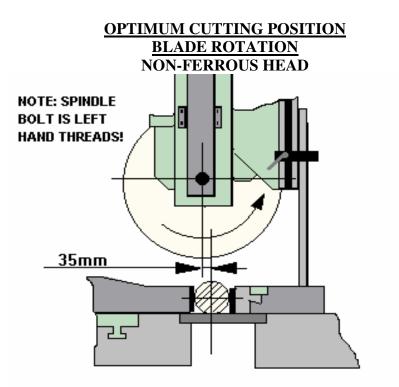
Some applications may require repositioning of the rear vise jaws, for proper clamping. This can be done by loosening the locking bolts on the jaw, and moving closer to the blade.

Some miter cuts will require removal of the anti burr arm. Vises may need to clamp tighter for mitering some materials. As you cut on an angle, the part may be pulled toward the blade if the vises are loose. Normally, when mitering go to the next larger tooth size. You are increasing the cross section and may need a coarser blade.

Caution!!!!

Always clamp parts properly, the blade can throw a loose pieces from the machine and cause injury.

NOTE: FOR SETUP OF THE VERTICAL HOLD DOWN VISE SEE PAGE 18



The optimum cutting position as shown above will put the center line of the blade 35 mm in front of the center line of the material being cut.

To maintain this cutting position, adjustment of the rear vise will be necessary.

This adjustment is made by loosening the rear vise and sliding it in the "T" slots forward or backward to reach the optimum position.

This adjustment is necessary when ever a different blade size is used on the machine. With a different blade size the center line of the blade will change.

By adjusting this rear vise you may also achieve a more or less aggressive cut position.

NOTE: When ever the rear vise is moved the feeder vise must also be adjusted, on the 370 PP.

VERTICAL HOLD DOWN VISE EUROMATIC 370 PP

Your machine may be equipped with a vertical hold down vise. This vise will help hold the material flat on the machines bed, and assist in bundle cutting, by keeping the material grouped.

Note: This vise should never be used with out the main vise.

SET-UP:

A: Set material vises (feed and main) for proper clamping.

B: Choose the clamping foot most suited for your application. (Figure 1 items A & B)The long foot should be used for smaller or flat material. The shorter feet will be used for larger diameter material.

This foot will screw on and off the piston of the cylinder. (Figure 1 item C)

C: Loosen the large mounting nut (figure 1 item D) from the bottom of the cylinder slide bracket. (Figure 1 item F) With the cylinder nut loose, move the hold down foot over to the center of the material being cut. (Figure 2 item 4) In some cases this foot may be positioned over a different area of the part for more control in clamping.

D: After foot and cylinder is centered over the material, tighten this nut. Hand tight usually will hold the cylinder sufficiently in place. With this adjustment done, the foot should be above the material to be cut.

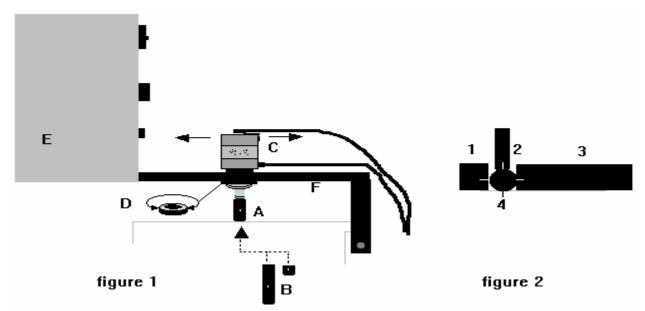
Note: In some applications the material size or shape will not allow the vertical hold down to be used.

E: With vise adjusted, you may begin cutting.

Note: The design of this cylinder will not allow over exertion of pressure to the part and will not affect the cylinder if the piston does not fully stroke (Full stroke approx. 1 1/4").

Other items shown are in Figure 1 item E is the electrical panel, figure 2 item 1 is rear feeding vise, item 2 vertical hold down vise item 3 main clamping vise and item 4 material.

Note: Vertical vise will only activate during the automatic run cycle!



NOTE: THE VERTICAL HOLD DOWN VISE MUST REMOVED TO ACCESS THE BLADE. REMOVE THE VISE AND CAREFULLY LAY OUT OF THE WAY WHILE CHANGING THE BLADE. TAKE CARE NOT TO DAMAGE THE TUBING OR THE CYLINDER!

FOR EXTREME MITERING CUTTING TO THE LEFT, THE VERTICAL HOLD DOWN VISE AND BRACKET MUST BE REMOVED.

WARNING!!!!! DO NOT LET THE FEEDER VISE HIT THE VERTICAL HOLD DOWN DURING THE FEED CYCLE, THIS MAY CAUSE EXTENSIVE DAMAGE TO THE VERTICAL HOLD DOWN. ALWAYS CENTER THE HOLD DOWN FOOT IN-BETWEEN THE FEEDER VISE JAWS!

HEAD DOWN FEED REGULATOR EUROMATIC 370 PP

Your 370 PP may be equipped with the head feed regulator feature. This feature allows you to control the head feed pressure for cutting tubes and structural steel, at a faster rate. By regulating the head feed pressure you will be able to cut through the thickest mass of the material at a normal or reduced rate. When the blade enters the interrupted section of the material the head will speed up and cut faster. This will allow quicker cutting time on these materials.

Note: When cutting solid materials this regulator will not activate and increase rate.

This regulator will also allow you to control the head return rate, making for quicker cycle times.

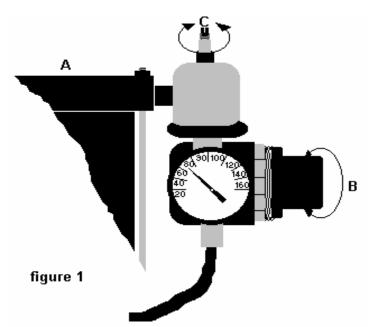
ADJUSTING THE REGULATOR.

A: Using the large gray adjusting knob on the regulator body, pull out and turn it clockwise to slow the descent rate down. Turning this knob counter-clockwise will increase the feed rate through the material. (Figure 1 item B)

B: To increase the head return rate, the slotted adjusting screw in the top of the bleeder body can be adjusted. Clock wise will slow the return rate down, and counter-clockwise will increase the return rate. (Figure 1 item C)

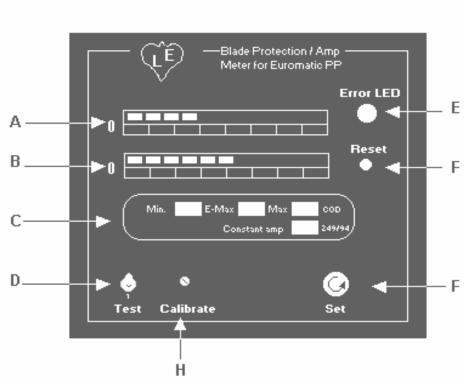
Note: Common sense must be practiced when adjusting the return rate. Slamming the head upward can damage the machine.

If cutting solids the down feed pressure may need to be adjusted in a way that maximum pressure is applied. (Figure 1 item A represents the head feed cylinder)



Gauge is for pressure reference, or showing the amount of pressure exerted to the cylinder.

SETTING THE BLADE PROTECTOR PARAMETERS 370PP



CONTROL FUNCTIONS

- A. This scale shows the actual amps being drawn by the motor, during operation via LEDS.
- **B.** This scale allows you to program shut off amps. Wet approx. 2 amps higher than the freewheeling amps. (amp draw while machine is running, but not cutting)
- **C.** Write in area for recording parameters such as min. amp draw, blade shut off setting, max. Amp draws during cutting cycle and average constant amp draw.
- **D.** Test switch, for testing the scales LED's. (Factory preset no adjustment needed)
- E. LED is illuminated when ever preset shut off amps have been met and the blade shuts off.
- **F.** Press this button when preset amps have been met and the LED is illuminated. Press this button to reinstate power to the controls, allowing restart of the cycle.
- G. Knob to set your preset shut off amps. This controls the LED's on the bottom scale.
- H. Calibration adjusting screw. (Factory preset and no adjustment needed)

Features

Operator sets shut off amps, 2 amps above free wheeling amps. If blade is dull, wrong for the material being cut or the head feed is excessive. The amps will peak to your preset amps and shut the saw off. This prevents damage to the blade, saw and material, this will prevent over feeding that can give you a poor finish and shorten blade life.

You can monitor blade life by recording the amps being drawn, while cutting and using a new blade. When the blade dulls the amps increase.

The shut off amp settings are adjustable and allows adjustments for different materials and different blades.

Warning!!!!!

Setting amps too high may cause motor to over heat, machine or blade damage.

BLADE PROTECTION CALIBRATION

On occasion you may need to recalibrate your blade protection device. Common problems that may create the need for recalibration may be.

A: Low incoming voltage. When your incoming voltage is below the specified machine voltage, your amps being consumed by the machine will increase. This will not effect the operation of the machine, but it may cause the blade protection device to activate premature.

B: Voltage fluctuation of incoming power.

Warning signs of the need to recalibrate will be.

A: The blade protection will shut machine down when ever blade is started.

B: The blade protection device will active as soon as blade contacts work.

C: The blade protection device will active, while cutting, assuming the blade speed, blade pitch, blade condition, and head feed rate is correct, and amp setting is set sufficient.

D: Another key to determine is if low incoming voltage is present is if machine will not stay powered up after turning on the main power switch of the machine.

Note: If the condition described in "D" above exists, another adjustment may be required. In the electrical panel you will find a thermo overload. The overload will have a small adjusting wheel with amp rating shown on it. This overload (using this adjusting wheel) will need to be adjusted. Moving this wheel one indicator line at a time will Increase the overload until machine will power up normally.

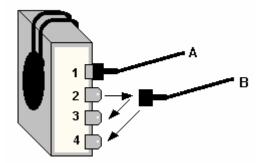
CAUTION!!!

Do not mistake vise timers for this over load. (You will find the two vise timers mounted side by side, and should not be adjusted, unless there is a need to speed up or slow down the timing of the vises.)

CALIBRATION

To calibrate the device, you will need to open the rear access door of the electrical panel. In the middle of the door panel you will find a square inductive pick up, with a hole in the middle of this block that has wire running through the hole. (See figure below) On the side of this block you will find two wires, connected to two of the four taps. To calibrate remove the bottom wire only (wire B on the illustration), and place it on tap labeled 3. Start the saw and watch the LED's on the device. With the amp setting set at approx. halfway, the amp reading on the top line should be approx. two LED's lit on the low speed. If the amps on the top line are still too high move the tap to the number 4 tap.

Note: Move the wire to the higher numbered taps, only as much as needed. If device does not activate after adjustment during severe operation, recalibrate to the next lowest tap number.



Setting Length with the DRO 370PP



Note: Power to the DRO module is battery powered. This battery has a 7 to 10 year life expectancy. This battery can be purchased at most electronics store. If display blinks, or does not display replace battery.

Step 1.Setting the counter (DRO) at zero

Switch the cycle mode switch to the semi-automatic mode.

Warning!!!!

The feeder vise must be placed in the forward position (This switch is located on the far right hand side of the lower control panel)

Loosen the lock handle located by the bearing support. See Figure 1 below.

Turning the feeder vise hand wheel in a counter clockwise direction, "dead head" the feeder vise against the screws end limit. The digital counter can now be set at zero with the feeder vise "dead headed" loosen the set screw in the collar of the counter. Rotate the collar until there are all zeros in the counter window. Tighten set screw (Figure 4).

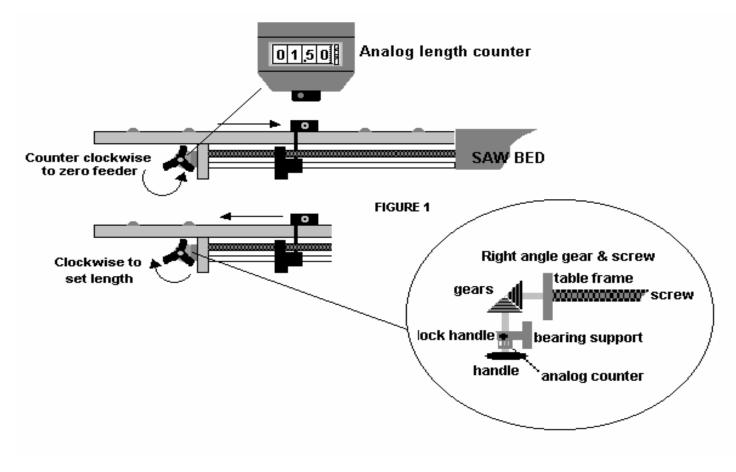


Figure 1

Adding blade thickness in counter (DRO)

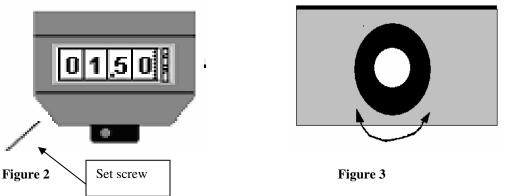
Note: By entering the blade thickness to the counter the need to add this thickness dimension to the cut length can be eliminated.

When ever the blade is changed it is recommended to check the thickness, as it may change after resharpening. This parameter setting only needs to be added once.

Move the feeder vise to the forward position.

Loosen the lock handle, located by the bearing support. See Figure 1.

Turn the feeder vise hand wheel in a counter clockwise direction, "dead head" the feeder vise against the screws end limit. Determine the thickness of the blade, back the feeder vise off (turning the adjusting wheel clockwise) until the LCD reads the blade thickness. When this dimension has been met, Loosen the set screw in the collar (Figure 2) and rotate the collar (Figure 3) until the display reads all zeros in the counters window. Tighten this set screw. You now have the blade thickness added in the length of cut equation.



EXAMPLE:

The thickness of the blade you are using is .098. The counter is zeroed out. This will become your true zero point of the feeder. If the length of the part you cut is 10", the feeder will feed the part 10.098" The counter will have a negative number of -.098.

Note: The length of cut is figured from the right hand side of the blade. If you now "dead head" the feeder you will have a negative number -.098.

Step 3 Length compensation

If you find your cut dimension is too long or short you can compensate for this error without having to rezero your counter. On the counter you have a * key. When you press this key twice you will get zero reading. You may now from this zero reading adjust +/- the length of error.

Note: You will only be able to move the feeder 10" with this value displayed.

Note: If you are using the multiple stroke features, divide the blade thickness for multiple strokes accordingly.

Step 4: Setting up length for cut

While reading the DRO turn the adjusting hand wheel clockwise until desired length is obtained and displayed on the LCD readout.

Example: The length needed is 7.125" the adjusting wheel was turned until the DRO red 7.125.

Note: The encoder is very sensitive, so take care when you release the adjusting wheel that the length does not change.

Step 5 Start cycle

Tighten the handle locking knob securely. Taking note that the length does not change, while tightening.

Place the cycle selector switch to the automatic position.

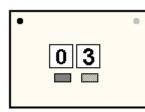
Turn the vise position to the backward position (switch is located on the lower control panel right hand side). When this switch is activated, the vise will move to the stop, take note the length does not change.

Load stock and start cutting (See cutting in automatic section). During the cutting cycle the speed of the feeder vise forward and backward cut may be adjusted to suit your needs.

Dake will not be responsible for any parameter changes made by the customer to this unit.

MULTIPLE STROKE PROGRAMMING

Most automatic machines on the market today offer multiple strokes indexing for longer piece part cutting. These multiple indexing features normally allow the indexing up to 9 individual strokes. The Dake Euromatic optional multiple indexing, is a simple electronic push button with analog programming, with function LED, to let the operator see where the machine is at, during the feed cycle. The limits of this counter are extreme, allowing you set 0 - 99 individual indexes. This wide range gives the machine the capability of cutting lengths up to 1980 inches long.



PROGRAMMING FOR MULTIPLE INDEXING

A: Three things that must be determined before programming for multiple indexing.

1. Length of cut needed. How many equal strokes must be carried out to achieve this length Example: The length of cut needed is 42.75". We know a single maximum feed index is 20". The length we need will require us to index the piece 3 times.

2. Now that we have established that 3 indexes are needed, we divide our length by 3. In the example our length is 42.75" divided by 3 gives us a length setting of 14.250"

Note: You may be tempted to feed the part at a shorter length, thinking it will feed faster at a short stroke. Example: The length needed being 42.75" indexed 6 times at 7.125" With the variable feed speed adjustments, this will allow you to feed longer lengths at very quick speeds, meaning 3 long indexes will happen in less time than 6 short indexes.

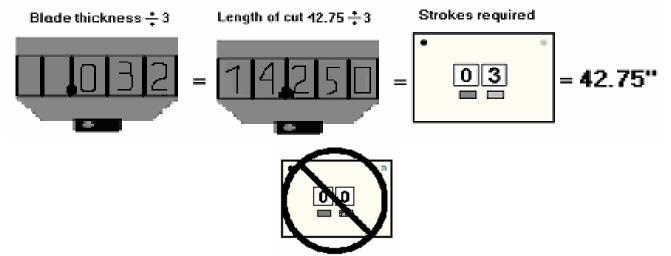
3. Last we must figure what the true blade thickness is. This should be done by checking the blade kerf with a caliper. The example we will use here is a blade thickness of 0.096". Knowing we must index our part 3 times to accomplish

our length, we must divide our blade thickness by 3 times, giving us a blade thickness of 0.032" This is programmed into the equation as described in the DRO length set up chapter.

This is programmed into the equation as described in the DKO religin set up chapter.

TIP: A shallow test cut into a scrap piece of material, then checking this cut with a caliper, will give you an accurate measurement. This will show the thickness of the blade, plus any run out that may occur. All blades will have a certain amount of run out, and this gives you the most accurate blade dimensioning. This example is shown in the illustration below.

NOTE: A parameter of at least one must be entered into the multiple index counters, for the machine to cycle in the automatic mode. If machine does not feed, make sure a digit is entered.



CUTTING IN THE AUTOMATIC MODE FOR THE 370PP SETTING THE PIECE COUNTER

- A: Power up the machine.
- B: Place selector switch into the semi-auto position (hand symbol)
- C. Place vise position switch (switch on the lower control panel, far right side item Q on page 9) to forward.

CAUTION!!!

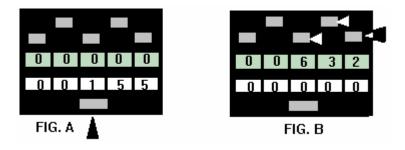
This is very important. If this is not done, the feed vise will slam back and continue back until the end of the cylinders stroke, when lock bolt is loosened. This may cause severe damage to the feeding cylinder, and possible injury to the operat

D: Loosen the large lock handle on the feed cylinder, and set your length of cut. Please read the section on setting your length with the DRO section before proceeding.

E: With your length set, adjust your vises as described in the vise set up section.

F: Adjust your head positioning as described in the head limit section.

G: On the piece counter, clear out the previous number that has been cut. Press the lower centered button to clear this number out. See graphic A this page.



H: Enter into the counter the number of parts you need to cut. (If you run out of stock before this amount has been met, the machine will shut off) See figure B

I: Example: Clear counter. Pressing individual buttons enter the number to be cut which shown here is 632 pieces.

I: Place your material in position for cutting.(If vises are clamped turn off the security key) Move the material up to the blades path Keep the material as close to this point as possible, this will be your first cut piece. **No face cut will be made.**

K: Switch cycle selector to automatic mode.

L: Switch the vise position switch on lower control panel to backward.

M: Select speed.

N: Close head feed flow control valve.

O: Check setting on motor protection, that it is set correctly. (If machine does not start check the reset button on blade protection device.) Turn the security key to the ON posit

P: Press green start button. There will be a slight delay before machine starts. This is a safety feature built into the machine.

Q: Adjust head feed flow control.

R: Adjust your coolant flow.

S: Adjust the feeder speeds, forward and backwards. This allows you to adjust the rate of time it takes to feed the material in both forward and backward motion. **Do not set this feed rate excessive or damage may occur and tolerances may slip.**

WARNING!!!!!

Make sure head feed control is closed before starting cycle. Head could overfeed into the part if this is not followed, causing possible blade, or machine damage, or may result in personal injury.

These are the operations that will be carried out.

- 1. Feeder advances material.
- 2. Vises clamp part.
- 3. Motor starts, coolant flow starts and head descends.
- 4. Part is cut, coolant flow stops. Registers part a 1 piece cut.
- 5. Head returns to upper preset.
- 6. Main vise unclamps, feed vise clamps.
- 7. Feeds material forward and cycle repeats, until preset numbers have been cut or material runs out.

Set up for face cut

Follow the instructions listed above with the exception of material placement and cycle mode and feed vise position settings. The material must be placed under the blade, the thickness of the face cut wanted. When the cycle starts, the cycle switch must be in semi-automatic. The feed vise position switch must be set in the forward position. Once the cycle start button has been pressed, turn the cycle mode switch to the automatic position and the feed vise position switch to the rear position. Now the machine will complete the automatic program after making your face cut.

Note: Failure to follow the above procedure may result in the first cut piece being out of tolerance.

OPERATIONAL AND CUTTING TIPS

Blade Tips

A: Always inspect blade before installing on machine. If questionable don't use. 370 S 370 S L 370 PP 370 PP L

B: Check gullets of the blade. Check teeth and surface of blade. If a chip is packed or welded in the gullets do not use, a blade in this condition will "thump" each time the blade passes through the part and could cause breakage. This condition normally is evident when an over feeding conditions exists or when a blade is too fine for the material. The side of the blade should not have any type of smear or build up on it. This happens when you cut too slow (some material like aluminum will do this but will not affect the blades performance)

C: Always remove the back lash from the blade.

D: Always cut with coolant if possible. It is better to use too much coolant than not enough, it is better to mix your coolant on the heavy side. This way you can add plain water to bring it up to level. Plus the rust inhibitors have a better chance to work.

E: Select your blade properly. Using your calculator or contacting your blade supplier. If you are cutting tubing and are having a problem with chatter, go to a finer tooth. Rule of thumb if you have to change blades or go to a finer tooth for tubing. For solids use a heavier tooth blade.

F: Keep your blades sharp. Don't squeeze a few more cuts out of a dull blade. This may damage the blade and your part. It also puts undue stress on the machine.

G: Always have your blade sharpened by a qualified professional. A cheap regrind will not give you good results. If you need a blade resharpend and do not know of a reputable business, contact Dake. We will be happy to refer you to someone.

H: Never use a blade smaller or larger then stated in our specifications. Always use a blade with the correct pin hole spacing and arbor size.

Cutting

A: Watch the chip. This will tell you all you need to know. A curly, silver colored, cool chip is what you want. If Chip is different from this description change blade speed, head feed speed, or blade. Also make sure you have a sufficient supply of coolant flowing on the part.

B: If the blade bucks or chatters, check your blade for conditions described above.

C: On material you have not cut before, make trial cuts. Always start out at a slow speed. Increase from here until it sounds smooth cutting, at the fastest possible rate.

Operational

A: All doors and covers must be closed before machine will operate.

B: If machine stops in the cut you are in blade protection shut off mode. Check the following. Head feed rate to high, incorrect blade (too fine), or the blade is dull. Correct problem and press the reset button on blade protection device, to restart operations.

C: Always set the vises correctly.

D: Some material that is an unruly shape may require fixturing.

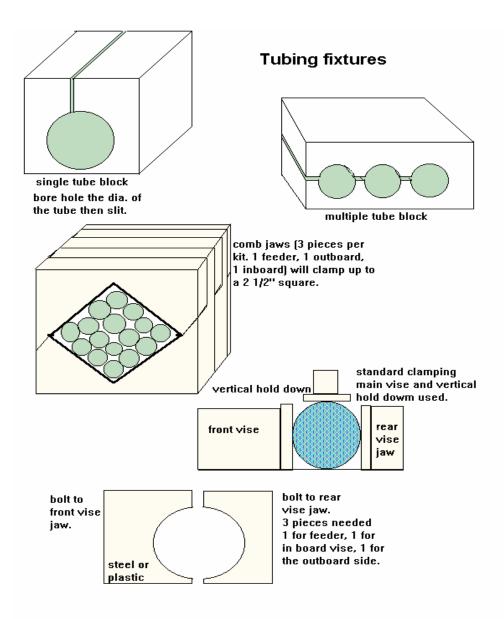
E: If bundle cutting round stock with out comb jaws, tack welding the end of the bundle will prevent parts form spinning.

F: Thin wall tube may be crushed when clamping. A block with a hole bored through it then slit length wise, will hold the tube with out crushing it. See next page for examples.

G: If you want to continuously feed one length after another, simply tape the pieces together end for end.

Always operate machine in a safe manner. Safety first to prevent personal

Injury Do not misuse this machine!!!!!!



These are only examples of different types of fixtures, Dake does not manufacture these.

HEAD CHANGE INSTRUCTIONS (Initial set-up and adjustments)

If you have purchased the optional ferrous or non-ferrous cutting head for your machine, there may be a few modifications needed for your machine. These modifications should be needed only once, during your initial set up.

GUARD MODIFICATION

If your machine was purchased as a ferrous machine, your Plexiglas guard will need to be relocated. You will need to unbolt the guard from its mounting, and shift the guard over to the right approx 2". New holes (in hood brackets) will need to be drilled to fasten this in its new position. The reason for this modification is due to the fact, the mounting plate and spindle cap extends out from the head farther than ferrous head.

If you are installing a ferrous head onto a non-ferrous machine, this is modification may not be necessary. If it does require moving the guard, complete the steps above only to the left.

INSTALLATION TIPS

A. Remove blade from cutting head before removal

B. Always mark the gib blocks when removed from head, to indicate where they came from. **Example:** Left rear, right rear, side.

Note: Always place these gib blocks in safe place to prevent damage to the gib blocks.

C. If changing heads will be done frequently, quick disconnects for the electrical may be installed. Each time the head is to be changed, the motor must be unwired and then rewired when the other head is installed. To eliminate time and the need for an electrician to complete this task, a short length of cord with a quick disconnect plug may be wired to each motor. A cord from the machine will have a mating plug attached to it.

When ever a head is changed a simple twist of the plug and the motor is disconnected.

Note: If this system is used, make sure the plugs on the heads are wired for proper rotation. Clockwise for the non-ferrous and counter clockwise for the ferrous head.

D: Always store the unused head upright and in a safe location.

HEAD REMOVAL

WARNING!!!!! THE POWER AND AIR MUST BE LOCKED OUT BEFORE PERFORMING THIS PROCEDURE.

Step 1: Guard removal (Power must be off, and locked out)

A. Open the Plexiglas hood and safely hold it open. Having a helper or using a hoist to hold the hood open, remove the clips holding the gas shocks to the hood. Lower the hood.

B. Lock the head in place (approx. half way down the column) using the upper and lower limit cams. Bring these cams to a setting where the upper and lower limits both are being activated at the same time. This will hold the head while you disconnect the air line.

C. Remove any tubing, wires, etc. Remove the way oilier tubing from head fittings, and anything that runs over the top of the hoods brackets. Remove hood limit switch if applicable.

D. Remove the mounting bolts and remove the hood from the machine. Set it in a safe location.

WARNING!!!!! THE POWER AND AIR MUST BE LOCKED OUT BEFORE PERFORMING THIS PROCEDURE.

Step 2: Replacing the gib plates. (Figure A on page 32)

A. Disconnect the wiring from the motor. (If quick release plug is used, disconnect it now) (ref. 1) B. Remove the rear column cover plate, from the column casting. Place the six screws out of the way. (Two different covers are used for ferrous and non-ferrous. The plate furnished on the machine will work for either head, unless you choose to connect a chip collection

system for the non-ferrous head, using a ferrous cover plate. This plate will need to be modified, adding a discharge tube connection. (Ref 2)

WARNING!!!!! ONLY A SLING APPROVED BY OSHA AND THAT IS RATED FOR THIS WEIGHT SHOULD BE USED.

C. Move all tubing and wiring clear of the head, and CAREFULLY AND SAFELY place a sling or strap around the head. This sling will be used in lifting the head from the column, so take care in placing this strap.(Figure B ref 3)

Step 3: Removing the gib plates. (Figure B ref 5/6)

A. With the head securely strapped, loosen and remove booth head lever cams from the "T" slot in the head. (Ref 4) **B**. Remove the set screw from the lower lock nut on the head feed cylinder piston. (See gib plate detail drawing. ref A) If this screw and nut are behind an obstruction, remove the upper and lower air lines, from the fittings on the head feed cylinder. Place a compressed air nozzle in the upper or lower fitting on the cylinder, and move head up or down to clear obstruction. (Move hoist with the strap to allow movement.)

C. Remove the lower locking nut from the head feed cylinder piston. (Ref b on gib plate detail drawing)

D. With the head disconnected from the head feed cylinder, gently lower the head down using the strap and hoist. Lower until head has cleared the piston.

E. Eight allen head bolts hold the two gib plates to the head. From the back of the column remove these eight bolts. (Ref C on gib plate detail drawing) Note: These bolts may be quite tight. An impact wrench may be useful for this.Note: Step 6 may need to be repeated to raise or lower the head to allow access to the bolts.

 \mathbf{F} . With the eight bolts removed, carefully remove the two gib plates from the machines, and place in a safe location where no damage will come to them. (Mark left top / right top for future installation)

Step 4: Removing the head.

A With all tubes, wires, etc. clear from the head, pull the head away from the column, (figure C ref 7) using a strap and hoist. (Fork lift or engine hoist can be used)

Warning!!!!!

Head may be difficult to balance. Take caution when lifting the head

B Using extreme care set the head in a safe location in an upright position.

REPLACEMENT HEAD INSTALLATION

Installing head onto the column

A. Wipe all way surfaces clean of debris. Wipe the rear machined surfaces and oil galley rings of the head, clean of debris.

B. With the replacement head carefully strapped and hooked to a hoist etc., lift the head to the column, and insert between ways (figure D).

Note: When placing the replacement head keep it low on the column, below the cylinder piston threads.

Installing the gib plates

A. The gib plates that came with this head may need some grinding or adjusting. This procedure is a one time operation, and will not be needed on future installations.

B. Bolt the two gib plates to the back of the head in reverse order from above. (Figure E ref 5)

C. Attempt to wobble these gib plates while on the machine. If they are tight, grasp the head and try to move it side to side. Watch for gaps at the ways when moving the head side to side.

D. If there is slight movement, tighten the gib blocks up a half turn at a time. Adjustments are made with the screws threaded into the top of the gib block, as shown in gib plate detail drawing ref e. (The two rear plates will show gaps when the head is moved front to back, (Adjust the back gibs) the gib plate on the side will be responsible for side to side movement. (Adjust these gibs for side to side movement)

Note: Refer to gib block adjustment.

E After any gib block adjustments are made, the head must be tested for free travel. Using the strap raise and lower the head on the column and check that the head travels the full length of the column, without binding or jerking. There will be a

certain amount of jerking without the cylinder connected, this is normal. If the head jerks excessively future adjustments will be needed.

Note: If cylinder piston restricts your from moving the head the full length of the column, remove the bottom air line from the cylinder, using compressed air, blow into the fitting and the piston will retract.

F. If the gib blocks are too tight and can not be adjusted, it is recommended that the gib block faces be surface ground. (Gib detail drawing ref d) After they are ground check fit, and adjust as needed or surface grind again, until gibs can be adjusted.

G. Run the head feed cylinder piston through the head casting mounting hole a install the locking nut. (Figure E ref 6) Tighten securely and replace the set screw in the lock nut and tighten.

H. With the upper and lower tube lines removed form the cylinder and using compressed air run the head up and down on the column. The head will now travel without jerky movements or hesitation. If these conditions still exist readjust the gib blocks.

I. Replace the head limits cams into the "T" slots in the head. (Figure F ref 4)

J. Connect power back to the motor.

K. Replace rear column cover.

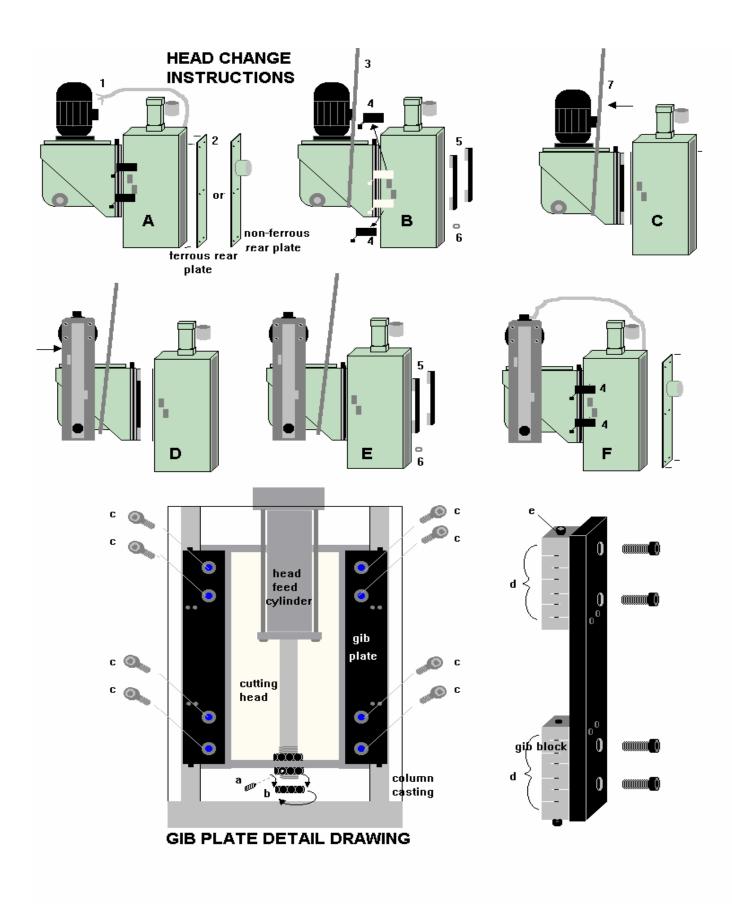
L. Reconnect any tube lines, wires, etc., that may have been removed before removing the head.

M. Reinstall Plexiglas hood in the correct position, and connect gas shocks, limit switch, etc. (If hood modifications have not yet been made, do this modification now.)

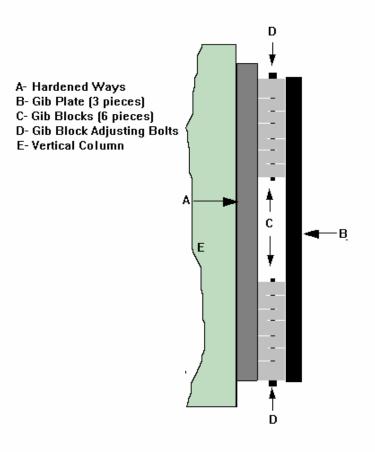
Note: Once these adjustments and modifications have been made, and parts are replaced in original position, these adjustments / modification will not be needed again.

Once these adjustments are made it should be a simple change.

- 1. Remove hood.
- 2. Disconnect electrical to motor and tubing etc.
- 3. Remove rear cover unbolt gib plates, and cylinder.
- 4. Remove head, put on replacement head.
- 5. Install gib plates, replace nut on cylinder piston.
- 6. put on rear cover, rewire, and connect all tubes.
- 7. Replace hood.
- 8. Start cutting!



GIB BLOCK ADJUSTMENT



1. Remove rear cover plate from vertical column.

2. Locate the 6 cast iron gib blocks mounted to the 3 gib block plates, 2 located on back of column, 1 located on the left hand side of column.

3.To tighten gibs turn adjusting bolts clockwise. (half turn at a time, this compresses the gib blocks)

4. Tighten all blocks equally, until head travels smoothly on column.

5. To square cutting head, loosen and tighten blocks accordingly.

6. NOTE: Keep ways oiled.

EUROMATIC 370 PP / S MAINTENANCE SCHEDULE FERROUS HEAD

370PP /S

A: Gear box. Maintain safe level of oil. Oil should be visible through sight glass on the right side of the gear box when machine is running. Note: Oil will appear foamy during operation. When running at high speed oil may weep from filler cap. This is normal and will subside once machine has expelled out the excess oil in gear box.

B: Air oiler Located on the air regulator. Air must be dry and clean. Use appropriate measures to insure this, before it enters the machine.

WARNING!!!!! LOCK OUT AIR SUPPLY TO THE MACHINE BEFORE REMOVING OIL RESIVOIR PLUG.

C: Head feed cylinder. The oil reservoir is mounted into the cylinder. The reservoir is clear and you can visually inspect the amount. When oil level is approximately a depth of 1/4" oil must be added **To fill reservoir, remove brass cap on top and add oil into the reservoir until full cycle head to bleed.**

D: Chip drawer. Located behind the front access door, This drawer pulls easily out for cleaning.

E: Coolant. This pan is located under chip drawer. The coolant should be kept clean. When coolant needs changing, remove the drain plug from the pan.

F: Way Oiler. This reservoir is on the back of the column. This reservoir should be kept topped off. At the beginning of each shift, this should be pumped twice to maintain good lubrication for the ways.

G: Gib blocks. This acts as an adjustable guide for the gear box. If adjustment is needed See the gib block adjustment section in this manual

H: Vise gib can be adjusted by loosening the lock nuts and turning the set screws equally. This should be done when ever vise shifts left or right when clamping.

I: Chip brush. Replace as needed.

J: Excessive backlash. This can be reduced, by removing the spindle shaft cover plate on the lower right hand side of the gear box. Using the set screws in plate, loosen mounting bolt and tighten set screws tightening these set screws will pull the plate away for gear box and allow removal of the plate. With plate removed tighten spindle nut and replace plate in reverse order. Proper backlash will be approximately. 1/16" to 1/8" play in spindle with blade on the spindle.

		1,100111	chance being	Junio		
Item	Model	Daily	Weekly	Monthly	100 Hours	6 Months
Gear Box Oil	370 PP / S				change after first	change
Air Regulator oiler	370 PP / S			check / add		
Head Feed Cylinder Oil	370 PP / S	add as needed				
Coolant Water based	370 PP / S		check / add	change		
Chip Drawer	370 PP / S	empty				
Gib Adjustment (Head)	370 PP / S			check		as needed
Vise Gib Adjustment	370 PP / S			check		as needed
Way Oiler	370 PP / S	2 pumps	check / add			
DRO Magnetic Strip	370 PP		wipe / clean			
DRO Reader Adjustment	370 PP					check / set if needed
Lube Types	Head Feed Cyli Hydraulic Oil	nderDTE 24	I		11	
Gear Box- SCH634 Synthetic	Way Oiler-Ligh	t Weight Way Oil				
Air Oiler - Tool Oil	Clean DRO Stri	p-Clean Dry Rag	1			

Maintenance Schedule

EUROMATIC 370 PP / S MAINTENANCE SCHEDULE NON-FERROUS HEAD

370PP/S

A Gear boxThe gear box does not require any oil. The horizontal spindle shaft has zerk fittings provided for lubrication. The spindle should be greased with a high quality, high temperature grease.

B Air oiler Located on the air regulator must be dry and clean. Use appropriate measures to insure, before it enters the machine.

C Head feed cylinder. The oil reservoir is mounted into the cylinder. The reservoir is clear and you can visually inspect the amount. When oil level is approximately depth of 1/4" oil must be added

To fill reservoir remove brass cap on top and add oil into the reservoir until full Cycle head to bleed.

D Chip drawer Located behind front access doorThis drawer pulls easily out for cleaning. If a chip collection unit has been installed to the back of the machine, it should be emptied at regular intervals.

E Coolant pan is located under chip drawer. The coolant should be kept clean. When coolant needs changing, remove the drain plug from the pan.

F Way Oiler. This reservoir is on the back of the column. This reservoir should be kept topped off. At the beginning of each shift, this should be pumped twice to maintain good lubrication for the ways.

G Gib blocks. This acts as an adjustable guide for the gear box. If adjustment is needed see the gib block adjustment section in this manual

H Vise gib can be adjusted by loosening the lock nuts and turning the set screws equally. This should be done when ever vise shifts left or right when clamping.

I clean frequently any chips that build up within the vertical column.

J Belt tensioning should be done as needed.

BELT TENSION ADJUSTMENT

A: To adjust loosen the four motor mounting bolts. (Loosen slightly)

B: Using the adjusting bolt threaded into the block on the motor panel (H) adjust as needed.

C: Tighten motor mounting bolts securely.

Note: If you find no adjustment left in the threads, the belt may be stretched and in need of replacement. Belt tension should have approx. 1/4 - 3/8" deflection.

On occasion if adjustment is not possible, loosen the motor mounting bolt and reposition the motor and try adjustment.

Item	Model	Daily	Weekly	Monthly	100 Hours	6 Months
Spindle grease	370 PP / S		as needed			
Air Regulator oiler	370 PP / S			check / add		
Head Feed Cylinder Oil	370 PP / S	add as needed				
Coolant	370 PP / S		check / add	change		
Chip Drawer	370 PP / S	empty				
Gib Adjustment (Head)	370 PP / S			check		as needed

Maintenance Schedule

370 S 370 S L 370 PP 370 PP L

Vise Gib Adjustment	370 PP / S			check	as needed
Way Oiler	370 PP / S	2 pumps	check / add		
DRO Magnetic Strip	370 PP		wipe / clean		
DRO Reader Adjustment	370 PP				check / set if needed

Lube Types	Head Feed CylinderDTE 24 Hydraulic Oil
Spindle Grease -Hi Temp.	Way Oiler-Light Weight Way Oil
Air Oiler - Tool Oil	Clean DRO Strip-Clean Dry Rag

TROUBLSHOOTING GUIDE FERROUS & NON-FERROUS HEAD

PROBLEM	THINGS TO CHECK	SOLUTION
Blade chatters while cutting	Blade pitch, gullets are packed	Replace blade, regrind, clean gullets
Part moves while cutting	Check how parts are clamped, rear vise	Reclamp or fixture as needed
Par has hanging burr	Part distorted while clamped, anti burr vise	Adjust anti burr arm or outboard vise
Part has burr on exit of cut	Lack of support on short pieces	Add solid wear plate to support part
Rough or scored finish	Blade dull, incorrect blade, tooth missing	Replace blade, Reclamp part
Blade Breaks	Backlash, dull blade, part moved in vise	Replace blade, Reclamp part
Motor/Gear box noise	Low oil, excessive backlash	Add oil, adjust backlash
Head is jerky	Binding components, air in system	If oil is full, bleed head cylinder
Motor hums or runs slow	Check Power source fuses, hood interlock	Replace fuses, close hood
Motor runs backwards	Leads on incoming power are incorrect	Have qualified electrician make a change
No power to the machine	Check power source fuses, hood interlock	Replace fuses, close hood
Vises do not operate or are slow	Incoming air pressure, regulator pressure	Increase air pressure, set higher
Head stops down feeding	Lack of air, flow control valve adjustment	Increase air pressure, adjust valve
Head returns slow	Gib strip adjustment, air return valve closed	Adjust gib, open-air return valve more
Tolerances slipping	Feeder too fast, blade, overfeeding	Slow feeder, adjust blade thickness
Unsquare cutting	Wrong, dull blade thickness adjustment	Slow feeder, adjust blade thickness
Will not feed material (370PP)	Multiple stroke counter, vise position reversed	Multiple stroke set at 0, switch forward
Motor runs hot	Incoming voltage too high	Power should be +/- 10%
Head crashes down	Low or no oil in head feed cylinder leakage	Add oil to cylinder as outlined repair leak
Machine stops (370PP)	Blade protection stops operation	Correct problem and reset calibration unit
Machine will not restart	Security locked out, piece counter not cleared	Turn key to on position, clear counter
Machine will not start	E-stop activated, out of stock	Reset E-stop, check feed vise clearance

* Parts may come off hot, this is normal with non-ferrous cutting.



DAKE COLDSAWS INSTRUCTION MANUAL AND PARTS LIST

SECTION II – Electrical Diagrams



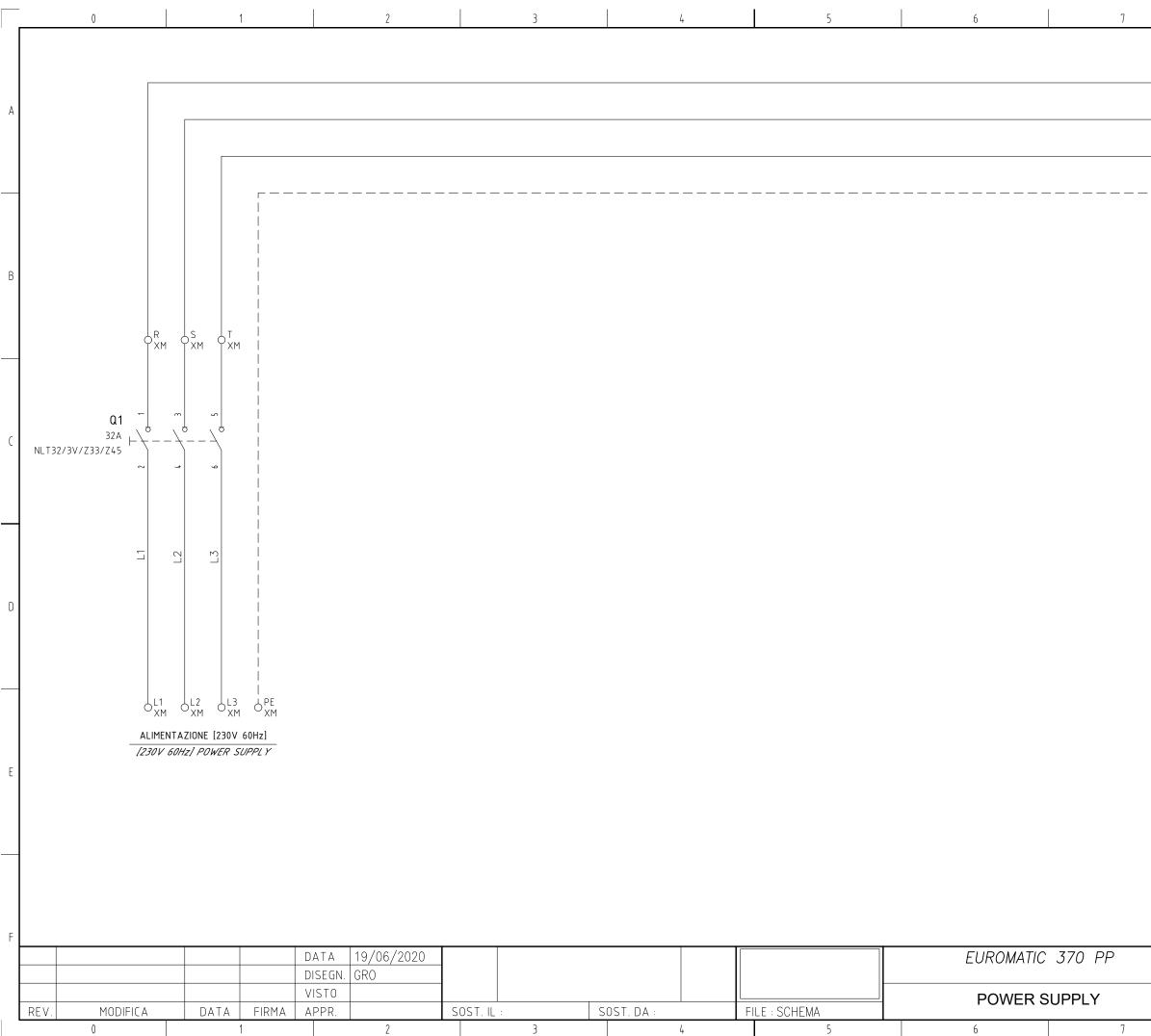


FOR MODELS 370 S 370 S-L 370 PP 370 PP-L

MODEL: _____

SERIAL NUMBER: _____

DATE PURCHASED: _____



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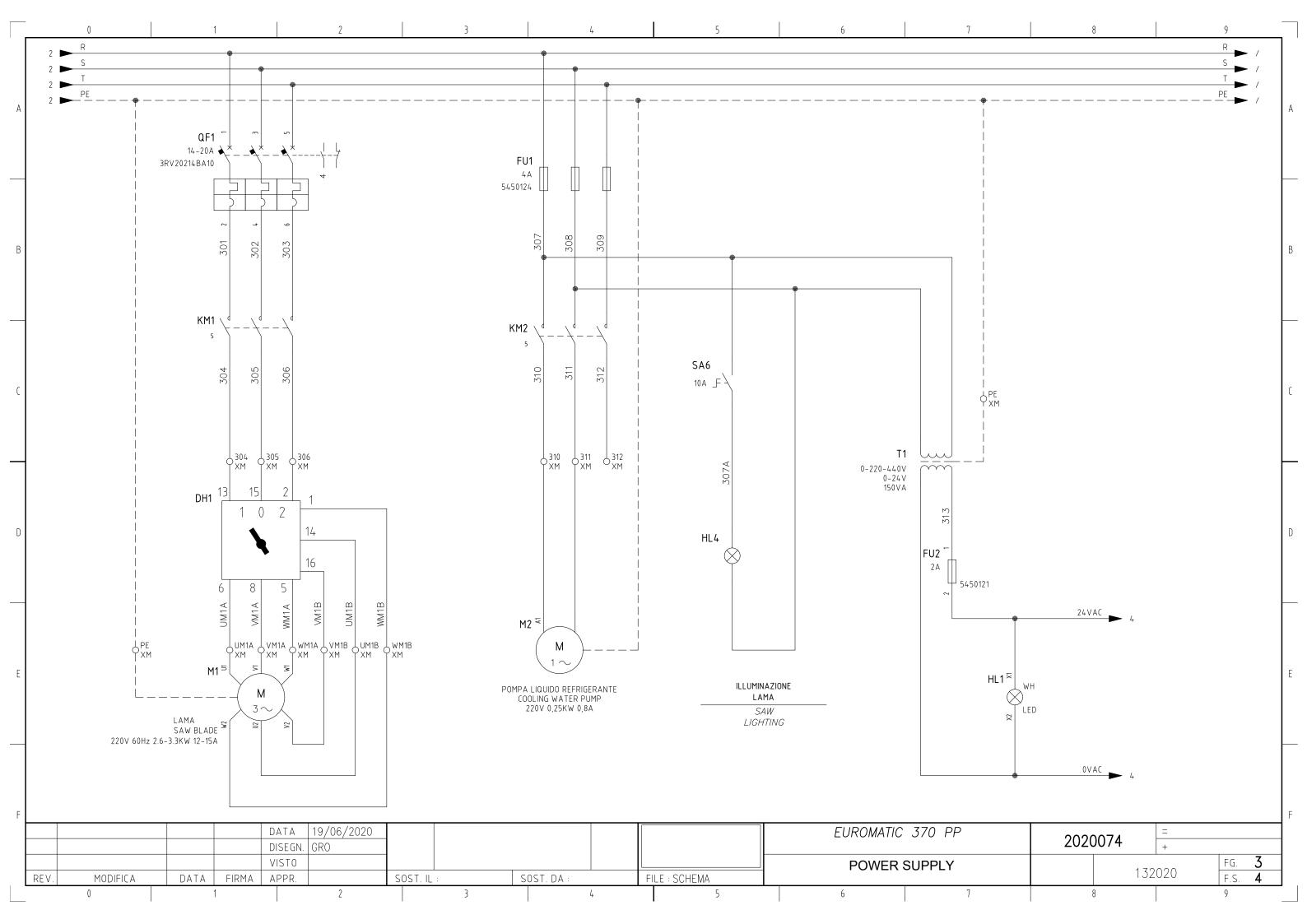
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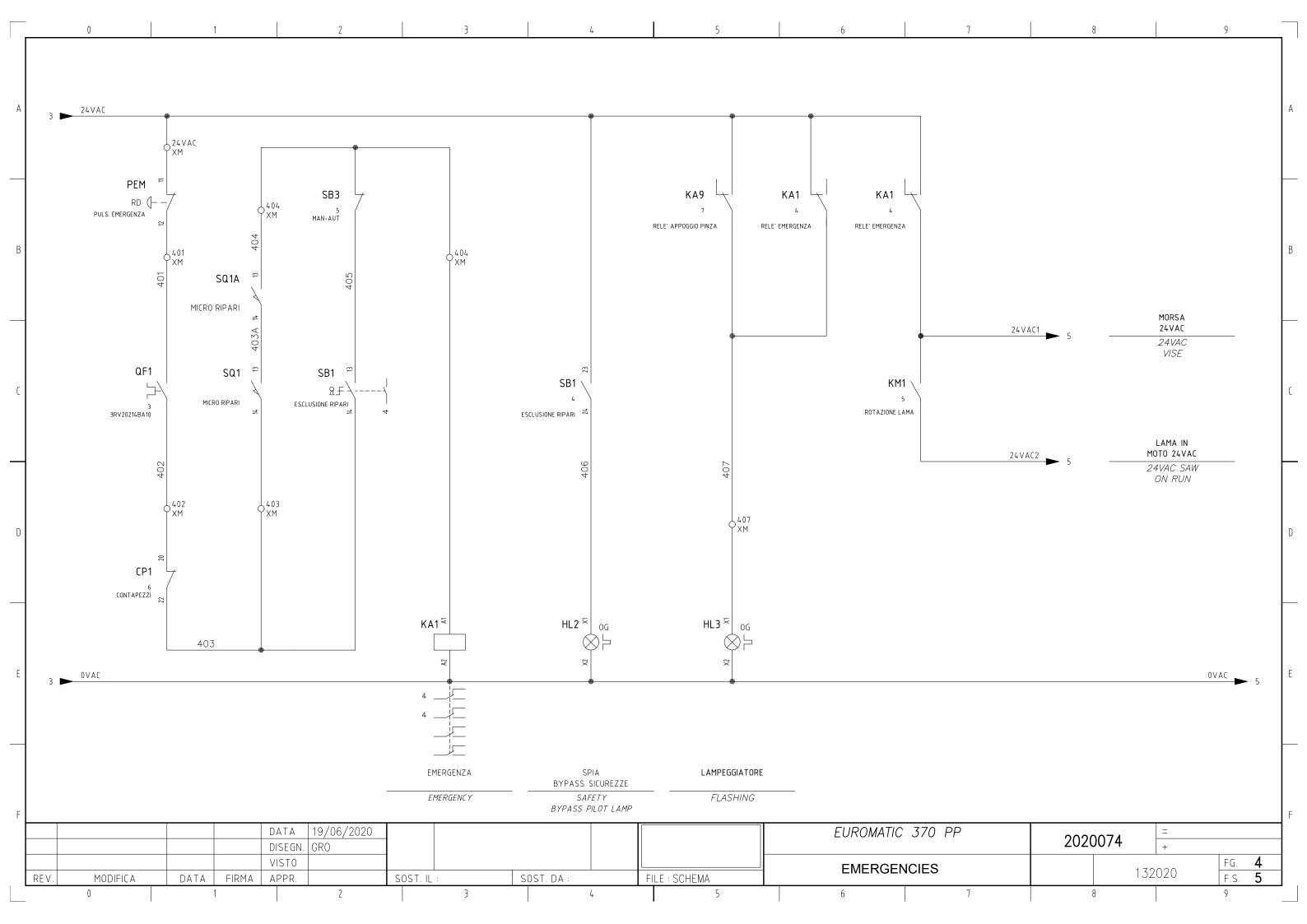
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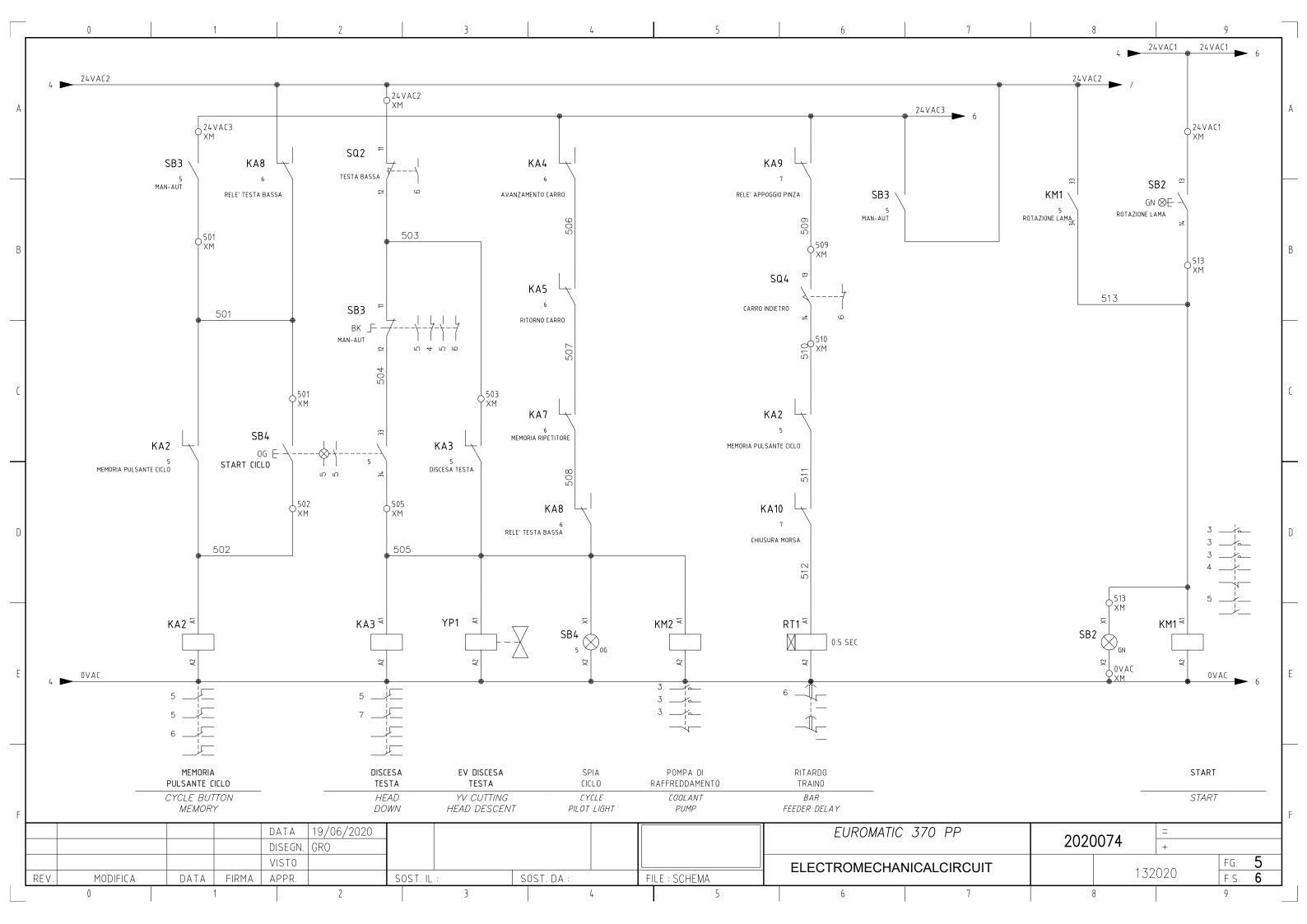
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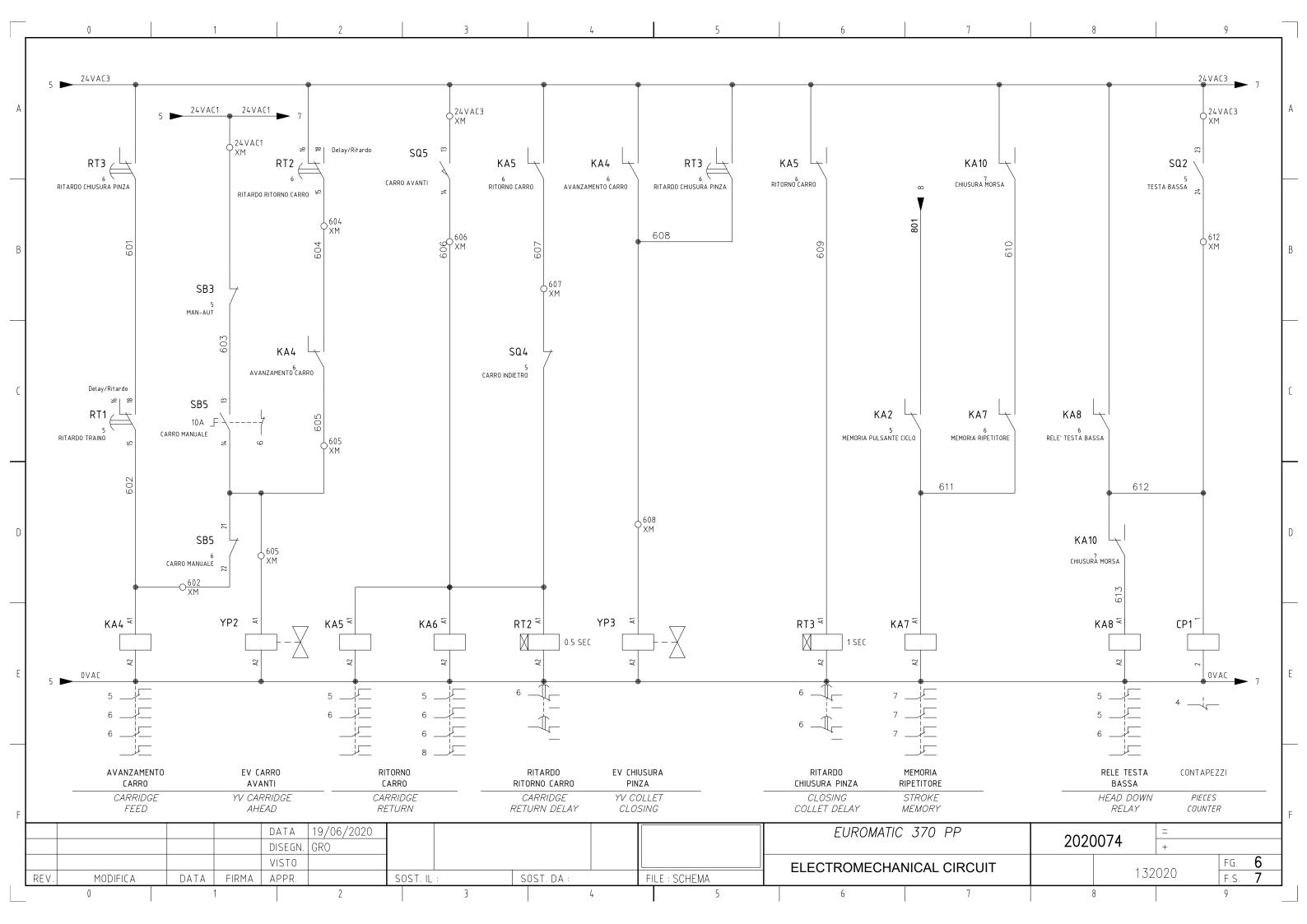
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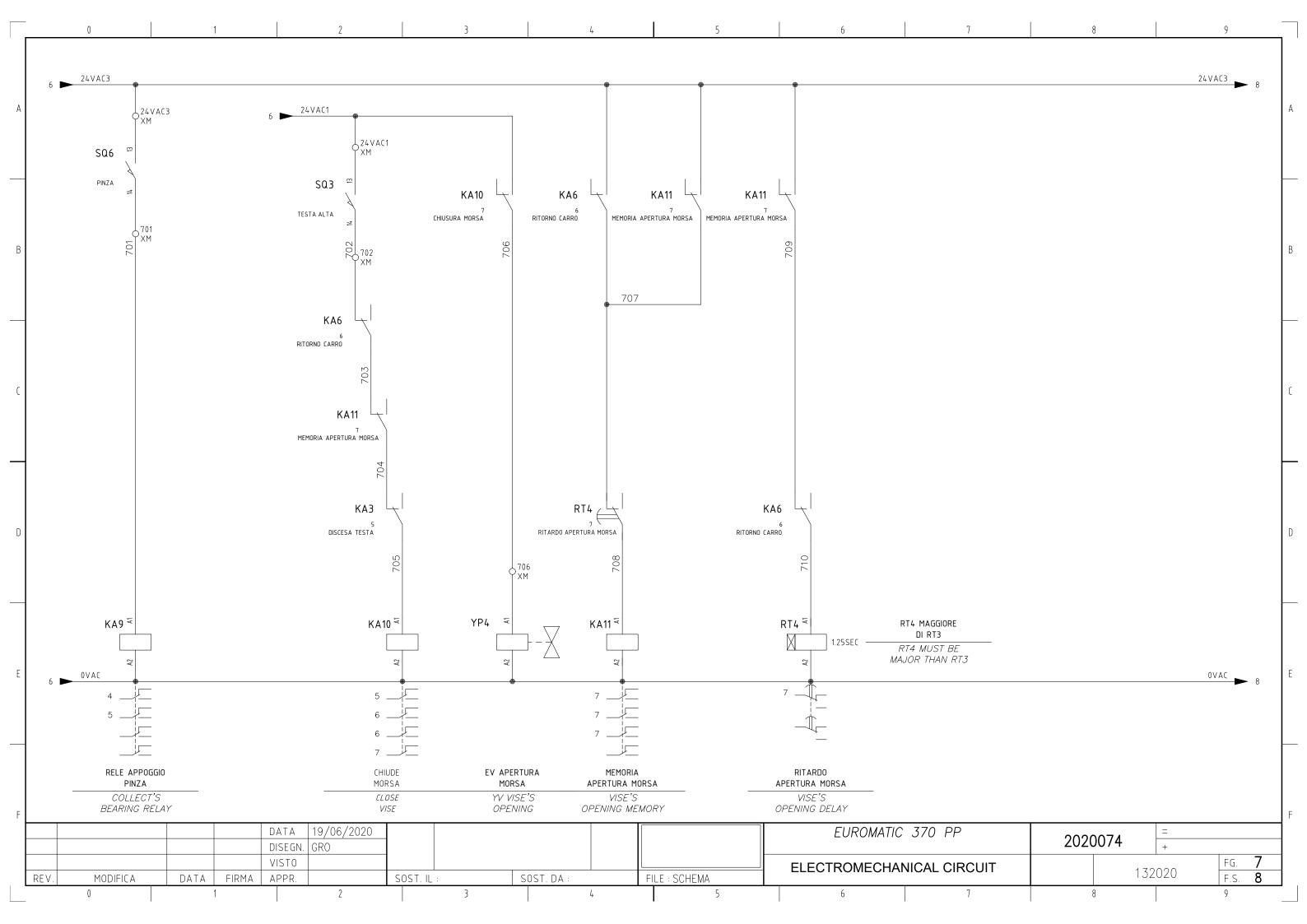
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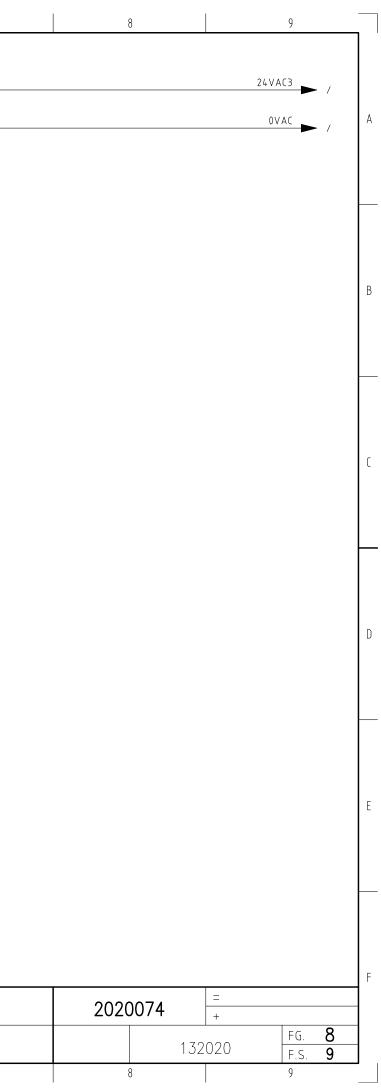




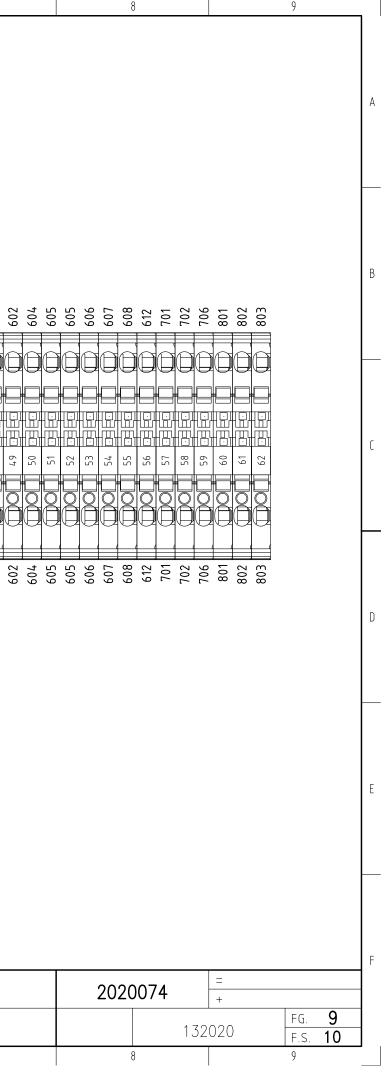




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ltem	Туре	Description	Manufacturer
CP1	2.100.110.061	PIECE COUNTER TYPE BVa15.11 24 VAC 50/60HZ 119mA	FR ITZ KUBLER GMBI
U1	5450124	PMX 10X3 UR FUSE 3P	Wimex
	1421004	CH10 GG 4A FUSIBILE 10,3X38MM	IT AL WEBER
-U2	5450121	PMX 10X1 UR FUSE HOLDER 1P	Wimex
	1421002	CH10 GG 2A FUSE10,3X38MM	IT AL WEBER
HL4		Luminous signaling	
KA1	7760056101	D-SERIESDRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Weidmu11er
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KA10	7760056101	D-SERIESDRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
(A11	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KA2	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Weidmu11er
	7760056 107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KA3	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Weidmu11er
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KA4	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KA5	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Weidmu11er
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
(A6	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Weidmu11er
	7760056 107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
(A7	7760056101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15 µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
(A8	7760056101	D-SERIESDRM, relay, Number of contacts: 4, Changeover contact with test button, AqNi 0.15µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
(A9	7760056 101	D-SERIES DRM, relay, Number of contacts: 4, Changeover contact with test button, AgNi 0.15µm Au, Rated Voltage: 24 VAC, Continuous current 10 A, Plug-in connection	Wei dmuller
	7760056107	D-SERIES DRM, Relay socket, Number of Contacts: 4, Changeover contact, Current: 12 A, Screw Connection	Weidmuller
KM1	3RT20261AC20	CONT.11KW,1L+1R,AC 24V 50/60HZ,SO VT	Siemens
KM2	3RT20151AB01	CONTJKW,1L,AC 24 V,SOO VT	Siemens
Q1	NL T32/3V /Z33/Z45	SWITCH DISCONNECT 32A-3P BOTTOM PANEL, SELF CENTERING LOCK	SONTHEIMER
QF1	3RV20214BA 10	INT.AUT.SO, 14-20A,VT	Siemens
RT1	850200240000	TIMED RELAY	Finder
	7760056107	D-SERIES DRM, Relay socket, Number of contacts: 4, Changeover contact, Current 12A, Screw connection	Weidmuller
RT2	850200240000	TIMED RELAY	Finder
12	7760056107	D-SERIES DRM, Relay socket, Number of contacts: 4, Changeover contact, Current 12A, Screw connection	Weidmuller
RT3	850200240000		Finder
(15	7760056107	D-SERIES DRM, Relay socket, Number of contacts: 4, Changeover contact, Current 12A, Screw connection	Weidmuller
RT4	850200240000	TIMED RELAY	Finder
N14	7760056107	D-SERIES DRM, Relay socket, Number of contacts: 4, Changeover contact, Current 12A, Screw connection	Weidmuller
SA6			
DAU	ZB4BD2	Black selector head for unit 022 with 2 fixed positions	Schneider Electric
٢1	ZB4BZ101	Single body contact block/1NO contacts with spring terminals	Schneider Electric
	26000200.144	Single Phase Transformer Sic F-UI 160Va P 160VA 0.230.400 S 160VA 0.24	Tecnocablaggi
ХM	1608620000	Modular passage terminal ZOU 6	Weidmuller
	1010200000	Modular terminal block and protective conductor WPE 6	Weidmuller

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ltem	Туре	Descr	ription				Manufacturer	Board	Sh	Qty
XM	1608510000	Modular	passage terminal ZOU 2.5				Weidmuller	= OG		44
	1632050000	Modular	passage terminal ZOU 4				Weidmuller			9
	1632080000	Modular t	terminal conductor protection	ZPE 4			Weidmuller			
	1608640000	Modular t	terminal conductor protection	ZPE 2.5			Weidmuller			

ltem	Туре	Description	Manufacturer	Board	Sh	Qty
CH1	L C 4HR42 4A C J	DIGITAL PULSE COUNTER 4 DIGITS RELAY OUTPUT	Panasonic	=PU	8	
DH1	KDG3H	Switch head	Schneider Electric	=PU	3	
	K2HOOSPL	Speed switch 20A 2	Schneider Electric			
	KZ18048L	Labels A 2-0-1	Schneider Electric			
HL1	ZB4BVB1	Body for pilot light with integrated 24V white LED	Schneider Electric	=PU	3	
	ZB4BV013	White lamp head for unit 022 with smooth lens with integrated LED	Schneider Electric			
HL2	ZB4BV18B5	Lamp body with integrated 24V orange LED	Schneider Electric	=PU	4	
	ZB4BV053	Orange lamp head for unit 022 with flat lens with integrated LED	Schneider Electric			
PEM	ZB4BS844	Red emergency button 040 for unit 022, press and pull	Schneider Electric	=PU	4	
	ZB4BZ 104	Single block contact block/2NC contacts with spring terminals	Schneider Electric			
SB1	ZB4BG2	2 Position key switch	Schneider Electric	=PU	4	
	ZB4BZ 101	Single body contact block/1NO contacts with spring terminals	Schneider Electric			
	ZBE10 1	Single contact block for circular push button 0 22 mm – 1NO with screw terminals	Schneider Electric			
SB2	ZB4BW333	Pulsating head with green illuminated wire for unit 022 with spring return with integrated LED	Schneider Electric	=PU	5	
	ZB4BVB3	Body pilot light with integrated green LED 24V	Schneider Electric			
	ZBE10 1	Single contact block for circular push button 0 22 mm – 2NO with screw terminals	Schneider Electric			
SB3	ZB4B 02	Black selector head for unit 022 with 2 fixed positions	Schneider Electric	=PU	5	1
	ZB4BZ 104	Single block contact block/2NC contacts with spring terminals	Schneider Electric			1
	ZBE10 1	Single contact block for circular push button 0 22 mm – 2NO with screw terminals	Schneider Electric			2
SB4	ZB4BW353	Pulsating head with orange luminous wire for unit 022 with spring return with integrated LED	Schneider Electric	=PU	5	
	ZB4BVBS	Lamp body with integrated 24V orange LED	Schneider Electric			
	ZBE10 1	Single contact block for circular push button 0 22 mm – 1NO with screw terminals	Schneider Electric			
SB5	ZB4B 02	Black selector head for unit 022 with 2 fixed positions	Schneider Electric	=PU	6	
	ZB4BZ 101	Contact block single body/contacts 1NO with spring terminals	Schneider Electric			
	ZBE102	Single contact block for circular push button 0 22 mm – 1NC with spring terminals	Schneider Electric			

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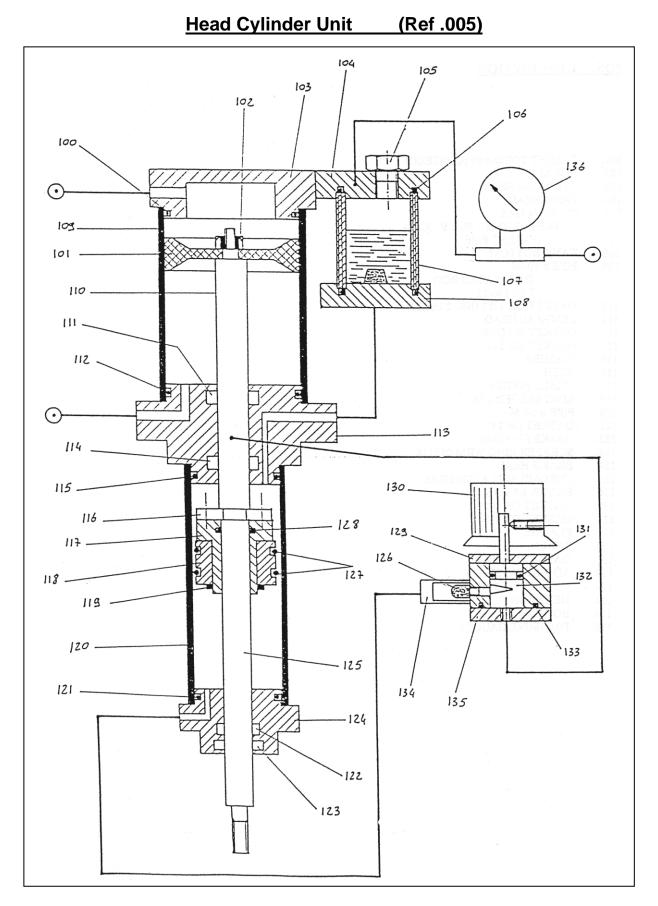
DAKE COLDSAWS INSTRUCTION MANUAL AND PARTS LIST

SECTION III – Parts List

FOR MODELS 370 S 370 S-L 370 PP 370 PP-L



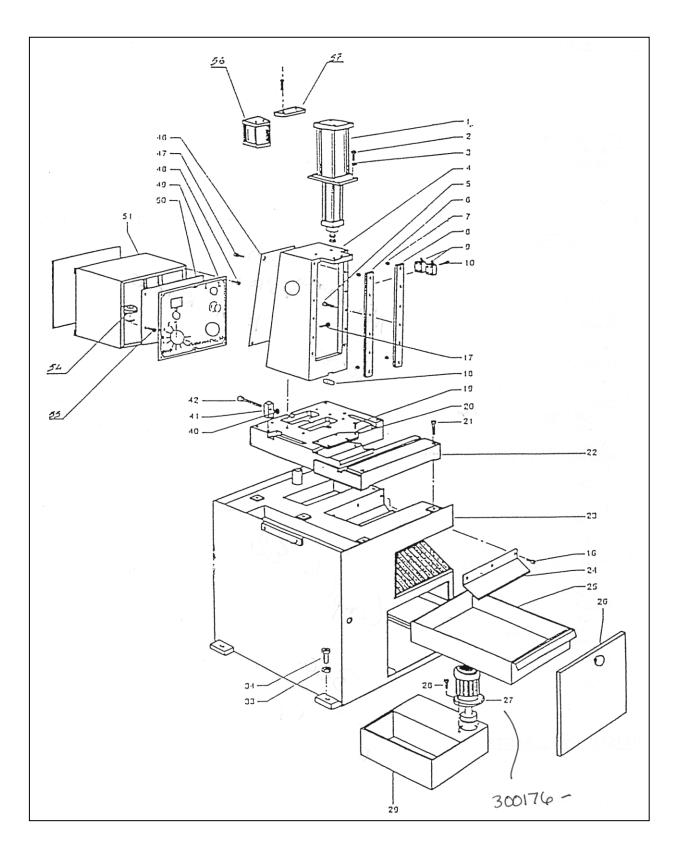




Head Cylinder Unit (Ref .005)

Pos. Number	Part No.	Description	Specification
101		Gasket	TDUO 80 (CORTECO)
*102		Nut	M12
103		Cylinder Head	
104		Tank Head	
105		Plug ¼ gas	
106	11558	Gasket – 2 pieces	OR 4212
107	300273	Transparent Pipe	
108		Tank Bottom	
109		Pipe	80-86
110		Chromium Plated Rod	
111		Gasket	NI 150/22
112		Gasket – 2 Pieces	OR 4287
113		Central Head	
114		Gasket	N 118086
115		Gasket	OR 147
*116		Washer	
*117	000404	Bush	
*118	302164	Small Piston	
*119		Ring Seeger	28
120		Pipe	50-56
121		Gasket	OR 147
122		Gasket	N 118086
123		Scraper Ring	WRM 086118
124		Brake Head	
125		Chromium Plated Head	
126		Filter 1/8 Gas	
127		Gasket	OR 147
128		Gasket	OR 3087
129		Flange	
130		Panel	
131		Gasket	OR 3068
132		Adjusting Shaft	
133		Gasket	OR 2106
134		Hexagon	
135		Bottom	
136		Pressure Gauges	
	300155	Cylinder Repair kit	
	301332	Cylinder complete	
Kit	300155	Cylinder repair kit items 101, 106, 111, 112, 114, 115, 121, 122, 123, 126, 127, 128, 131, 133	

Bedplate Unit (Ref .008)

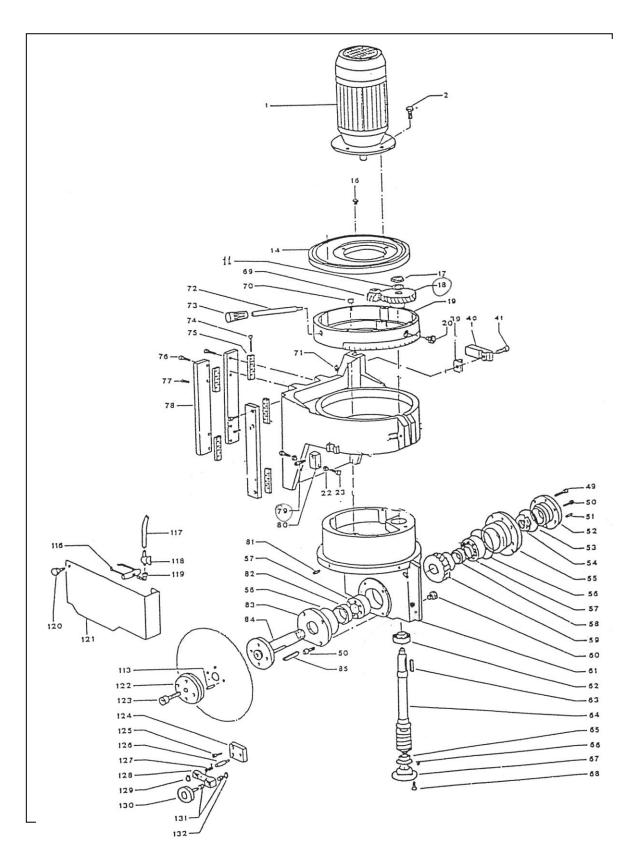


Bedplate Unit (Ref .008)

Pos. Number	Part No.	Description	Specification
1		Head Piston	•
2		Screw	
3		Washer	
4		Column	
5		Screw	
6		Left Guide	
7		Bush	
8		Right Guide	
9	300211	Limit Switch	
10		Screw	
16		Screw	
17		Screw	
18		Feather	
19		Screw	
20		Blade	
20	300201	Blade – Right Hand	
21	78824	Screw, Socket Head Cap	M12 X 1.75 X 110mm Long
22		Base	
23		Bedplate	
24		Chute	
25		Tank	
26		Сар	
27	300176	Motor Pump	
28		Screw	
29		Tank	
30		Rollers Chute Support	
31		Nut	
32		Screw	
33		Nut	
34		Sleeve	
35		Screw	
36		Grub	
40		Nut	
41		Vices Adjustment Block	
42		Screw	
46	300230	Exhaust Chute	
47		Screw	
48		Screw	
49		A Controls Panel	
50		Electric Panel	
51		Electric Case	
54		Nut	
55		Screw	
	300690	Complete Electrical Box	
	300692	Electrical Box Only	
	300824	Main Power Push Button	1SKRA DME25

Head Unit

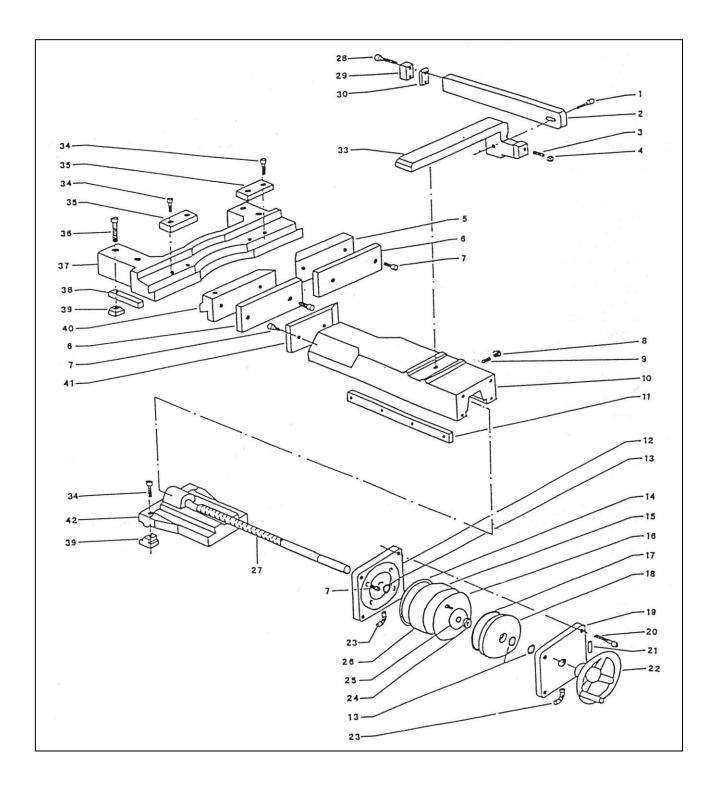
(Ref .002)



Head Unit (Ref .002)

Pos.	Devit	Description		Pos.	David	Description
No.	Part No.	Description		No.	Part No.	Description
1	300117	Motor 220 volt		71 72		Oiler
2 7		Screw	_	72		Head Rotation Lever
11	301336	Stopping Block Washer		73	300159	Screw
14	301330	Head Ring	_	74	300159	Gib (300197)
14		Screw	_	75	300197	Screw
17	300258	Nut (300706 will work also)	_	76	300161	Screw
18	300238	Gear (old 300675)		78	300162	Gib Flat
19	300239	Cover	_	78	300103	Screw
20		Oil Level Plug	_	80		Clamping Block
20		Head Bearing	_	81		Elastic Plug
22		Nut	_	82	300684	Bearing (Seal is part no. 300434))
22		Screw		83	300004	Cover
38		Head Cylinder	_	84	300435	Blade Shaft
39	301979	, T-Nut	_	85	301366	Feather
40	300202	End Stroke Flash – Cam		113	300436	Cylindrical Plug
40	300354	Screw, Handle (300612)	_	115	300430	Spout Breaking
41	300334	Bearing Pivot		117	300411	Rubber Pipe
43		Screw	_	117	300410	Cock
43		Pivot Screw	_	119	300410	Unit Collection
44		Closing Pivot		120		Handwheel
40		Protection Carter		120		Disk Repair
48		Stopping Ring		121	300437	Blade Flange
40	78809	Screw		122	300437	Screw
50	81572	Screw		*124*	300430	Brush Bearing
51	01372	Grub		*125*		Screw
52	301964	Bearing Cover		*126*		Bearing Pivot
53	5611	Sealing Ring – 231		*127*		Spring
54	301335	Self Locking Nut		*128*	300164	Brush Level
55	001000	Bearing Cover		*129*	300104	Stopping Ring
56	29637	Sealing Ring – 237		*130*	300165	Brush
57	300686	Bearing		*131*	300164	Bush
58	301338	Spacer		*132*	300164	Stopping Ring
59	300676	Helical Wheel 25/50 RPM		102	000101	
00	300677	Helical Wheel 50/100 RPM		**	300626	COMPLETE BRUSH ASSEMBLY
60	000011	Oil Blowoff Plug			000020	INCLUDES ITEMS 124,125,126,127,
61		Head				128,129,130,131,132
62	300678	Bearing		I		
63	301334	Feather				
64	300679	Worm Screw 50/100 RPM				
<u> </u>	300680	Worm Screw 25/50 RPM]]	300694	Complete air regulator feeder
65	300681	Bearing			300356	Air Regulator only
66	300682	Sealing Ring		Ľ	300128	Complete head assembly
67	301333	Bearing Cover			000120	
68		Screw				
69	300238	Motor Gear (old 300683)				
70	77662	Screw M5 x 8				
10						
		1		I		

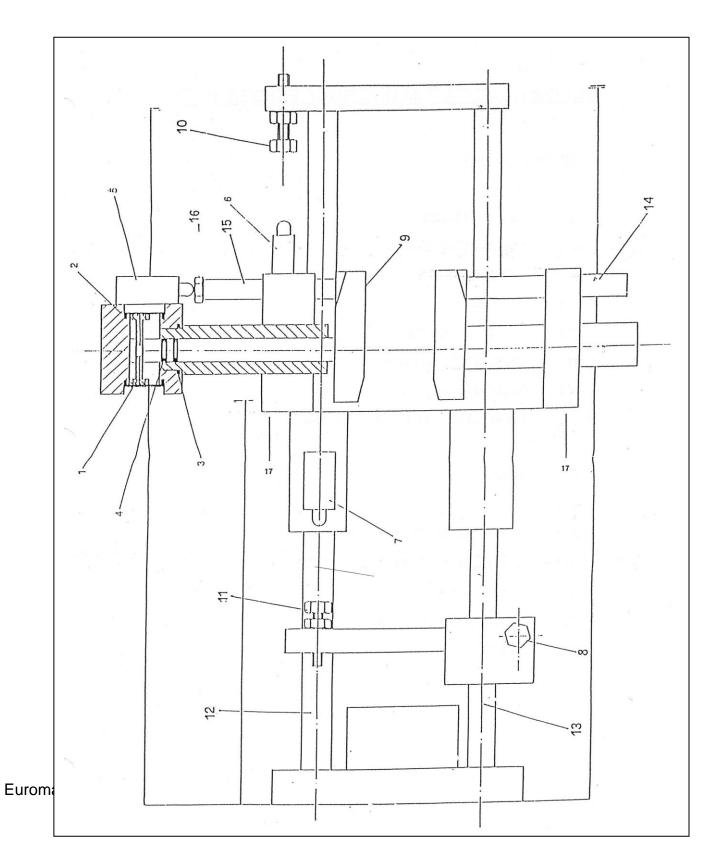
Vise Unit (Ref .004)



Vise Unit (Ref .004)

Pos. Number	Part No.	Description	Specification
1		Screw	
2		Rod	
3		Grub	
4		Nut	
5	300194	Right Jaw Holder	
6	300876	Jaw – 370S & 370S-L	190mmx68mm – 130mm between bolt holes
	300898	Jaw – 370PP & 370PP-L	105mmx68mm – 40mm between bolt holes
*7	80521	Screw	
8		Grub	
10		Vice Slider	
11		Gib	
*12		Slider Side Cap	
*13		Sealing Ring	
*15		Gasket	
*16		Cylinder Liner	
*17		Sealing Ring	
*18	300191	Cylinder	
*19		Front Cap	
*20		Screw	10mm x 70mm
21		Elastic Pin	
22	300142	Hand wheel with Knob.	
23		Pipe Fitting	
*24		Spacer	
*25		Spacer Holder Flange	
*26		Screw	
27	300353	Vice Screw	
28		Screw	
29	300167	Block 300167	
30	300166	Small Rubber	
31		Screw	
32		Washer	
33		Support	
34	301980	Screw	
35	301986	Jaw Holder Clamping Plate	
36	301981	Screw	10mm x 30mm
37	300193	Vice Support	
38	301984	Vice Support Feather	
39	301979	Small Block	
40	300194	Left Jaw Holder	400 00
41	300875	Jaw – 370S & 370S-L	160mm x 69mm
	300899	Jaw – 370PP & 370PP-L	110mm x 68 mm – 60mm between bolt holes
42	300352	Vice Slide Support	
*	300196	Main Clamping vise	
*	300914	Air vise repair kit	
	301325		

Group Feeder P-R

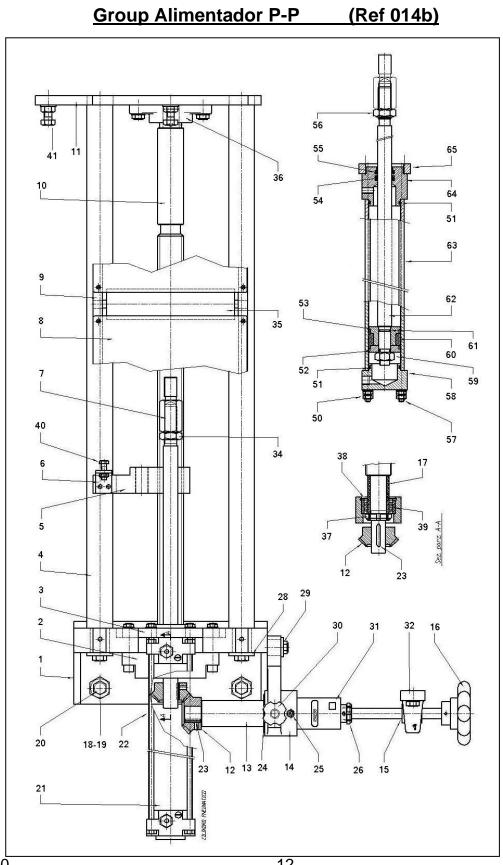


Group Feeder P-R

Pos.			
Number	Part No.	Description	Specification
1	301332	Piston Gasket	
2		Piston Proof-Gasket	
3		Gasket Air-Proof	
4		Gasket	
5		Micro Presence Bar	
6		Micro Stop Cart – Back	
7	300211	Micro Stop Cart – Back – Limit Switch	
8		Micro Stop Blocket Advancement	
9			
10		Screw	
11		Screw	
12		Staff Chromate Support Feeding	
13		Staff Chromate Support Feeding	
14		Staff Slide Jaw	
15	300200	Staff Slide Jaw – Activation Bar	
16		Screw	
17		Block	



300127	Piston cylinder	
300262	Cylinder Complete	

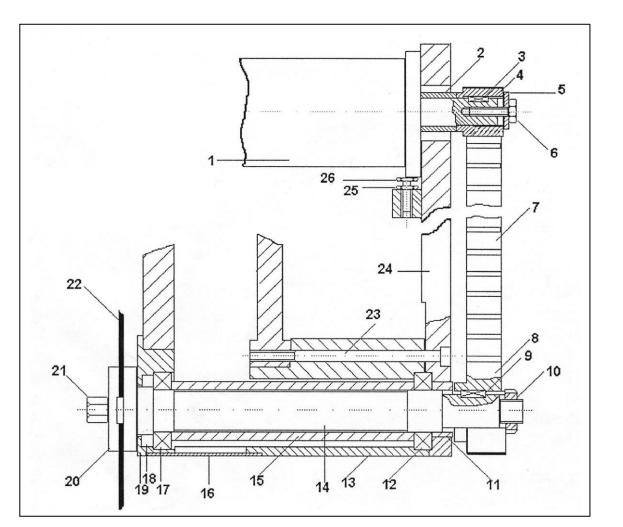


Euromatic 370

1Rear support2301527Load support3Pneumatic cylinder pin4Chromate rod5TPN screw support6Square screw holder pushing micro7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413243014140ff seeger ring2530141529Washer3030141729Washer30301417313001863230141934Medium nut35Roll3630204737Autolocking nut38Inner seeger ring3930204630bearing	Pos.	Part No.	Description
3Pneumatic cylinder pin4Chromate rod5TPN screw support6Square screw holder pushing micro7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	1		Rear support
4Chromate rod5TPN screw support6Square screw holder pushing micro7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing		301527	Load support
5TPN screw support6Square screw holder pushing micro7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	3		Pneumatic cylinder pin
6Square screw holder pushing micro7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	4		Chromate rod
7Cylinder extension8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	5		TPN screw support
8Roll way plate9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	6		Square screw holder pushing micro
9Roll way rod10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	7		Cylinder extension
10301526Screw shaft11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring3930204630bearing	8		Roll way plate
11Feeding plate pin12301408Conic cylinder13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft support16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	9		Roll way rod
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13301409Screw movement shaft14301410Nonius support15301411Bushing for screw movement shaft support16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support38Inner seeger ring39302046bearing	11		Feeding plate pin
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15301411Bushing for screw movement shaft support16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring3930204639302046	13	301409	Screw movement shaft
15301411support16301412Measuring cart wheel adjusting17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	14	301410	Nonius support
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17Bearing spacer18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support38Inner seeger ring39302046bearing	16	301412	
18Adjustable little foot19Washer20Screw21300190Pneumatic cylinder22Plate rear support23301413Key24301414Off seeger ring25301415Oilier26301416Auto locking nut29Washer30301417Wheel31300186Numerator 301418, 30152832301419Support34Medium nut35Roll36302047Shaft axial support38Inner seeger ring39302046bearing	17		
19 Washer 20 Screw 21 300190 Pneumatic cylinder 22 Plate rear support 23 301413 Key 24 301414 Off seeger ring 25 301415 Oilier 26 301416 Auto locking nut 29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	18		
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22 Plate rear support 23 301413 Key 24 301414 Off seeger ring 25 301415 Oilier 26 301416 Auto locking nut 29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	21	300190	Pneumatic cylinder
23 301413 Key 24 301414 Off seeger ring 25 301415 Oilier 26 301416 Auto locking nut 29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing			-
25 301415 Oilier 26 301416 Auto locking nut 29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	23	301413	Key
25 301415 Oilier 26 301416 Auto locking nut 29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing		301414	Off seeger ring
29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	25	301415	
29 Washer 30 301417 Wheel 31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	26	301416	Auto locking nut
31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	29		Washer
31 300186 Numerator 301418, 301528 32 301419 Support 34 Medium nut 35 Roll 36 302047 Shaft axial support 37 Autolocking nut 38 Inner seeger ring 39 302046 bearing	30	301417	Wheel
32301419Support34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing		300186	Numerator 301418, 301528
34Medium nut35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing	-	301419	Support
35Roll36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing			
36302047Shaft axial support37Autolocking nut38Inner seeger ring39302046bearing			
37Autolocking nut38Inner seeger ring39302046bearing		302047	
38Inner seeger ring39302046bearing		-	
39 302046 bearing			
		302046	
40 Screw	40		Screw
41 Screw			

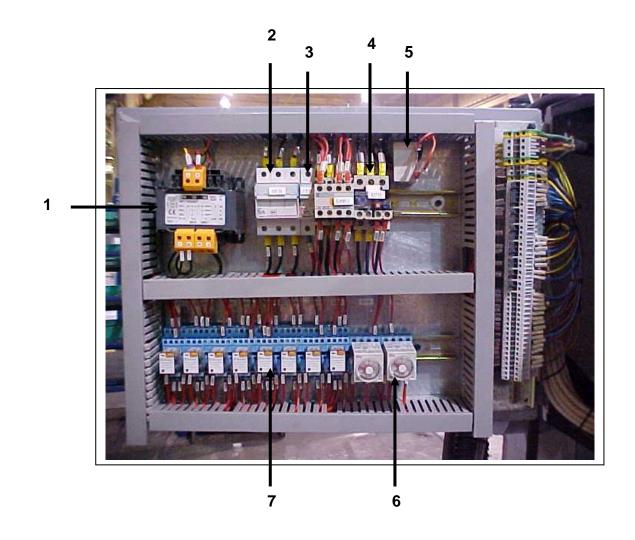
Pos.	Part No.	Description	
		Hydraulic Cylinder (505 stroke)	
50		Medium nut & washer	
51		Sealing	
52		Head piston cylinder (small)	
53		Head piston cylinder (large)	
54		Sealing	
55		Dust scratching ring	
56		Lower nut	
57		Cylinder tie rod	
58		Head cylinder up head	
59		Medium nut	
60		Sealing	
61		Sealing	
62		Cylinder rod	
63		Cylinder tube	
64		Head cylinder low head	
65		Hydraulic cylinder pin	
30)1407	Feed length Adjustment Assembly. Includes 12,13,14,15,16,23, 24,25,26,30,31 &32	
N/A	301759	Feed cylinder repair kit	

Euromatic 370

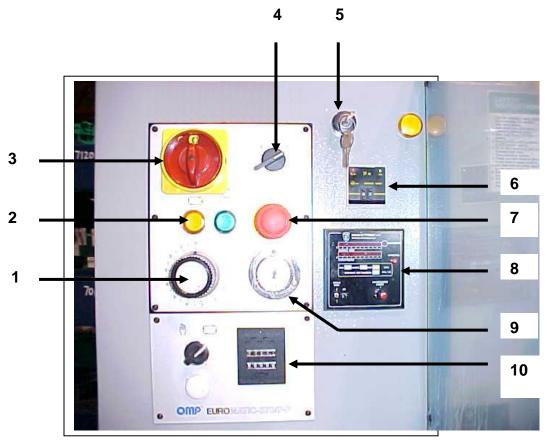


Euromatic – Head Unit Type L NON FERROUS HEAD

Pos.			Pos	S.		
No.	Part No.	Description	No		Part No.	Description
1	300117	Motor – 220 volt	14		300423	Blade Shaft
2		Spacer	15			Spacer
3		Key	16			Cover Plate
4	79931	Cog Pulley (Upper)	17		300426	Bearing
5		Washer	18		300706	Gasket
6		Bolt	19		301312	Flange
7	300355	Drive Belt (Cog Style)	20		301311	Blade Flange
7	301976	Drive belt (Cog Style) length 510				
8	300700	Cog Pulley (Lower)	21		300425	Spindle Bolt
	300594	Cog Pulley (Lower)	22			Blade
9	300705	Key	23			Bolt
10	300704	Nut	24			Support Plate
11	301313	Spacer	25			Lock Nut
12	300424	Bearing	26			Bolt
13		Pipe				
	300232	Complete Head Ass. 440 Volt				
Euror	matic 370		1/			



Pos. Number	Part No.	Description	Specification
			Specification
1	300210	Transformer, Dual Voltage 150VA	
2	77526	Fuse, 15 amp	Buss FNQ-15
	77523	Fuse 2 amp	
3	300203	Fuse Holder – Swing Out	
4	300603	Relay, Overload	#LR2D1321
	301824	Overload holder	
5	300213	Coil, Inductive Pick-up for blade protection units	
6	300208	Timer, Dwell	TH24
7	300209	Relay, Ice Cube	Finder #55.34
	300302	Empty Electrical Box – 370S	



Actual control panel layout may vari

Pos. Number	Part No.	Description	Specification
1	300215	Flow Control, Head	Valve & Knob
2	300219	Pushbutton "Start" – for start cycle 300205	Yellow Lens
3	300206	Power Switch, Main	With Lockout
4	300233	Cycle Selector Switch – Mode or feeder vise loc.	
5	300204	Lock Out Switch with Key	
6	300390	Multi-stroke Indicator	TP702
7	300351	Switch, E-stop "Emergency Stop"	
8	300919	Blade Protection	
9	300214	Gauge, System Pressure	
10	79933	Piece Counter 300235	
	300302	Electrical box 370S	

ITEMS NOT SHOWN

Pos.			
Number	Part No.	Description	Specification
	300212	Hood, Limit Switch	
	300277	Hood – Euromatic 370S	
	300356	Air Feed Regulator	
	79914	4-way valve	
	300199	Cylinder Head Lift old style for steel frame hoods	
	300445	Cyliner head lift new style, new style requires eyelets 300446	
	716697	Gas Shock Assembly	
	300445	Gas Lift Shock 300199	
	300446	Eyelet fittings of gas lift shock	
	300262	Cylinder 370PP Vertical Hold Down	
	300697	Extensions 370PP Vertical Hold Down	30mm, 60mm, 90mm
	300851	6 H.P. Motor	
	300195	Valve for regulating feed vise	
	300198	Table cover plate	
	300218	Accumulator air tank	
	300220	Allen Wrench	
	300228	Bar Stop	
	300273	Oil Resivoir	
	300277	Hood Plexi glass	
	300813	Air regulator head assembly	
	301819	Hood hinge	
	301820	Shock mount plastic	
	88130045	Coil	

OPTIONS

Part No.	Description		
300128	Ferrous cutting head for mounting on non-ferrous saw		
79917	Non-Ferrous cutting head for mounting on ferrous saw		
86694	60" Loading Table – In-bound with protective cover plates		
96693	60" Un-loading table – Out-bound with scale and adj. Positive stop.		
300813	Vise Regulator Kit		
716659	Comb Jaws		
716694	Quick Disconnect		
79971	Combination Jaws.		