



OPERATOR'S MANUAL



HYDRAULIC POWERED ROLL BENDER MODEL: R-H120

Baileigh Industrial, Inc.
P.O. Box 531
Manitowoc, WI 54221-0531
Phone: 920.684.4990
Fax: 920.684.3944
sales@baileigh.com

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THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without a RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 30 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (e) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majeure. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing, and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator's manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorneys' fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the U.S. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at:
(920) 684-4990 or e-mail us at sales@baileigh.com



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Set-up and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any unauthorized modifications.



Note: This symbol refers to useful information throughout the manual.



IMPORTANT **PLEASE READ THIS OPERATORS MANUAL CAREFULLY**

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.



SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**



Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** is used with the safety alert symbol. **DANGER** identifies a hazard or unsafe practice that will result in severe **Injury or Death**.



Safety signs with signal word **DANGER** or **WARNING** are typically near specific hazards.



General precautions are listed on **CAUTION** safety signs. **CAUTION** also calls attention to safety messages in this manual.



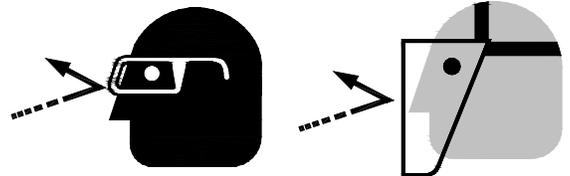


SAVE THESE INSTRUCTIONS.
Refer to them often and use them to instruct others.



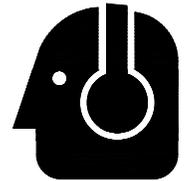
PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.



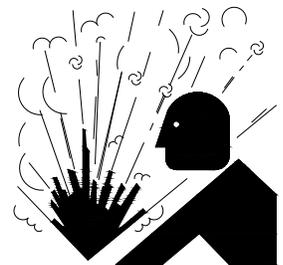
PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.



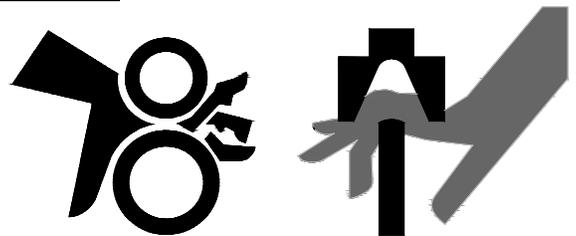
HYDRAULIC HOSE FAILURE

Exercise **CAUTION** around hydraulic hoses in case of a hose or fitting failure.



BEWARE OF PINCH POINTS AND CRUSH HAZARD

Keep hands and fingers from between the roller and die when bending materials to avoid possible injury.



HIGH VOLTAGE

USE CAUTION IN HIGH VOLTAGE AREAS. DO NOT assume the power to be off.
FOLLOW PROPER LOCKOUT PROCEDURES.





EMERGENCY STOP BUTTON

In the event of incorrect operation or dangerous conditions, the machine can be stopped immediately by pressing the **E-STOP** button. Twist the emergency stop button clockwise (cw) to reset. Note: Resetting the E-Stop will not start the machine.



SAFETY PRECAUTIONS



Metal working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, hold-downs, safety glasses, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. **Always use common sense** and exercise **caution** in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.



WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

1. **Only trained and qualified personnel can operate this machine.**
2. **Make sure guards are in place and in proper working order before operating machinery.**
3. **Remove any adjusting tools.** Before operating the machine, make sure any adjusting tools have been removed.
4. **Keep work area clean.** Cluttered areas invite injuries.
5. **Overloading machine.** By overloading the machine you may cause injury from flying parts. **DO NOT** exceed the specified machine capacities.
6. **Dressing material edges.** Always chamfer and deburr all sharp edges.
7. **Do not force tool.** Your machine will do a better and safer job if used as intended. **DO NOT** use inappropriate attachments in an attempt to exceed the machines rated capacity.



8. **Use the right tool for the job. DO NOT** attempt to force a small tool or attachment to do the work of a large industrial tool. **DO NOT** use a tool for a purpose for which it was not intended.
9. **Dress appropriate. DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
10. **Use eye and ear protection.** Always wear ISO approved impact safety goggles. Wear a full-face shield if you are producing metal filings.
11. **Do not overreach.** Maintain proper footing and balance at all times. **DO NOT** reach over or across a running machine.
12. **Stay alert.** Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
13. **Check for damaged parts.** Before using any tool or machine, carefully check any part that appears damaged. Check for alignment and binding of moving parts that may affect proper machine operation.
14. **Observe work area conditions. DO NOT** use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. **DO NOT** use electrically powered tools in the presence of flammable gases or liquids.
15. **Keep children away.** Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
16. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep them out of reach of children.
17. **DO NOT operate machine if under the influence of alcohol or drugs.** Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.
18. **DO NOT** touch live electrical components or parts.
19. **Turn off** power before checking, cleaning, or replacing any parts.
20. Be sure **all** equipment is properly installed and grounded according to national, state, and local codes.
21. Keep **all** cords dry, free from grease and oil, and protected from sparks and hot metal.
22. Inspect power and control cables periodically. Replace if damaged or bare wires are exposed. **Bare wiring can kill!**
23. **DO NOT** bypass or defeat any safety interlock systems.
24. Keep visitors a safe distance from the work area.



BENDING CAPACITIES

Material Type
 All Specs based on 60,000 PSI (42 Kg/mm²) Tensile Strength – Mild Steel.

			Profile dim. (max.)	Bend Ø (min.)
●	1		3.937" x .984"	63.00"Ø
●	2		7.874" x 1.377"	39.37"Ø
●	3		2.362" x 2.362"	39.37"Ø
●	4		2.755"Ø	31.49"Ø
●	5		5.511"Ø x .118"	118.11"Ø
●	6		4.50" x .177"	63.00"Ø
● ●	7		5.511" x 1.574" x .118"	157.48"Ø
● ●	8		3.937" x 3.937" x .196"	118.11"Ø
● ●	9		3.937" x 3.937" x .393"	55.11"Ø
● ●	10		3.937" x 3.937" x .393"	62.99"Ø
● ●	11		3.937" x 3.937" x .393"	47.24"Ø
● ●	12		3.937" x 3.937" x .393"	47.24"Ø
● ●	13		4.724" x 4.724" x .590"	47.24"Ø
● ●	14		C8 x 18.75#	47.24"Ø
● ●	15		C8 x 18.75#	47.24"Ø

- Standard rolls
- Special rolls



TECHNICAL SPECIFICATIONS

Roll Adjustment	Bottom Rolls - Hydraulic
Shaft Diameter	3.937" (100mm)
Lower Roll Dia.	12.40" (315mm)
Roll Speed	Variable 0-5.5rpm
Pinch	Double
Digital Readout	Yes
Working Hydraulic Pressure	2900psi (200bar)
Oil Capacity	35gal (132L)
Power	220V / 3p / 60hz / 40A
Motor	15hp (11kw) 220V / 3p / 60hz
Shipping Weight	5050lbs. (2290kg)
Shipping Dimensions (L x W x H)	63" x 62" x 77" (1600 x 1575 x 1956mm)

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990, and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades).

For specific application needs or future machine purchases contact the Sales Department at: sales@baileigh.com, Phone: 920.684.4990, or Fax: 920.684.3944.



Note: *The photos and illustrations used in this manual are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.*



Note: *The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.*



UNPACKING AND CHECKING CONTENTS

Your Baileigh machine is shipped complete in one crate. Separate all parts from the packing material and check each item carefully. Make certain all items are accounted for before discarding any packing material.

⚠ WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate choking and suffocation hazards to children and animals.
If any parts are missing, do not plug in the power cable, or turn the power switch on until the missing parts are obtained and installed correctly.

Cleaning

⚠ WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.

⚠ CAUTION: When using cleaning solvents work in a well-ventilated area. Many cleaning solvents are toxic if inhaled.

Your machine may be shipped with a rustproof waxy coating and/or grease on the exposed unpainted metal surfaces. Fully and completely remove this protective coating using a degreaser or solvent cleaner. Moving items will need to be moved along their travel path to allow for cleaning the entire surface. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces.

Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.



Important: This waxy coating is **NOT** a lubricant and will cause the machine to stick and lose performance as the coating continues to dry.

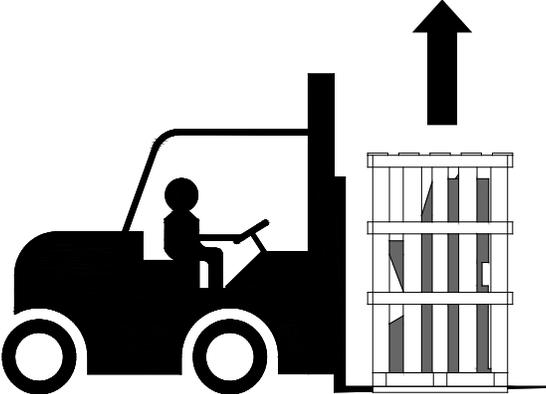




TRANSPORTING AND LIFTING

⚠ CAUTION: Lifting and carrying operations should be carried out by skilled workers, such as a truck operator, crane operator, etc. If a crane is used to lift the machine, attach the lifting chain carefully, making sure the machine is well balanced. Choose a location that will keep the machine free from vibration and dust from other machinery. Keep in mind that having a large clearance area around the machine is important for safe and efficient working conditions.

Follow these guidelines when lifting:

- Always lift and carry the machine with the lifting holes provided at the top of the machine.
 - Use lift equipment such as straps, chains, capable of lifting 1.5 to 2 times the weight of the machine.
 - Take proper precautions for handling and lifting.
 - Check if the load is properly balanced by lifting it an inch or two.
 - Lift the machine, avoiding sudden accelerations or quick changes of direction.
 - Locate the machine where it is to be installed, and lower slowly until it touches the floor.
- 
- A close-up photograph of the top of a machine, showing four black lifting points (hoists or chains) attached to a metal frame. A large black arrow points upwards from the top of the machine, indicating the direction of lifting.
- The lift truck must be able to lift at least 1.5 – 2 times the machines gross weight.
 - Make sure the machine is balanced. While transporting, avoid rough or jerky motion, and maintain a safe clearance zone around the transport area.
 - Use a fork lift with sufficient lifting capacity and forks that are long enough to reach the complete width of the machine.
 - Remove the securing bolts that attach the machine to the pallet.
 - Approaching the machine from the side, lift the machine on the frame taking care that there are no cables or pipes in the area of the forks.
 - Move the machine to the required position and lower gently to the floor.
- 
- A silhouette illustration of a forklift operator lifting a machine on a pallet. The forklift is shown from the side, with the operator seated. The machine is on a pallet, and the forklift's forks are positioned under the pallet. A large black arrow points upwards from the top of the machine, indicating the direction of lifting.

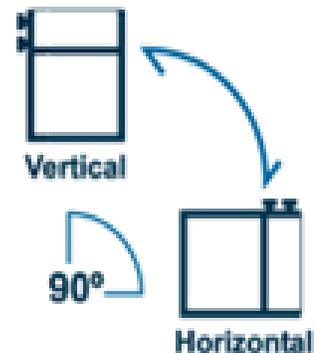


- Level the machine so that all the supporting feet are taking the weight of the machine and no rocking is taking place.

All models of the R-H series are designed to operate either in the horizontal or vertical position.

To set the machine in a horizontal position:

1. Lift the machine using the lift hook on the top of the machine.
2. Use care to prevent the machine from swinging when lifted.
3. Lower until machine base contacts floor then carefully lay it on its back.



INSTALLATION

IMPORTANT:

Consider the following when looking for a suitable location to place the machine:

- Overall weight of the machine.
- Weight of material being processed.
- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, work tables, or other machinery.
- Clearance from walls and other obstacles.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.
- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they will not extend into any aisles.
- **LEVELING:** The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.

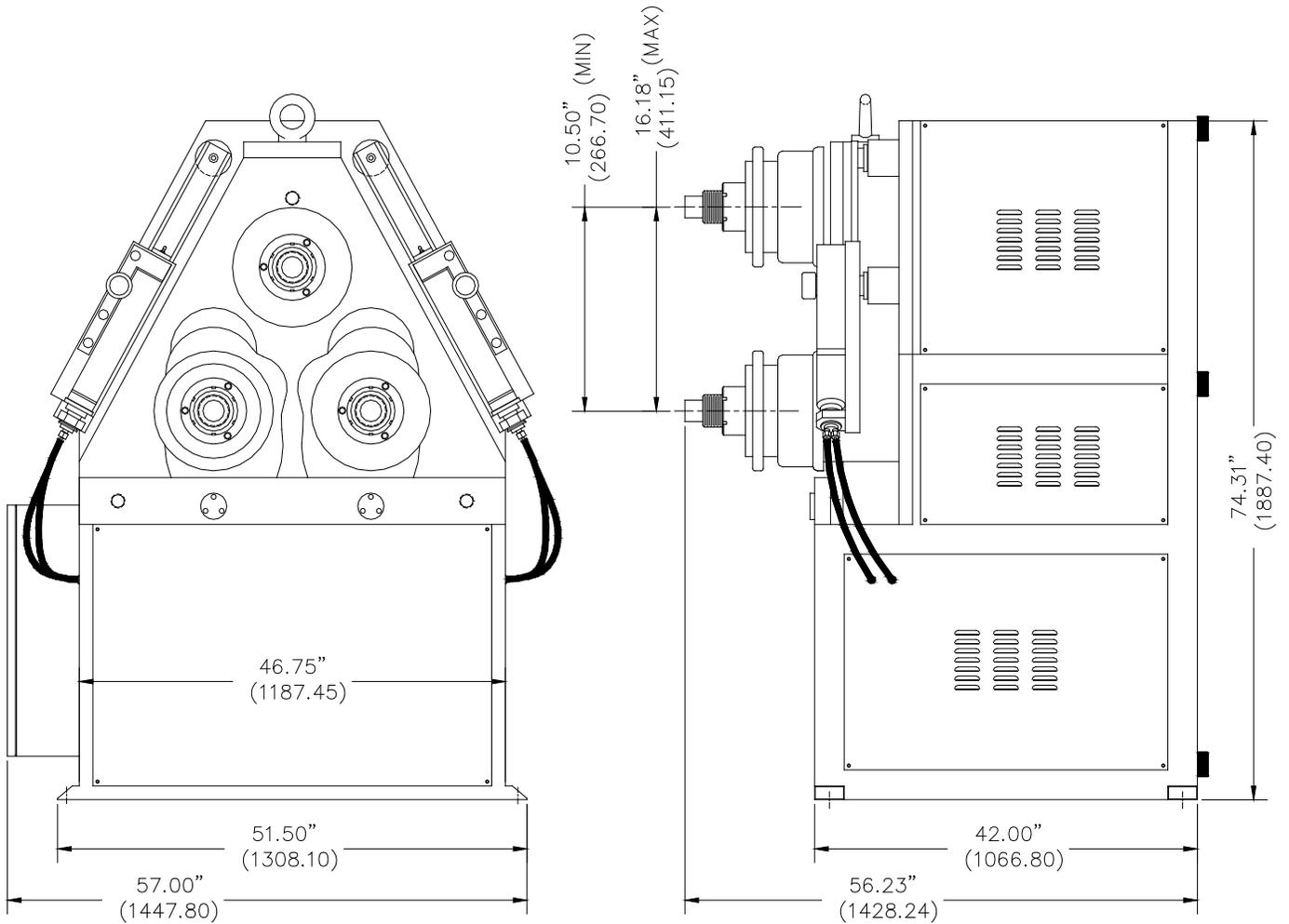


- **FLOOR:** This tool distributes a large amount of weight over a small area. Make certain that the floor is capable of supporting the weight of the machine, work stock, and the operator. The floor should also be a level surface. If the unit wobbles or rocks once in place, be sure to eliminate by using shims.
- **WORKING CLEARANCES:** Take into consideration the size of the material to be processed. Make sure that you allow enough space for you to operate the machine freely.
- **POWER SUPPLY PLACEMENT:** The power supply should be located close enough to the machine so that the power cord is not in an area where it would cause a tripping hazard. Be sure to observe all electrical codes if installing new circuits and/or outlets.
- Once the machine has been placed on its intended location, remove the right side panel and fill the hydraulic tank with oil to the full line on the sight gauge.
- Install the side panel.





FOUNDATION AND MAIN DIMENSIONS



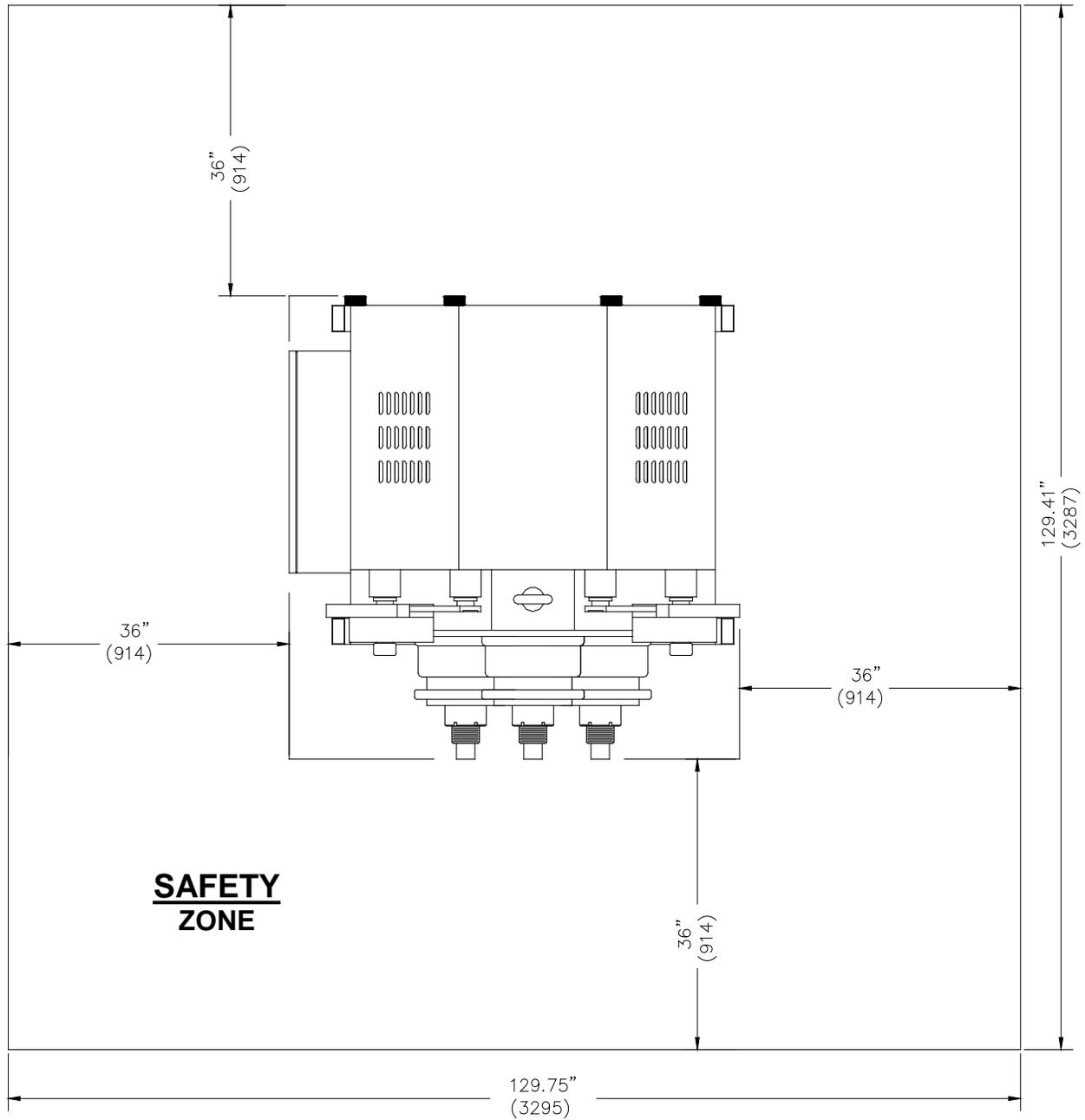
Note: Place machine on a flat, preferably concrete surface capable of adequately supporting its weight.



WORKING CLEARANCE

⚠ CAUTION: ALL UNAUTHORIZED PERSONNEL MUST STAY BEYOND A DESIGNATED 3-FT SAFETY ZONE.

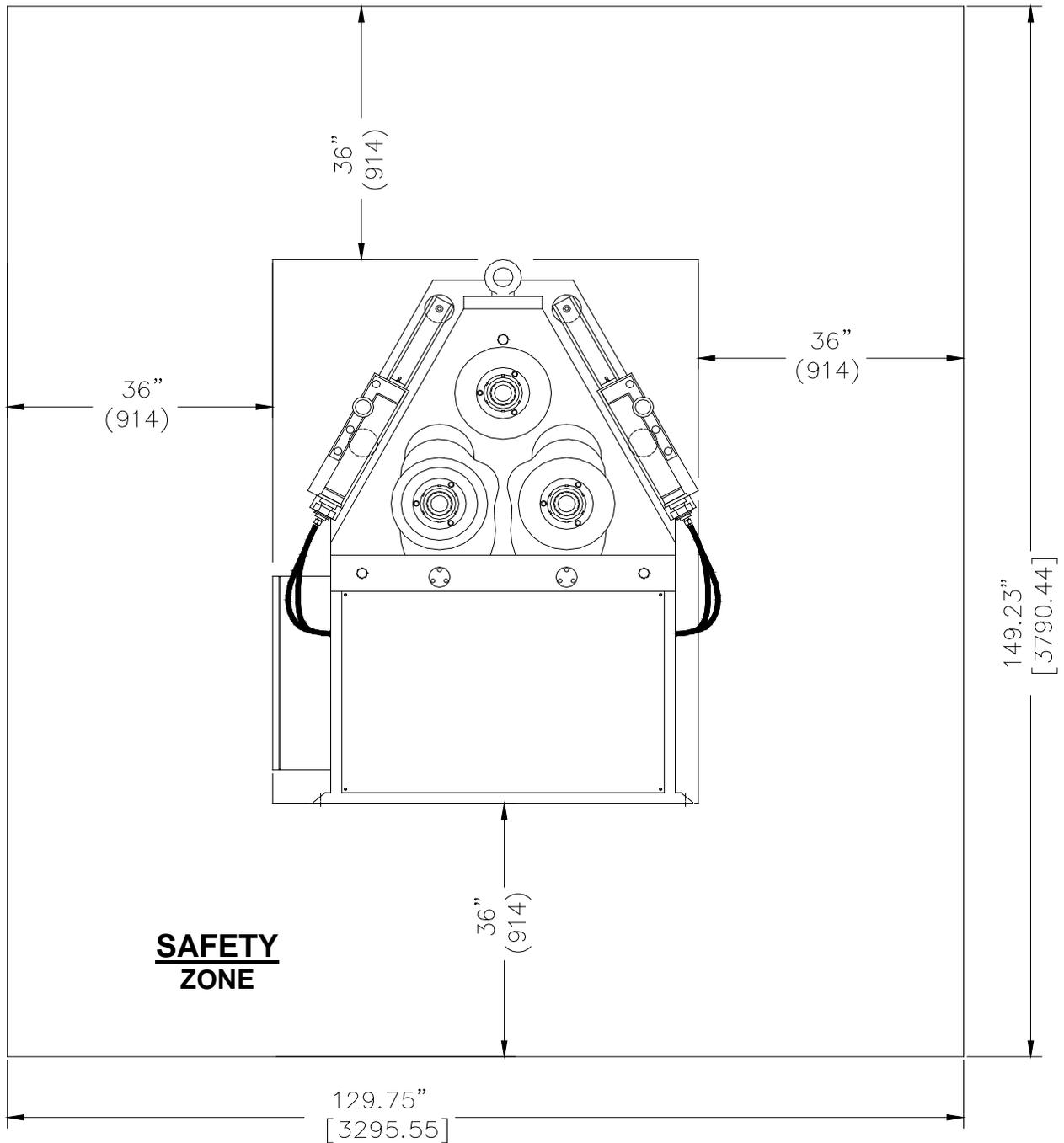
Vertical Position





⚠ CAUTION: ALL UNAUTHORIZED PERSONNEL MUST STAY BEYOND A DESIGNATED 3-FT SAFETY ZONE.

Horizontal Position





ELECTRICAL

⚠ WARNING: Baileigh Industrial is not responsible for any damage caused by wiring up to an alternative 3-phase power source other than direct 3-phase. If you are using an alternate power source, consult a certified electrician or contact Baileigh Industrial prior to energizing the machine.

⚠ CAUTION: HAVE ELECTRICAL UTILITIES CONNECTED TO MACHINE BY A CERTIFIED ELECTRICIAN!
Check if the available power supply is the same as listed on the machine nameplate.

⚠ WARNING: Make sure the grounding wire (green) is properly connected to avoid electric shock. DO NOT switch the position of the green grounding wire if any electrical plug wires are switched during hookup.

Motor Specifications

Your tool is wired for 220 volt, 60Hz alternating current. Before connecting the tool to the power source, make sure the machine is cut off from power source.

Considerations

- Observe local electrical codes when connecting the machine.
- The circuit should be protected with a time delay fuse or circuit breaker with a amperage rating slightly higher than the full load current of machine.
- A separate electrical circuit should be used for your tools. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the tool.
- All line connections should make good contact. Running on low voltage will damage the motor.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.



⚠ WARNING: In all cases, make certain the receptacle in question is properly grounded. If you are not sure, have a qualified electrician check the receptacle.

- Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Repair or replace damaged or worn cord immediately.

Extension Cord Safety

Extension cord should be in good condition and meet the minimum wire gauge requirements listed below:

AMP RATING	LENGTH		
	25ft	50ft	100ft
0-6	16	16	16
7-10	16	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No
WIRE GAUGE			

An undersized cord decreases line voltage, causing loss of power and overheating. All cords should use a ground wire and plug pin. Replace any damaged cords immediately.



Power cord connection:

1. Unlock and open the electrical enclosure door.
2. Route the power cord into the electrical cabinet.
 - a. Route the power cord so that it will NOT become entangled in the machine in any way.
 - b. Route the cord to the power supply in a way that does NOT create a trip hazard.
3. Locate the input terminals at the far left end of the terminal strip. They are labeled as **L1**, **L2**, & **L3**. The ground terminal is labeled as **PE**.
4. Connect the three power wires terminals **L1**, **L2**, & **L3**. Connect the ground wire (typically green) to the **PE** terminal.
5. Check that the power cord has not been damaged during installation.



Console Connection and Rotation Check

6. Close the electrical enclosure door.
7. Connect the communication cord from the console to the connector (A) located at the front of the electrical cabinet.
8. **IMPORTANT: MAKE SURE** area around rolls is free from any obstructions.
9. With power connected turn the main disconnect on the electrical cabinet to ON. The power light will be illuminated.
10. Verify that the emergency stop button is in the operational position.
11. Press the start button to start the pump.
12. Actuate the left roll guide lever (E) to the up position to raise the roll guide. The left roll guide should raise up.
13. Step on the left foot pedal and confirm that the bottom rolls rotate to the left, counterclockwise (ccw). Step on the right foot pedal and confirm bottom rolls rotate to the right clockwise (cw).
14. If not, disconnect power to the machine, and switch the L1 and L3 wires. **DO NOT** move the ground wire.



CONTROL FUNCTIONS



E	Power On Switch
F	Power Off Switch
G1	Left Roll Up
G2	Left Roll Down
H1	Right Roll Up
H2	Right Roll Down
I	Emergency Stop Button
J	Emergency Stop Indicator Light
K	Motor Overheat Indicator Light
L	Digital Control of Lower Rolls
M1	Left Guide Roll Up
M2	Left Guide Roll Down
N1	Left Guide Roll Out
N2	Left Guide Roll In
O1	Right Guide Roll Out
O2	Right Guide Roll In
P1	Right Guide Roll Up
P2	Right Guide Roll Down



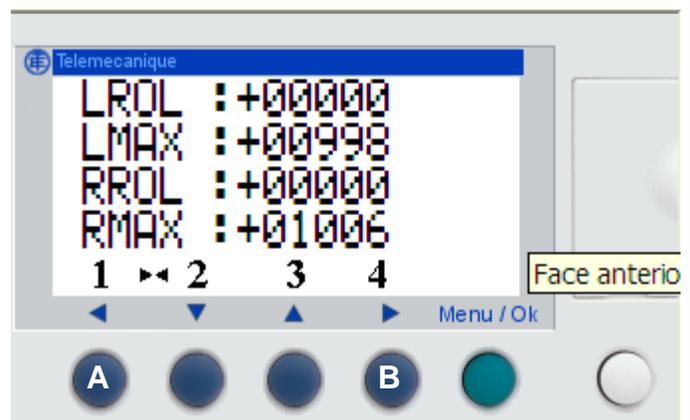
- Pressing the “Red” stop button (F) (located on the operator pedestal) shuts off the motor to the hydraulic system.
- With either foot pedal depressed, pressing the EMERGENCY STOP switch (I) will shut off the motor to the hydraulic system stopping the rolls from turning.
- Twist the emergency stop button clockwise (cw) to reset. Before restarting pump motor make sure any obstructions are cleared.
- After programming the digital display with the desired value (see program section), insert a sample piece of material between the rolls to make a test bend.
- Press the foot pedal in the direction needed to pull the material through the rolls for the bend. Stop the rolls before the material loses contact with any of the three rolls. When the bend is done, press the down arrow buttons (G2) or (H2) to release the material.

TRAVEL LIMIT CALIBRATION

⚠ IMPORTANT: *This procedure should be performed at initial installation and then again whenever the rolls are changed. This is especially important if the diameter of the rolls changes.*

The travel limit calibration sets the upper and lower limits that the lower rolls will move within. Once set, the rolls will not move farther than this setting. This will help prevent the rolls from contacting (crashing) into each other during operation.

1. Press and hold both the ◀ Left (A) and ▶ Right (B) arrows simultaneously for 10-11 seconds until the calibration page appears.





- When the calibration screen appears, release both arrow buttons.
- Press the roll down buttons (G2 and H2) to move both rolls to the bottom limit (until they stop). This may be done one roll at a time or both together.
- When both rolls are at the bottom position, press and release the ◀ Left arrow (A).

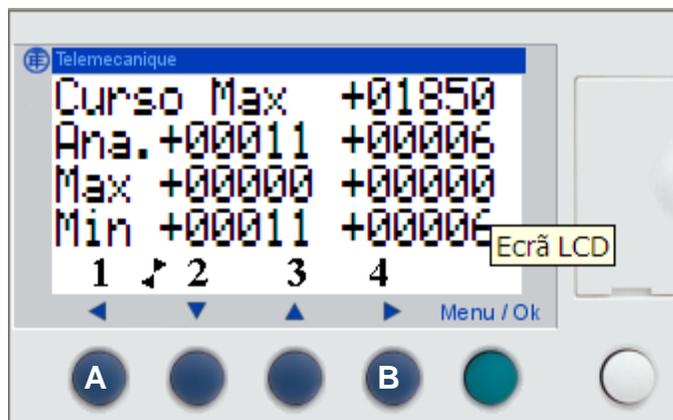
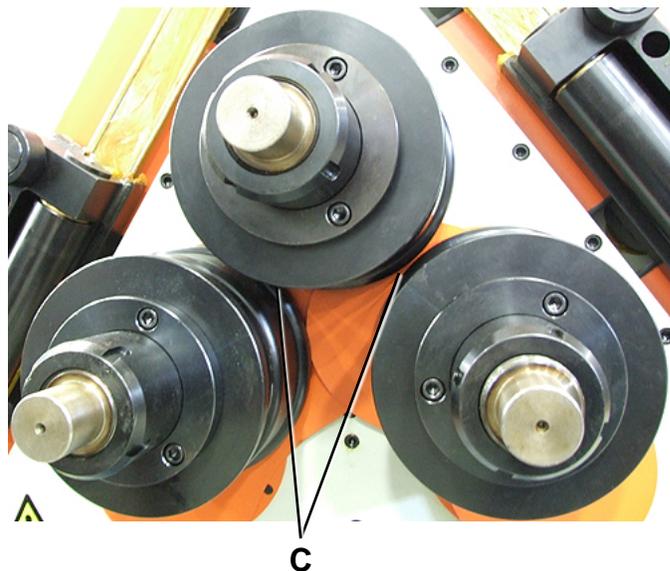
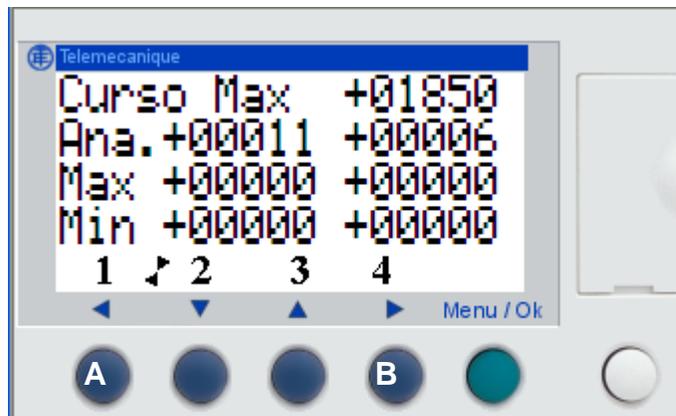
⚠ IMPORTANT: DO NOT ALLOW THE ROLLS TO TOUCH!

- Press the roll up buttons (G1 and H1) to move both rolls to the up limit. This may be done one roll at a time or both together.
This may be stopped at any position as long as the rolls do not touch (C).



Note: Whatever position the rolls are stopped at and the next step is completed, this will become the up limit. That means that if the rolls are stop with a 0.10" (2.5mm) gap (C) then the rolls will not move any closer during operational programming. If the rolls are stop with a 1" (25.4mm) gap (C) then the rolls will not move any closer during operational programming.

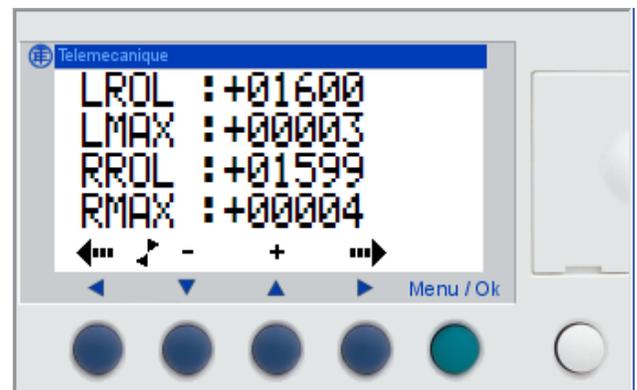
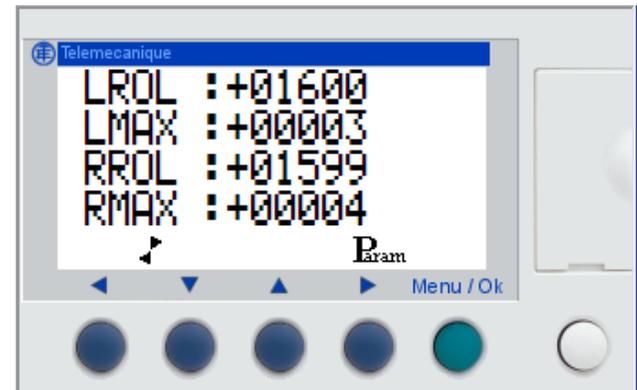
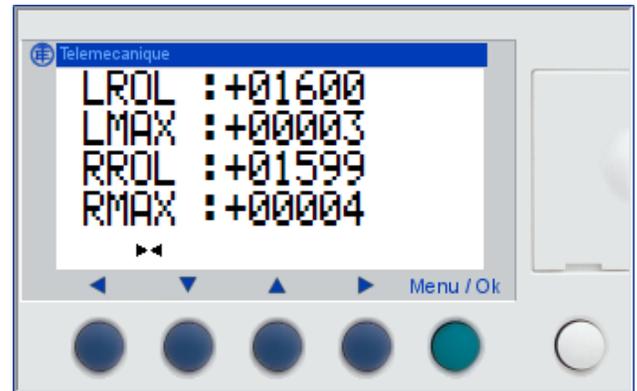
- When the gap (C) is at a distance that will work for your application, press and release the ▶ Right arrow (B).
- The control display will change back to the normal operational screen. The travel limit is now calibrated.





CONTROLLER PROGRAMMING

1. Press and hold the white shift button. When the word Param appears, and without releasing the shift button press the ► (right arrow) button and release both buttons simultaneously.
2. The LMAX or the RMAX will blink. By pressing the left ◀ or ▶ right arrow you can alternate between them.
3. To change the values of LMAX or RMAX, you can now increase or decrease the value using the up ▲ and ▼ down arrows.
4. Confirm the changes by pressing the Menu/OK button.



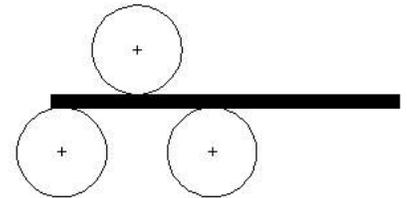
For Further programming questions please contact a Baileigh Industrial service representative.



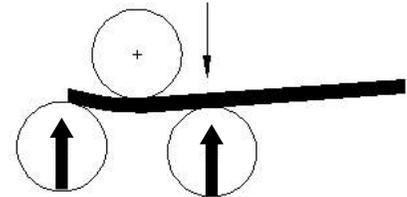
OPERATING THE MACHINE

Operating Instructions

1. Place the material flat on the rolls as shown in the top figure. Make sure that material is placed parallel to the floor and touching all three rolls at the same time. This condition is called "zero position".



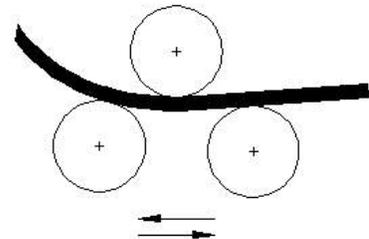
2. Push the up arrow button to move either the left (G1) or right (H1) lower roller upward toward the center roller, and position it to apply enough force to start to bend the material.



Note: There is a slight delay from when the button is pushed until the roller starts to move. To avoid deforming the piece, DO NOT apply more force than necessary.



Note: To get a circular profile, the roll guide must be parallel to the machine face. Otherwise you get spiral profiles.



3. To get desired radius, make consecutive passes through rolls using the foot pedals control to roll direction while gradually raising the lower roll(s) after each pass. If the radius is larger than needed, move the lower roll(s) up to apply more force. Keep track of your up/down position using the digital controller as a guide. This will help ensure consistency of parts.



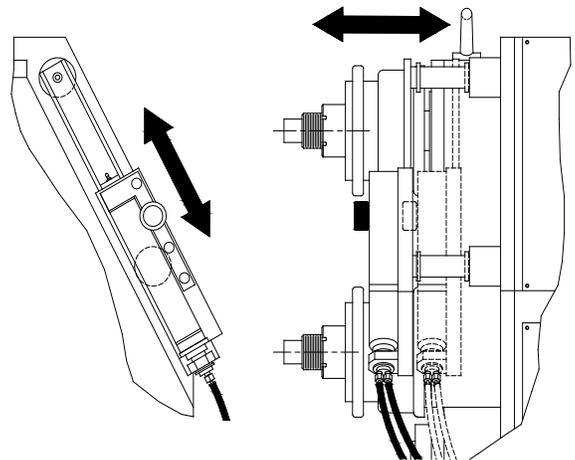
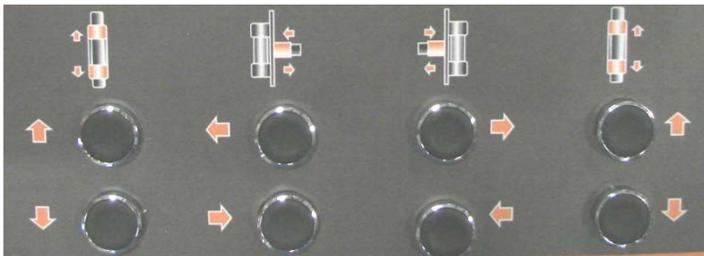
Bend Guides

Use the guide rolls to assist in developing the desired bend result.

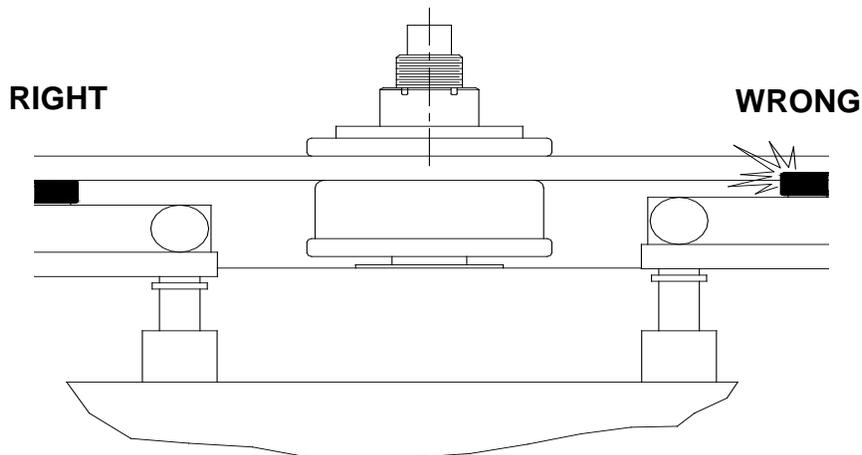


Important: The roll guides are designed and intended to guide the material and assist in the forming of the material. They are not the primary bending force for the material.

- The guides are adjustable in and out to apply force to the material to assist in keeping the material flat so that the ends will meet on the same plane, or they may be adjusted to cause the material to form a spiral to create coil shapes.
- The guides are adjustable up and down. This allows the guides to be adjusted as needed to remain centered under the material during the bend.

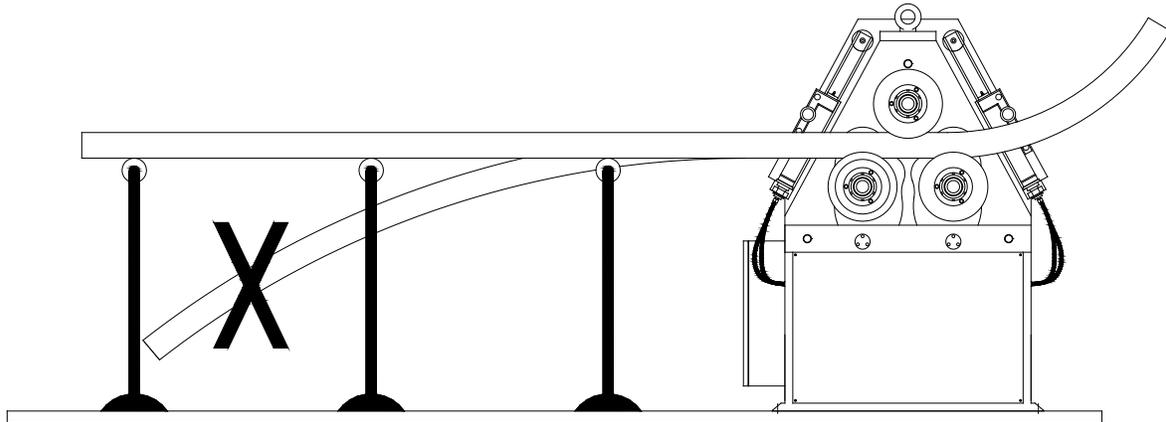


Make sure that when you start the bending process, the profile will not CRASH with the side guide roll.





When bending long materials, an adjustable conveyor is recommended to keep work piece parallel to floor, allowing for easier loading of Roll Bender.



CAUTION:

DO NOT feed profiles having a thickness greater than specified for the capacity of the machine.

DO NOT feed more than one piece at a time.

DO NOT use machine for purposes other than designed for.



MATERIAL SELECTION

 **CAUTION:** It must be determined by the customer that materials being processed through the machine are NOT potentially hazardous to operator or personnel working nearby.

When selecting materials keep these instructions in mind:

- Material must be clean and dry. (without oil)
- Material should have a smooth surface so it processes easily.
- Dimensional properties of material must be consistent and not exceed the machine capacity values.
- Chemical structure of material must be consistent.
- Buy certificated steel from the same vendor when possible.



Note: Thorough cleaning of the rolls is necessary to avoid possible sliding of the profile through the rolls.

When bending pipe or tube the outer part of the bend is stretched and the inner section compressed. The result of these opposite and unequal stresses is that the pipe or tube tends to flatten or collapse. To prevent such distortion, the common practice is to support the wall of the pipe or tube in some manner during the bending operation. One such method is to fill the piece with sand and plug the ends. Other methods can be found to achieve favorable results.

Listed below are some of the factors that control or influence the success of a bending operation.

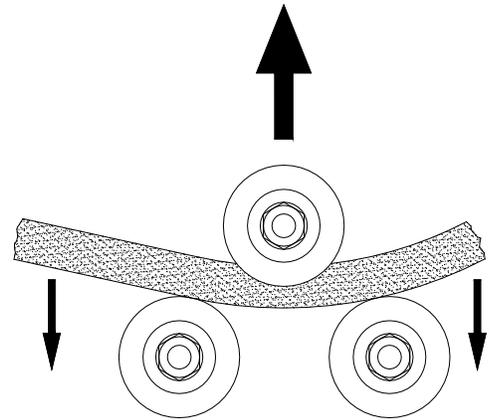
- Mechanical properties of the material being bent
- Thickness of the material to be bent
- Size of the inside bend radius
- Speed at which the bend occurs
- Grain direction of the steel to be bent
- Coefficient of friction
- Roller design



UNDERSTANDING SPRINGBACK

Springback, also known as elastic recovery, is the result of the metal wanting to return to its original shape after undergoing compression and stretch. After the bending leaf is removed from the metal and the load is released, the piece part relaxes, forcing the bent portion of the metal to return slightly to its original shape. All metals exhibit a certain amount of spring back.

The key to obtaining the correct bend angle is to over bend the metal a little and allow it to spring back to the desired angle. This is best handled through testing and record keeping.



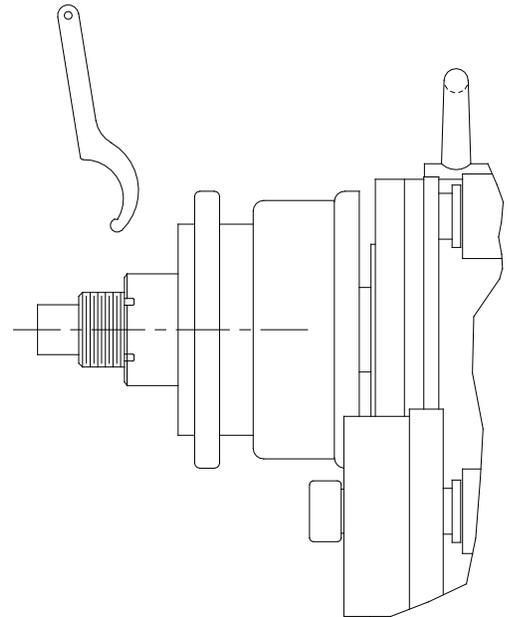
MOUNTING THE ROLLS

Rolls must be mounted correctly, depending on the type of profile to be bent. This will save the machine from undue stress and limit defects in the profile.

ALWAYS disengage power to machine before changing rolls.

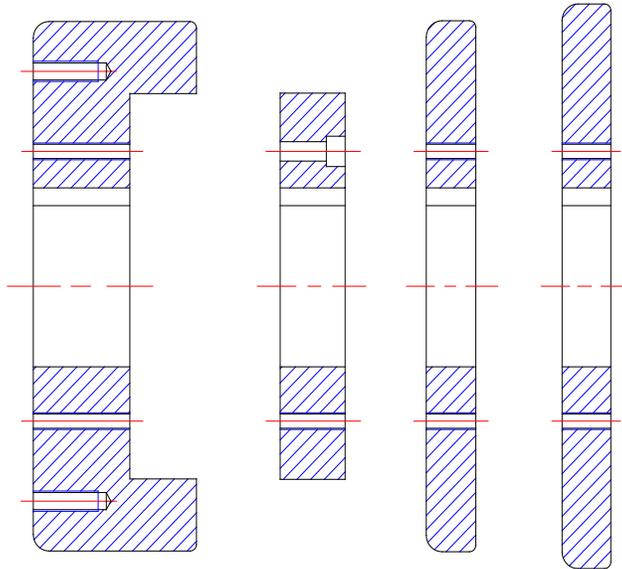
To change roll configurations use the (supplied) wrench to remove the shaft nuts. All three shafts are connected to the drive so they will not spin. After changing rolls, replace and tighten nut to shaft.

To find the distance needed between the top and bottom rolls, place a sample of the material to be bent in between the rolls. The groove of the upper roll should be 2-4 mm (.078"-.156") larger than the thickness of the material. Make a test bend with a sample of your material. This allows you to find the material spring back, and to determine the number of passes needed to achieve the desired radius.





ROLL CONFIGURATIONS



With proper placement of the different rolls, most standard profiles can be bent. For better results some profiles require special rolls. (See below)

* Special rollers are available from Baileigh Industrial Inc.



LUBRICATION AND MAINTENANCE

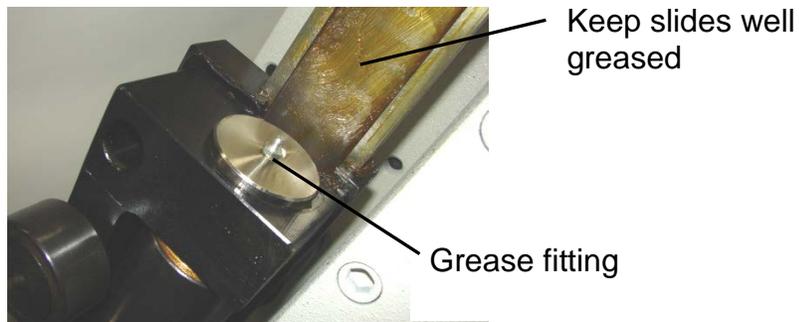
⚠ WARNING: Make sure the electrical disconnect is OFF before working on the machine.
Maintenance should be performed on a regular basis by qualified personnel.
Always follow proper safety precautions when working on or around any machinery.

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- On a weekly basis clean the machine and the area around it.
- Lubricate threaded components and sliding devices.
- Apply rust inhibitive lubricant to all non-painted surfaces.



Note: *Proper maintenance can increase the life expectancy of your machine.*

Regularly inspect, clean, and re-lubricate the moving parts of the machine. Gears, threaded shafts, and bearings should be greased once a month with Shell Alvania R3 or equivalent grease. Also check that all nuts and bolts are properly tightened.



Inspect hydraulic oil level monthly and refill if necessary with Shell #68 hydraulic oil or equivalent. Change after 2000 working hours.



Hydraulic Oil

The hydraulic oil is the primary medium for transmitting pressure and also must lubricate the running parts of the pump.

1. Use hydraulic oil #68 SHELL BRAND or an equivalent with similar specifications.
2. Keep hydraulic reservoir filled to 90% of capacity.
3. DO NOT rely totally on the oil gauge as they can sometimes indicate an incorrect level reading. Do a visual inspection with the oil fill cap removed as well.
4. A shortage of hydraulic oil will cause hydraulic system breakdown to major mechanical components due to overheating.
5. Change the hydraulic oil every 12 months along with the oil filter.

Oil Disposal

Used oil products must be disposed of in a proper manner following your local regulations.

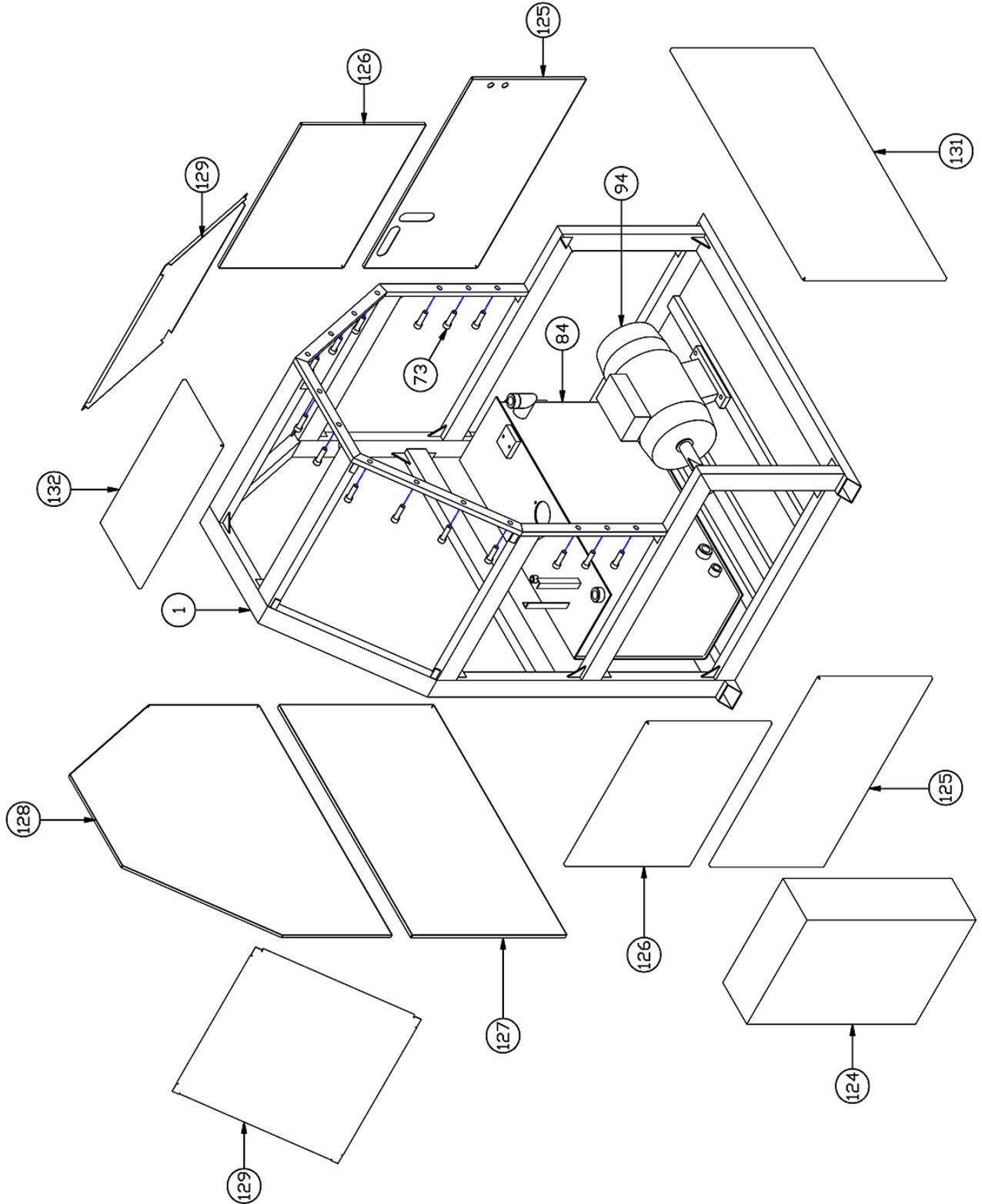
Storing Machine for Extended Period of Time

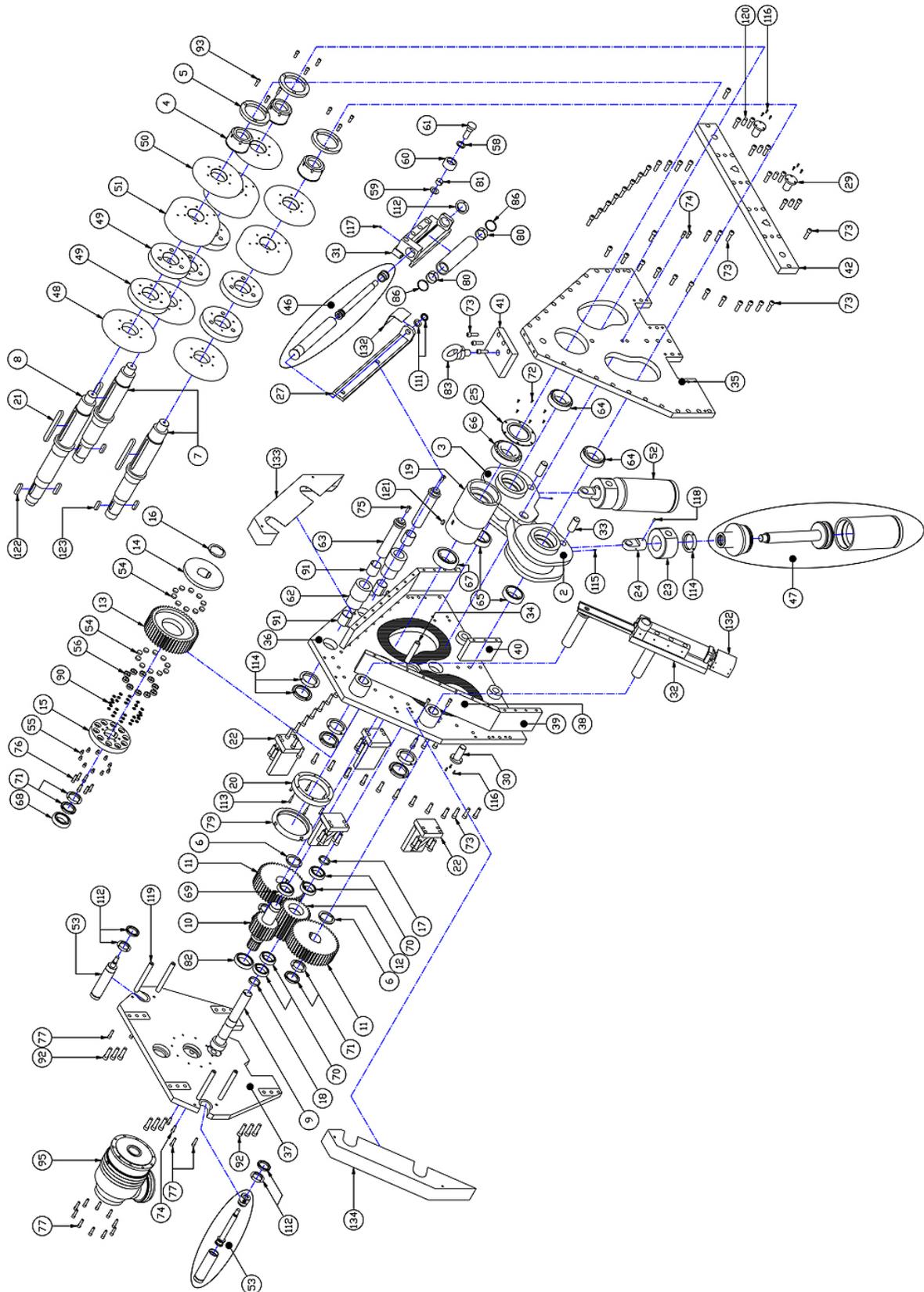
If the machine is to be inactive for a long period of time, prepare the machine as follows:

- Disconnect the electrical supply from the power panel.
- Clean and grease the machine.
- Cover the machine.



PARTS DIAGRAM







Parts List

Item	Part No.	Description	Qty.
1	09474	Structure	1
2	09322	Bottom Shaft Support (Male)	1
3	09323	Bottom Shaft Support (Female)	1
4	09103	Tool Nut	3
5	09104	Tool Nut Ring	3
6	09112	Bottom Cog-Wheel Ring	2
7	09113	Bottom Shaft	2
8	09117	Upper Shaft	1
9	09118	Transmission Cog-Wheel Shaft	1
10	09119	Reducer Shaft	1
11	09120	Bottom Cog-Wheel	2
12	09121	Transmission Cog-Wheel	1
13	09122	Cog-Wheel With Clutch	1
14	09125	Cog-Wheel With Clutch Front Cover	1
15	09126	Cog-Wheel With Clutch Back Cover	1
16	09127	Cog-Wheel With Clutch Ring	1
17	09128	Cog-Wheel With Clutch Front Ring	1
18	09129	Cog-Wheel With Clutch Back Ring	1
19	09143	Upper Shaft Bearing Units	1
20	09144	Upper Shaft Bush Ring	1
21	09145	Tools Key	3
22	09146	Spacers Block	4
23	09229	Cylinders Support	2
24	09230	Main Cylinder Eye	2
25	09231	Upper Shaft Nylon Ring	1
26	09254	Lateral Guide Roll	2
27	09255	Right Ruler	1
28	09256	Left Ruler	1
29	09257	Cylinders Rotation Front Axel	2
30	09258	Cylinders Rotation Back Axel	2
31	09259	Ruler Cylinder Right Support	1
32	09260	Ruler Cylinder Left Support	1
33	09261	Main Cylinders Dowel	2



Item		Part No.	Description	Qty.	
34		09262	Plates Spacers	1	
35		09263	Front Plate	1	
36		09264	Middle Plate	1	
37		09266	Back Plate	1	
38		09283	Between Plates Oblique Reinforcements	2	
39		09287	Between Plates Vertical Reinforcements	2	
40		09289	Between Plates Central Reinforcement	1	
41		09294	Between Plates Top Reinforcement	1	
42		09299	Cylinder Support Plate	1	
43		09319	Front Mobile Cover	2	
44		09320	Frontal Fix Cover	1	
45		09321	Right Frontal Fix Cover	1	
46		09250	Ruler Cylinder Ø50 x Ø35 x 340	2	
	1	09246	Ruler Cylinder Shirt	2	
		1	09247	Ruler Cylinder Shirt Extension	2
	2	09249	Ruler Cylinder Piston	2	
		1	09248	Ruler Cylinder Rod	2
		2	08214	Cylinder Piston Plunger	2
	3	08217	Ruler Cylinder Cover	2	
	4		Washer Ø35 x Ø43,6 x 5,3 / 7	2	
	5		Simple O-ring Ø35 x Ø45 x 9	2	
	6		Guiding Strip 10x2x130	2	
	7		O-ring Ø44x3,53	2	
	8		Double Effect O-ring Ø50 x Ø34 x 18,4	2	
	9		O-ring Ø50x2,5	2	
47		09228	Left Main Cylinder Ø160 x Ø60 x 185	1	
	1	09221	Left Main Cylinder Shirt	1	
		1	09207	Left Main Cylinder Shirt Tube	1
		2	09208	Left Main Cylinder Shirt Cover	1
		3	09210	Ruler Inferior Support	1
	2	09226	Main Cylinder Cover	1	
	3	09224	Main Cylinder Piston	1	
		1	09223	Main Cylinder Pistons Plunger	1
		2	09222	Main Cylinder Rod	1
	4		Washer Ø60 x Ø70,6 x 5,3 / 7	1	



Item	Part No.	Description	Qty.	
5		Simple Effect Seal Ø60 x Ø70 x 11	1	
6		Guiding Strip 15x3x215	3	
7		O-ring Ø162x3,5	1	
8		O-ring Ø146,5x8	1	
9		Double Effect Seal Ø160 x Ø138 x 26,5	1	
48	09078	Tool Ø335	3	
49	09080	Tool Ø255	6	
50	09081	Tool Ø315	3	
51	09102	Tool Ø315 Wider	3	
52	09227	Right Main Cylinder Ø160 x Ø60 x 185	1	
1	09209	Right Main Cylinder Shirt	1	
	1	09207	Right Main Cylinder Shirt Tube	1
	2	09208	Right Main Cylinder Shirt Tube Cover	1
	3	09210	Lower Ruler Support	1
2	09226	Main Cylinder Cover	1	
3	09224	Main Cylinder Piston	1	
	1	09223	Main Cylinder Plunger	1
	2	09222	Main Cylinder Rod	1
4		Washer Ø60 x Ø70,6 x 5,3 / 7	1	
5		Simple Effect Seal Ø60 x Ø70 x 11	1	
6		Guiding Strip 15x3x215	3	
7		O-ring Ø162x3,5	1	
8		O-ring Ø146,5x8	1	
9		Double Effect Seal Ø160 x Ø138 x 26,5	1	
53	08130	Lateral Cylinder Ø50 x Ø28 x 130	2	
1	08129	Lateral Cylinder Shirt	2	
	2	08126	Lateral Cylinder Shirt Cover	2
2	08127	Lateral Cylinder Piston	2	
	1	08128	Lateral Cylinder Rod	2
	2	01346	Lateral Cylinder Piston Plunger	2
3	08715	Back Cover	2	
4		Washer Ø28 x Ø33,6 x 5,3 / 7	2	
5		Simple Effect Seal Ø28 x Ø35 x 6	2	
6		O-ring Ø47x2	2	
7		Double Effect Seal Ø50 x Ø34 x 18,4	2	



Item	Part No.	Description	Qty.
8		O-ring Ø51x2,6	2
9		Shaft Nut KM-12	4
54	01112	Clutch Plug	20
55	09076	Clutch Setup Dowel	10
56	08678	Clutch Plug Bush	10
57	08725	Upper Ruler Support	2
58	08065	Exterior Bronze Ring	2
59	08066	Interior Bronze Ring	3
60	08067	Roller	2
61	08067	Roller Shaft	2
62	09056	Frontal Bearing Unit	4
63	09057	Rod Ruler	4
64		Bearing 33019	2
65		Bearing 33016	2
66		Bearing 32220A	1
67		Bearing 33217	1
68		Bearing 6212ZZ	1
69		Bearing 6013ZZ	1
70		Bearing 6012ZZ	4
71		Shaft Nut KM-14	6
72		Hex Socket Head Screw M6x16	12
73		Hex Socket Head Screw M16x55	90
74		Hex Socket Head Screw M12x35	4
75		Hex Socket Head Screw M12x40	4
76		Hex Socket Head Screw M12x40	6
77		Hex Socket Head Screw M12x45	18
78		Hex Socket Head Screw M18x60	16
79	09476	Nut M200x3	1
80		Bronze Oilite Bushing 35 20 DU	2
81		Bronze Oilite Bushing 60 30 DU	4
82		Bearing 6015	1
83		Eye Bolt M36	3
84	09393	Oil Tank	1
1		Bush 1/2" Fitting	1
5	09394	Oil Tank Flange	1



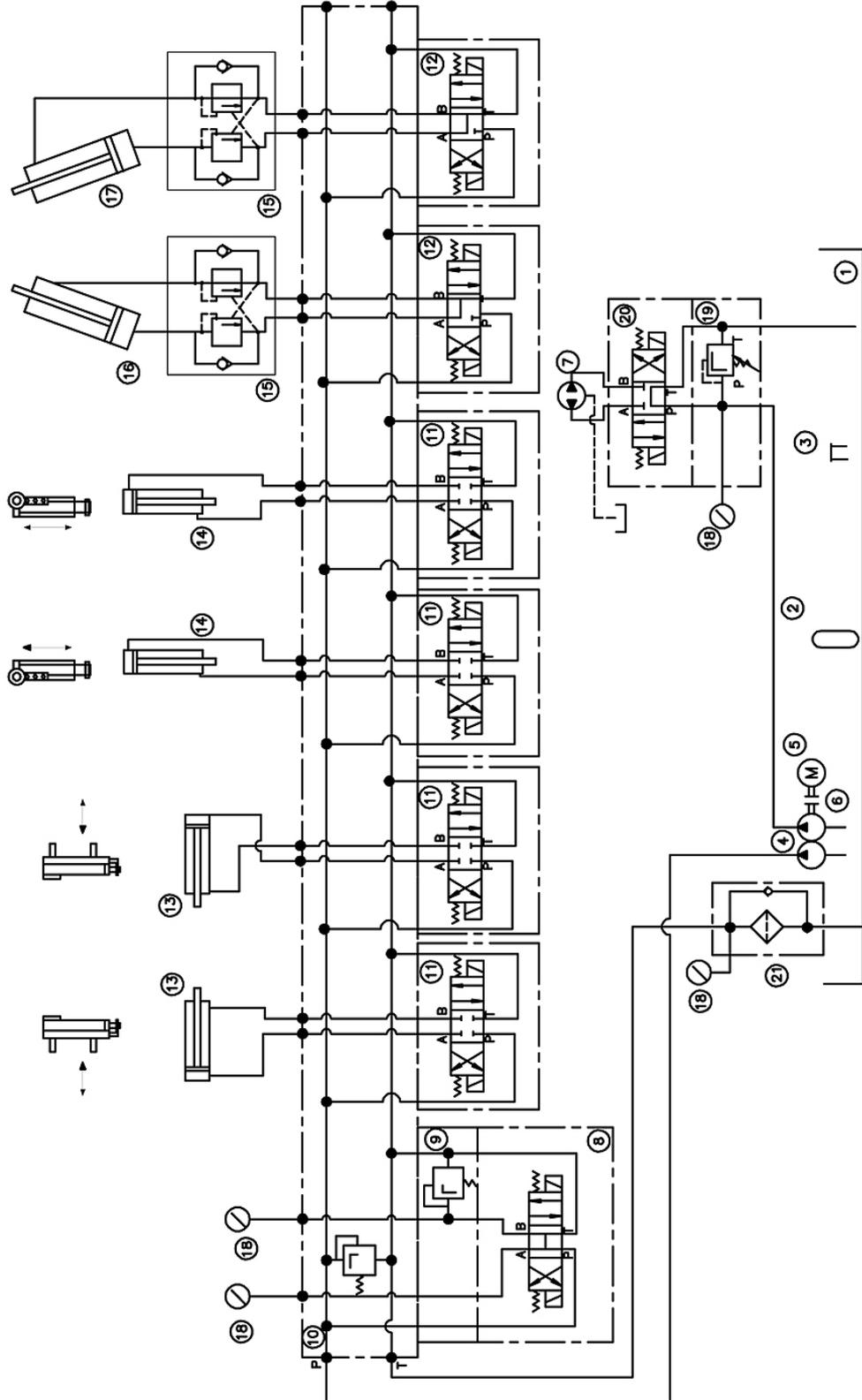
Item	Part No.	Description	Qty.
7		Bush 1" Fitting	3
10		Bush 3/8" Fitting	3
85	09395	Oil Tank Flange Cover	1
86	09975	Lateral Roll Ring	4
90		Ring Ø20 x Ø10,2 x 1,1	30
91		Bronze Oilite Bushing 60 70 DU	8
92		Hex Socket Head Screw M18x65	12
93		Hex Socket Head Screw M12x30	9
94		Motor 15CV -- 1500rpm -- B35	1
95		Reducer BREVINI ED2065/FE/31.5/00	1
96		Hydraulic Motor SAMYDRAULIK HRC100 CL320	1
97		Oil Lever PL2	2
98		Aspiration Filter OMT 102-100	1
99		Pump 19+6	1
100		Coupler 350 Gr2	1
101		Electro-valve YUKEN DSG-01-3C3-C24-N70	1
102		Pressure Limiter Valve MBB-01-H30	1
103		Block NG-6 -- 7 Position	1
104		Electro-valve YUKEN DSG-01-3C2-D24-N70	4
105		Electro-valve YUKEN DSG-01-3C4-D24-N70	2
106		Retention Valve CBF K0HU 3/8"	2
107		Pressure Gauge 0-250 Bar Ø63	4
108		Block CBF BEC 5ULP 801203	1
109		Electro-valve YUKEN DSG-03-3C60-D24-N50	1
110		Return Filter OMT F112 C25 MA2	1
111		Axel Nut KM-6	4
112		Axel Nut KM-12	2
113		Hex Socket Head Screw M8x40	6
114		Axel Nut KM-18	10
115		Hex Socket Head Screw M6x16	2
116		Hex Socket Head Screw M6x16	12
117		Hex Socket Head Screw M8x35	2
118		Hex Socket Head Screw M10x16	2
119	09489	Spacer Shaft	4
120	09488	Front Plate Dowel	4



Item	Part No.	Description	Qty.
121		Central Bearing Unit Key	1
122		Upper Shaft Key	2
123		Lower Shaft Key	4
124		Electric Cabinet	1
125		Lateral Inferior Cover	2
126		Lateral Middle Cover	2
127		Back Inferior Cover	1
128		Back Superior Cover	1
129		Lateral Superior Cover	2
130	12561	Frontal Cylinder Cover	2
131		Frontal Cover	1
132		Superior Cover	1
133		Frontal Superior Right Cover (Hydraulic)	1
134	12356	Frontal Superior Left Cover (Hydraulic)	1



HYDRAULIC SCHEMATIC & PARTS IDENTIFICATION

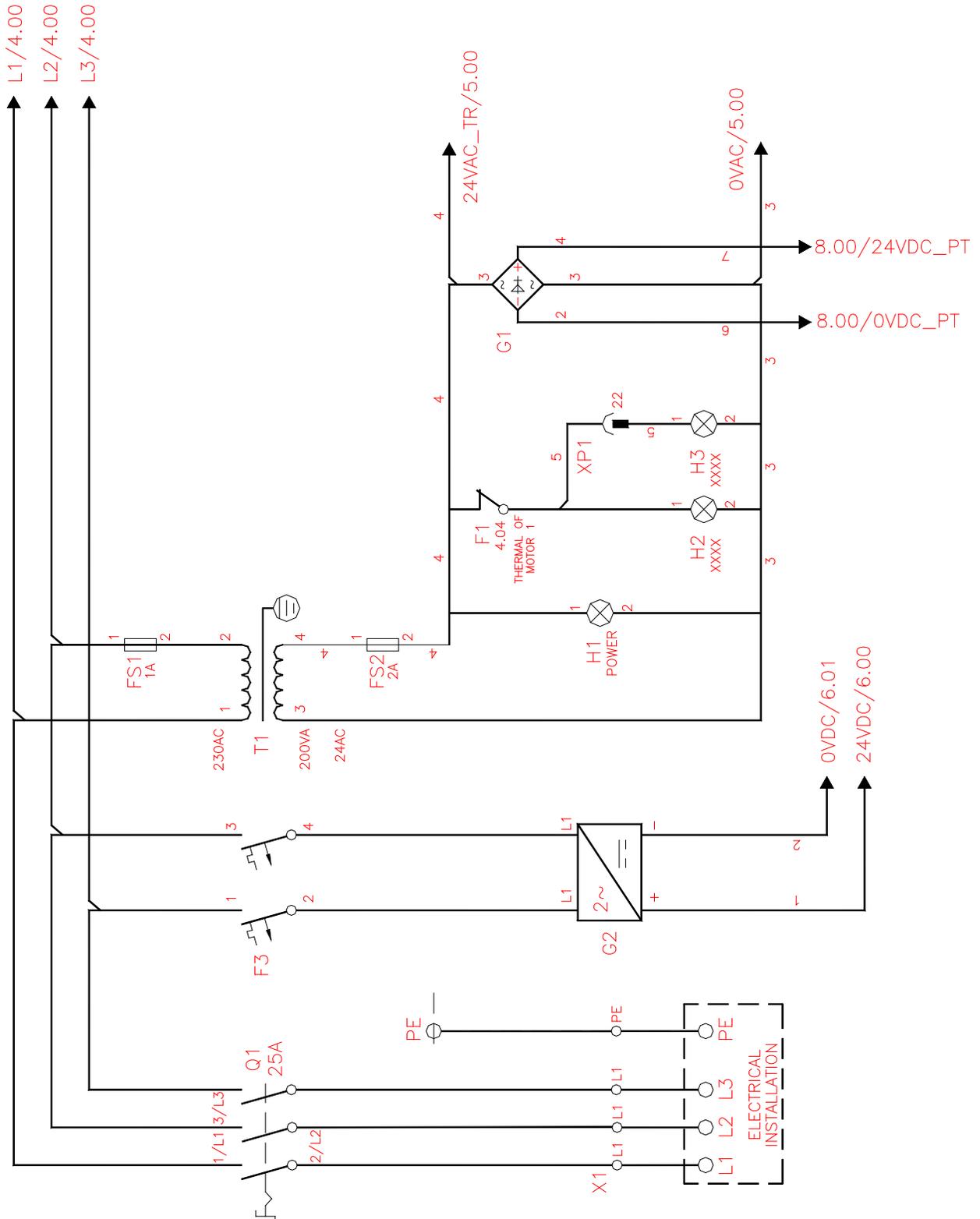




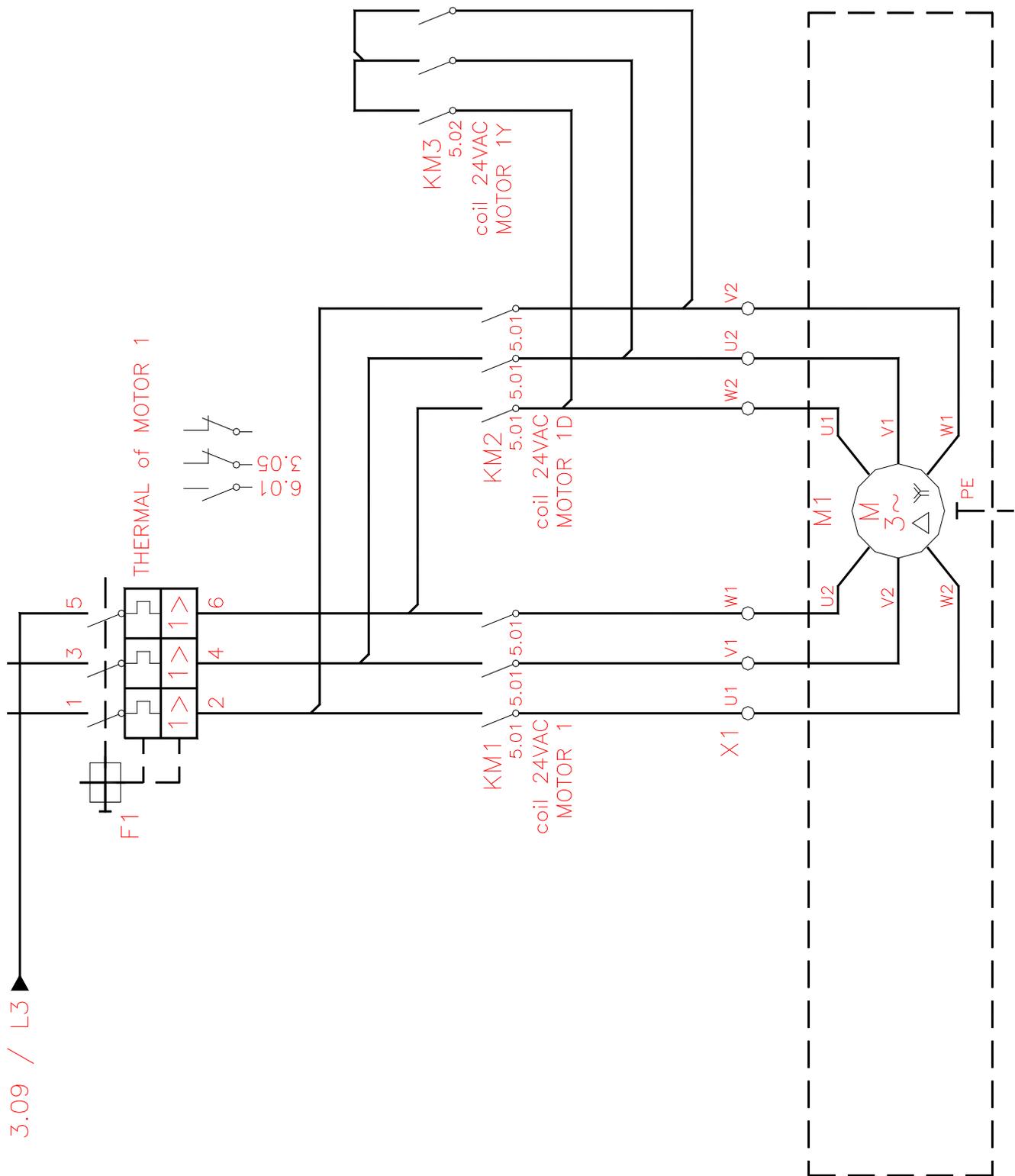
Item	Description	Qty.
1	Hydraulic tank	1
2	Sight gauge	2
3	Filter breather	1
4	Gear pump	1
5	Motor - 15hp (11kw)	1
6	Motor/pump coupling	1
7	Hydraulic motor	1
8	Directional control valve	1
9	Pressure relief valve	1
10	Hydraulic block	1
11	Directional control valve	4
12	Directional control valve	2
13	Guide roll piston	2
14	Guide roll cylinder	2
15	Over-center valve	2
16	Roller cylinder	1
17	Roller cylinder	1
18	Pressure gauge	2
19	Directional control valve	1
20	Pressure relief valve	1
21	Return filter	1



ELECTRICAL SCHEMATIC – POWER CIRCUIT 1 of 7

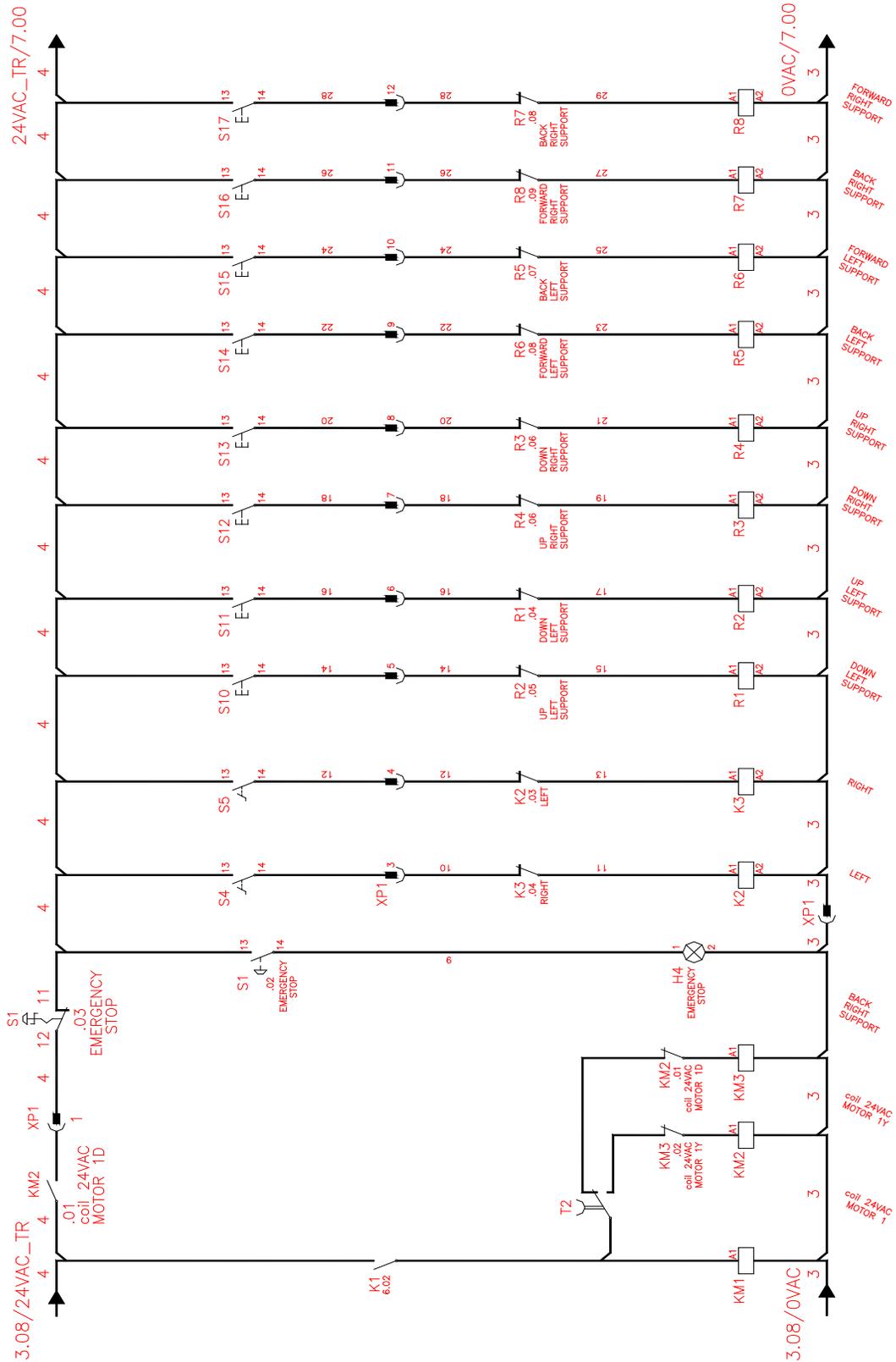


Electrical Schematic – Motor Circuit 2 of 7



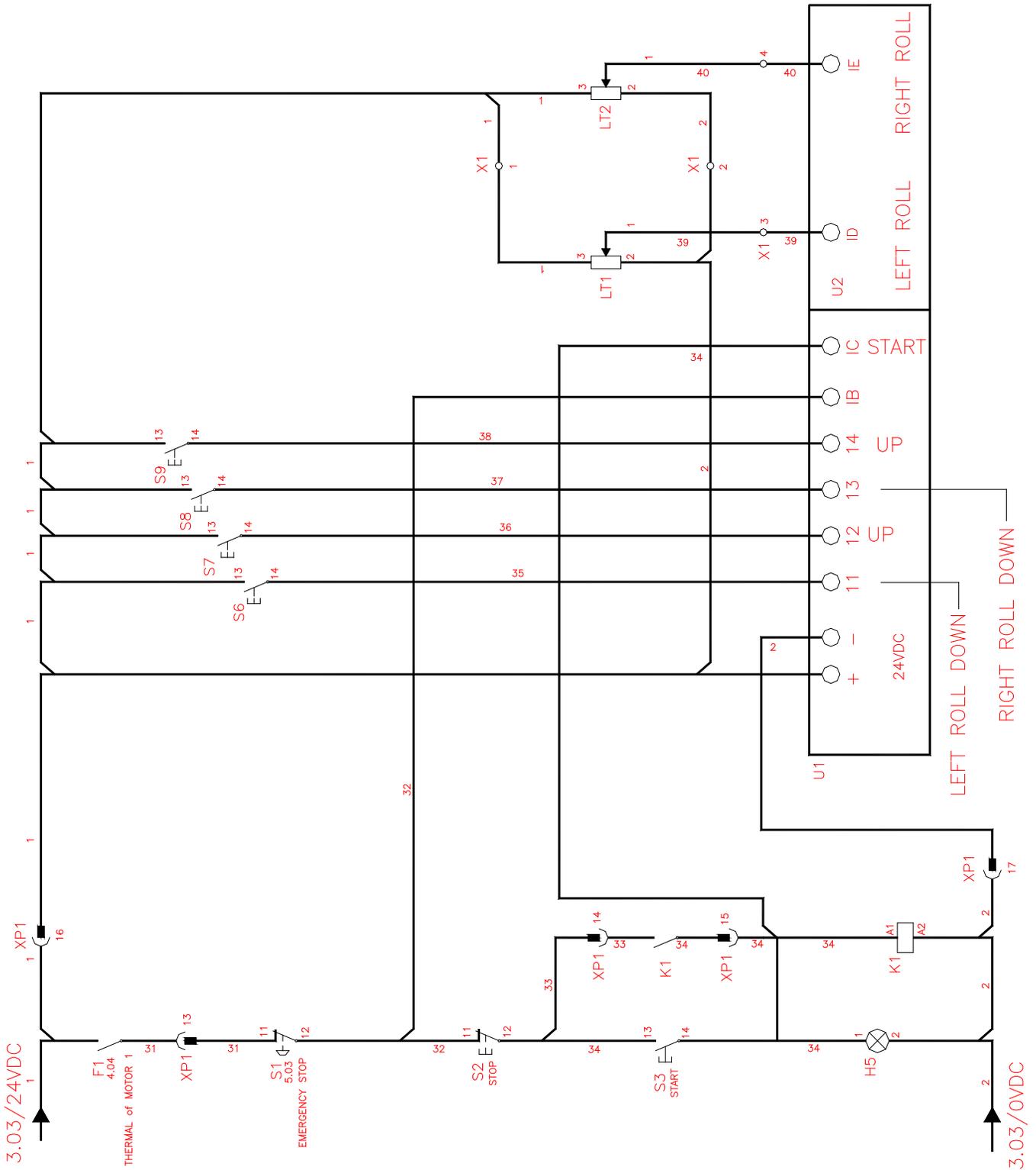


Electrical Schematic – Logic Circuit 3 of 7



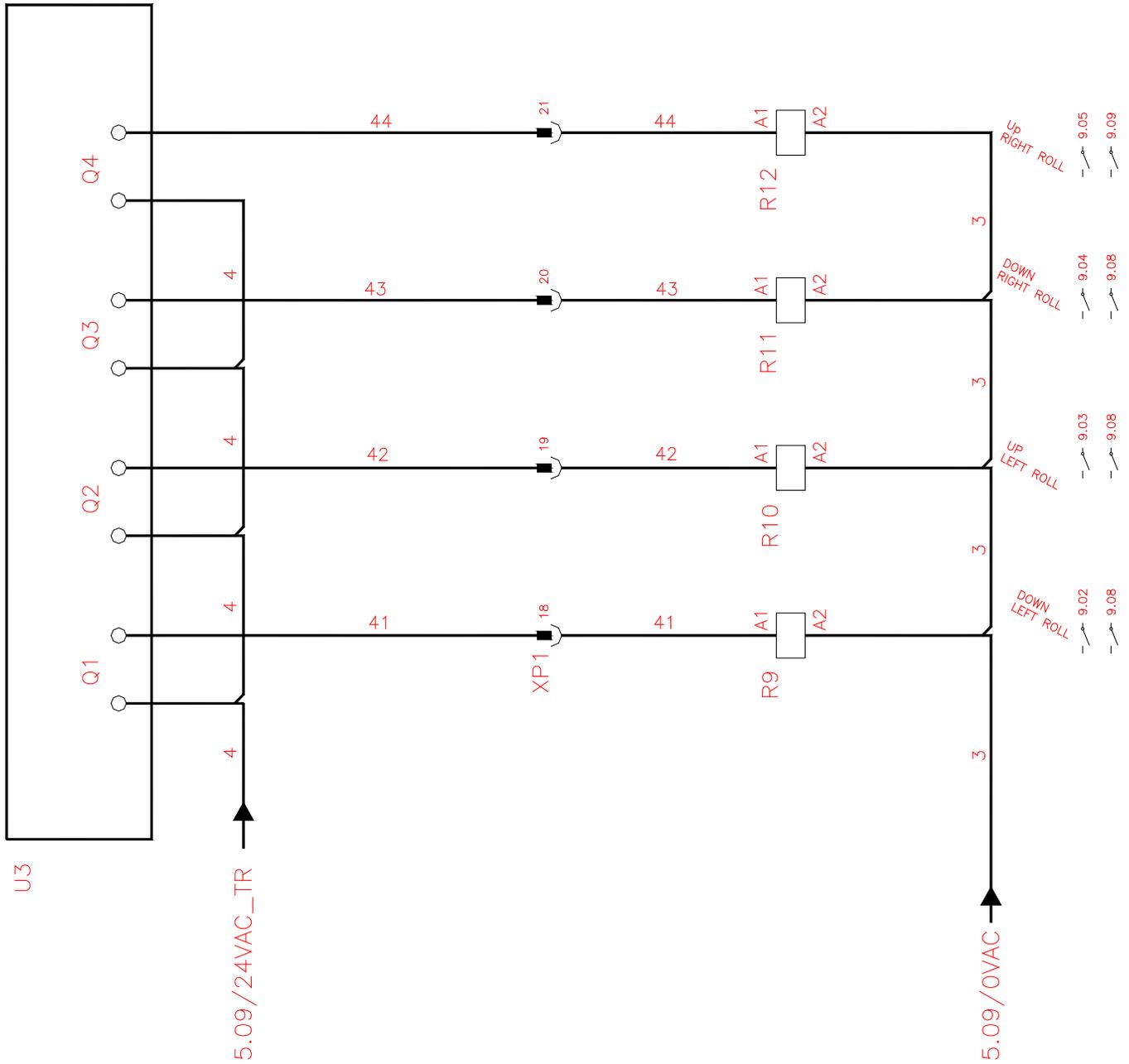


Electrical Schematic – Logic Circuit 4 of 7



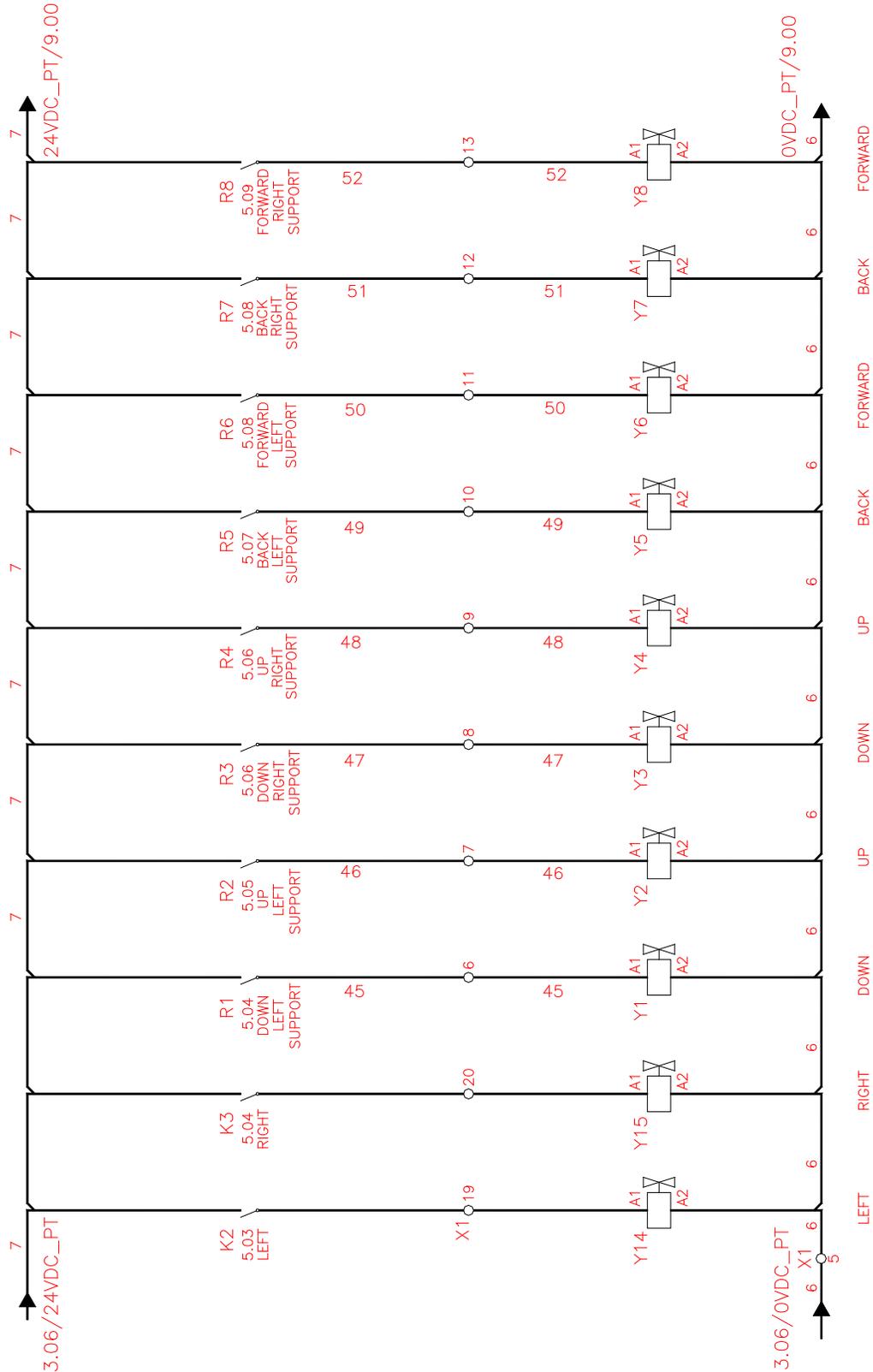


Electrical Schematic – Logic Circuit 5 of 7



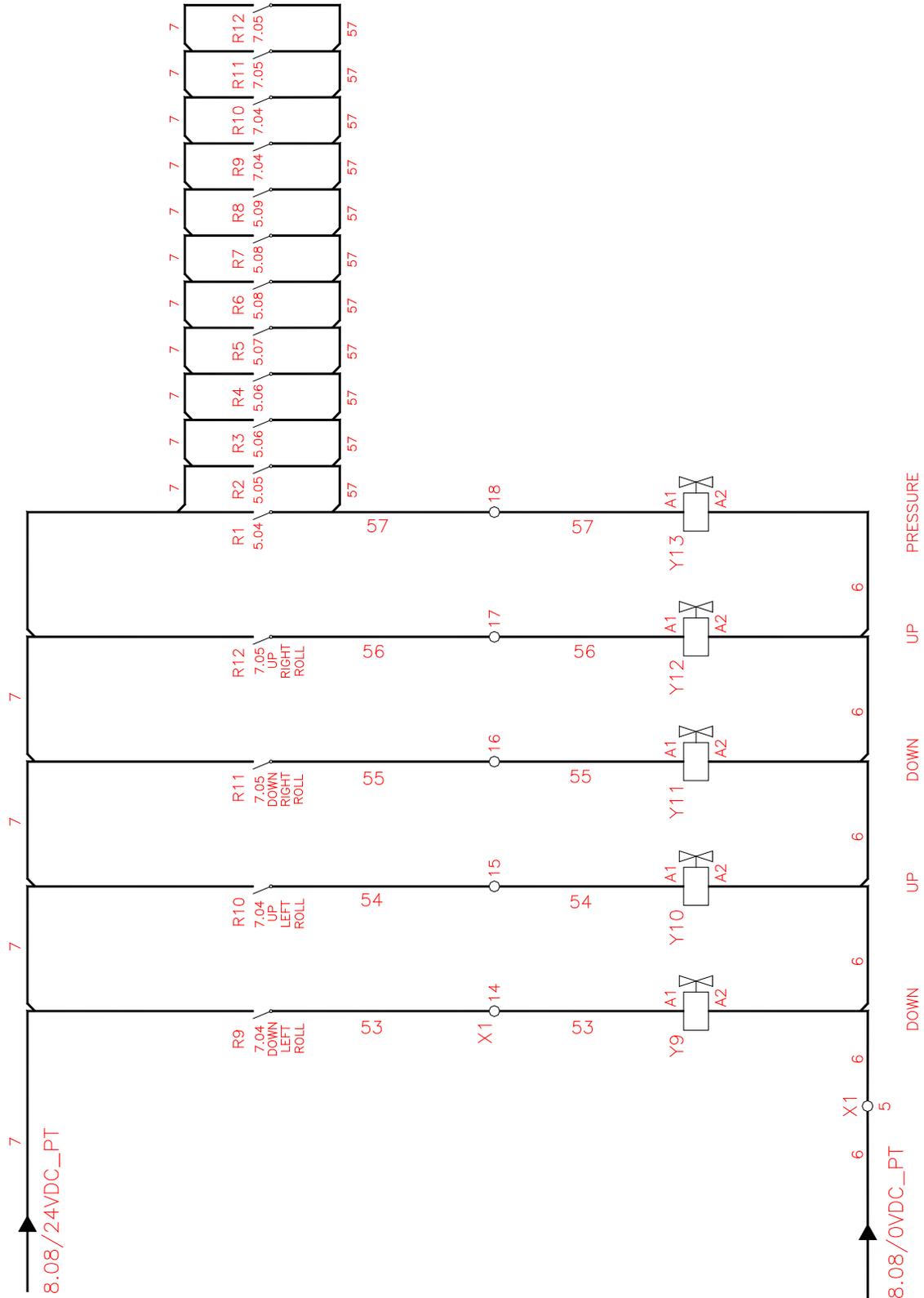


Electrical Schematic – Valve Circuit 6 of 7





Electrical Schematic – Valve Circuit 7 of 7





TROUBLESHOOTING

 **WARNING:** Make sure the electrical disconnect is OFF before working on the machine.

FAULT	PROBABLE CAUSE	REMEDY
MACHINE DOESN'T RUN	Power to machine disconnected	Reconnect power
	Check if the Emergency stop button was pressed	Twist clockwise (cw) to reset
	Power switch on electrical box is off	Turn switch to on position (1)
	Thermal sensor detected overheated motor	Wait for motor to cool down

NOTES



BAILEIGH INDUSTRIAL, INC. 1625 DUFEEK DRIVE MANITOWOC, WI 54220

PHONE: 920. 684. 4990 FAX: 920. 684. 3944

www.baileigh.com

BAILEIGH INDUSTRIAL, INC. 1455 S. CAMPUS AVENUE ONTARIO, CA 91761

PHONE: 920. 684. 4990 FAX: 920. 684. 3944

BAILEIGH INDUSTRIAL LTD. UNIT D SWIFT POINT

SWIFT VALLEY INDUSTRIAL ESTATE, RUGBY

WEST MIDLANDS, CV21 1QH UNITED KINGDOM

PHONE: +44 (0)24 7661 9267 FAX: +44 (0)24 7661 9276

WWW.BAILEIGHINDUSTRIAL.CO.UK