



# Operating Instructions and Parts Manual

## 30 Ton Shop Press

Model HSP-30A



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## 2.0 Safety Instructions

### **⚠ WARNING**

**Failure to follow these rules may result in serious personal injury**

1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the machine's application and limitations as well as the specific hazards.
2. Only trained and qualified personnel can operate this machine.
3. Make sure guards are in place and in proper working order before operating machinery.
4. Remove any adjusting tools. Before operating the machine, make sure any adjusting tools have been removed.
5. Keep work area clean. Cluttered areas invite injuries.
6. Overloading machine. By overloading the machine, you may cause injury from flying parts. DO NOT exceed the specified machine capacities.
7. Dressing material edges. Always chamfer and deburr all sharp edges.
8. 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.
9. 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.
10. 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.
11. Use eye and ear protection. Always wear ISO approved impact safety goggles. Wear a full-face shield if you are producing metal filings.
12. Do not overreach. Maintain proper footing and balance at all times. DO NOT reach over or across a running machine.
13. Stay alert. Watch what you are doing and use common sense. DO NOT operate any tool or machine when you are tired.

14. 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.
15. 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.
16. Keep children away. Children must never be allowed in the work area. DO NOT let them handle machines, tools, or extension cords.
17. 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.
18. 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.
19. DO NOT bypass or defeat any safety interlock systems.
20. Keep visitors a safe distance from the work area.

### **⚠ CAUTION**

**Never connect to an air source capable of exceeding 120 PSI. Over pressurizing the tool may cause bursting, breakage, or serious personal injury.**

## 2.1 Machine Safety Labels



Figure 2-1

Familiarize yourself with the following safety notices used in this manual:

**⚠ CAUTION**

This means that if precautions are not heeded, it may result in minor injury and/or machine damage.

**⚠ WARNING**

This means that if precautions are not heeded, it may result in serious injury or death.

**⚠ DANGER**

This means that if precautions are not heeded, it will result in serious or fatal, injury.

**Save the Instructions**

## 3.0 About This Manual

This manual is provided by Baileigh Industrial, covering the safe operation and maintenance procedures for a Baileigh Model HSP-30A 30 Ton Shop Press. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

Technical Support handles questions on setup, operation, schematics, warranty issues, and individual parts needed. Our Technical Support department can be reached at 920-684-4990.

If there are questions or comments, please contact your local supplier or Baileigh Industrial. We can also be reached at our web site: [www.baileigh.com](http://www.baileigh.com).

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

### **WARNING**

**Read and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!**

Register your product online -

<https://baileigh.com/product-registration>



## 4.0 Product Identification

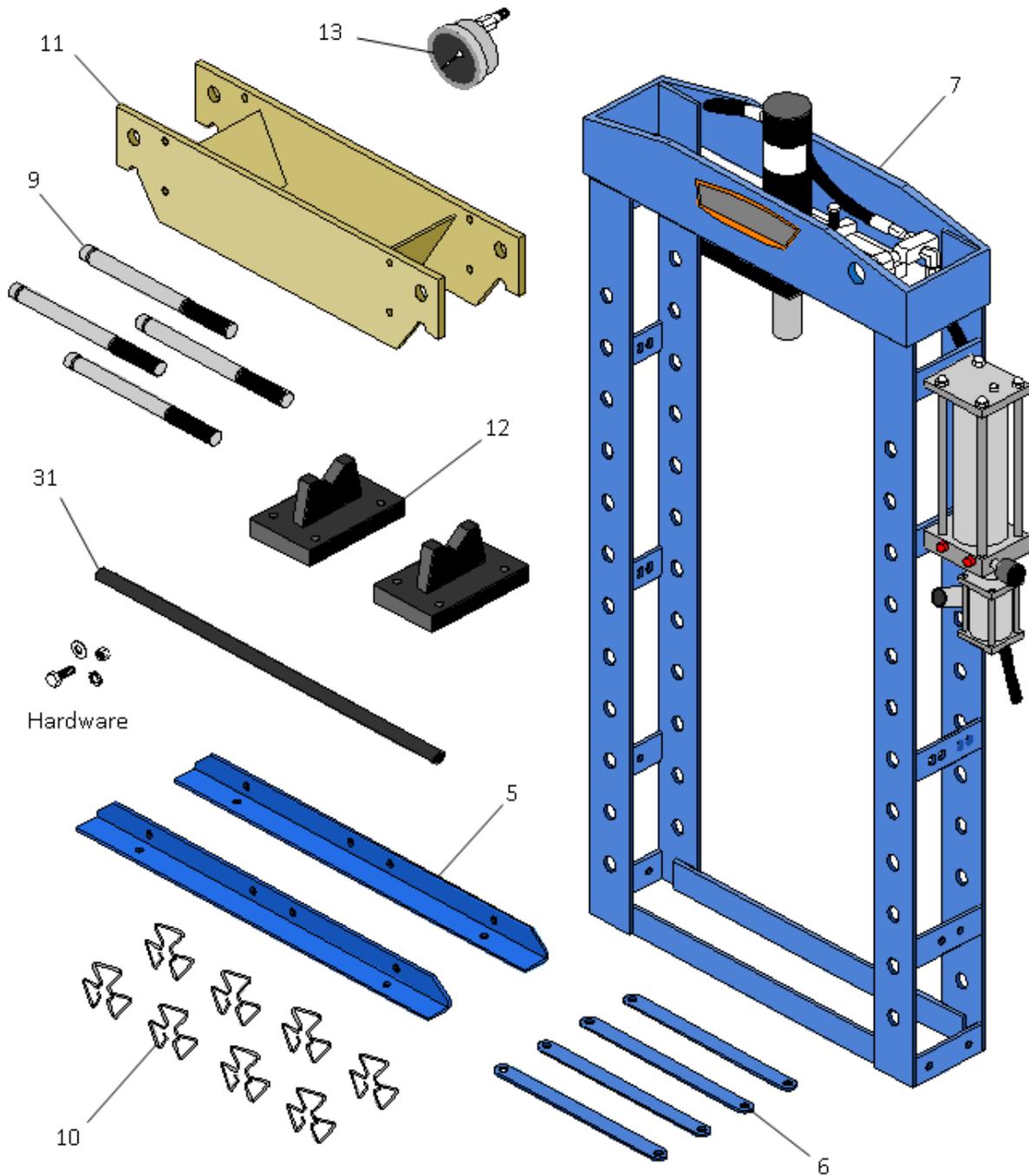


Figure 4-1

Table 4-1

Item	Description	Quantity
1	Hex Bolt M10 x 25mm	8
2	Flat Washer M10	16
3	Lock Washer M10	12
4	Hex Nut M10	12
5	Base Angles	2
6	Brace Supports	4
7	Main Frame w/Hydraulics	1
8	Hex Bolt M10 x 35mm	4
9	Bed Frame Pin	4
10	Circlip	8
11	Bed Frame	1
12	Heel Block	2
13	Pressure Gauge	1
18	Hex Bolt M10 x 20mm	4
31	Handle	1

## 4.1 Overall Dimensions

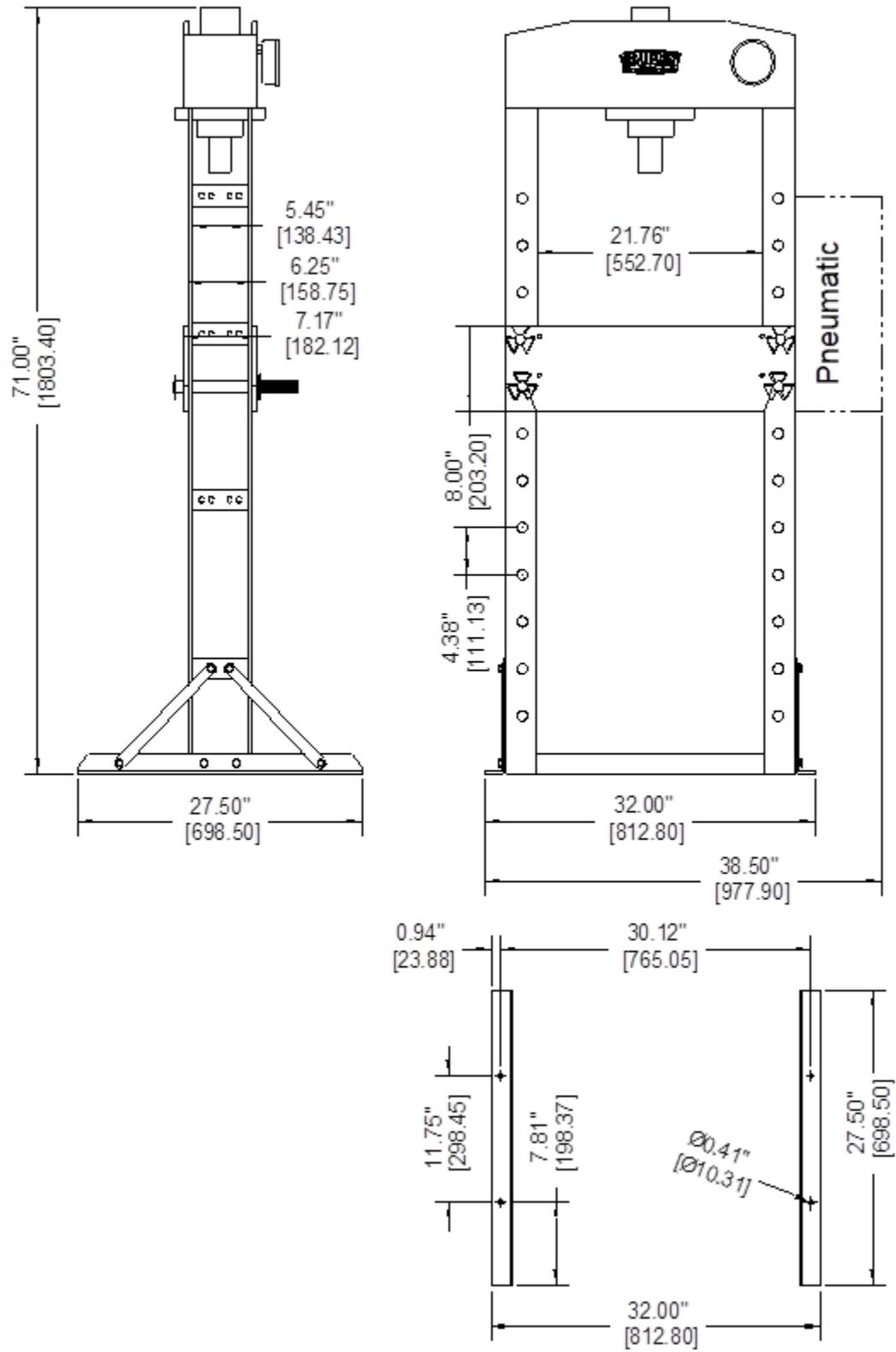


Figure 4-2

Provide adequate clearance for the equipment in an environment that is clean, non-flammable, non-corrosive, and dust free.

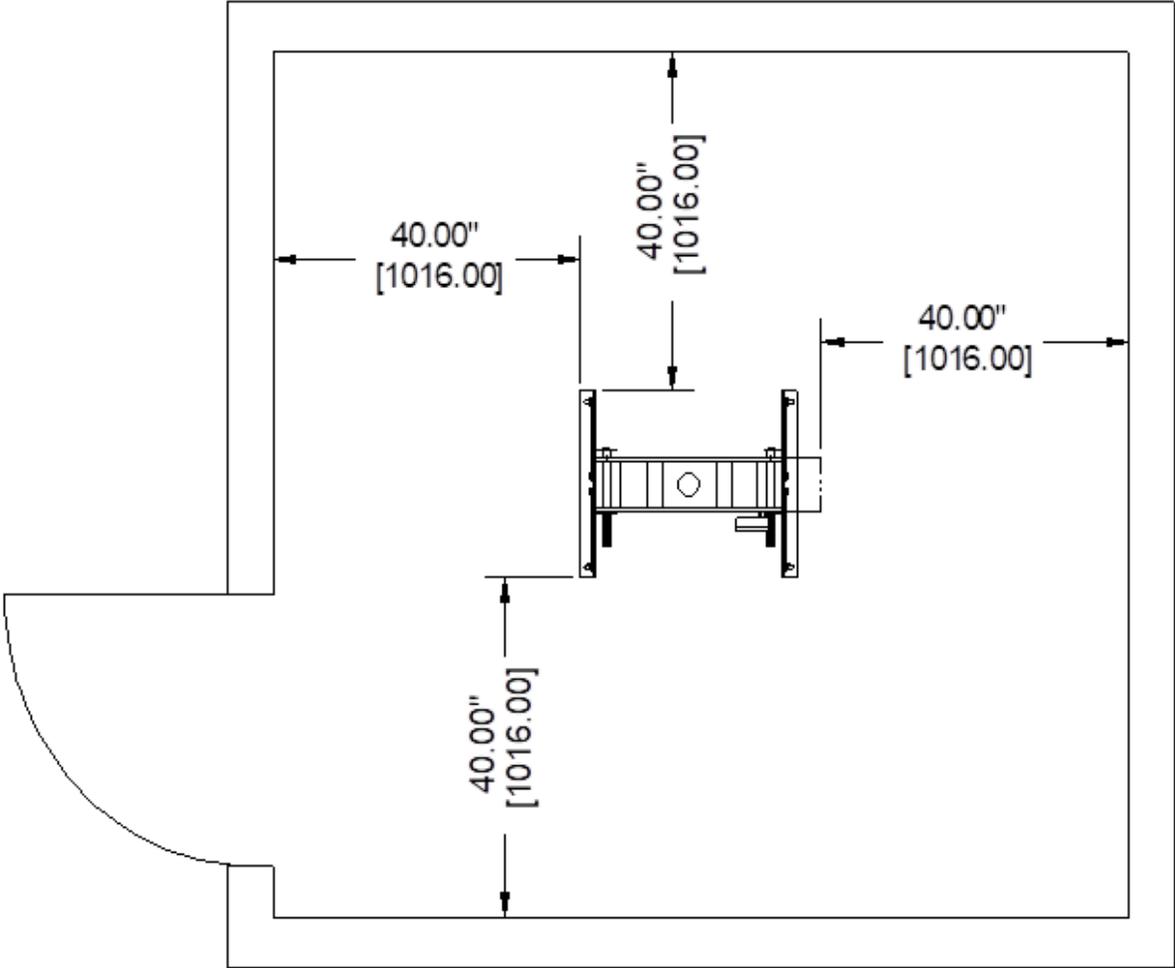


Figure 4-3

## 5.0 Specifications

Table 5-1

Model Number	HSP-30A
Stock Number	BA9-1004816
<b>Motor and Power</b>	
Power Requirement	Pneumatic/Manual
<b>General Specifications</b>	
Maximum Capacity	30 ton (27 ton)
Hydraulic System Pressure	8485psi. (58.5MPa)
Moveable Cylinder	Yes
Working Width	21.65" (550mm)
Cylinder Stroke	5.9" (150mm)
Cylinder Diameter	4.5" (114mm)
Piston Rod Diameter	2" (50.8mm)
Piston Head Diameter	2.375" (60.3mm)
Working Range	2" ~ 44.5" (51 ~ 1131mm)
Air Fitting	¼"NPT
Air Pressure	107 ~ 124psi. (.75 ~ .85MPa)
<b>Weights and Dimensions</b>	
Shipping Weight	450lbs (205kgs)
Shipping Dimensions	74" x 31" x 12" (1880 x 787 x 305mm)

## ⚠ WARNING

Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.

## 6.0 Setup and Assembly

### 6.1 Unpacking and Checking Contents

Your Baileigh machine is shipped complete. 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.

## ⚠ WARNING

If any parts are missing, **DO NOT** place the machine into service until the missing parts are obtained and installed correctly.

### 6.2 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.

## 6.3 Transporting and Lifting

## NOTICE

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.

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

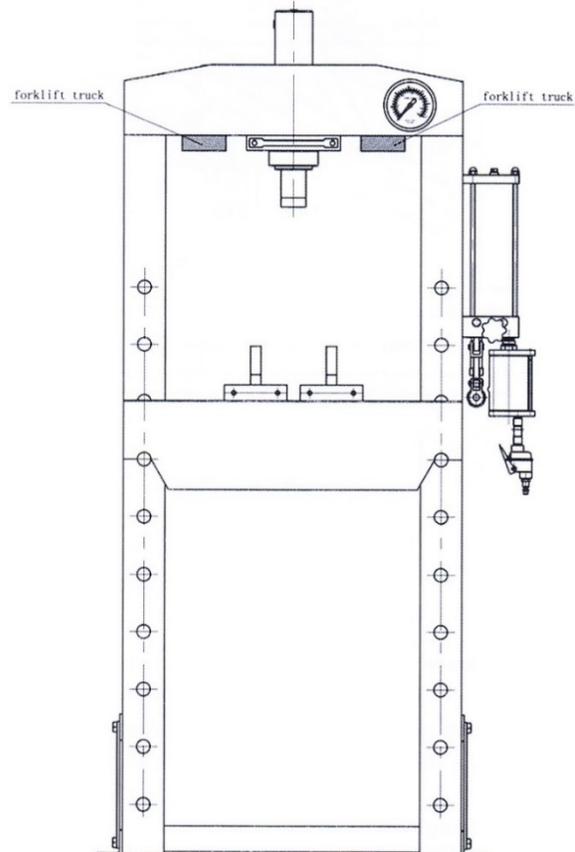


Figure 6-1

## 6.4 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.

### 6.4.1 Anchoring the Machine

- Once positioned, anchor the machine to the floor, as shown in the diagram, using bolts and expansion plugs or sunken tie rods that connect through holes in the base of the stand.

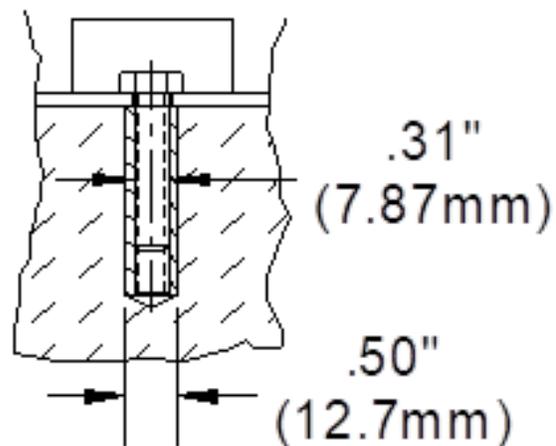


Figure 6-2

### **WARNING**

**Before operating the press, make sure it is firmly anchored the floor. If it tips over on you, it could cause severe injury or death.**

### 6.4.2 Tank Filling

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

After installation of the machine and before machine startup, bring the oil level up to 90% of capacity. Verify that any cylinder rams are in the retracted position to prevent overfilling of the tank. Recheck the oil level after the first few hours of operation and again after the first full week of operation.

**A shortage of hydraulic oil can cause hydraulic system breakdown and damage to major mechanical parts due to overheating.**

## 6.5 Assembly

### 6.5.1 Mounting Support Structure

While the base (7) is lying on its side, slide the bed frame (11) from the bottom of the base. This provides for better access when attaching the support structure.

1. Attach the base section angle (5) to the base (7) with two M10 x 35mm hex bolts (8), flat washers (2), lock washers (3), and nuts (4). Add the two supports (6) with four M10 x 25mm hex bolts (1), flat washers (2), lock washers (3), and nuts (4). Repeat for the opposite side of the base. (Tighten all nuts and bolts securely.)

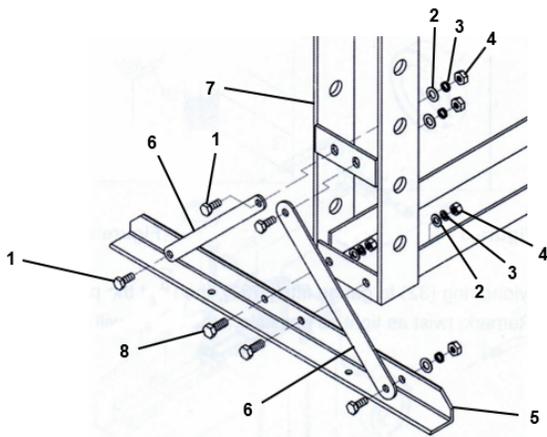


Figure 6-3

- Slide the bed frame (11) back down to the bottom of the base before standing the press up. Now using suitable lifting equipment, safely lift the press to a vertical position. Make sure the pneumatic cylinder assembly is supported and not hanging by the hoses which could damage them.

### 6.5.2 Hanging the Cylinder Assembly

- Move the cylinder assembly (34) to the outside of the base frame (7) as shown and attach to the frame members using four M10 x 20mm hex bolts (18) and flat washers (2). Tighten securely.

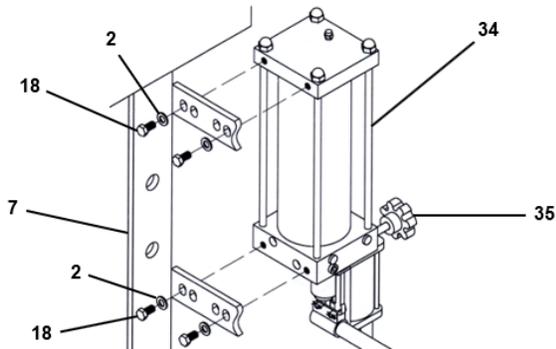


Figure 6-4

### 6.5.3 Attaching Hydraulic Lines

- Turn valve (50) counterclockwise (ccw) to relieve any pressure in the system.
- Remove and discard the plugs (A) from the end of the pressure hose and from the elbow fitting.
- Connect the pressure hose to the fitting and tighten.
- Remove the compression fitting (B) from the top of the reservoir.
- Remove and discard the plugs from the compression fitting and from the end of the tube (C).

- Slide the compression fitting nut over the tube and then install the tube onto the compression fitting bayonet.
- Firmly tighten the compression nut onto the fitting without causing damage to the tube or the fitting.

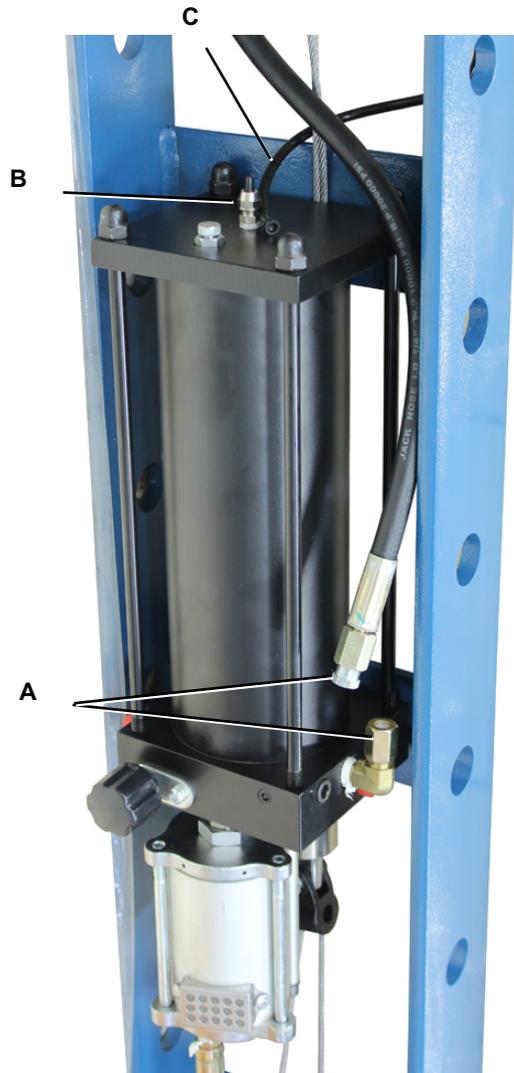


Figure 6-5

## 7.0 Adjustments

### 7.1 Before Operating

- Securely fasten this hydraulic press to a level concrete floor.
- Make sure there is adequate lighting and a 40" (1,016mm) minimum clearance around the entire machine.
- Before using for the first time, pour a teaspoon of good quality air tool lubricant into the air supply inlet of the lift control valve. Connect a 120 psi (.83Mpa) airline to the control valve and press the handle for 3 seconds to evenly distribute the lubricant.

4. To purge air from the manual system, open the release valve (35) by turning it counterclockwise (ccw) a couple turns. Pump the manual handle several full strokes to eliminate any air in the system. Turn the release valve (35) clockwise (cw) to close.
5. To purge air from the compressed air system, open the release valve (35) by turning it counterclockwise (ccw) a couple turns. Connect your airline to the fitting on the lift control valve. Press the valve handle and let the pump work several times to eliminate any air in the system. Turn the release valve (35) clockwise (cw) to close.



Figure 7-1

## 7.2 Ram Slide Adjustment

To move the ram slide laterally:

1. Loosen the four spring loaded hex bolts.
2. Slide the assembly to a new location.
3. Re-slug the spring loaded hex bolts enough to secure the ram slide.



Figure 7-2

## 8.0 Operation Preplanning

This is a general discussion on press operation and is not intended to be an exact step-by-step procedure. This is intended to create a broad thought process to be considered prior to using the press to stimulate the operator into thinking about as many possible scenarios that could cause injury or material damage. The operator should then take all steps they can think of to prevent or protect against such possible scenarios.

**The following is a listing of some of the most common procedures the operator shall take into consideration and employ. The specific application will require the operator to address any items not covered here.**

1. Provide a container or applicable padding under the press to protect the part when it drops.
2. Position the heel plates to support the workpiece and aligns the press pin or tooling on the part to be pressed.
3. Preload the workpiece prior to proceeding with the full pressing operation.
4. View the setup from various angles and verify that the ram remains aligned with and centered with the workpiece and the bed.
5. Relieves the hydraulic pressure and allows the ram to return to the retracted position.

### **⚠ WARNING**

**Failure to center the piece part on the blocks and the ram to the piece part may cause serious injury.**

## ⚠️ WARNING

Never compress springs or objects that when compressed, could shatter, or explode out of the press causing serious injury.

### 8.1 Workpiece Considerations

Before using this hydraulic press, you must inspect the workpiece. This is not a comprehensive list but rather a list of common issues. It is up to you to address any additional special items required to prepare your workpiece for press operations. Not addressing the items below can lead to galled, seized, or broken housings. Ignoring any of the items listed can lead to a workpiece or tooling being ejected from the press, which could cause severe injury or death.

- **Material Strength:** Make sure that the workpiece material is designed to withstand the intended force the press will apply.
- **Material Cleanliness:** Make sure that the workpiece is clean and that all burrs, grit, rust, or damage is removed from the pressing path. Light oiling on the components may prevent galling or seizing.
- **Pressing Path and Sequence:** Make sure that the direction of the component to be pressed on or off is correct and that the correct size of sleeve or arbor plate is used for support.
- **Fasteners and Retainers:** Make sure that all retaining rings, pins, or fasteners are removed, and no hidden secondary retainers are present.
- **Hidden Objects:** Some components house one or more pieces such as springs, retaining rings, or spacers. Make sure that the part to be dismantled with the press has the applicable caging system to catch hidden items. Should the workpiece slip or open up when the retaining ring is removed and the hydraulic pressure is relieved.
- **Special Fits:** Make sure that interference fits are correct before pressing a part on, and make sure that the applicable parts have been heated or chilled to the correct temperatures to avoid galling and seizing. Be aware, that not all parts were designed to be pressed off. If in doubt, refer to the OEM of the part you are working on.

## 9.0 Operation

### ⚠️ CAUTION

Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from burrs and sharp edges.

## NOTICE

NEVER lift or lower the bed with tooling or material or pressure from the ram on the bed. This will damage the machine voiding the warranty.

1. Select a set of holes where you want to position the bed frame.
2. Have an assistant raise the frame to a point slightly higher than the holes so that the two bed frame pins (9) can be inserted into the holes.
3. Secure the four wire clips (10) to the pins and then lower the frame so it rests squarely on the pins.
4. Place the two heel blocks (12) on the frame. They can be used with the flat side up or the V-block side up. Always push the pins down.

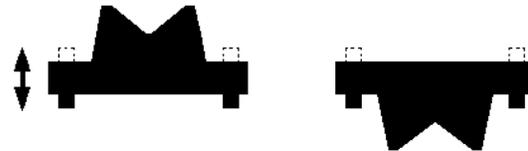


Figure 9-1

**Note:** The heel blocks should always be used as a pair, not individually.

### 9.1 Sequence of Operation

1. Insert the piece part into the V-blocks or onto the flat blocks.
2. Close the release valve by turning it clockwise (cw) until it is off.
3. Connect the quick air valve to a 120 psi (.83 MPa) air source.
4. Press the lever on the air valve to let the pump work until the serrated saddle (14) nears the piece part, then turn off the valve. (When an air source is unavailable, pump the handle (31) until the serrated saddle nears the piece part.)
5. Align the piece part to the ram to ensure center loading.

### ⚠️ WARNING

Failure to center the piece part on the blocks and the ram to the piece part may cause serious injury.

### ⚠️ WARNING

Never compress springs or objects that when compressed, could shatter, or explode out of the press causing serious injury.

1. Press the lever on the air valve or pump the handle to apply load to the piece part. Applied pressure is read on the pressure gauge (13).

2. When the work is done, release the lever on the air valve, or stop pumping on the handle.
3. Slowly and carefully remove the load from the piece part by turning the release valve (35) counterclockwise (ccw) in small increments until the ram backs away from the piece part.
4. Once the ram has fully retracted, remove the piece part from the bed frame.
5. Disconnect the air valve from the air source.

## 10.0 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. 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. All metals exhibit a certain amount of spring back.

## 11.0 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.

## 12.0 Maintenance

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

### 12.1 Daily Maintenance

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- Lubricate threaded components pivot points and sliding devices.
- Check hydraulic hoses and fittings for leakage.

- Keep area around machine clear of debris.
- Clean the outside of the press with a clean, soft, and dry cloth.
- When not in use, keep the press dry and covered. Keep the ram and piston fully retracted to prevent rust or corrosion.
- If press efficiency drops, purge air from the hydraulic system. See Purging the Hydraulic System.

DO NOT allow lubricant on the frame bed or the heel blocks. Wipe off immediately.

### 12.2 Checking the Hydraulic Oil

1. Remove the oil filler nut (32) on top of the reservoir.
2. If oil is low, refill with 22 ISO6743 hydraulic jack oil or equivalent.
3. Replace the oil fill nut (32).
4. Purge air from the hydraulic system.

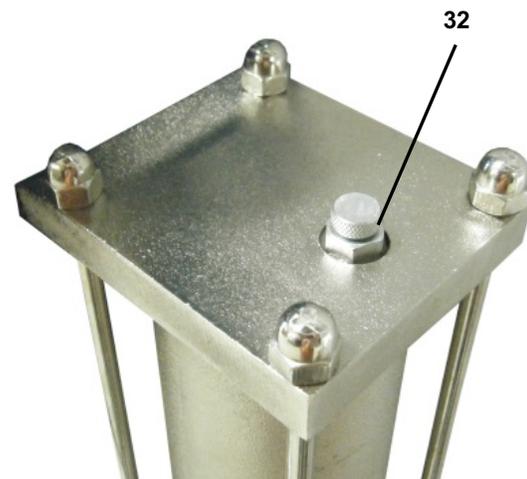


Figure 12-1

### 12.3 Hydraulic System Bleeding

1. Verify that the hydraulic hose (29) is connected to the block (27).
2. Verify that the air source supply pressure is 110~120PSI. The air motor requires this pressure for working.

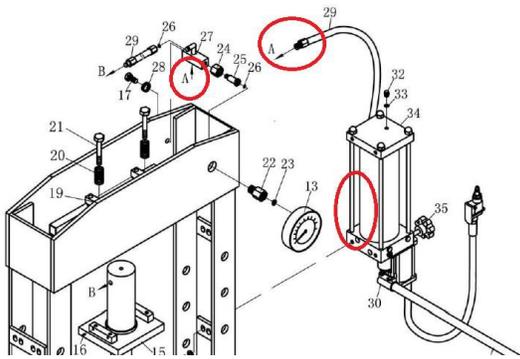


Figure 12-2

3. Open air valve (32) on top of pump reservoir.



Figure 12-3

4. Release the pump retract valve (35) and operate the hand pump fast one minute, then operate the air motor half minute for bleeding air out from hydraulic system.



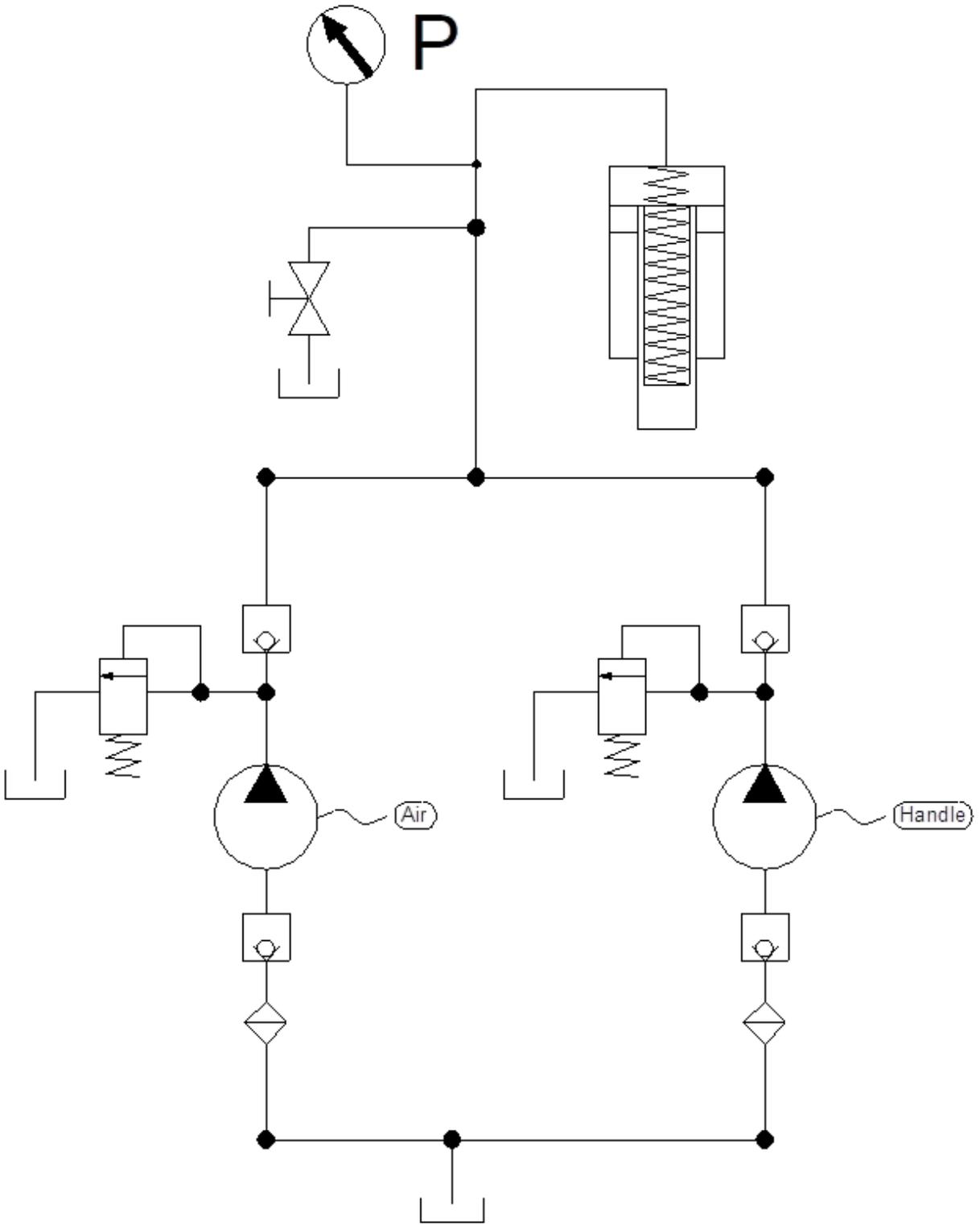
Figure 12-4

## 13.0 Troubleshooting

Table 13-1

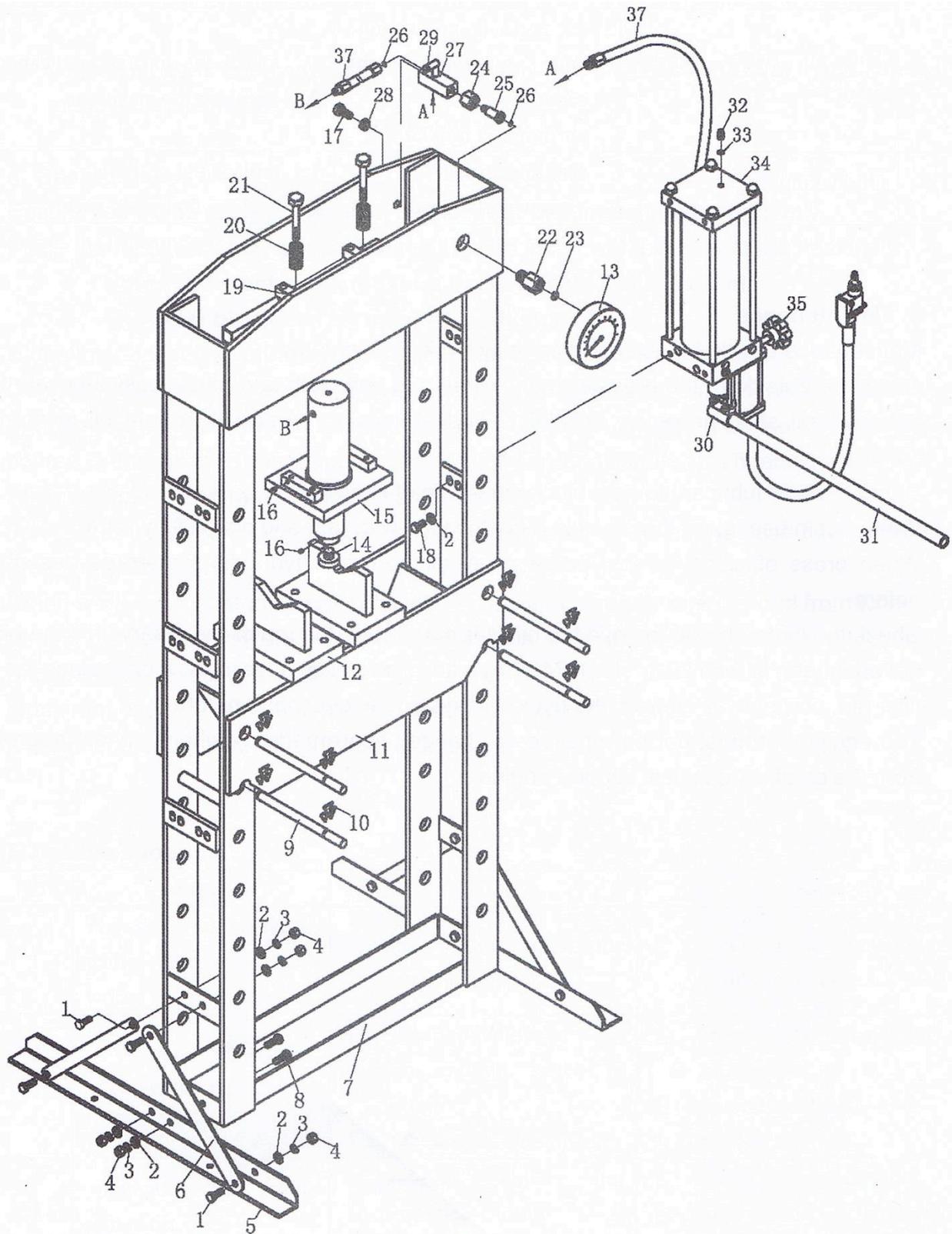
Symptom	Possible Cause (S)	Corrective Action
Pump is Working But The Ram Will Not Move.	The oil pipe is loose.	Tighten pipe connections.
	The ram is leaking.	Replace the oil seals.
When Release Valve is Opened, Ram Does Not Reset.	The oil pipe is loose.	Tighten pipe connections.
	Not enough space in the pump.	Open the exhaust valve.
	Ram is damaged.	Replace the ram.
Sound From Air Motor But Ram Does Not Work.	Release valve not completely closed.	Check and close the release valve.
	Air in system.	Purge the system.
Ram Can Not Complete Stroke.	Not enough hydraulic oil.	Add sufficient oil.
Air Motor Does Not Work.	Not enough air pressure or exceeded the capacity.	Check the air pressure and capacity.
	Air motor is damaged.	Replace the air motor. Contact Baileigh Industrial at 920.684.4990.
Leaking oil	Damaged or worn out cylinder seals.	Replace the seals.
	Screwed parts loose.	Re-tighten screws.
	Damaged hose or hoses.	Contact Baileigh Industrial at 920.684.4990.

# 14.0 Hydraulic Schematic



# 15.0 Replacement Parts

## 15.1.1 Frame Assembly – Exploded View

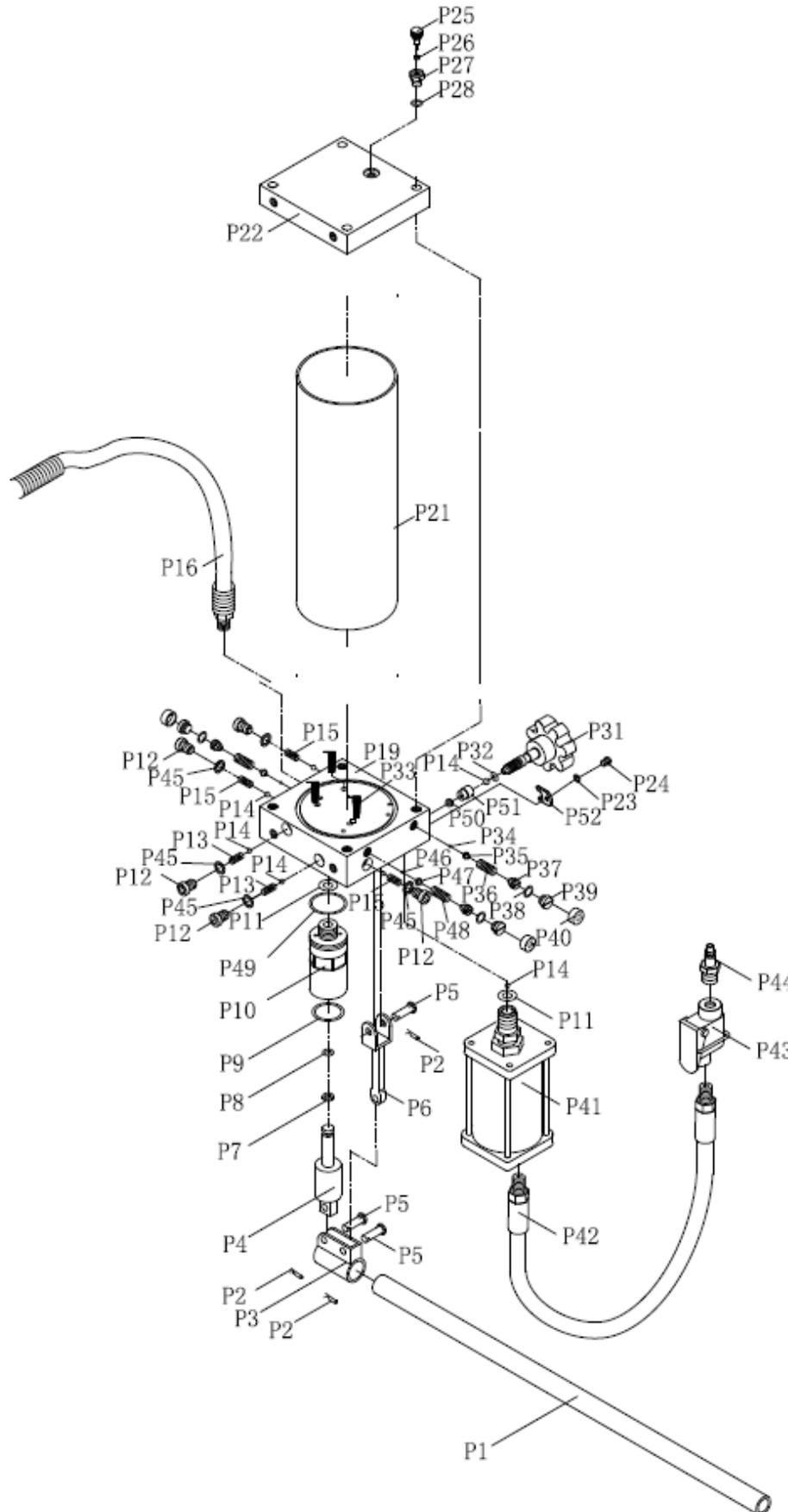


## 15.1.2 Frame Assembly – Part List

Index No.	Part No.	Description	Size	Qty.
1	**	Hex Cap Screw	M12×25	8
2	BA9-1020171	Flat Washer	M12	16
3	**	Lock Washer	M12	12
4	**	Hex Nut	M12	12
5	**	Base Section		2
6	BA9-1009483	Support		4
7	**	Base		1
8	**	Hex Cap Screw	M12×25	4
9	BA9-1009484	Bed Frame Pin		4
10	BA9-1020172	Circlip		8
11	BA9-1020173	Bed Frame		1
12	BA9-1004817	Heel Block		2
13	BA9-1020174	Pressure Gauge		1
14	BA9-1020253	Serrated Saddle		1
15	BA9-1004818	Ram Assembly		1
16	**	Socket Set Screw, Flat Point	M6×8	5
17	**	Hex Cap Screw	M12×25	1
18	**	Hex Cap Screw	M10×20	4
19	BA9-1010587	Link Rod		2
	BA9-1021864	Nylon Block (not shown)		
20	BA9-1019300	Spring		4
21	BA9-1019301	Hex Cap Screw	M10×120	4
22	BA9-1232253	Gauge Fitting		1
23	BA9-1232254	Nylon Ring		1
24	BA9-1232255	Union Nut		1
25	**	Banjo Fitting		1
26	BA9-1232257	O-Ring		2
27	**	Banjo Fitting		1
28	**	Lock Washer	M12	1
29	**	Banjo Fitting		1
30	**	Handle Socket		1
31	**	Handle		1
32	BA9-1014026	Oil Filler Nut		1
33	**	Nylon Ring		1
34	BA9-1004821	Pump Assembly		1
35	**	Release Valve		1
36	**	Plug (not shown)		1
37	**	Short Oil Hose Gauge to Pump		1
	**	Long Oil Hose Gauge to Ram		1

\*\* These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

### 15.1.3 Hydraulic Assembly – Exploded View

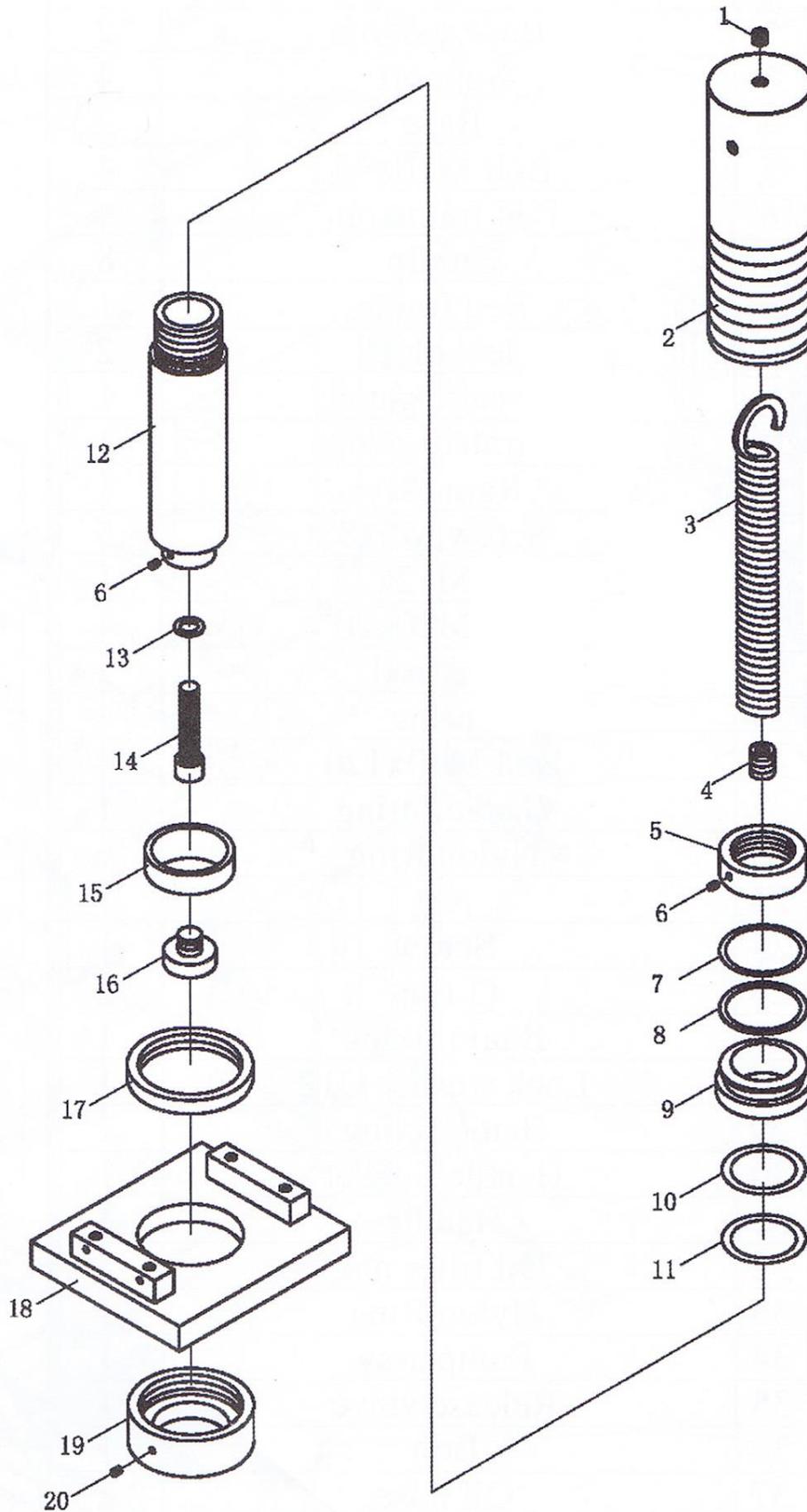


## 15.1.4 Hydraulic Assembly – Part List

Index No.	Part No.	Description	Size	Qty.
P1	**	Handle		1
P2	**	R pin	2x20	3
P3	**	Handle bracket		1
P4	**	Small piston		1
P5	**	Pin Shaft		3
P6	BA9-1022096	Connecting rod		1
P7	**	Nylon ring		1
P8	**	O-ring		1
P9	**	Seal ring		1
P10	**	Small ram		1
P11	**	Copper washer		1
P12	**	Screw		5
P13	**	Spring		2
P14	**	Ball		7
P15	**	Spring		3
P16	**	Short Oil Hose Gauge to Pump		1
P19	**	Base		1
P21	**	Reservoir		1
P22	**	Reservoir cover		1
P23	**	Lock Washer	M6	1
P24	**	Socket Head Button Screw	M6x12	1
P25	**	Screw		1
P26	**	Sealing ring		1
P27	**	Oil filler nut		1
P28	**	Nylon ring		1
P31	**	Release valve		1
P32	**	O-ring		1
P33	**	Filter		3
P34	**	Ball		2
P35	**	Ball Cap		2
P36	**	Spring		2
P37	**	Screw		3
P38	**	O-ring		3
P39	**	Screw		3
P40	**	Screw protector		3
P41	BA9-1004861	Air motor		1
P42	BA9-1004822	Air hose with fitting & valve/trigge		1
P43	**	Air valve		1
P44	**	Quick coupler male		1
P45	**	Copper washer		5
P46	**	Ball		1
P47	**	Ball Cap		1
P48	**	Spring		1
P49	**	O-ring		1
P50	**	Copper washer		1
P51	**	Release seat		1
P52	**	U type limited		1

\*\* These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

### 15.1.5 Main Cylinder Assembly – Exploded View



### 15.1.6 Main Cylinder Assembly – Part List

Index No	Part No	Description	Size	Qty
1	**	Seal Screw		1
2	**	Ram Tube		1
3	**	Spring		1
4	**	Small Nut		1
5	**	Large Nut		1
6	**	Set Screw	M6x8	2
7	**	O-Ring		1
8	**	PTFE Ring		1
9	**	Bushing		1
10	**	O-Ring		1
11	**	PTFE Ring		1
12	**	Ram		1
13	**	Sealing Ring		2
14	**	Socket Head Screw		1
15	**	Ring for Ram		1
16	**	Serrated Saddle		1
17	**	Upper Round Nut		1
18	BA9-1019304	Plate		1
19	BA9-1015911	Under Round Nut		1
20	**	Set Screw		1

\*\* These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

## 16.0 Warranty and Service

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 an 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 an 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 an 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 an 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 10 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, (f) 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, lightning, 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 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 attorney 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 Industrial issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh Industrial 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 [Baileigh-Service@jpwindustries.com](mailto:Baileigh-Service@jpwindustries.com)



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