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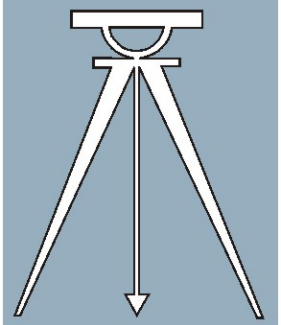
Installation

Single Stage Press MP1540, MPL556, MPL640, MP1650, MPL656, MP1A50, MP1A56

Single Manifold, Single Pump



Read the separate safety manual before installing, operating, or servicing

PELLERIN MILNOR CORPORATION POST OFFICE BOX 400, KENNER, LOUISIANA 70063-0400, U.S.A.

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PELLERIN MILNOR CORPORATION
LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as "equipment"), will be free from defects in material and workmanship for a period of one year from the date of shipment (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will—at our option—repair or replace the defective part or parts, EX Factory (labor and freight specifically NOT included). We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts—the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

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THE PROVISIONS ON THIS PAGE REPRESENT THE ONLY WARRANTY FROM MILNOR AND NO OTHER WARRANTY OR CONDITIONS, STATUTORY OR OTHERWISE, SHALL BE IMPLIED.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

BMP720097/25142

BIUUUD19 (Published) Book specs- Dates: 20081231 / 20081231 / 20081231 Lang: ENG01 Applic: UUU

How to Get the Necessary Repair Components

This document uses Simplified Technical English.
Learn more at http://www.asd-ste100.org.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation
Post Office Box 400
Kenner, LA 70063-0400
UNITED STATES

Telephone: 504-467-2787
Fax: 504-469-9777
Email: parts@milnor.com

— End of BIUUUD19 —

Trademarks

BNUUUU02.R01 0000158093 F.2 E.2 3/3/21, 9:47 AM Released

These words are trademarks of Pellerin Milnor® Corporation and other entities:

Table 1. Trademarks

AutoSpot™	GreenFlex™	MilMetrix®	PulseFlow®
CBW®	GearTrace™	MilTouch™	RAM Command™
Drynet™	GreenTurn™	MilTouch-EX™	Recirc*ONE*®
E-P Express®	Hydro-cushion™	MilRAIL®	RinSave®
E-P OneTouch®	Mentor®	Miltrac™	SmoothCoil™
E-P Plus®	Mildata®	MilVision™	Staph Guard®
Gear Guardian®	Milnor®	PBW™	

End of document: BNUUUU02

Installation Tag Guidelines

BNP1UI05.R01 0000286959 A.2 4/13/20 3:55 PM Released

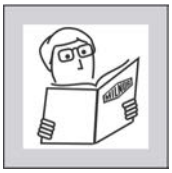
MP1540CL	MP1540CR	MP1540L	MP1540R
MPL556CL	MPL556CR	MPL556L	MPL556R
MPL640CL	MPL640CR	MPL640L	MPL640R
MP1650CL	MP1650CR	MP1650L	MP1650R
MPL656CL	MPL656CR	MPL656L	MPL656R
MP1A50CL	MP1A50CR	MP1A50L	MP1A50R

NOTICE: This information may apply to models in addition to those listed above. It applies to paper tags. It does not apply to the vinyl or metal safety placards, which must remain permanently affixed to the machine and replaced if no longer readable.

Paper tags on the machine provide installation guidelines and precautions. The tags can be tie-on or adhesive. You can remove tie-on tags and white, adhesive tags after installation. Yellow adhesive tags must remain on the machine.

The following entries explain the installation tags. Each entry includes: 1) the tag illustration, 2) the tag part number at the bottom of the tag, and 3) the meaning of the tag.

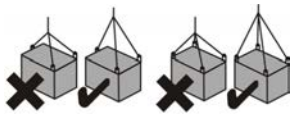
Display or Action **Explanation**



Read the manuals before proceeding. This symbol appears on most tags. The machine ships with safety, operator, and routine maintenance guides for customer use. Milnor dealer manuals for installing, commissioning, and servicing the machine are also available from the Milnor Parts department.

B2TAG88005: This carefully built product was tested and inspected to meet Milnor performance and quality standards by (identification mark of tester).

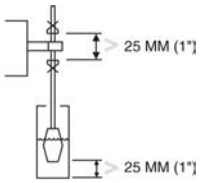
B2TAG94078: Do not forklift here; do not jack here; do not step here—whichever applies.



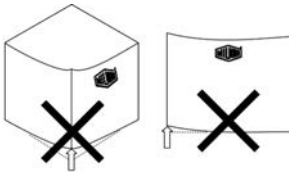
B2TAG94079: Rig for crane lifting (either 3-point or 4-point, depending on the number of lifting eyes provided) using a steep angle on the chains (closer to vertical than horizontal).

B2TAG94081: Motor must rotate in this direction. On single motor washer-extractors and centrifugal extractors, the drive motor must turn in this direction during draining and extraction. This tag is usually wrapped around a motor housing. If the motor turns in the opposite direction when the machine is first tested, the

electrical hookup is incorrect and must be reversed as explained in the schematic manual.

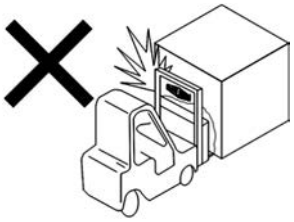


B2TAG94082: Maintain a 25 millimeter (1") minimum clearance between level float clips. Set low level so that the bottom of the float is always at least 25 millimeters (1") above the bottom of the float tube.

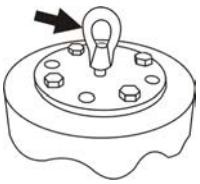


B2TAG94084: Do not lift from one corner of the machine, as this can cause the frame to rack, damaging it.

B2TAG94102 shown—others similar: Match up the components with this number. These tags are used to pair up electrical or hose connections between major components of a machine shipped disassembled.

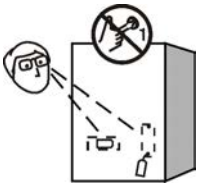


B2TAG94118: Do not strike shipping container during fork-lifting. Fragile components inside.

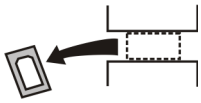


B2TAG98037: Read the installation instructions. Do not attempt to lift the machine with this component. Do not remove this component unless the ram cylinder is mounted to the top plate, the ram is raised fully **and the platen safety bars are installed**. Use this component to raise the ram cylinder for mounting, during installation.

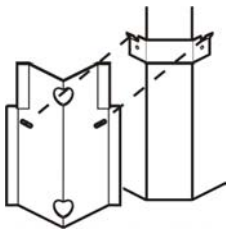
B2TAG98039: Verify that discharge door pressure is within the range shown.



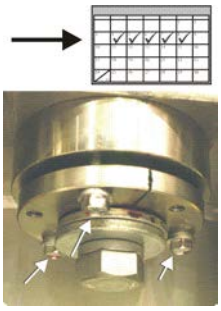
B2T2001028: Look for tags inside the machine. These tags may identify shipping restraints to be removed or components to be installed. Do not start the machine until these actions are completed.



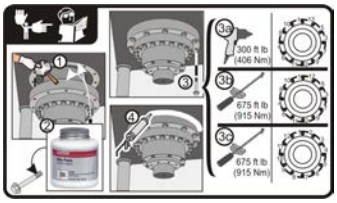
B2T2002013: Do not start the machine until shipping restraints are removed. This tag will appear on the outside of the machine to alert you to the presence of internal shipping restraints. A tag will also appear on the restraint to help identify it. Most, but not all shipping restraints display the color red. Some shipping restraints are also safety stands. Do not discard these.



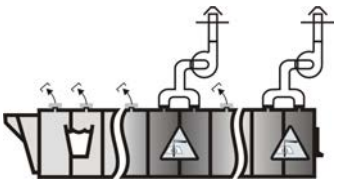
B2T2002016: Store safety stands as shown when not in use.



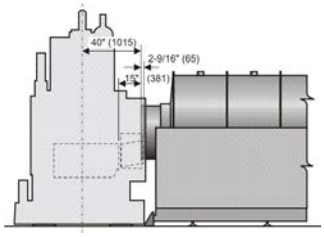
B2T2004028: Read the service instructions. Retighten the can bushing bolts to the torque shown after each of the first five days of operation following installation.



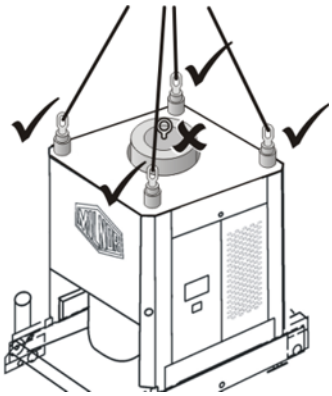
B2T2007017: Read the installation instructions. When mounting the ram, use LocTite moly paste on mounting surfaces. Torque the bolts three times as shown.



B2T2008001: Read the installation instructions. Remove temporary vent covers. Install a powered vent unit on the oxidation zone modules and a separate powered vent unit on the finish zone module and adjacent press, if there is one.



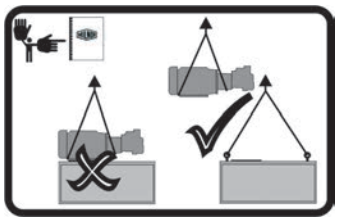
B2T2008006: When installing a G3 CBW tunnel washer behind a 1-stage press, maintain the dimensions shown.



B2T2009017: Lift the press frame from the eye bolts on the four columns. Never attempt to lift the press from the eye bolt on top of the ram cylinder. This eye bolt is used to raise the ram into position.

B2T2010023: Set the press frame in accordance with this instruction and the installation manual.

B2T2016041: Find pressure gauge instructions here.



B2T2019003: Do not attempt to lift the pump and support weldment as one piece. Lift these components separately and perform all attachment and mounting on top of the press.

01 10771X: Oil added to the hydraulic tank must pass through a 10 micron filter, otherwise, the ram cylinder can be damaged.

End of document: BNP1UI05

Safety Information 1

BIUUUS27 (Published) Book specs- Dates: 20221209 / 20221209 / 20221209 Lang: ENG01 Applic: PPM

Safety—Single Stage Membrane Press

1. General Safety Requirements—Vital Information for Management Personnel [Document BIUUUS04]

Incorrect installation, neglected preventive maintenance, abuse, and/or improper repairs, or changes to the machine can cause unsafe operation and personal injuries, such as multiple fractures, amputations, or death. The owner or his selected representative (owner/user) is responsible for understanding and ensuring the proper operation and maintenance of the machine. The owner/user must familiarize himself with the contents of all machine instruction manuals. The owner/user should direct any questions about these instructions to a Milnor® dealer or the Milnor® Service department.

Most regulatory authorities (including OSHA in the USA and CE in Europe) hold the owner/user ultimately responsible for maintaining a safe working environment. Therefore, the owner/user must do or ensure the following:

- recognize all foreseeable safety hazards within his facility and take actions to protect his personnel, equipment, and facility;
- work equipment is suitable, properly adapted, can be used without risks to health or safety, and is adequately maintained;
- where specific hazards are likely to be involved, access to the equipment is restricted to those employees given the task of using it;
- only specifically designated workers carry out repairs, modifications, maintenance, or servicing;
- information, instruction, and training is provided;
- workers and/or their representatives are consulted.

Work equipment must comply with the requirements listed below. The owner/user must verify that installation and maintenance of equipment is performed in such a way as to support these requirements:

- control devices must be visible, identifiable, and marked; be located outside dangerous zones; and not give rise to a hazard due to unintentional operation;
- control systems must be safe and breakdown/damage must not result in danger;
- work equipment is to be stabilized;
- protection against rupture or disintegration of work equipment;
- guarding, to prevent access to danger zones or to stop movements of dangerous parts before the danger zones are reached. Guards to be robust; not give rise to any additional hazards; not be easily removed or rendered inoperative; situated at a sufficient distance from the danger zone; not restrict view of operating cycle; allow fitting, replacing, or maintenance by restricting access to relevant area and without removal of guard/protection device;
- suitable lighting for working and maintenance areas;
- maintenance to be possible when work equipment is shut down. If not possible, then protection measures to be carried out outside danger zones;
- work equipment must be appropriate for preventing the risk of fire or overheating; discharges of gas, dust, liquid, vapor, other substances; explosion of the equipment or substances in it.

1.1. **Laundry Facility**—Provide a supporting floor that is strong and rigid enough to support–with a reasonable safety factor and without undue or objectionable deflection–the weight of the fully loaded machine and the forces transmitted by it during operation. Provide sufficient clearance for machine movement. Provide any safety guards, fences, restraints, devices, and verbal and/or posted restrictions necessary to prevent personnel, machines, or other moving machinery from accessing the machine or its path. Provide adequate ventilation to carry away heat and vapors. Ensure service connections to installed machines meet local and national safety standards, especially regarding the electrical disconnect (see the National Electric Code). Prominently post safety information, including signs showing the source of electrical disconnect.

1.2. **Personnel**—Inform personnel about hazard avoidance and the importance of care and common sense. Provide personnel with the safety and operating instructions that apply to them. Verify that personnel use proper safety and operating procedures. Verify that personnel understand and abide by the warnings on the machine and precautions in the instruction manuals.

1.3. **Safety Devices**—Ensure that no one eliminates or disables any safety device on the machine or in the facility. Do not allow machine to be used with any missing guard, cover, panel or door. Service any failing or malfunctioning device before operating the machine.

1.4. **Hazard Information**—Important information on hazards is provided on the machine safety placards, in the Safety Guide, and throughout the other machine manuals. **Placards must be kept clean so that the information is not obscured. They must be replaced immediately if lost or damaged. The Safety Guide and other machine manuals must be available at all times to the appropriate personnel.** See the machine service manual for safety placard part numbers. Contact the Milnor Parts department for replacement placards or manuals.

1.5. **Maintenance**—Ensure the machine is inspected and serviced in accordance with the norms of good practice and with the preventive maintenance schedule. Replace belts, pulleys, brake shoes/disks, clutch plates/tires, rollers, seals, alignment guides, etc. before they are severely worn. Immediately investigate any evidence of impending failure and make needed repairs (e.g., cylinder, shell, or frame cracks; drive components such as motors, gear boxes, bearings, etc., whining, grinding, smoking, or becoming abnormally hot; bending or cracking of cylinder, shell, frame, etc.; leaking seals, hoses, valves, etc.) Do not permit service or maintenance by unqualified personnel.

2. Safety Alert Messages—Internal Electrical and Mechanical Hazards [Document BIUUUS11]

The following are instructions about hazards inside the machine and in electrical enclosures.

WARNING 1: Electrocution and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not unlock or open electric box doors.
- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of the main machine disconnect and use it in an emergency to remove all electric power from the machine.

WARNING 2: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of all emergency stop switches, pull cords, and/or kick plates and use them in an emergency to stop machine motion.

CAUTION 3: Crush and Entrap Hazards—The bell will crush your body or limbs if it descends while you are under it. Bell can descend with power off or on.

- Do not reach into the machine housing or frame.
- Use the factory supplied gaff-hook to move objects inside the housing.

3. Safety Alert Messages—External Mechanical Hazards [Document BIUUUS12]

The following are instructions about hazards around the front, sides, rear or top of the machine.

CAUTION 4: Fall, Entangle, and Strike Hazards—Machine motion can cause you to fall or become entangled in or struck by nearby objects if you stand, walk, or ride on the machine. Shuttles and conveyor belts move automatically.

- Keep yourself and others off of machine.

4. Safety Alert Messages—Unsafe Conditions [Document BIUUUS14]

4.1. Damage and Malfunction Hazards

4.1.1. Hazards Resulting from Inoperative Safety Devices

WARNING 5: Multiple Hazards—Operating the machine with an inoperative safety device can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

- Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.

WARNING 6: Electrocution and Electrical Burn Hazards—Electric box doors—Operating the machine with any electric box door unlocked can expose high voltage conductors inside the box.

- Do not unlock or open electric box doors.

WARNING 7: Entangle and Crush Hazards—Guards, covers, and panels—Operating the machine with any guard, cover, or panel removed exposes moving components.

- Do not remove guards, covers, or panels.

4.1.2. Hazards Resulting from Damaged Mechanical Devices

WARNING 8: Multiple Hazards—Operating a damaged machine can kill or injure personnel, further damage or destroy the machine, damage property, and/or void the warranty.

- Do not operate a damaged or malfunctioning machine. Request authorized service.

4.2. Careless Use Hazards

4.2.1. Careless Operation Hazards—Vital Information for Operator Personnel (see also operator hazards throughout manual)

WARNING 9: Multiple Hazards—Careless operator actions can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

- Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.
- Do not operate a damaged or malfunctioning machine. Request authorized service.
- Do not attempt unauthorized servicing, repairs, or modification.
- Do not use the machine in any manner contrary to the factory instructions.
- Use the machine only for its customary and intended purpose.
- Understand the consequences of operating manually.

CAUTION 10: Goods Damage and Wasted Resources—Entering incorrect cake data causes improper processing, routing, and accounting of batches.

- Understand the consequences of entering cake data.

4.2.2. Careless Servicing Hazards—Vital Information for Service Personnel (see also service hazards throughout manuals)

WARNING 11: Electrocution and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of any other overriding standard.

WARNING 12: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of any other overriding standard.

CAUTION 13: Crush Hazards—The bell will crush your body or limbs if it descends while you are under it. Bell can descend with power off or on.

- Secure both red safety stands in accordance with the instructions furnished, then lock out and tag out power at the main machine disconnect before working under the bell.

— End of BIUUUS27 —

Use the Red Safety Supports for Maintenance — MP1540_, MPL5_, MPL6_, MP1A_

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1. What Safety Supports are Provided and Why

BNP1UH02.C02 0000374259 B.4 A.6 8/19/21 10:29 AM Released

These machines are provided with two safety stands and two ram safety bars. After the ram is raised, the safety bars are connected between the platen and the press top plate. After the can is raised, the stands are placed under the can (but not under the ram). The safety supports provide protection against the drifting down of the vertically moving portion of the machine during maintenance in the event of a leak in the hydraulic system. They are not intended to restrain the machine from coming down under power. Use the safety support(s) whenever the maintenance to be performed requires you to place any part of your body in or near the path of the vertically moving portion of the machine.

WARNING: **Incorrect use of the safety supports —** can cause the machine to descend and crush you.

- Never work near the path of the vertically moving portion of the machine unless the safety supports are deployed and power is removed from the machine.
- Do not use power to close a small gap between the machine and the safety supports. Use care not to lower the machine with the safety supports deployed.
- Where a pair of safety supports is provided, always use both supports.
- Maintain the safety support(s) in good condition.
- When not in use, stow the safety support(s) in the location(s) provided on the machine or in a convenient, designated location.

2. How to Deploy the Ram Safety Bars

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1. Use the Manual mode to lower the can, if it is up.
2. Use the Manual mode to raise the ram.
3. See the figure at right. Install the safety bars. The safety bars attach between two eye bolts—one on the platen and one on the press top plate.
4. Remove electric power from the machine.

Figure 1. Safety Bars Deployed

3. How To Deploy the Safety Stands

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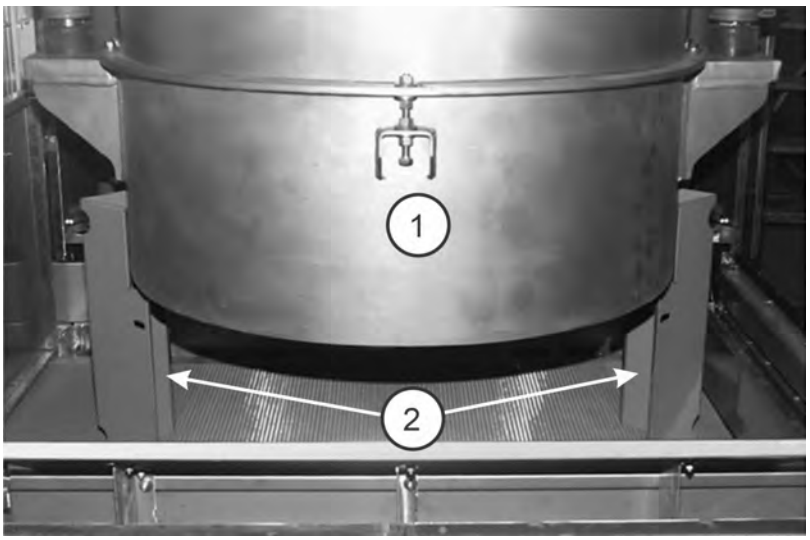
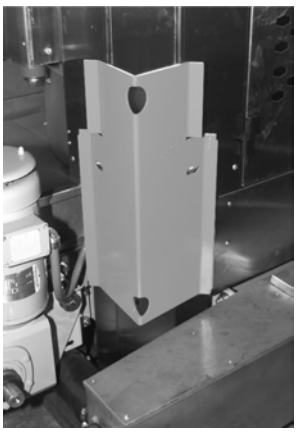
The ram must be up and secured with the safety bars.

1. Use the Manual mode to raise the can.
2. See the figure below. Install the stands through the nearest door. Do not reach across the bed. Put the stands on opposite sides of the can (180 degrees apart).

Figure 2. Safety Stands



Deployed



Stowed

Legend

1 . . . Can
2 . . . Safety stands

3. Remove electric power from the machine.

End of document: BNP1UH02

Unload Safety Light Screen

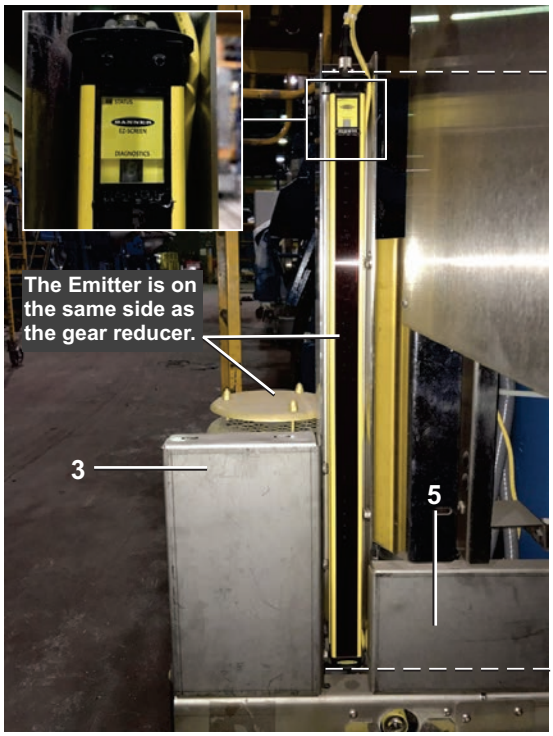
MP1540, MP1556, MP1640, MP1656

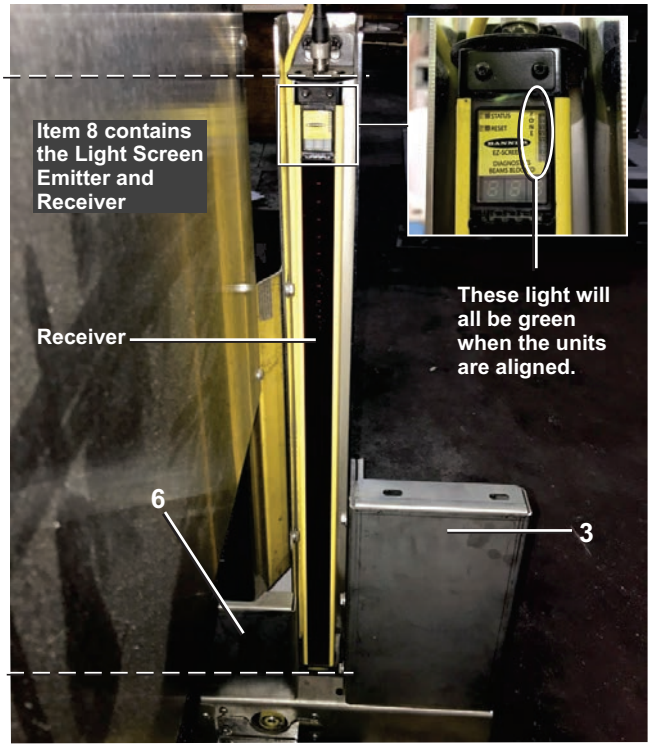
Figure 1: Emitter and Receiver Installation

Installation of Emitter and Receiver Repair Parts
(See the light screen instruction manual supplied with the part.)

Install the replacement the emitter and receiver into the mounting channels. The units are to be exactly parallel to each other and truly vertical. Initially, mount the units at their lowest position. The slotted mounting bracket supplied with the replacement units allow for vertical and radial adjustments, see Top View and Bottom View.

The units are in alignment when the row of lights on the receiver (shown circled below) are all green.

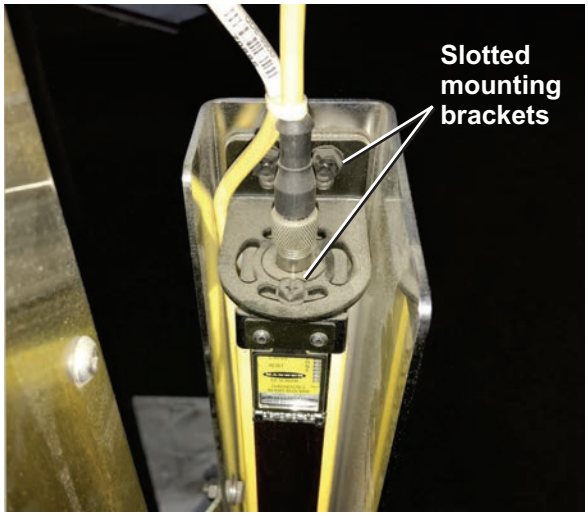




Unload Safety Light Screen

MP1540, MP1556, MP1640, MP1656

Figure 2: Emitter and Receiver Installation

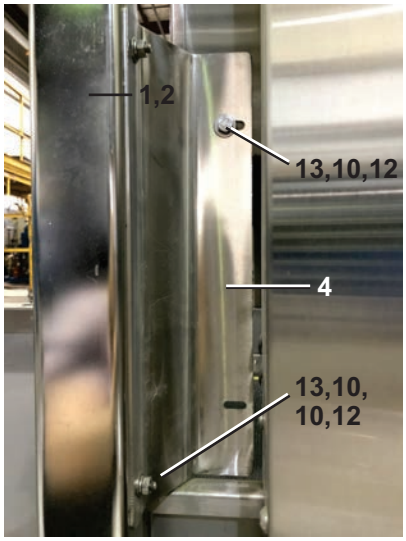


Top View

Bottom View

The slotted mounting brackets allow for vertical and radial adjustment of the Emitter and receiver units. Mounting brackets and hardware come with the Emitter and Receiver.

Side member and channel hardware



Unload Safety Light Screen

MP1540, MP1556, MP1640, MP1656

Parts List

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	ACS10022	UNLOAD LIGHT SCREEN-STD CONV MP15/16	
			----------COMPONENTS----------	
all	1	07 10729A	LIGHT SCREEN CHANNEL-RT	
all	2	07 10729	LIGHT SCREEN CHANNEL-LF	
all	3	07 10724	CONV SIDE UNLOADEND-STD	
all	4	07 10730	LIGHT SCREEN MTG BRACE-MP15/16	
all	5	07 10732	LIGHT SCREEN SIDE ADP MP15/16-RT	
all	6	07 10732A	LIGHT SCREEN SIDE ADP MP15/16-LF	
all	7	09RPE018LBB	LITE BEAM CORDSET 15.3 METER	
all	8	09RPE018LBA	LITE BEAM EMITTER/RECEIVER 600MM BANNER	
all	9	15N174	HXCAPSCR 1/4-20UNC X5/8SS18-8	
all	10	15U188	FLTWASH 1/4 STD COMM SS18-8	
all	11	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	12	15G170	HEXNUT 1/4-20UNC2 SS18-8	
all	13	15N186	HXCAPSCR 1/4-20X3/4 SS18-8	

Installation 2

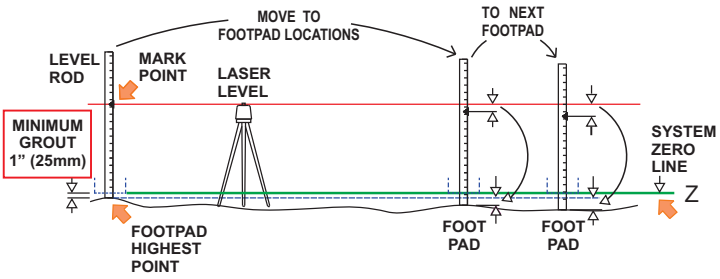
ATTENTION INSTALLERS!

PRESS MUST BE HIGH ENOUGH

If you set the press at a low area of the floor, you may not have sufficient clearance for the tunnel. It will be necessary to reinstall the press higher

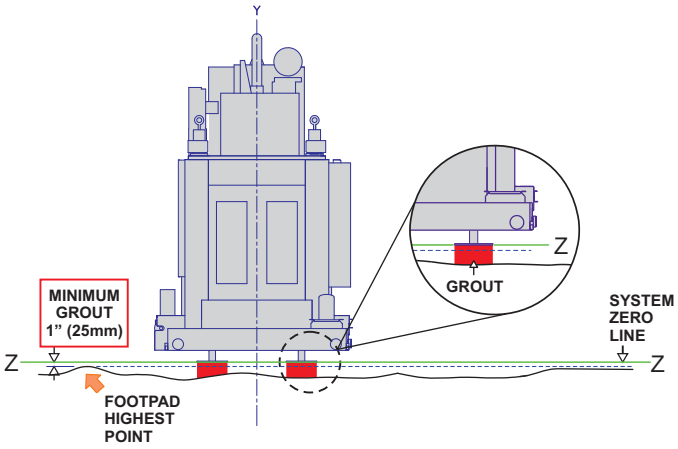
- Establish the System Zero Line or Z.
- Refer to the dimensional drawings of the various machines for required heights.

FLOOR IS UNEVEN



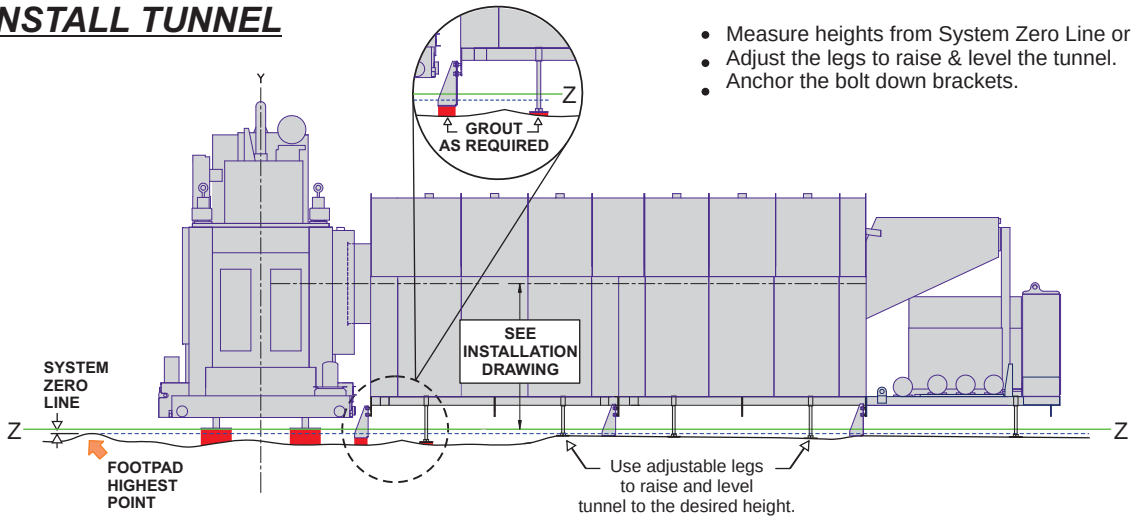
- Establish System Zero Line or Z.
- Find highest point in factory floor where footpads will be located.
- System Zero Line or Z is 1" above highest point.

INSTALL PRESS FIRST



- Shim & level to System Zero Line or Z.
- Grout & anchor all footpads.

INSTALL TUNNEL



- Measure heights from System Zero Line or Z.
- Adjust the legs to raise & level the tunnel.
- Anchor the bolt down brackets.

B2T2010023/2019193A

How to Set a 1-Station Press that Has Adjustable Feet

1-stage presses manufactured after June 1, 2010 are equipped with feet that:

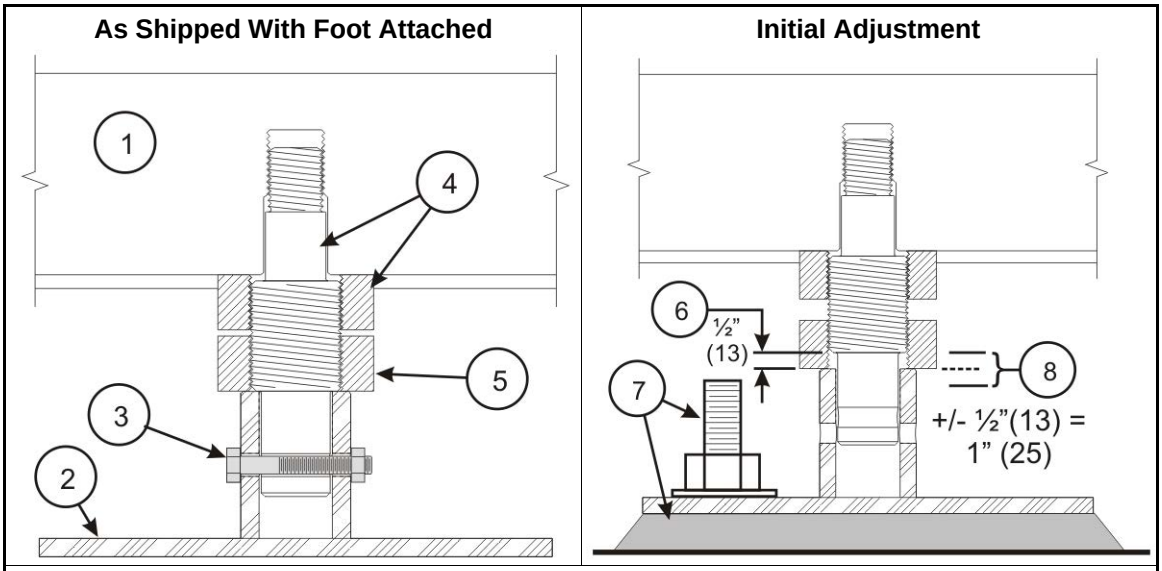
can be removed for transport—Normally, the press feet stay on the machine for shipping and installation. However, they can be temporarily removed if height restrictions require. The feet are available in several heights. Your machine is provided with the appropriate height.

have a +/- 1/2" (13) height adjustment after installation—You use grout to get the press at the required height. After the grout is installed, you can make small height adjustments to make the press level. You cannot use the foot adjustment to raise or lower the press, but you can use hydraulic jacks then adjust the feet. Height adjustment is made with the lower hex nut on each foot.

can be oriented in any direction—Each foot pad requires one anchor bolt. It does not matter which bolt hole you use. The bolts that hold the foot pads on the support rods are only for shipping. When the bolt is removed, you can turn the foot pad to the position that gives you the easiest access to an anchor bolt hole.

Each press foot is composed of the components shown in Figure 1. When you adjust the feet, you will need hydraulic jacks to take the weight off of the feet and a pipe wrench with a 4" (100 mm) jaw to tighten the lower hex nuts.

Figure 1: Cross-section Views of Press Foot



Legend

1. Press base plate
2. Foot pad
3. Temporary shipping bolt.
4. Mounting rod and upper hex nut. Do not attempt to adjust these components.
5. Lower hex nut. Use to make initial setting and small height adjustments.
6. Initial adjustment of lower hex nut
7. Grout and anchor bolt
8. Adjustable range for subsequent leveling if necessary.

1. Set the Press

When the machine is approximately at it's final location:

1. If the feet are attached, go to the next step. If the feet were removed, set the press on blocks that give sufficient clearance and install the feet as shown in Figure 1, Left.
2. Set the press on blocks in its final position. This must provide a minimum of 1 inch (25) grout thickness under each foot pad.
3. Prepare each foot pad for grout and anchoring, as follows:
    a. Loosen the lower hex nut, which is tight against the bolt that attaches the support rod to the collar of the foot pad. To loosen, you will turn the nut counterclockwise as if looking down on the nut from above. This is only possible when the press is supported on blocks. When the press is supported by the feet, the full weight of the press rests on the lower hex nuts.
    b. This step will allow the foot pad to drop away from the support rod. **Keep fingers clear.** Remove the bolt that attaches the foot pad to the support rod and allow the foot pad to drop to the floor. The bolt will not be re-installed.
    c. Turn the lower hex nut until the bottom face of the nut is 1/2" (13) below the threaded portion of the support rod as shown in Figure 1, Right. This will allow 1/2" (13) adjustment up or down, after grouting.
    d. Turn the foot pad to the most convenient orientation to gain access to an anchor bolt hole. Install an anchor bolt in the foundation, but do not put a nut on the anchor bolt yet.
    e. Raise the foot pad. Use grout seats to support the foot pad such that the top of the collar touches the lower hex nut.
4. When all feet are prepared, install grout under each foot pad and let the grout harden.
5. Tighten the lower hex nuts in an alternating pattern until the feet take the full weight of the press.
6. Install and tighten the anchor bolt lock washers and nuts.

2. Adjust the Height After Installation

After the CBW tunnel washer is installed, you can make a 1/2" (13) up or down adjustment to any foot, if this is necessary to make the press level:

1. Put hydraulic jacks under the press and apply just enough hydraulic pressure to take the load off of the press feet.
2. Turn the lower hex nuts on each foot until the bottom face of the nut is flush with the shoulder of the support rod where the threads begin.
3. Use the hydraulic jacks to raise or lower the press within the adjustable range.
4. When the press is at the final position, turn the lower hex nut on each foot until it is against the collar of the foot pad.
5. Remove the hydraulic jacks.

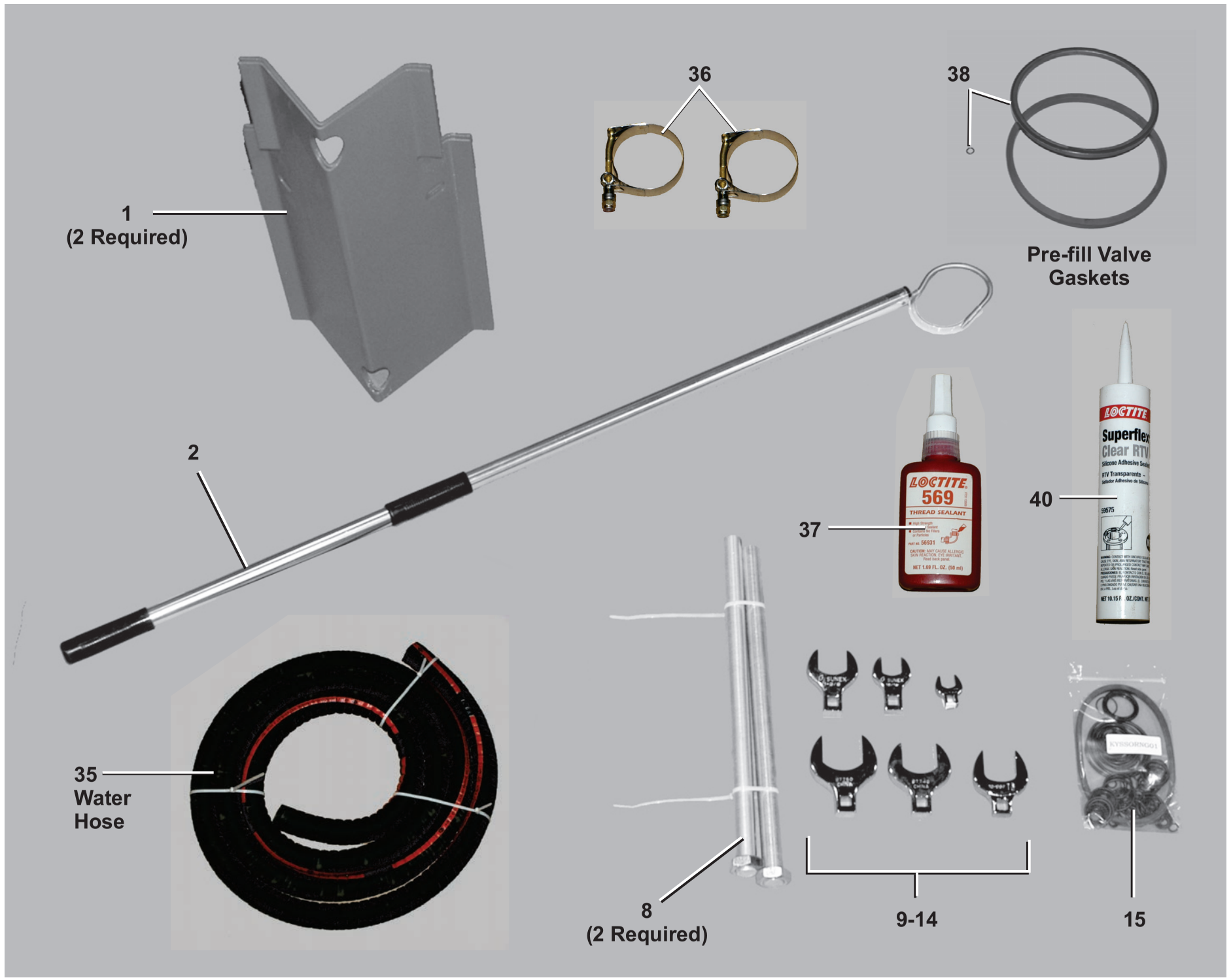
— End of BIPPMI08 —

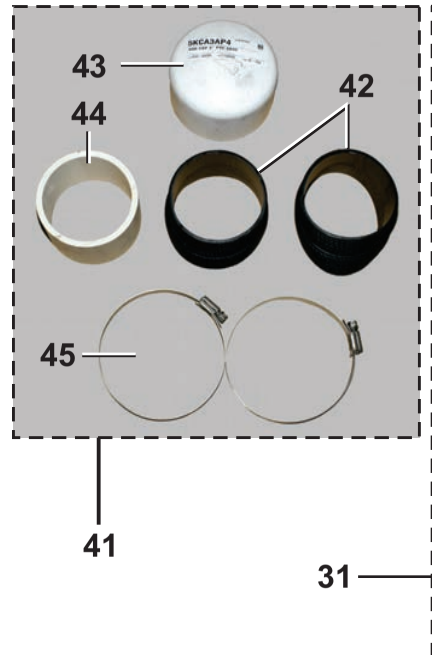
Ship With

MP1540, MP1556, MP1640, MP1650, MP1656, MP1A50
MPL556, MPL640, MPL650, MPL656

Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400

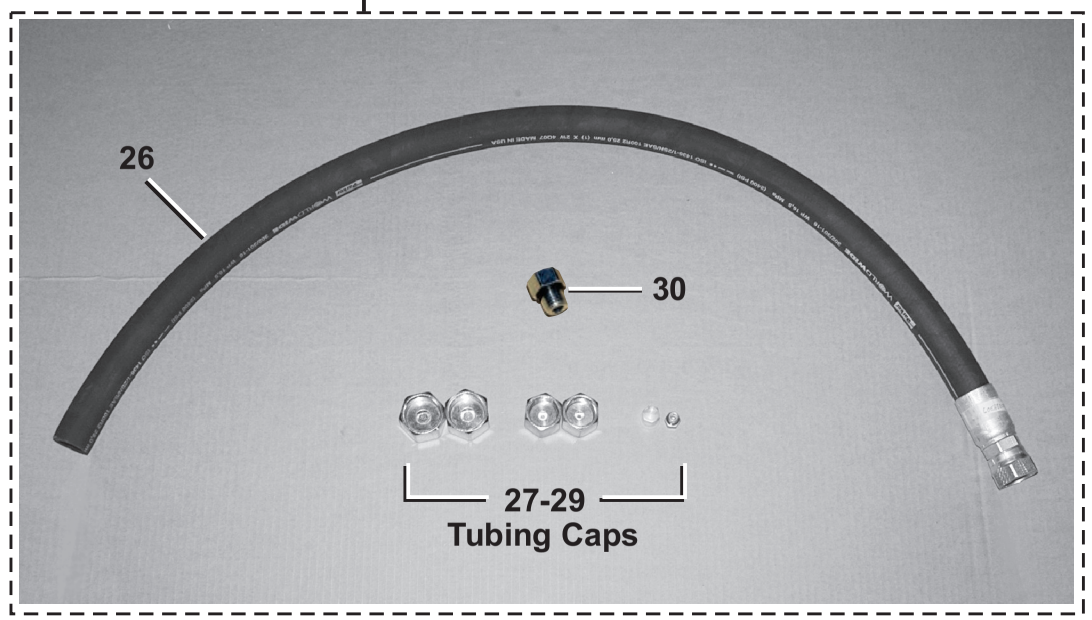
Litho in U.S.A.





Plugs:
Items 16-23
(not shown)
See parts list.

25



Ship With

MP1540, MP1556, MP1640, MP1650, MP1656, MP1A50
MPL556, MPL640, MPL650, MPL656

Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.

Parts List—Ship With

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			----------REFERENCE ASSEMBLIES----------	
	A	AHT10031A	SHIP WITH MACHINE-MP1540,1556,1640	MP1540 MP1550, MP1640 MPL550, MPL640
	B	AHT10031	SHIP WITH MACHINE-MP1656,1650	MP1656, MP1650 MPL656, MPL650
	C	AHT10036	SHIP WITH MACHINE-MP1AXX	MP1A50
			----------COMPONENTS----------	
AB	1	07 30093	CAN SAFETY STAND-MP15/16XX	
C	1	07 10385	CAN SAFETY STAND-MP1AXX	
all	2	27A900	ALUM. GAFF 5/16"DIAX48"L W/3"	
all	8	17R036A18A	THRD ROD 1-14X18" ZINC	
all	9	97G006C	11/16" X 3/8" DR CROWSFOOT	
all	10	97G010C	15/16" X 1/2" DR CROWSFOOT	
all	11	97G014C	1+3/8" X 1/2" DR CROWSFOOT	
all	12	97G021A	1+1/2" X 1/2" DR CROWSFOOT	
all	13	97G022C	1+5/8" X 1/2" DR CROWSFOOT	
all	14	97G023C	1+7/8" X 1/2" DR CROWSFOOT	
all	15	KYSSORNG01	SS PRESS HYD ORING ASST KIT	
all	16	51P081	PLUG TAPERED 5.7"CAPLUG#T1092	
all	17	51P082	PLUGCAPNOTHD 1.437"CAPLUG#EC23	
all	18	51P083	PLUGCAPNOTHD 1.187"CAPLUG#EC19	
all	19	51P084	PLUGTHD.3/4"O.R.CAPLUG#PDF-120	
all	20	51P085	PLUGTHD.1/4"JIC CAPLUG#PD40	
all	21	51P086	PLUGTHD.1"O.R.CAPLUG#PDF160	
all	22	51P087	PLUGTHD.1"JIC CAPLUG#PD-160	
all	23	51P088	PLUGCAPSLV 13/16 #SC-13/16	
all	25	AHT10037	TROUBLE SHOOTING KIT-SSPRESS	
all	26	60EH80C48B	ASSY=HYDHOSE+ONE END 1"X48"LG	(PART OF ITEM 25)
all	27	52ZN1AS003	TUBEFIT NUT+CAP #16-FNL-S	(PART OF ITEM 25)

Parts List, cont.— Ship With

Used In	Item	Part Number	Description	Comments
all	28	52ZN0PS003	TUBEFIT NUT+CAP 3/4" 12 FNL-S	(PART OF ITEM 25)
all	29	52ZP0ES001	TUBEFITPLUG 1/4" #4-PNLO-S	
all	30	52PY0LR001	HEXPLUG 1/4"ORING#4-P50N-S	
AB	31	AHT10038	RAM INSTL BOLTS/LUBE-MP1603	
C	31	AHT10039	RAM INSTL BOLTS/LUBE-MP1604	
AB	32	X7 10504	RAM BOLT 1-14X5"CHASED THREAD	(PART OF ITEM 31)
C	32	X7 10505	RAM BOLT 1-14X7"CHASED THREAD	(PART OF ITEM 31)
all	33	15U393	FLTWASH 1" HARD ASTM F436	(PART OF ITEM 31)
all	34	20C510	LOCTITE MOLYPASTE#51048	(PART OF ITEM 31)
all	35	60E255	HOSE 2" ID X 2.45" OD WATER CORRUGATED	50 FEET
all	36	27A072	T-BOLT HOSECLAMP2.16-2.47CADSC	
all	37	20C002BA	HYD SEALANT 50CC LCT#569-31	
all	38	96RH712FOR	ORING KIT FOR 96RH712F	
all	39	27E7112E	FILTER 5 MIC 19"LG DONALDSON EB1254	
all	40	20C040B	SUPERFLEX CLR RTV SIL 10.1OZ	
all	41	ALC420217	UNLOAD DRAIN CONN.ADP	
all	42	02 03429	TUBE REDUCER 3.13 ID X 3.50 ID	(PART OF ITEM 41)
all	43	5KCA3AP4	SOK CAP 3" PVC Sk40	(PART OF ITEM 41)
all	44	04 21059	PIPE 3"PVC SK40X2.5"L SQ.ENDS	(PART OF ITEM 41)
all	45	27A084S	HOSECLAMP 3+9/16-4.5" SS SCR H	(PART OF ITEM 41)

Attachment of 1-Station Press Components (Unified Skid) Removed for Shipment

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This document covers on-site assembly of MP1650_, MP1556_, MP1656_, MP1540_, MP1640_, and MP1A_models.

Due to height limitations, the machine must be shipped partially disassembled. Do not begin to attach components until the largest component, the press body, is set in its final position, at the correct height, and grouted.

Three disciplines in particular are necessary during assembly:

- rigging
- hydraulic work
- electrical work

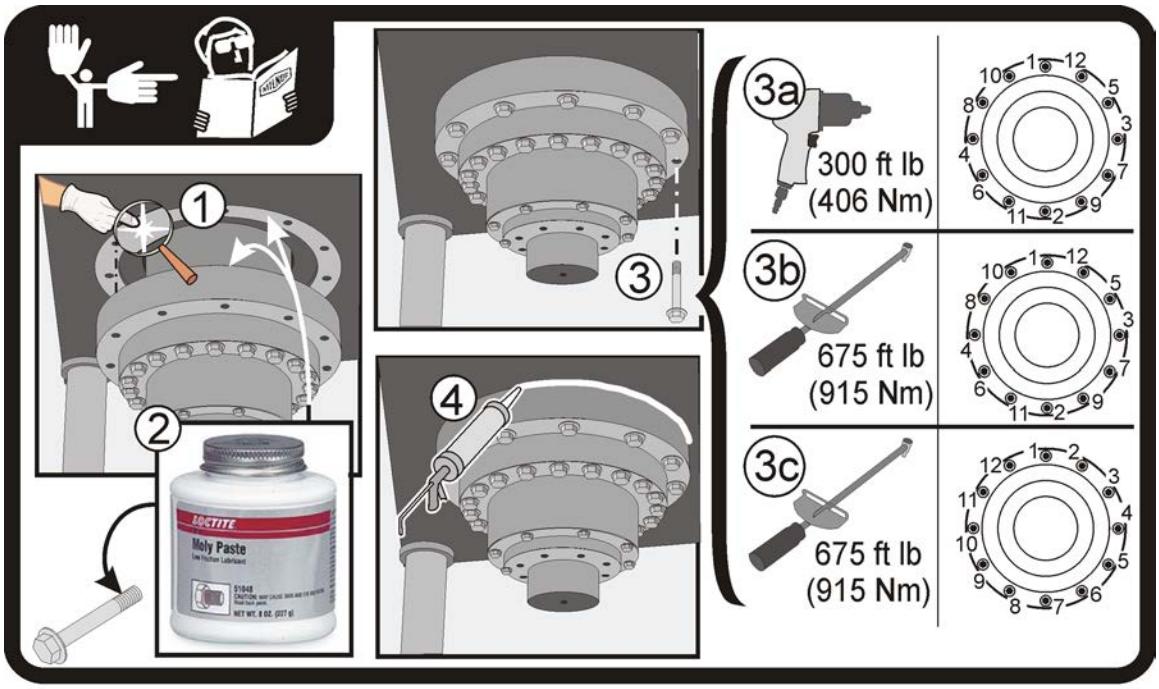
All must be performed with expertise and care.

With prior installations, the problems that have arisen most often are:

- faulty ram mounting
- leaks at hydraulic fittings

Use special care to understand and abide by the ram mounting tag affixed to the ram and shown below (B2T2007017), and the instructions on how to make hydraulic connections given in Section 2 : Make hydraulic connections., page 7 .

Figure 1. Ram Mounting Tag Affixed to the Ram



1. Attach hydraulic components (press in position).

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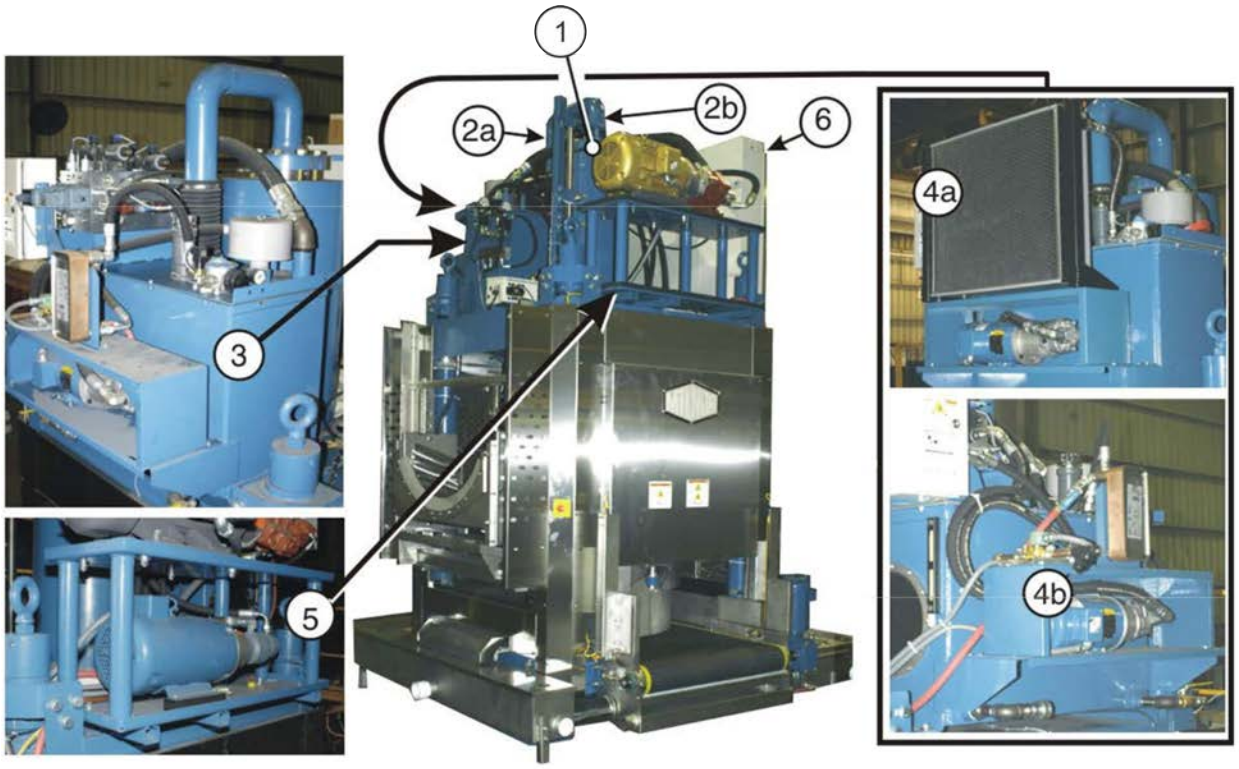
The unified skid and the hydraulic components are heavy and fragile.

WARNING: **Careless use** — can cause death or severe injury and costly property damage.

- Proceed only if you are qualified to rig heavy machinery.

Use the following figure to familiarize yourself with the unified skid and the components on it.

Figure 2. Parts of the Skid

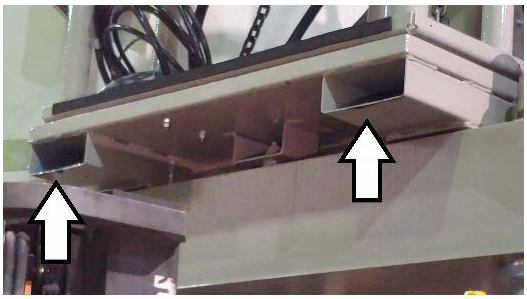


Legend

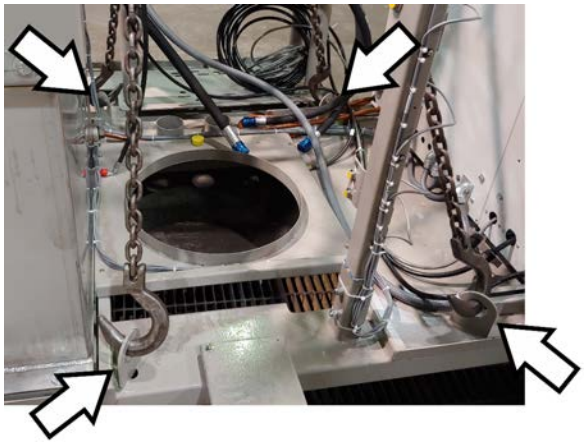
1 . . . Ram and prefill valve
2a . . Gooseneck pipe straight end
2b . . Gooseneck pipe flange end
3 . . . Hydraulic tank
4a . . Air-cooled hydraulic oil coolers
4b . . Water-cooled hydraulic oil cooler
5 . . . Pump stand. Main pump (upper) - all models. Booster pump (lower) - MP1556_, MP1656_ and MP1A50 models only.
6 . . . Electric box.

1.1. Set the unified skid in position on the top plate.

1. Lift the skid with a fork lift, or with a crane if available. Fork blades can be inserted into the slots at the bottom of the skid.



If crane lifting is available, lift the skid by the four lifting eyes.



2. Raise the skid until it clears the frame columns. The lifting eyes on top of the column are removable.
3. Position the skid so that it is above the top plate of the press.
4. Gently lower the skid onto the top plate so that the three alignment pins on the top plate align with the receiving holes on the skid, as shown in Figure 3 . The skid is not bolted to the press. It simply rests on the press.

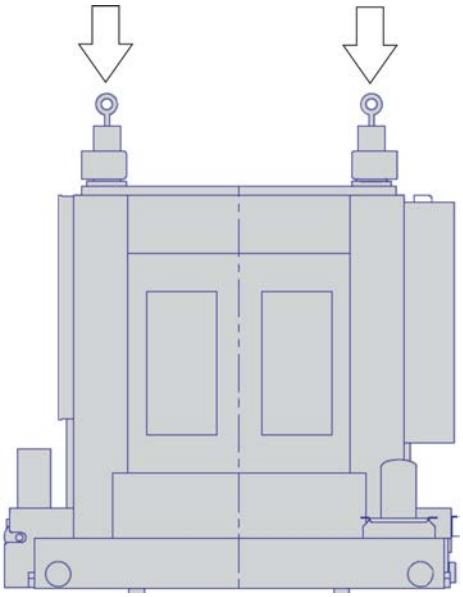
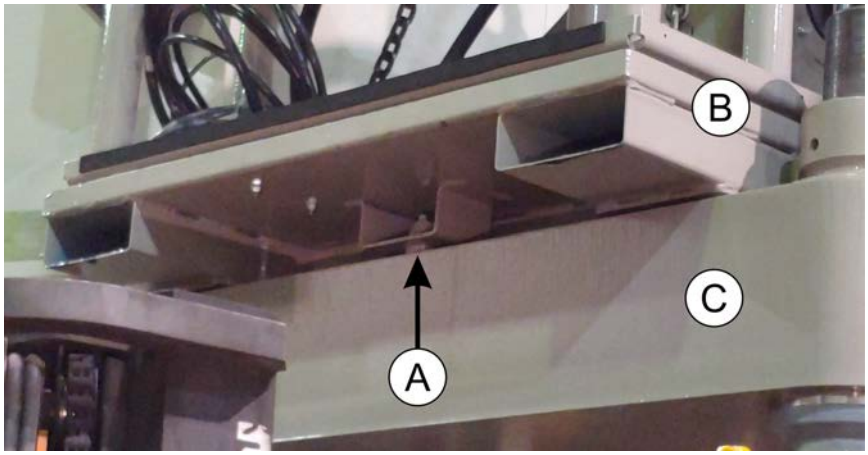


Figure 3. Skid and Top Plated Mated



Legend

A . . . Alignment pin inside receiving hole
B . . . Skid
C . . . Top plate

1.2. Mount the ram on the top plate.

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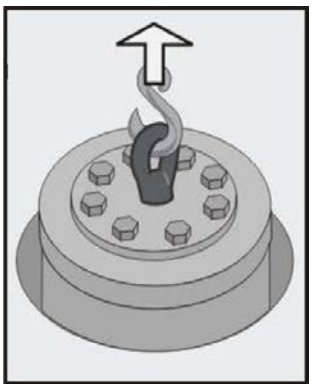
For this procedure, you will need the ram mounting hardware, Loctite Moly Paste, and silicone sealant.

1. Lift the ram straight up.

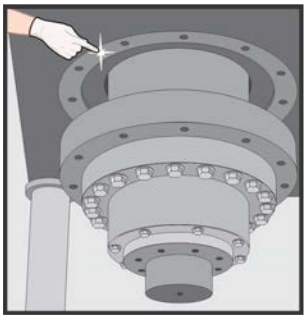


CAUTION: The ram on MP15_ and MP16_ press models ranges in weight from 6000 to 8500 pounds (2722 to 3856 kilograms). The ram on MP1A_ press models weighs 11000 pounds (4990 kilograms) and the machine is significantly taller.

With suitable rigging equipment and sufficient overhead clearance, you can lift the ram on MP15_ and MP16_ press models from the eye bolt, as pictured.

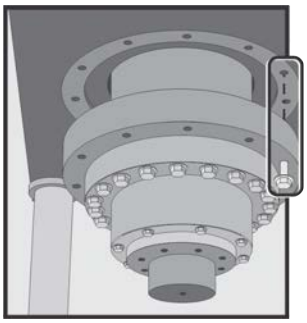
It is rarely possible to safely lift the ram on MP1A_ press models from the eye bolt on site. Use voltage-appropriate hydraulic pump kit KYSSNYPP01 or KYSSNYPP02, available from your dealer or for rental from the Milnor Parts department, to lift the ram when eyebolt lifting is not practical.

2. Ensure the two mating surfaces are clean.

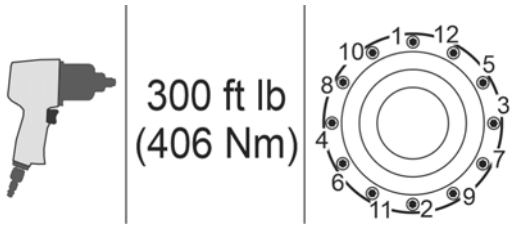


3. Apply a thin strip of Loctite Moly Paste on both mating surfaces and to the threads of the bolts.

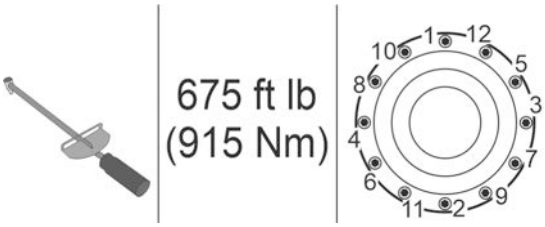
4. Loosely install the bolts.



5. Use a torque wrench to torque the bolts to 300 ft lbs (406 Nm). Alternate sides.

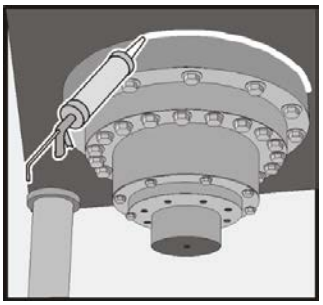


6. Use a hand-operated torque wrench to torque the bolts to 675 ft lbs (915 Nm). Alternate sides.



7. Tighten the bolts with the hand-operated torque wrench to make sure that all the bolt torques are 675 ft lbs (915 Nm).

8. Apply a ring of silicone sealant between the ram and the top plate.



9. Adjust the rubber boot on the ram so that it covers the gap between the ram and the skid.

NOTE: The boot is installed on the ram cylinder at the factory and will ride up on the cylinder when the cylinder is raised to its final position.

1.3. Install the prefill valve.

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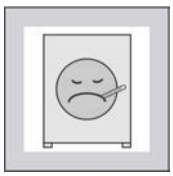
1. Attach safety bars to hold the ram piston up.

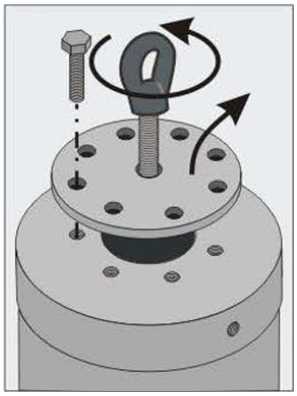
2. Remove the ram eye bolt and cover plate.

CAUTION:

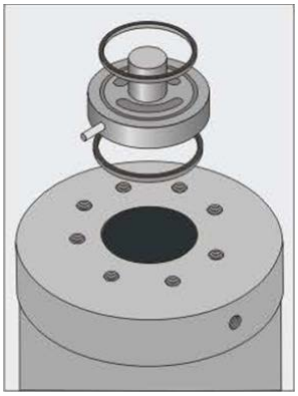


Leaving the ram opening uncovered — can contaminate the hydraulic fluid in the ram.

- Place a cardboard cover over the opening temporarily.
- If possible, install the prefill valve immediately after you remove the cover plate.



3. Attach the O-rings to the prefill valve— hard O-ring on bottom; soft O-ring on top.
4. Place the prefill valve and O-rings over the ram opening.



1.4. Connect the gooseneck pipe to the ram.

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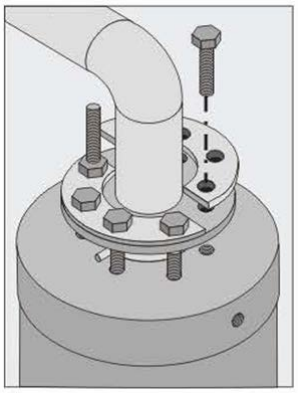
The straight end of the gooseneck pipe is pre-installed into the hydraulic tank.

1. Locate the gooseneck flange mounting bolts and reinforcement plates.
2. Place the gooseneck flange over the ram prefill valve. Surfaces must be clean.
3. Put the two reinforcement plates on the gooseneck flange, as shown in Figure 4 .
4. Put a light coat of hydraulic oil on the threads of the bolts.
5. Loosely install the bolts.
6. Alternately torque the pipe flange bolts to 750 ft-lbs (1017 Nm).
7. Move the rubber boot on the straight end (tank side) of the gooseneck pipe into position.
8. Tighten the hose clamps.

Figure 4. Gooseneck Installation



2. Make hydraulic connections.

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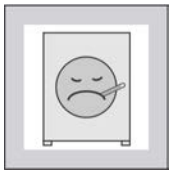
CAUTION: **Hydraulic fittings attached incorrectly** — can leak under high pressure.



- Attach the fittings as explained in this document.

2.1. Attach hydraulic fittings to the manifold.

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The staff at Milnor install the hydraulic fittings on the manifold before a new press ships. However, this procedure may need to be performed in the field if a component needs to be replaced after installation.

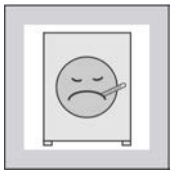
NOTICE: On-site installers, please read this section even if the fittings are already installed in the manifold. Important information about correct procedures in this section also applies to the sections that follow this one.

For this procedure, you will need a hydraulic fitting for each hose, Loctite 569 thread sealer, a torque wrench, and "crow's foot" wrench heads. Wrench heads are supplied.

For each hose port on the manifold:

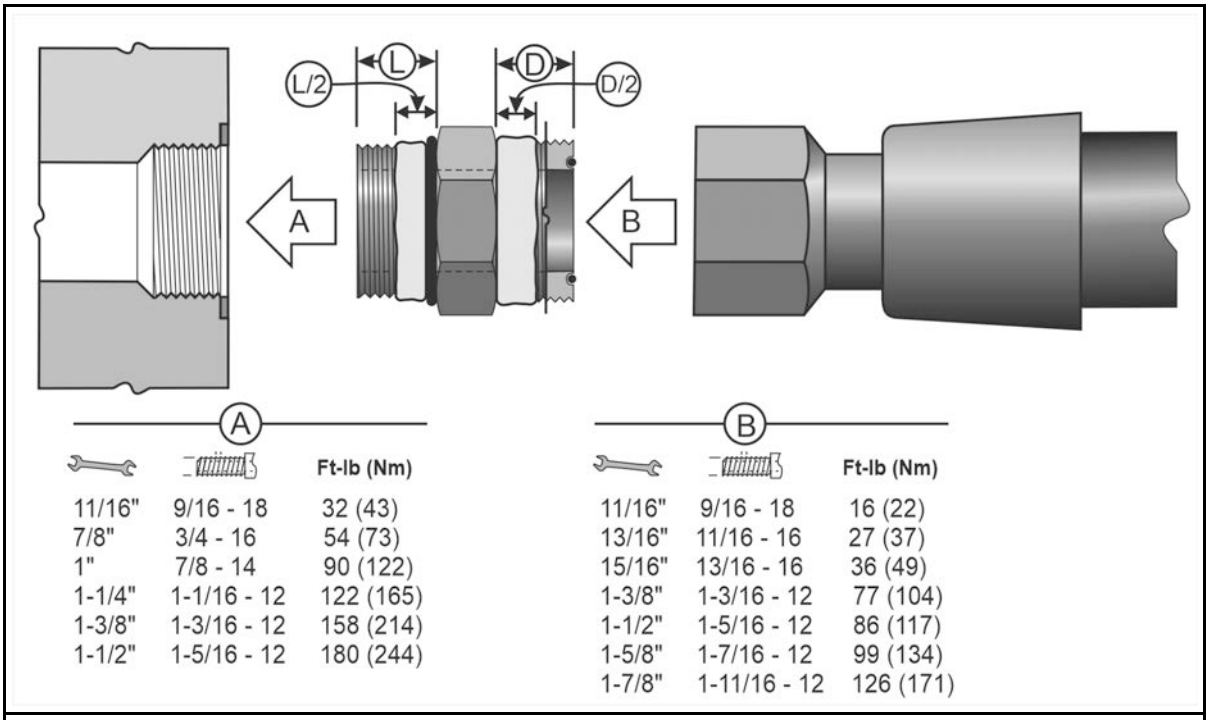
1. Locate a correctly-sized hydraulic fitting.
2. Apply Loctite 569 thread sealer (supplied) to half of the threads on the base end (item L) of the hydraulic fitting, as explained in Figure 5 .

CAUTION: Excessive amounts of Loctite thread sealer on hydraulic fittings — can contaminate the hydraulic fluid inside the hoses.



▶ Only apply Loctite 569 to the half of the threads that is closest to the middle of the fitting, as shown in Figure 5 .

Figure 5. How to Attach Hydraulic Fittings



Legend

A . . . Base end of the hydraulic fitting connects to the manifold.

B . . . Hydraulic hose connects to the face seal end of the hydraulic fitting.

L . . . Length of the base end. An O-ring is located around this end, near the middle of the fitting.

L/2 . Half the length of the base end of the hydraulic fitting. Apply Loctite 569 to the half closest to the middle of the fitting, as indicated.

D . . . Length of the face seal end. An O-ring is located inside a groove on the face of this end.

D/2 . Half the length of the face seal end of the hydraulic fitting. Apply Loctite 569 to the half closest to the middle of the fitting, as indicated.

3. Attach the base end of the hydraulic fitting to the manifold (item A).
4. Determine which crow's foot wrench head fits on your hydraulic fitting. Crow's foot wrench heads are provided. You can also use thread size to determine which wrench head to use.
5. Torque the fitting to the tightness listed in the table labelled A in Figure 5 , for your wrench and thread size. Do not over-torque.

2.2. About Match-Up Tags

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The hydraulic connections that are disconnected for shipment have match-up tags attached to the free ends of the hoses and the mating fittings. Use the match-up tags to connect the hoses properly. The hydraulic hoses connect to the mating fittings with the same tag numbers.

Also, document BMP160011 "Hydraulic Hoses - Single Manifold Presses" in the service manual identifies all of the hydraulic hoses. Each hose has an item number label.

NOTE: The hoses can be connected in any order as long as the tag numbers match.

2.3. Connect the free ends of the disconnected hydraulic hoses.

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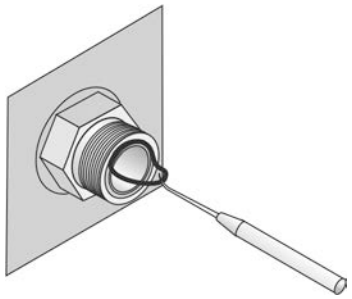
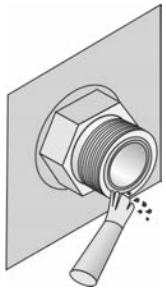
For this procedure, you will need new O-rings, Loctite 569 thread sealer, a torque wrench, and crow's foot wrench heads. O-rings and wrench heads are supplied.

For each hydraulic hose:

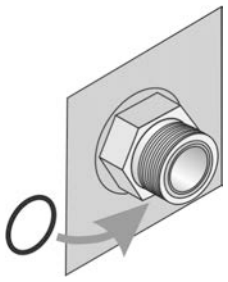
1. Use the match-up tags to locate the corresponding hydraulic fitting on the manifold for the hose.
2. Remove the O-ring on the hydraulic fitting (face seal end). This O-ring was used at the factory to test the machine.



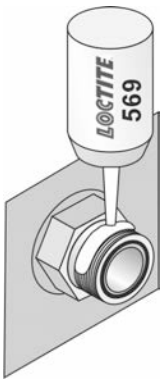
3. Remove any debris from the groove.



4. Install a new O-ring on the hydraulic fitting (new O-rings are supplied).

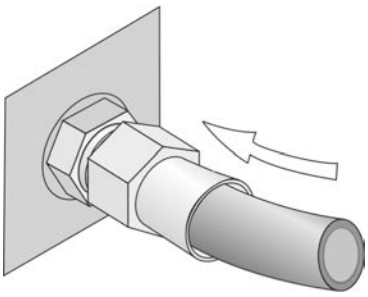


5. Apply Loctite 569 thread sealer (supplied) to the half of the threads closest to the middle of the fitting, as explained in Figure 5: How to Attach Hydraulic Fittings, page 9 .

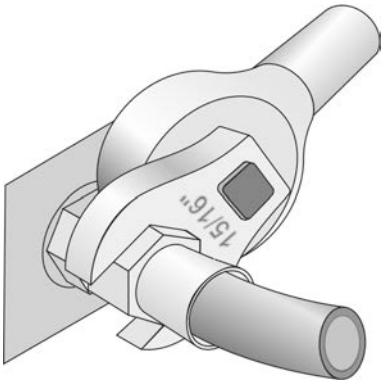


NOTE: It is only necessary to apply Loctite 569 thread sealer to the face seal end of the hydraulic fitting if you are an installer connecting the hoses on site. It is not necessary to apply Loctite to the face seal end of the fitting if you are temporarily connecting the hoses for testing in the factory.

6. Attach and hand-tighten the hose to the fitting.



7. Determine which crow's foot wrench head fits on the hose (crow's foot wrench heads are provided).
8. Torque the hose to the tightness listed in the table labelled B in Figure 5: How to Attach Hydraulic Fittings, page 9 , depending on your wrench size. Do not over-torque.



2.4. Attach the drain hose to the oil catcher.

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An oil catcher is located under the hydraulic tank, on the skid. A drain pipe on the oil catcher, when properly connected, takes spilled oil to the underside of the press. A short hose must be connected between the drain pipe on the oil catcher and a receiving pipe mounted to the top plate of the press.

1. Locate the drain pipe on the oil catcher, below the hydraulic tank. A short hose was connected and secured to the drain pipe with hose clamps at the factory.

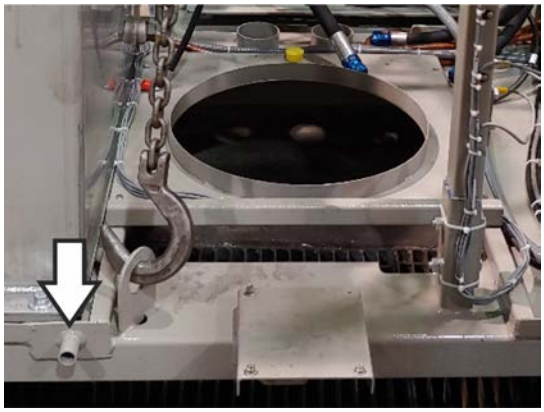
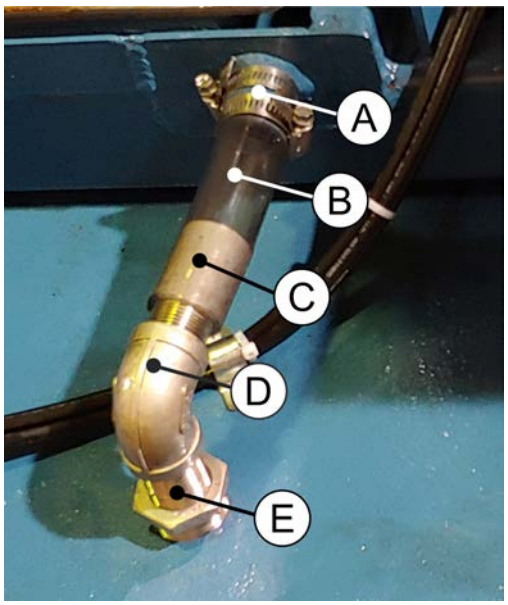


Figure 6. Drain Hose

2. Locate the receiving pipe mounted to the top plate
3. Push the hose onto the pipe fitting.
4. Use a pipe wrench to tighten the connection between the elbow joint and the fitting with the hose attached.
5. Attach and tighten hose clamps securely around the hose and the fitting.



Legend

A . . . Drain pipe
B . . . Hose
C . . . Pipe fitting
D . . . Elbow joint
E . . . Receiving pipe

3. Attach the two reuse tanks and make plumbing connections.

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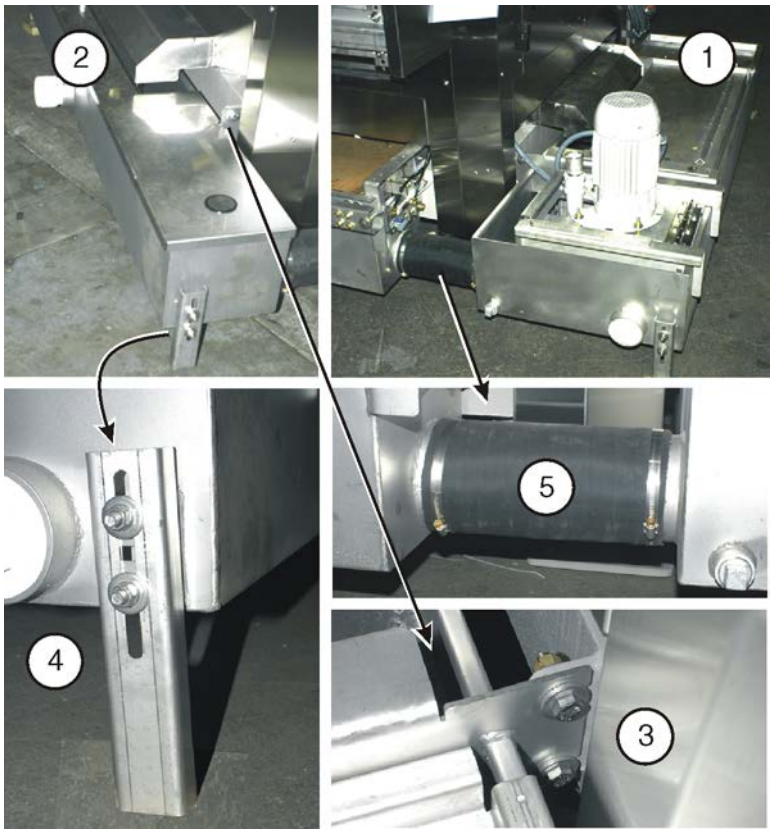
Use the following figure to attach the reuse tanks to the press.

Figure 7. Reuse Tank Attachment



Legend

1 . . . Wide reuse tank and pump. When you face the press discharge direction, the wide reuse tank goes on the left if the goods turn right. If the goods turn left, the wide reuse tank goes on the right. The side is customer-specified if the goods travel straight through. In all cases, the cable for the reuse pump was secured to the press body on the side the tank is to be located.

2 . . . Narrow reuse tank—always located on the opposite side of the press from the wide tank.

3 . . . Typical tank-to-press body connection

4 . . . Adjustable foot—two per tank. Adjust so that they help to support the tank.

5 . . . Tank-to-conveyor bed hose connection. Two per tank. Tighten hose clamps securely.

4. Make electrical connections.

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4.1. Connections in the Press Electric Box

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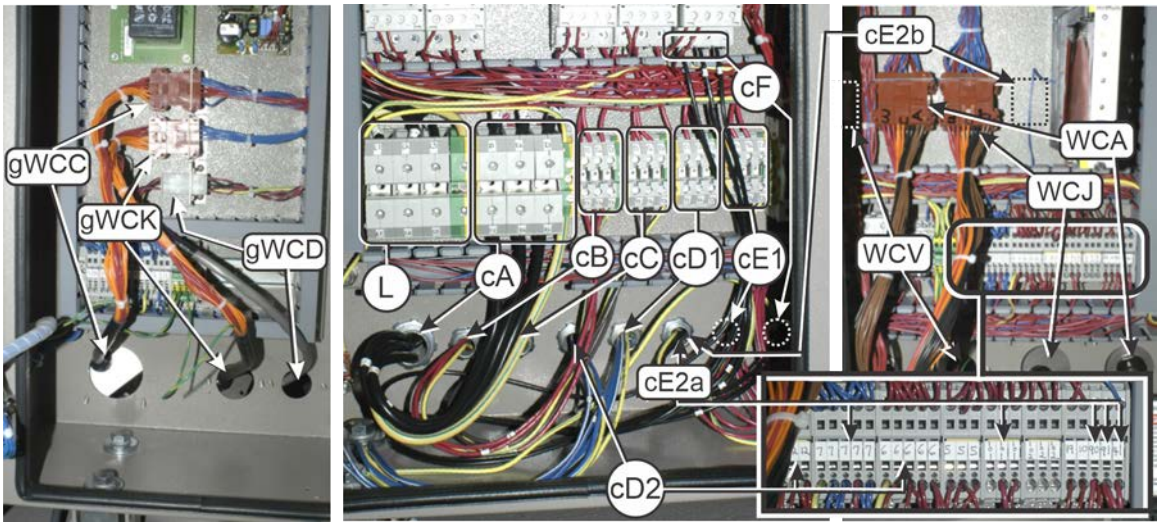
About six cables and eight conduit (depending on model and options) carry the control wires to be connected. The cables terminate in Molex connectors. The conduit carry groups of wires that must be individually connected to pins on terminals. Access holes on the lower rear of the electric box are provided for the cables. Each cable has a hole cover plate. Fittings on the lower rear of the box are provided for the conduit.

Tags with the same number are attached to each pair of mating Molex connectors and to each group of wire connections and their corresponding terminals. The cable and conduit access holes on the box are also labeled. Route the cables and conduit into the box and secure these. Use the tags to match up cables and conduit with access holes on the box. Then use the tags to match up the electrical connections in the box. Use the following figure to confirm the connections.

Figure 8. Electrical Connections in Press Electric Box



Legend

L . . . Connection points for incoming power.
g . . . (gWCC, gWCD, gWCK) Molex connectors for graphic display cables
WCV . Molex connector for electric operated air valve cable
WCA . Molex connector for electric operated hydraulic valve cable
WCJ . Molex connector for various device wires
cA . . Three wires and a ground for hydraulic main pump (CSHP)
cB . . Three wires and a ground for reuse pump (CSPRP)
cC . . Three wires and a ground for conveyor belt motor (CSRBR)
cD . . cD1 = Three wires and a ground for hydraulic oil cooler recirculation pump (CSRC). cD2 = Two conductors for hydraulic oil cooler water valve (VEW)—applies to water-cooled option only.
cE . . cE1 = Three wires and a ground for COINC_ conveyor belt motor. cE2a = 5 wires and a ground (standard, non-pivot models), or cE2b = Molex connector (pivoting models)
cF . . Three wires and a ground for booster pump (CSBP)—applies to models with a booster pump only.

4.2. Connections at the Reuse Pump

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The reuse pump cable is secured to the press body. Route this cable to the reuse pump junction box and connect the four wires.

4.3. Connections at the COINC_ Conveyor

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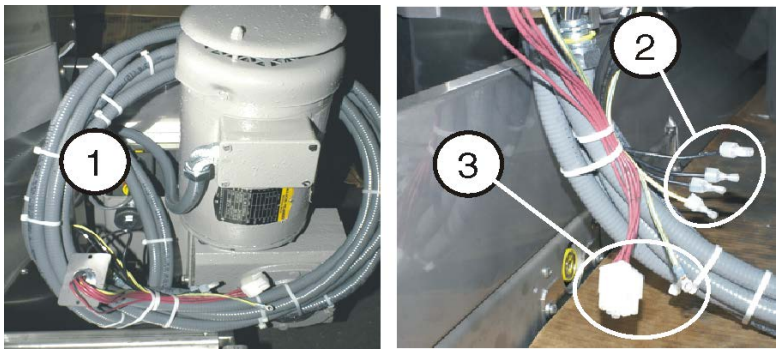
When this device is installed (at the press discharge position), route the cables and make the connections identified in the following figure.

Figure 9. Cables and Connections to be Made at COINC_ Junction Box



Legend

1 . . . COINC_ conveyor control cables secured on press for shipment

2 . . . COINC_ conveyor motor connections–three wires and a ground. Wires and pins are labeled.

3 . . . COINC_ control connections–Molex plug and ground. Mating Molex plug in box.

End of document: BNP1UI01

Instructions for Raising the Single Stage Press Cylinder Using a Portable Pump: Installation Kits KYSSHYPP01 or KYSSHYPP02

Document..... BIPPMI05
Specified Date..... 20010314
As-of Date..... 20010314
Access Date..... 20010314

Applicability..... PPM
Language Code..... ENG01

This installation kit is intended for use when low ceilings or roof construction methods at the installation site prohibit the use of a crane or a come-along to raise the cylinder into position. Use kit KYSSHYPP01 for 200-240V, 346-380V and 400-480V or kit KYSSHYPP02 for 600V installations. These kits require three phase power of the correct voltage at or near the machine installation site. The hydraulic pumps included in the kits draw approximately 6 amps at 220VAC. This procedure requires two technicians to lift the pump into place, handle the cylinder covers and operate the remote pump while observing the hydraulic lines and connections for leaks or breaks.

Table 1: Kit Component Weight

Component	Pounds	Kilograms
Pump	105	47.7
Cylinder cover	15	6.8
Cylinder pump plate	45	20.5

1. At The Pump

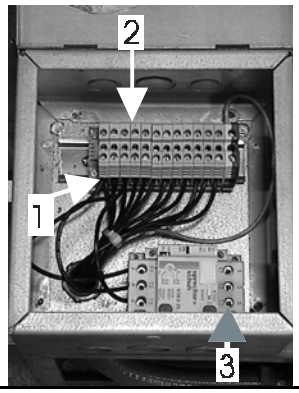
1. Position two drums of Shell TELLUS 68 hydraulic oil (or equivalent) next to the single stage press.
2. Set pump on oil drum as shown in Figure 2. Two technicians (or a suitable lifting device) are required to lift the pump.
3. Remove both bungs from drum top.

   Danger 1: Electrocution Hazard—Contact with high voltage can kill or seriously injure you.

   - All electrical connections must be made by a competent electrician.

4. Consult the motor connection plate (mounted on the inside cover of the electrical connection box) and jumper the pump motor terminal strip correctly for the available three phase power (Figure 1). Note that terminal connection 1 of the pump motor terminal strip is easily identified, as it is the only end connection with two wires.

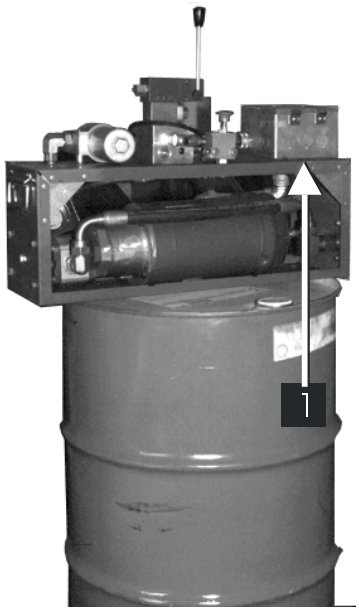
Figure 1: Electrical Connection Box Terminals

Pump motor and three phase power terminal	Legend
	**1.** Position 1 on motor terminal **2.** Insert jumper wires on this side **3.** Three phase power connections

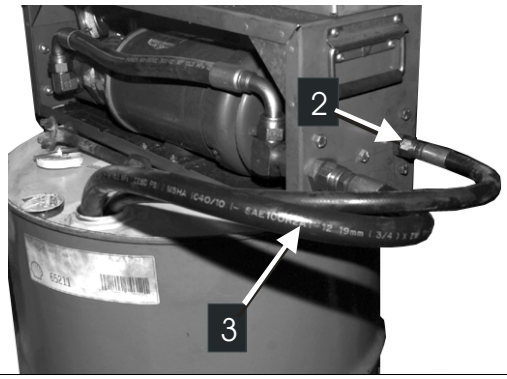
5. Make three phase power connections from the pump relay connections (Figure 1) to the wall disconnect box.
6. Energize power and verify that the pump is rotating in the clockwise direction (as viewed from the motor fan end).
7. Connect the 3/4" suction and 1/2" bypass hose to the pump as shown in Figure 2. Put suction and bypass hoses into oil drum.
8. Verify that the two position red button release knob is in the down position. The red button release functions as follows:
   - When the red button is in the up position, and the pump actuation lever is moved, oil drawn from the drum by the pump is returned directly to the drum via the bypass hose.
   - When the red button is in the down position, and the actuation lever is moved, oil drawn from the drum by the pump is sent to the device being filled.

Figure 2: Pump Connections and Controls

Pump on top of oil drum



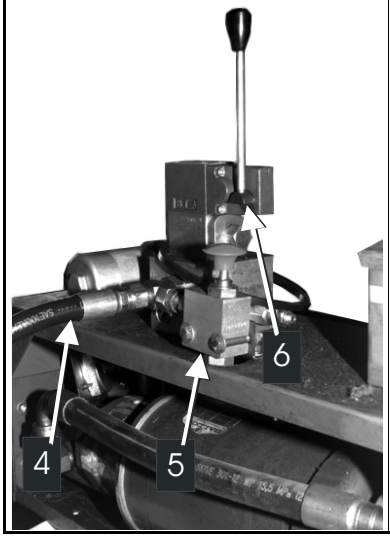
Pump by-pass and fill hose connections and destinations



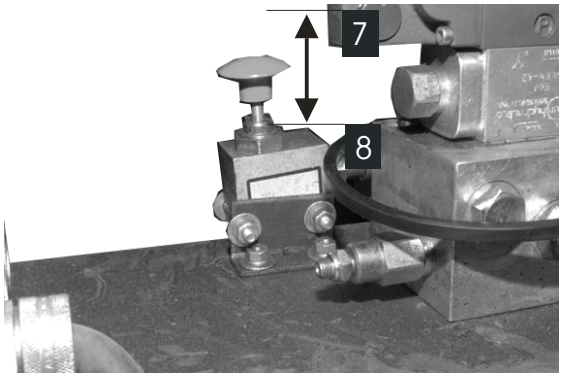
Legend

1. Electrical connection box
2. By-pass hose
3. Suction hose
4. Fill hose
5. Red button release knob
6. Pump actuation lever
7. Red button release knob up - oil is bypassed to drum
8. Red button release knob down - oil is pumped to cylinder tube or rod

Pump fill hose connection and pump controls



Red button release knob operation details



2. At the Cylinder Tube

1. Carefully working on top of the press, completely unscrew the eyebolt and remove the cylinder cover (Figure 3). Lay a clean rag on top of the exposed cylinder to prevent debris from falling in. Retain the eyebolt, cylinder cover and bolts for later use.

2. Remove the cover rag and install the kit pump plate fitted with the hydraulic hose connection (Figure 4).
3. Connect the 1/2" fill hose to the plate fitting (Figure 5) and the fill hose connection on the pump (Figure 2).
4. Remove the ram drain plug from the cylinder flange (Figure 6). A small amount of oil may drip from hole after plug is removed. This oil is left over from the testing process.
5. Remove the shipping material from around cylinder (Figure 7).
6. Install the provided all-thread guide rods into three equidistant cylinder flange mounting holes (Figure 8).

Figure 3: Unscrew Lifting Eye and Remove Cylinder Cover

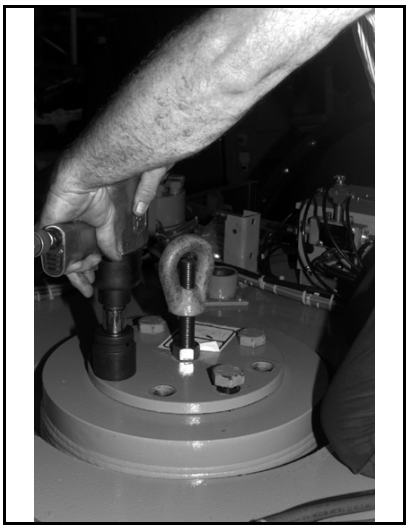


Figure 4: Install Hydraulic Fitting Equipped Cylinder Cover

Figure 5: Installing Fill Hose from Pump

Figure 6: Remove Ram Drain Plug

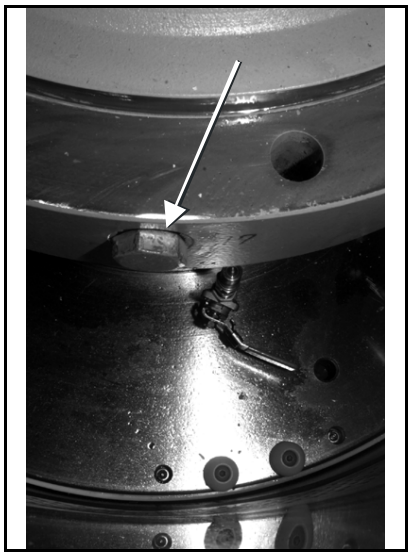
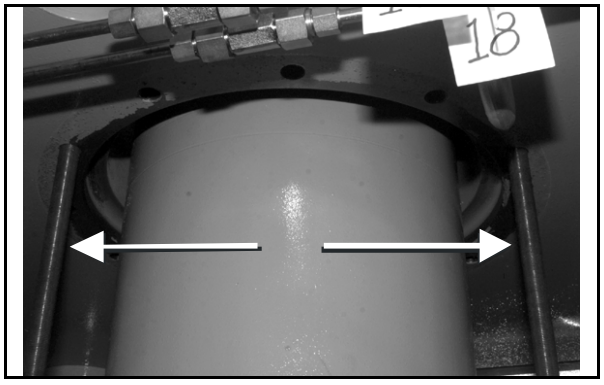


Figure 7: Remove the Cylinder Shipping Material

Figure 8: Install the All-thread in Cylinder Flange Mounting Holes



3. Raising the Cylinder Tube

1. Turn on pump and actuate the pump. Please note that it takes 10-15 minutes for the pump to raise cylinder into position to be bolted up. Observe the slowly rising cylinder (Figure 9) to ensure that the all-thread guide rods smoothly enter the cylinder flange (Figure 10).
2. Once the ends of the guide rods have sucessfully passed through the flange, continue actuating the pump, while watching the rising cylinder and checking the oil lines for leaks.
3. Secure the cylinder with mounting bolts once cylinder is fully seated (See “Single Stage Press Installation” for additional information and torque specifications).
4. Pull red button release knob up to drain the oil from the cylinder fill line back into the oil drum. Disconnect fill line after cylinder is completely bolted in place.

Figure 9: Rising Cylinder Engaging the All-thread Guide Rods

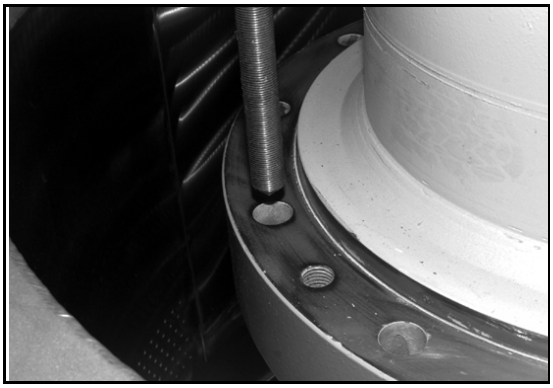
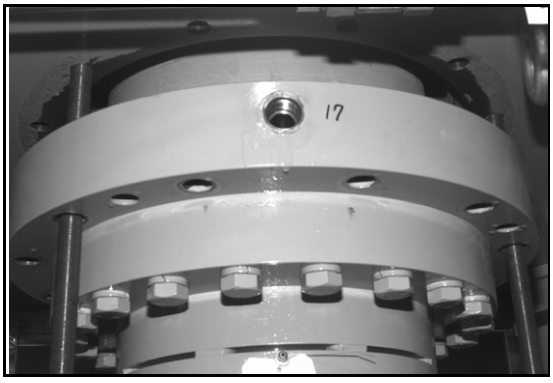


Figure 10: Raising Cylinder into Mounting Position

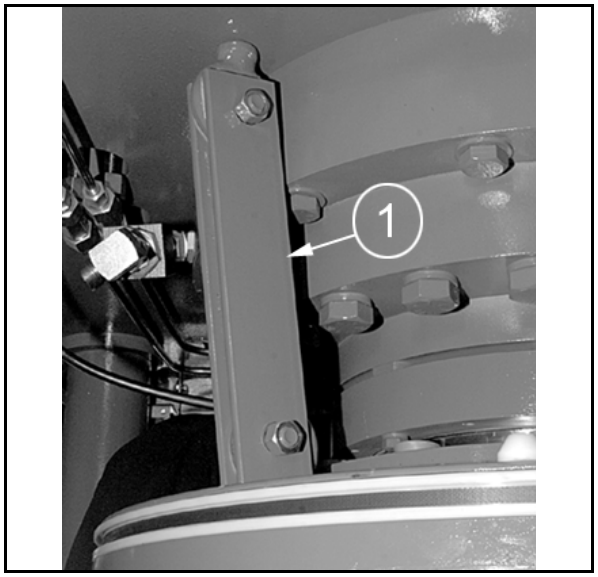


4. Raising the Cylinder Rod

1. Set pump on second oil drum. Two technicians (or a suitable lifting device) are required to lift the pump off of the first drum.

2. Remove both bungs from drum top.
3. Put by-pass and suction hoses into oil drum.
4. Connect the 1/2" fill hose (previously used to raise the tube) to the ram drain (Figure 6).
5. Connect a 1" line to the fitting plate on top of the cylinder. Put the other end of this hose into the other oil drum.
6. Verify that the red button release knob is down.
7. Turn on pump and actuate the lever.
8. Attach the diaphragm safety bars (Figure 11) as soon as the platen is high enough to do so. If the mounting eyes do not align, push on the rising platen with a long wooden board until the eyes align.
9. After the diaphragm safety bars are installed, pull the red knob release knob up to drain the oil from the rod fill line back into the oil drum.
10. Remove the fill plate and drain all the oil lines into the drum.
11. Continue installation process as per “Single Stage Press Installation.”

Figure 11: Diaphragm Safety Bars (Item 1)



— End of BIPPMI05 —

Hydraulic Oil Add

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This dealer instruction applies to all Milnor 1–stage presses—the newer, single-manifold models, the older multi-manifold models, and all sizes, up to and including the MP1A_ models. However, the procedures vary somewhat, across models. Where this occurs, the differences are explained. This instruction explains:

- how to add oil at installation or after major hydraulic component replacement
- how to replace oil that has become unserviceable

The procedure to top off the hydraulic oil when it falls below full is routine maintenance that can be performed by the customer, and is explained in the maintenance guide.

Whenever hydraulic oil is added to the 1–station press, it is always necessary to pass the oil through a clean filter of the correct mesh size. Even new oil, as it comes in the container, is not sufficiently clean. A very serious consequence of failure to pass the oil through a filter is ram scoring. If this occurs, it will become necessary to replace this costly component.

CAUTION: **Insufficient or bad lubricant —** will decrease the life of components.

- ▶ Add lubricant as specified in this instruction.
- ▶ Make sure that all equipment and fittings used to apply lubricants are clean.
- ▶ Use only the given lubricants or lubricants that have the same specifications.

The filter through which oil added to the press is passed can be internal (a press component) or external (typically on an oil filter cart). There are several locations on the press tank where oil can be added, but only one of these puts the oil through a filter. If an external filter is not available, it is necessary to add oil through the internally filtered inlet.

The press internal filter can perform any of three possible functions at different times: oil add, flush, and recirculation. Single-manifold machines use the same filter size to perform all functions. Older, multi-manifold machines, can require a different filter size for each function. Hence, it can be necessary to put a different filter cartridge in the filter receptacle depending on the function to be performed.

1. Internal Filter Functions and Cartridges Used in 1–Station Presses

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Filter Functions

oil add filtering required whenever oil is added to the press, whether filling the empty tank or topping off the tank to the full mark. Always use a cartridge of the size specified in the table below.

flush filtering required at installation and after replacement of major hydraulic components, such as the ram. Before production starts, run the press for eight (8) hours to remove contaminates that may have entered when tank openings, ram opening, or hose connections were exposed.

recirculation filtering that occurs continuously while the press is in operation. Depending on the model, this can require a coarser filter so that oil flow is not impeded.

Required Cartridge

Model	Number of internal filters	Filter Function	Cartridge Mesh Size (microns)	Milnor P/N
All single-manifold models and sizes manufactured after December 2020	1	any	5	27E112E
All single-manifold models and sizes manufactured through December 2020	1	any	11	27E7112B
All older multi-manifold models except MP1A	1	oil add	23 to 25	27E7106A
		flush	4	27E7106E
		recirculation	23 to 25	27E7106A
Older MP1A_ multi-manifold models	2 •	oil add	23 to 25	27E7106A
		flush	4	27E7106E
	•	recirculation	11	27E7112B

2. Hydraulic Oil Maintenance Components, Capacities, and Specification

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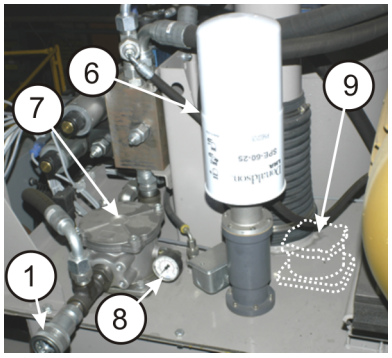
Maintenance Components and Oil Capacities

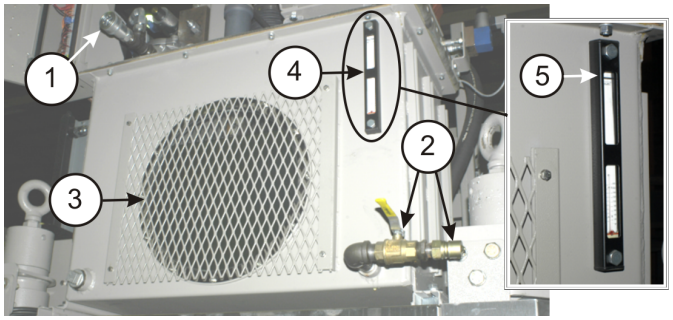
Figure 1. Maintenance Components and oil capacities

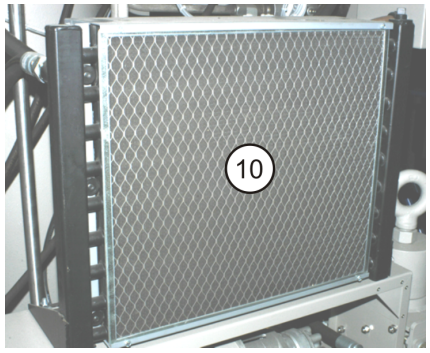
Typical Multi-manifold Machine



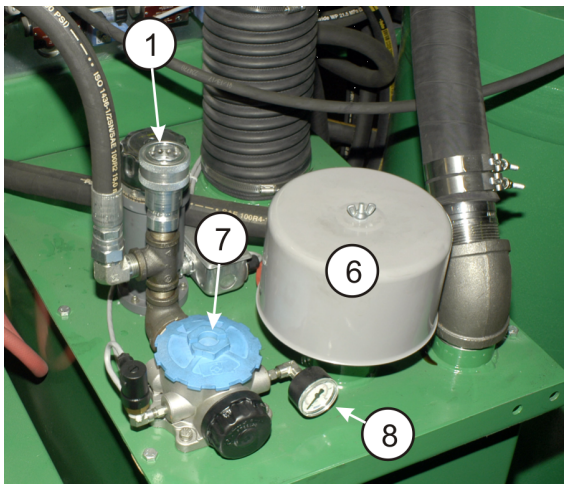
Legend

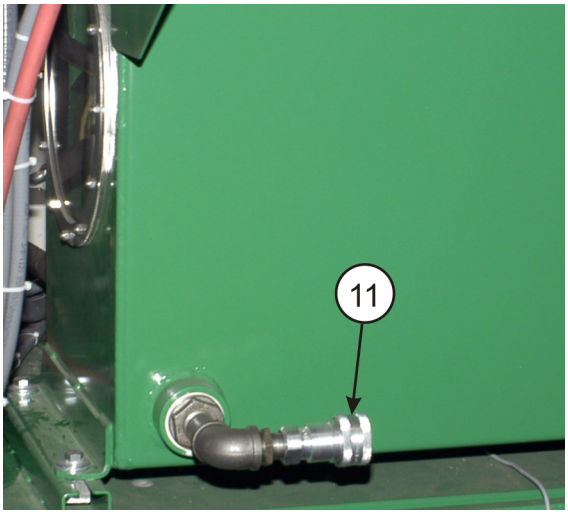
1. Filtered inlet. Add oil here. System capacity: MP15_ and MP16_ models = 70 gallons (265 liters). MP1A_ models = 115 gallons (435 liters)
2. Remove oil here.
3. View port
4. Level and temperature gauges
5. Tank is full when the level is here. See caution statement.
6. Breather and moisture filter
7. Housing with oil filter
8. Oil filter pressure gauge
9. Housing with recirculation oil filter on older MP1A_ models
10. Air filter on oil cooler
11. Unfiltered inlet — newer single-manifold machines only





Typical Single-manifold machine





Specification — The hydraulic system in all Milnor 1–station press models uses Shell Tellus 68 or equivalent oil.

3. Add Oil at Installation or After Major Hydraulic Component Replacement — Flush Required

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Before proceeding, make sure:

- **the machine is fully assembled**
- **all hydraulic connections are tight**
- **the ram is in the up position and held up by the safety bars**
- **power is removed at the external disconnect box**

CAUTION: **Adding oil with the ram in the wrong position** — Will cause a large quantity of oil to spill the first time the machine is operated.

▶ Add oil only with the ram up and secured.

1. Determine if an external filter will be used.
   - If the oil will be passed through an external filter, it is acceptable to add oil at any convenient, unfiltered port on the tank.
   - If no external filter is available, it is necessary to add oil through the quick disconnect inlet on top of the tank (Item 1 in Figure Figure 1: Maintenance Components and oil capacities, page 3).
2. Examine the filter cartridge to confirm that it is the mesh size specified in : Required Cartridge, page 2 and it is clean. If this procedure is due to major hydraulic component replacement, replace the used oil filter cartridge with a new one.

   NOTE: New 1–station presses are shipped from the Milnor factory with a 5 micron internal oil filter installed. This filter was used to test system at the factory, but is still serviceable. It can be used to add oil and flush the system on site.
3. Add new oil (Shell Tellus 68 or equivalent) until the fill gauge on the hydraulic tank indicates the system is full. This will require approximately the volume of oil given in Figure Figure 1: Maintenance Components and oil capacities, page 3 for your model.

   Before the machine can be put into service, it is necessary to flush the hydraulic system. This is an eight (8) hour process and must be performed when the machine is off line.
4. Flush the hydraulic system, as follows:
   a. Ensure that the cartridge currently installed in the machine is the correct size to flush the system.
   b. Restore external power to the machine.
   c. Apply control power ( ).

d. Start the machine (①).

e. Let the machine run for eight (8) hours.

f. Shut down the machine and remove power at the external disconnect box.

g. Remove and discard the oil filter that was used to flush the system.

h. Add a new filter cartridge of the mesh size given in : Required Cartridge, page 2 for your model and for the recirculation function.

4. Replace Unserviceable Oil — Flush Not Required

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Before proceeding, make sure:

- **the ram is in the up position and held up by the safety bars**
- **power is removed at the external disconnect box**

CAUTION: **Adding oil with the ram in the wrong position** — Will cause a large quantity of oil to spill the first time the machine is operated.

▶ Add oil only with the ram up and secured.

1. Make sure that the manual valve on the tank drain port (item 2 in Figure Figure 1: Maintenance Components and oil capacities, page 3) is closed.
2. Connect the drain hose between the drain port on the tank and the container you will use to collect the used oil.

   NOTE: The drain port has a quick disconnect fitting. It will be necessary to use a hose with a mating fitting or remove the quick disconnect fitting from the drain port.

3. Operate the manual valve to allow oil to flow. Close the valve when the tank is empty.
4. Remove the drain hose. If you removed the quick disconnect fitting, either replace it or put a cap on the drain pipe.
5. Determine if an external filter will be used.
   - If the oil will be passed through an external filter, it is acceptable to add oil at any convenient, unfiltered port on the tank.
   - If no external filter is available, it is necessary to add oil through the quick disconnect inlet on top of the tank (Item 1 in Figure Figure 1: Maintenance Components and oil capacities, page 3).
6. Replace the used oil filter cartridge with a new one. Make sure the new cartridge is the mesh size specified in : Required Cartridge, page 2 .
7. Add new oil (Shell Tellus 68 or equivalent) until the fill gauge on the hydraulic tank indicates the system is full. This will require approximately the volume of oil given in Figure Figure 1: Maintenance Components and oil capacities, page 3 for your model.

End of document: BNP1PI01

Torque Requirements for Fasteners

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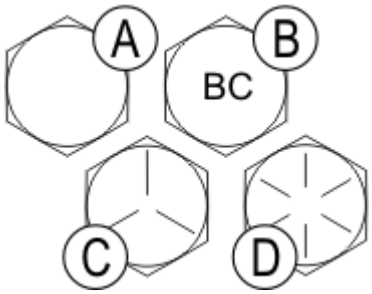
The document about the assembly gives the torque requirements for other fasteners. **If fastener torque specifications or threadlocker requirements in an assembly document are different from this document, use the assembly document.**

Figure 1. The Bolts in Milnor® Equipment

The Marks on Bolt Heads	Legend
	**A . . .** SAE Grades 1 and 2, ASTM A307, and stainless steel **B . . .** Grade BC, ASTM A354 **C . . .** SAE Grade 5, ASTM A449 **D . . .** SAE Grade 8 and ASTM A354 BD

1. Torque Values

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These tables give the standard dimension, grade, threadlocker, and torque requirements for fasteners frequently used on Milnor® equipment.

NOTE: Data from the Pellerin Milnor® Corporation “Bolt Torque Specification” (bolt_torque_milnor.xls/2002096).

1.1. Fasteners Made of Carbon Steel

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1.1.1. Without a Threadlocker

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Table 1. Torque Values for Standard Fasteners with Maximum 5/16-inch Diameters and No Lubricant

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	66	7	101	11	143	16	126	14
1/4 x 28	76	9	116	13	163	18	–	–
5/16 x 18	136	15	209	24	295	33	258	29
5/16 x 24	150	17	232	26	325	37	–	–

Table 2. Torque Values for Standard Fasteners Larger Than 5/16-inch Diameters and No Lubricant

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
3/8 x 16	20	27	31	42	44	59	38	52
3/8 x 24	23	31	35	47	50	68	–	–
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	105	–	–
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163	–	–

Torque Values for Standard Fasteners Larger Than 5/16-inch Diameters and No Lubricant (cont'd.)

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232	–	–
5/8 x 11	97	131	150	203	212	287	186	252
5/8 x 18	110	149	170	231	240	325	–	–
3/4 x 10	172	233	266	361	376	510	329	446
3/14 x 16	192	261	297	403	420	569	–	–
7/8 x 9	167	226	429	582	606	821	531	719
7/8 x 14	184	249	473	641	668	906	–	–
1 x 8	250	339	644	873	909	1232	796	1079
1 x 12	274	371	704	954	994	1348	–	–
1 x 14	281	381	723	980	1020	1383	–	–
1 1/8 x 7	354	480	794	1077	1287	1745	1126	1527
1 1/8 x 12	397	538	891	1208	1444	1958	–	–
1 1/4 x 7	500	678	1120	1519	1817	2464	1590	2155
1 1/4 x 12	553	750	1241	1682	2012	2728	–	–
1 3/8 x 6	655	888	1469	1992	2382	3230	2085	2827
1 3/8 x 12	746	1011	1672	2267	2712	3677	–	–
1 1/2 x 6	869	1178	1949	2642	3161	4286	2767	3751
1 1/2 x 12	979	1327	2194	2974	3557	4822	–	–

Table 3. Torque Values for Plated Fasteners with Maximum 5/16-inch Diameters and No Lubricant

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	49	6	76	9	107	12	95	11
1/4 x 28	56	6	88	10	122	14	–	–
5/16 x 18	102	12	156	18	222	25	193	22
5/16 x 24	113	13	174	20	245	28	–	–

Table 4. Torque Values for Plated Fasteners Larger Than 5/16-inch Diameters and No Lubricant

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
3/8 x 16	15	20	23	31	33	44	29	38
3/8 x 24	17	23	26	35	37	49	–	–
7/16 x 14	24	32	37	50	52	71	46	61
7/16 x 20	27	36	41	55	58	78	–	–
1/2 x 13	37	49	56	76	80	106	70	93
1/2 x 20	41	55	64	85	90	120	–	–
9/16 x 12	53	70	81	110	115	153	101	134
9/16 x 18	59	79	91	122	128	174	–	–
5/8 x 11	73	97	113	150	159	212	139	186
5/8 x 18	83	110	127	172	180	240	–	–
3/4 x 10	129	173	200	266	282	376	246	329
3/14 x 16	144	192	223	297	315	420	–	–
7/8 x 9	125	166	322	430	455	606	398	531
7/8 x 14	138	184	355	474	501	668	–	–
1 x 8	188	250	483	644	682	909	597	796

Torque Values for Plated Fasteners Larger Than 5/16-inch Diameters and No Lubricant (cont'd.)

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
1 x 12	205	274	528	716	746	995	–	–
1 x 14	210	280	542	735	765	1037	–	–
1 1/8 x 7	266	354	595	807	966	1288	845	1126
1 1/8 x 12	298	404	668	890	1083	1444	–	–
1 1/4 x 7	375	500	840	1120	1363	1817	1192	1590
1 1/4 x 12	415	553	930	1261	1509	2013	–	–
1 3/8 x 6	491	655	1102	1470	1787	2382	1564	2085
1 3/8 x 12	559	758	1254	1672	2034	2712	–	–
1 1/2 x 6	652	870	1462	1982	2371	3161	2075	2767
1 1/2 x 12	733	994	1645	2194	2668	3557	–	–

1.1.2. With a Threadlocker

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Table 5. Threadlocker by the Diameter of the Bolt (see below Note)

	Dimension			
LocTite Product	1/4-inch	1/4- to 5/8-inch	5/8- to 7/8-inch	1-inch +
LocTite 222	OK			
LocTite 242		OK		
LocTite 262			OK	
LocTite 272			High temperature	
LocTite 277				OK

NOTE: The acceptable bolt size ranges for various LocTite® threadlocking products is the LocTite manufacturer's **general** recommendation. Specific applications sometime require that a LocTite product is applied to a bolt size outside the ranges shown here. For example, Milnor® specifies LocTite 242 for use on certain 1" bolt applications and has confirmed this usage with the LocTite manufacturer. You may see variances such as this in the documentation for specific machine assemblies.

Table 6. Torque Values if You Apply LocTite 222

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	60	7	96	11	132	15	108	12
1/4 x 28	72	8	108	12	144	16	–	–

Table 7. Torque Values if You Apply LocTite 242

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
5/16 x 18	11	15	17	23	25	34	22	30
5/16 x 24	13	18	19	26	27	37	27	37
3/8 x 16	20	27	31	42	44	60	38	52
3/8 x 24	23	31	35	47	50	68	–	–
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	106	–	–
1/2 x 13	49	66	75	102	107	145	93	126

Torque Values if You Apply LocTite 242 (cont'd.)

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
1/2 x 20	55	75	85	115	120	163	–	–
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232	–	–
5/8 x 11	97	132	150	203	212	287	186	252
5/8 x 18	110	149	170	230	240	325	–	–

Table 8. Torque Values if You Apply LocTite 262

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
3/4 x 10	155	210	240	325	338	458	296	401
3/4 x 16	173	235	267	362	378	512	–	–
7/8 x 9	150	203	386	523	546	740	477	647
7/8 x 14	165	224	426	578	601	815	–	–

Table 9. Torque Values if You Apply LocTite 272 (High-Temperature)

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
1 x 8	350	475	901	1222	1272	1725	1114	1510
1 x 12	383	519	986	1337	1392	1887	–	–
1 x 14	393	533	1012	1372	1428	1936	–	–
1-1/8 x 7	496	672	1111	1506	1802	2443	1577	2138
1-1/8 x 12	556	754	1247	1691	2022	2741	–	–
1-1/4 x 7	700	949	1568	2126	2544	3449	2226	3018
1-1/4 x 12	774	1049	1737	2355	2816	3818	–	–
1-3/8 x 6	917	1243	2056	2788	3335	4522	2919	3958
1-3/8 x 12	1044	1415	2341	3174	3797	5148	–	–
1-1/2 x 6	1217	1650	2729	3700	4426	6001	3873	5251
1-1/2 x 12	1369	1856	3071	4164	4980	6752	–	–

Table 10. Torque Values if You Apply LocTite 277

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
1 x 8	325	441	837	1135	1181	1601	1034	1402
1 x 12	356	483	916	1242	1293	1753	–	–
1 x 14	365	495	939	1273	1326	1798	–	–
1-1/8 x 7	461	625	1032	1399	1674	2270	1464	1985
1-1/8 x 12	516	700	1158	1570	1877	2545	–	–
1-1/4 x 7	650	881	1456	1974	2362	3202	2067	2802
1-1/4 x 12	719	975	1613	2187	2615	3545	–	–
1-3/8 x 6	851	1154	1909	2588	3097	4199	2710	3674
1-3/8 x 12	970	1315	2174	2948	3526	4781	–	–
1-1/2 x 6	1130	1532	2534	3436	4110	5572	3597	4877
1-1/2 x 12	1271	1723	2852	3867	4624	6269	–	–

1.2. Stainless Steel Fasteners

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Table 11. Torque Values for Stainless Steel Fasteners 5/16-inch and Smaller

Dimension	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	79	9	76	9	45	5
1/4 x 28	100	11	94	11	56	6
5/16 x 18	138	16	132	15	79	9
5/16 x 24	148	17	142	16	85	10

Table 12. Torque Values for Stainless Steel Fasteners Larger Than 5/16-inch

Dimension	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
	Pound-Feet	N-m	Pound-Feet	N-m	Pound-Feet	N-m
3/8 x 16	21	28	20	27	12	16
3/8 x 24	23	31	22	29	13	18
7/16 x 14	33	44	31	42	19	25
7/16 x 20	35	47	33	45	20	27
1/2 x 13	45	61	43	58	26	35
1/2 x 20	47	64	45	61	27	37
9/16 x 12	59	81	57	77	34	46
9/16 x 18	66	89	63	85	38	51
5/8 x 11	97	131	93	125	56	75
5/8 x 18	108	150	104	141	62	84
3/4 x 10	132	179	128	173	77	104
3/4 x 16	130	176	124	168	75	101
7/8 x 9	203	275	194	263	116	158
7/8 x 14	202	273	193	262	116	157
1 x 8	300	406	287	389	172	233
1 x 14	271	367	259	351	156	211
1-1/8 x 7	432	586	413	560	248	336
1-1/8 x 12	408	553	390	529	234	317
1-1/4 x 7	546	740	523	709	314	425
1-1/4 x 12	504	683	480	651	288	390
1-1/2 x 6	930	1261	888	1204	533	722
1-1/2 x 12	732	992	703	953	422	572

2. Preparation

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WARNING: Fire Hazard — Some solvents and primers are flammable.

- Use threadlocker and primers with sufficient airflow.
- Do not use flammable material near ignition sources.

1. Clean all threads with a wire brush or a different tool.
2. Remove the grease from the fasteners and the mating threads with solvent. Make the parts dry.

NOTE: LocTite 7649 Primer™ or standard solvents will remove grease from parts.

3. Apply a spray of LocTite 7649 Primer™ or equal on the fasteners and the mating threads. Let the primer dry for one minute minimum.

3. How to Apply a Threadlocker

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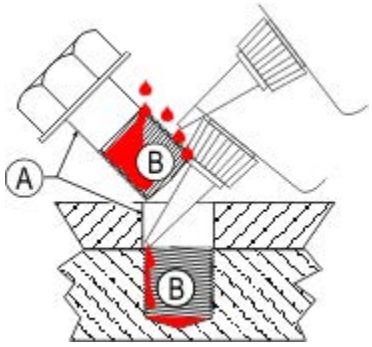
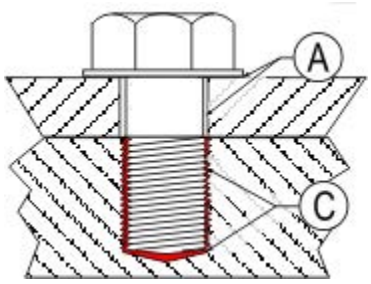
CAUTION: **Malfunction Hazard —** Heat, vibration, or mechanical shocks can let the fasteners loosen if you do not apply the threadlocker correctly. Loose fasteners can cause malfunctions of the equipment.

▶ Read the threadlocker manufacturer's instructions and warnings. Obey these instructions.

Apply the threadlocker only to the areas where the fastener threads and the mating threads engage.

Figure 2. Apply Threadlocker in a Blind Hole

Application	Coverage
	

Legend

A . . . No threadlocker here
B . . . Apply here
C . . . Fill all space with threadlocker

3.1. Blind Holes

BNUUUN02.T03 0000222507 A.3 B.3 1/2/20 2:14 PM Released

1. Apply the threadlocker down the threads to the bottom of the hole.
2. Apply the threadlocker to the bolt.
3. Tighten the bolt to the value shown in the correct table (Threadlocker by the Diameter of the Bolt (see below Note) This topic can be found in Milnor document elsewhere to Torque Values for Stainless Steel Fasteners 5/16-inch and Smaller This topic can be found in Milnor document elsewhere).

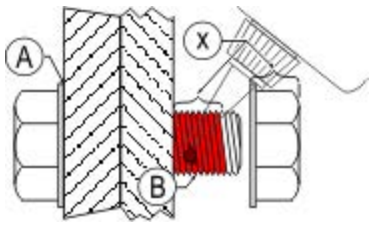
3.2. Through Holes

BNUUUN02.T04 0000222506 A.3 B.3 11/26/19 2:51 PM Released

1. Put the bolt through the assembly.
2. Apply the threadlocker only to the bolt thread area that will engage the nut.

3. Tighten the bolt to the value shown in the correct table (Threadlocker by the Diameter of the Bolt (see below Note) This topic can be found in Milnor document elsewhere to Torque Values for Stainless Steel Fasteners 5/16-inch and Smaller This topic can be found in Milnor document elsewhere).

Figure 3. Apply Threadlocker in a Through Hole

Application	Legend
	**A . . .** No threadlocker here **B . . .** Apply the threadlocker to this area **X . . .** Nut depth

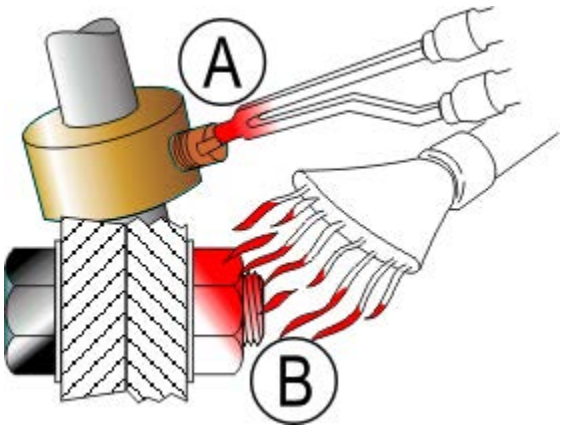
3.3. Disassembly

BNUUUN02.C07 0000222444 A.3 B.3 11/26/19 2:59 PM Released

For high-strength threadlocker, apply heat for five minutes. Disassemble with hand tools while the parts are hot.

For low-strength and moderate-strength threadlocker, disassemble with hand tools.

Figure 4. Use heat for disassembly of fasteners with threadlocker.

Apply Heat to a Small Area	Legend
	**A . . .** How to apply heat to a small fastener **B . . .** How to apply heat to a large fastener

End of document: BNUUUN02

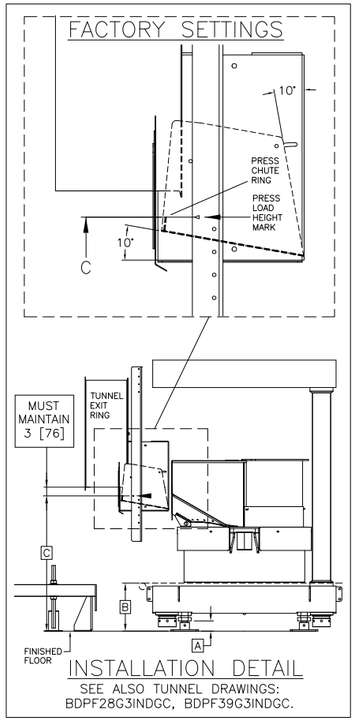
Dimensional Drawings 3

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	13	330	43	1092	146	3708	104 1/4	2648	178	4521
4-1/2" FOOT	14	355	44	1118	147	3734	105 1/4	2673	179	4547
5-1/2" FOOT	15	381	45	1143	148	3759	106 1/4	2699	180	4572
7-1/2" FOOT	17	432	47	1194	150	3810	108 1/4	2748	182	4623

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

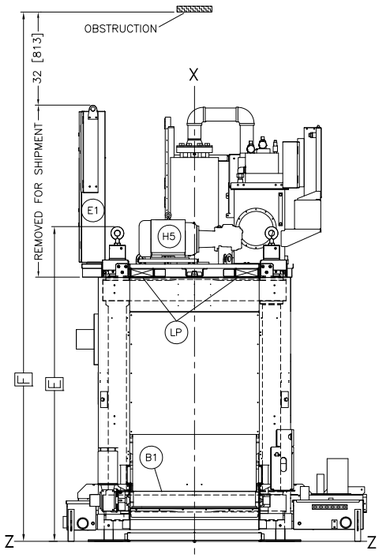
DRAWING FOR:
MP1540CR,CL WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

CAPACITY OF DRY LINEN	110LB/50KG
DIAMETER OF CAKE	36"[914MM]
MAXIMUM PRESSURE	580 PSI (40 BAR)

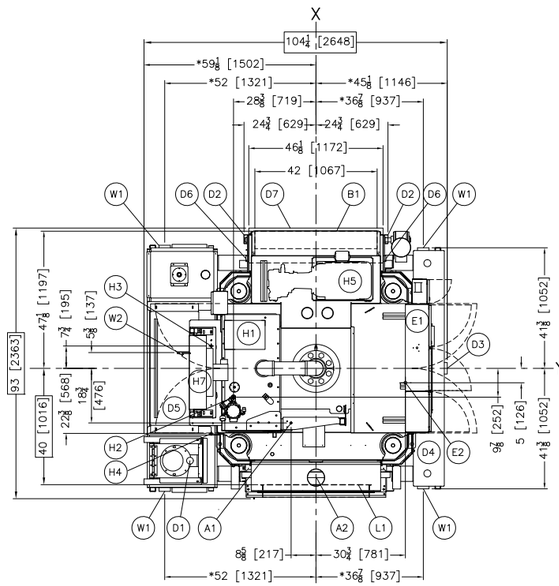


INSTALLATION DETAIL

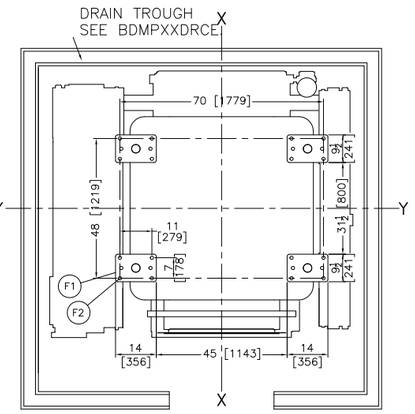
SEE ALSO TUNNEL DRAWINGS:
BDPF28G3INDGC, BDPF39G3INDGC.



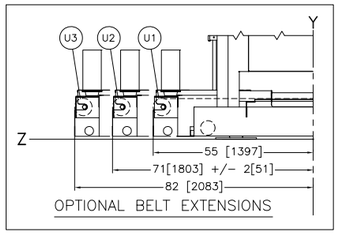
REAR VIEW



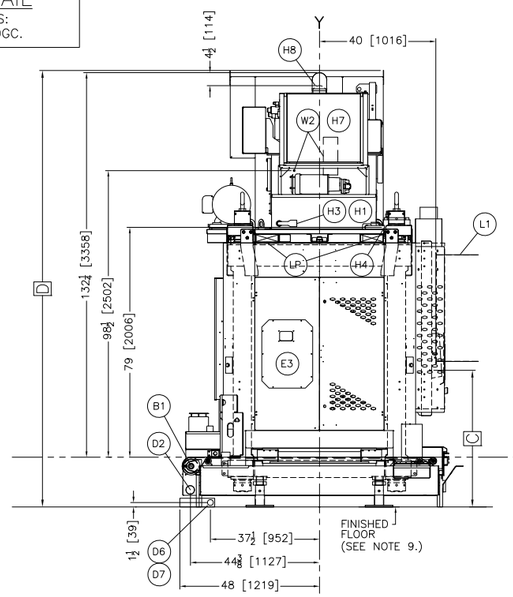
PLAN VIEW



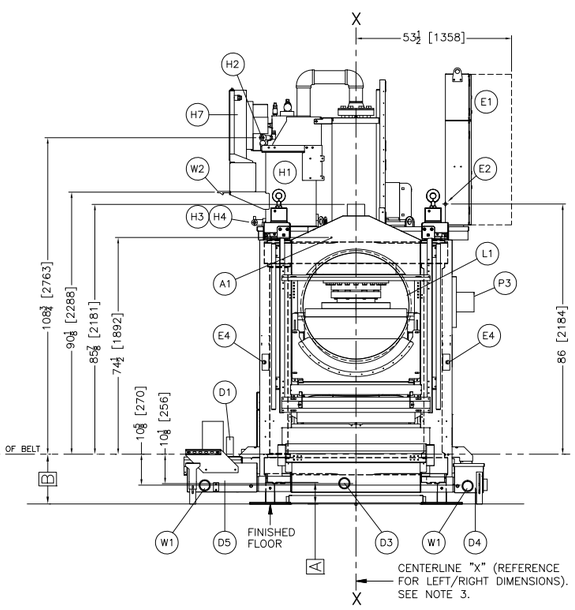
FOUNDATION PLAN VIEW



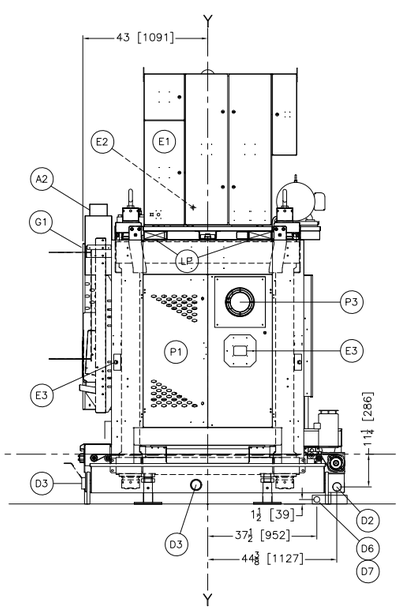
OPTIONAL BELT EXTENSIONS



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

10 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

9 ADJUST TO LEVEL THE MACHINE AND GROUT, IF REQUIRED. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 -24" WIDE AND 1 - 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

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ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

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MP1540CR,CL

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1540CLFE
2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA. Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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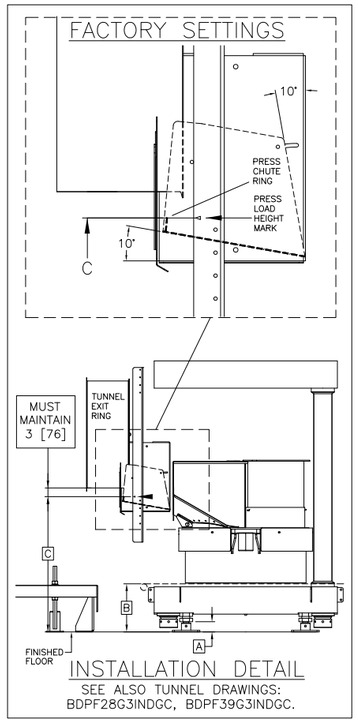
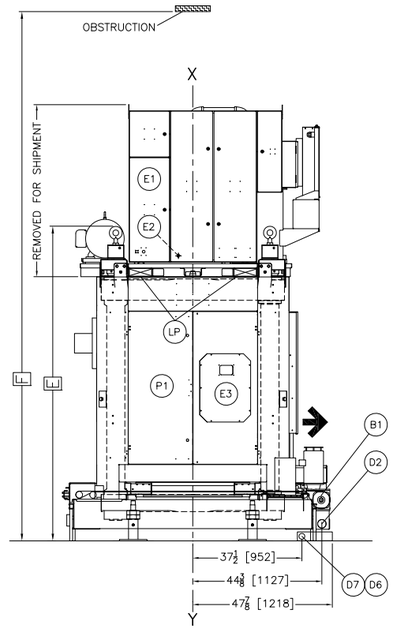
MP1540L WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

CAPACITY OF DRY LINEN	110LB/50KG
DIAMETER OF CAKE	36"[914MM]
MAXIMUM PRESSURE	580 PSI (40 BAR)

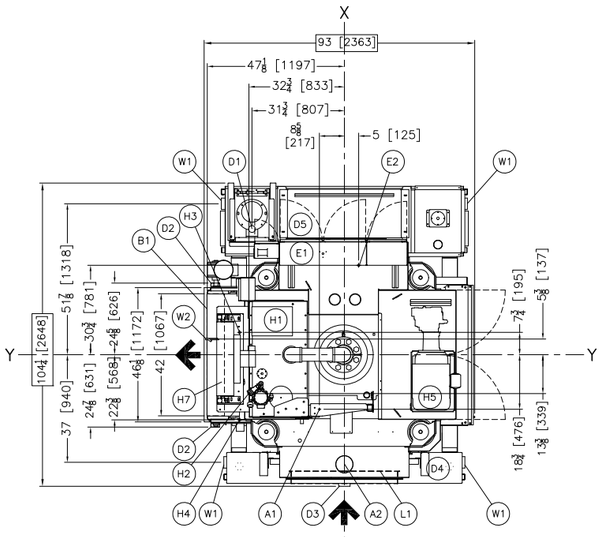


INSTALLATION DETAIL

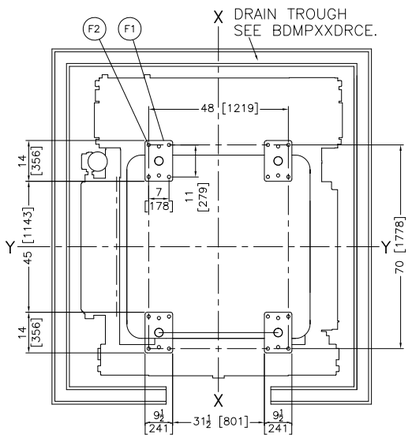
SEE ALSO TUNNEL DRAWINGS: BDPF28G3INDGC, BDPF39G3INDGC.



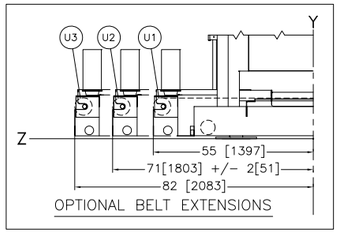
REAR VIEW



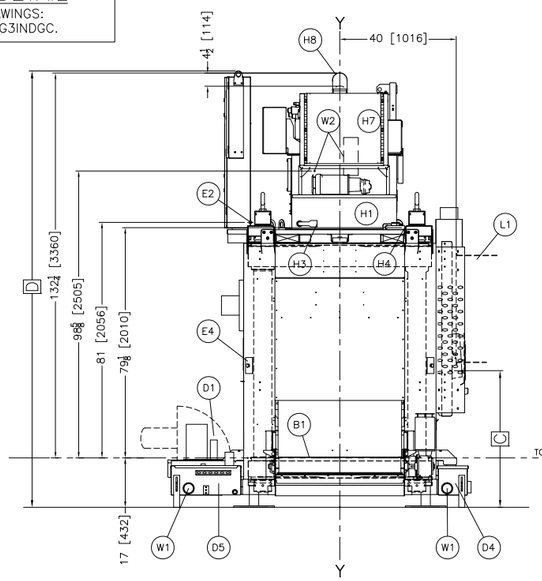
PLAN VIEW



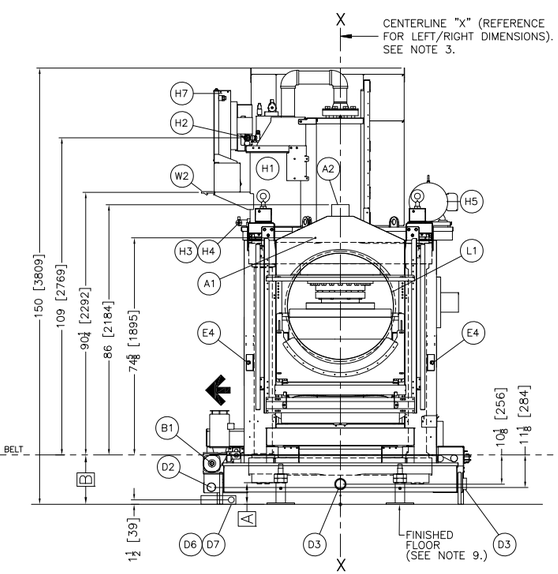
FOUNDATION PLAN VIEW



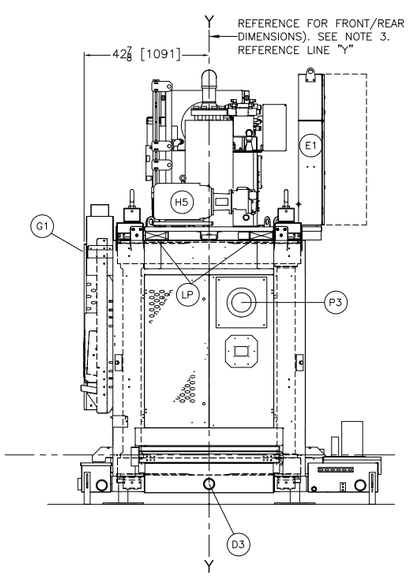
OPTIONAL BELT EXTENSIONS



LEFT VIEW



FRONT VIEW



REAR VIEW

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	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE
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	TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
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E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
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	2 AVAILABLE CONNECTIONS, 1 PLUGGED
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	AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
	DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

ITEM	LEGEND

NOTES

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MP1540L

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1540LFFE 2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
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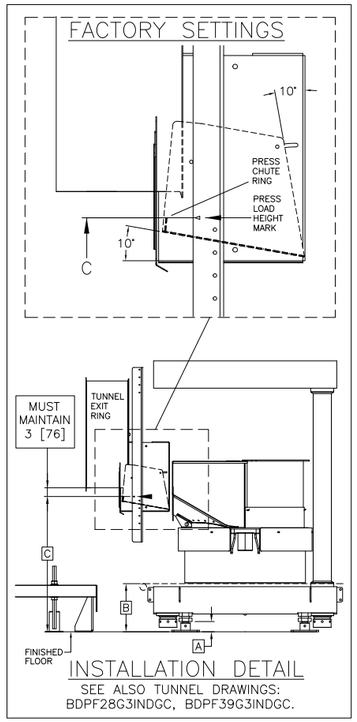
4-1/2" FOOT	14	355	44	1118	147	3734	105 1/4	2673	179	4547
5-1/2" FOOT	15	381	45	1143	148	3759	106 1/4	2699	180	4572
7-1/2" FOOT	17	432	47	1194	150	3810	108 1/4	2748	182	4623

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

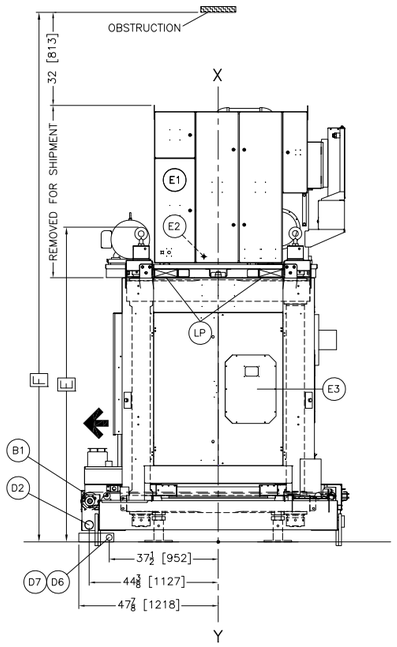
DRAWING FOR:
MP1540R WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

CAPACITY OF DRY LINEN	110LB/50KG
DIAMETER OF CAKE	36"[914MM]
MAXIMUM PRESSURE	580 PSI (40 BAR)

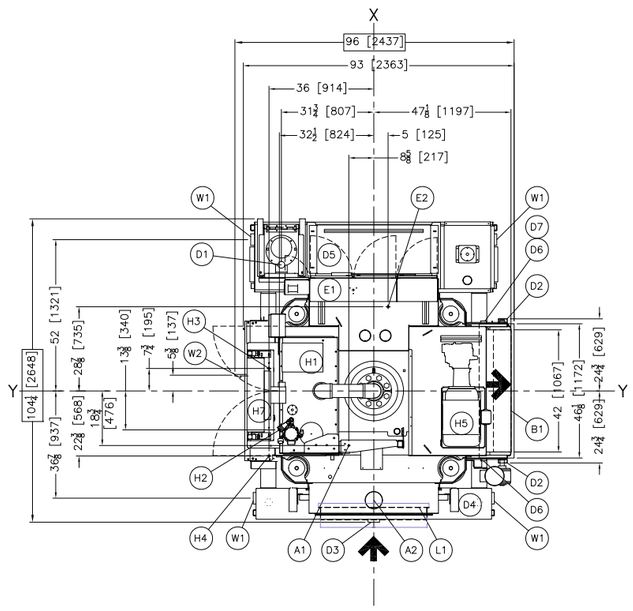


INSTALLATION DETAIL

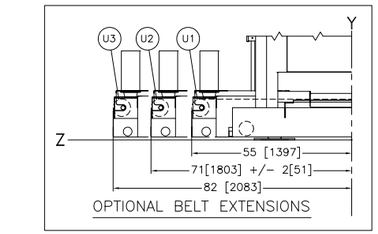
SEE ALSO TUNNEL DRAWINGS: BDPF28G3INDGC, BDPF39G3INDGC.



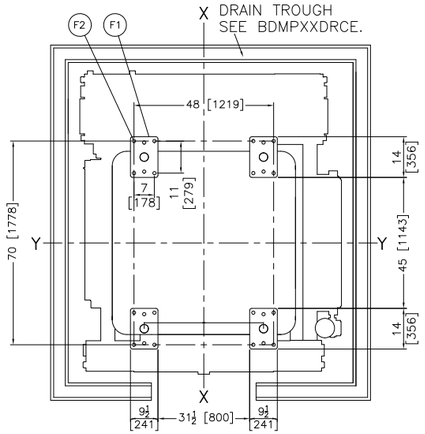
REAR VIEW



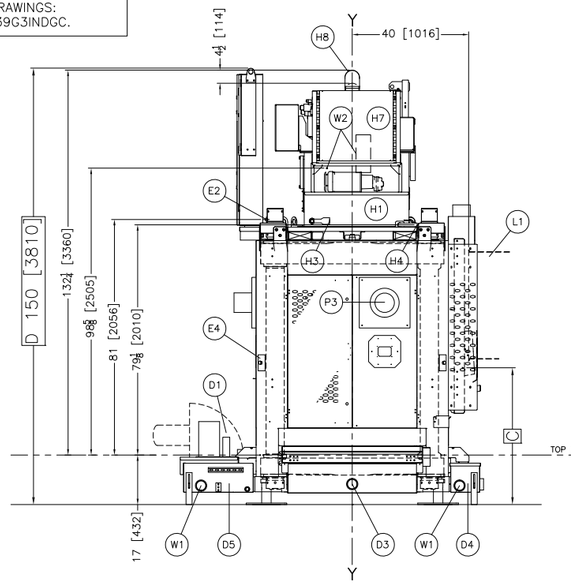
PLAN VIEW



OPTIONAL BELT EXTENSIONS



FOUNDATION PLAN VIEW



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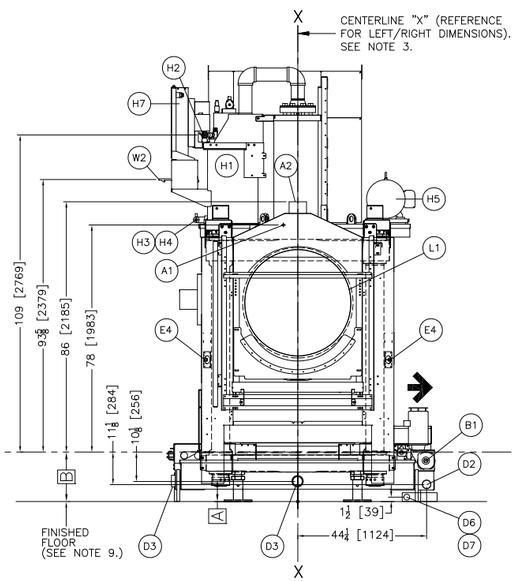
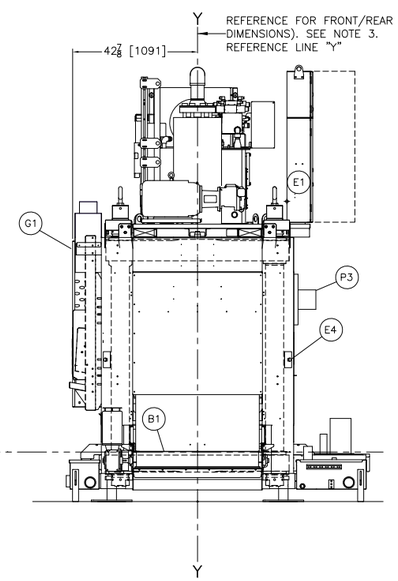


FRONT VIEW



RIGHT VIEW

W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT
ITEM	LEGEND

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

10 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

9 ADJUST TO LEVEL THE MACHINE AND GROUT, IF REQUIRED. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 -24" WIDE AND 1 - 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESIGN AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

MP1540R

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1540RTFE 2025185D

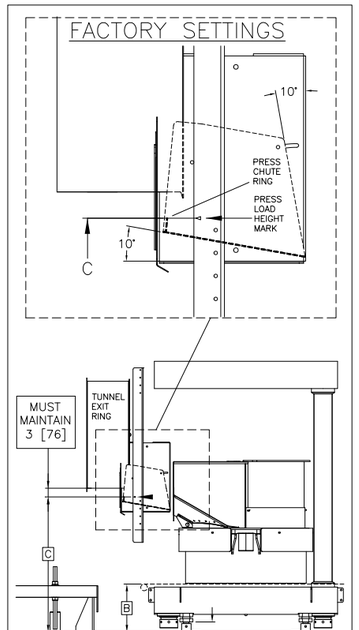
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	14 5/8	371	44 1/2	1130	149	3785	107 3/4	2737	181	4597
5-1/2" FOOT	16 5/8	422	46 1/2	1181	151	3835	109 3/4	2788	183	4648
7-1/2" FOOT	18 5/8	473	48 1/2	1232	153	3887	111 3/4	2838	185	4699

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

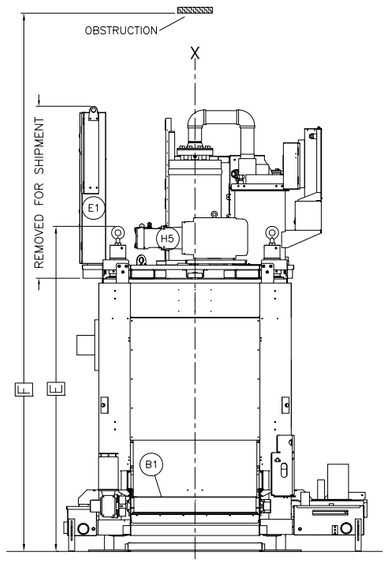
DRAWING FOR:
MP1556CR,CL WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

CAPACITY OF DRY LINEN	110LB/50KG
DIAMETER OF CAKE	36"[914MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)

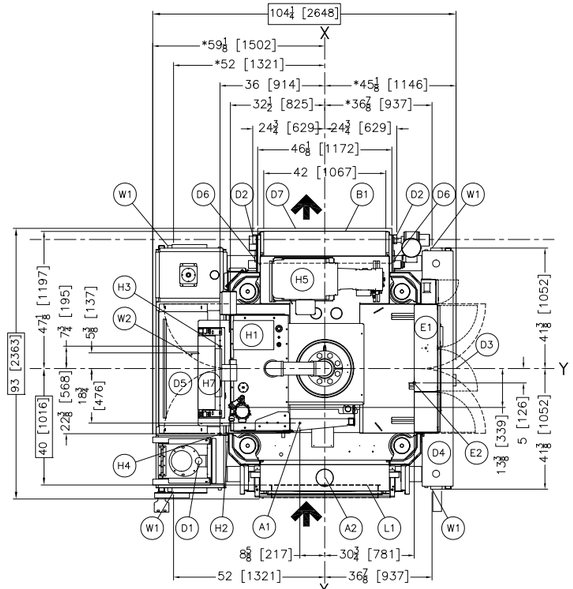


INSTALLATION DETAIL

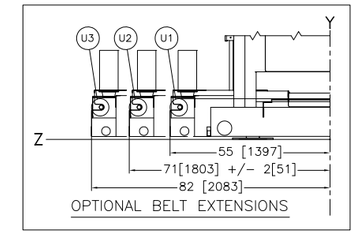
SEE ALSO TUNNEL DRAWINGS:
BDPF28G3INDGC, BDPF39G3INDGC.



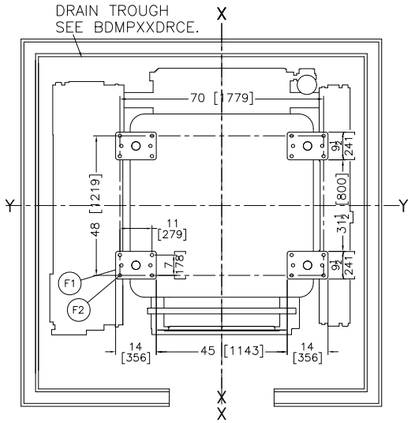
REAR VIEW



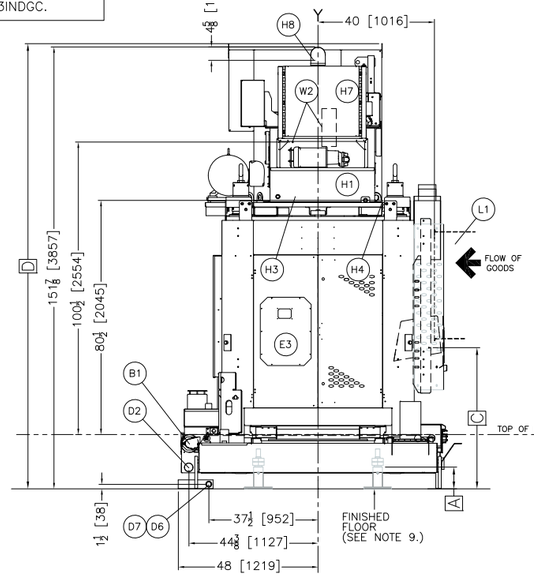
PLAN VIEW



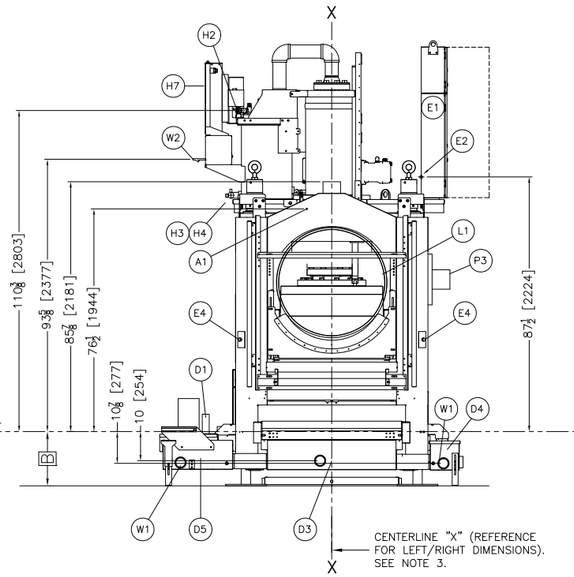
OPTIONAL BELT EXTENSIONS



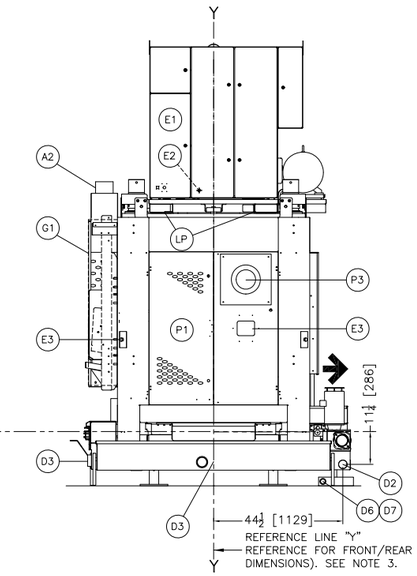
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE
	SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE
	TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE
	QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE
	QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN,
	2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
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D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
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D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY
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B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
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A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

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MPL556CR,CL

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1556CLFE
20251850

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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CAN HEIGHT 18.50"[470MM]

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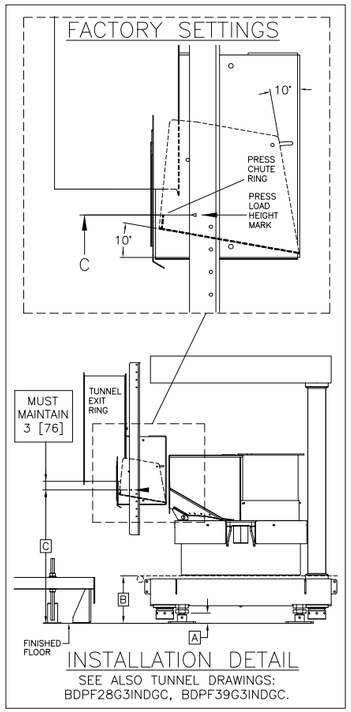

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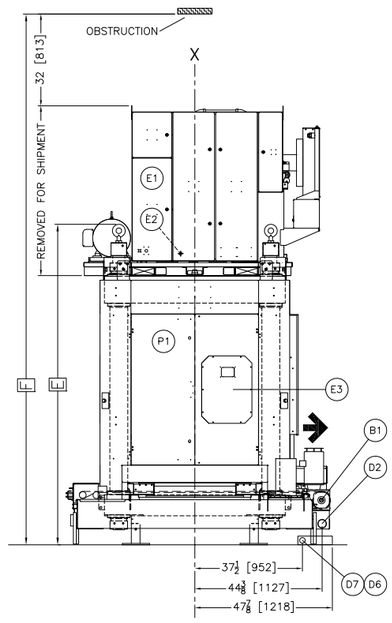
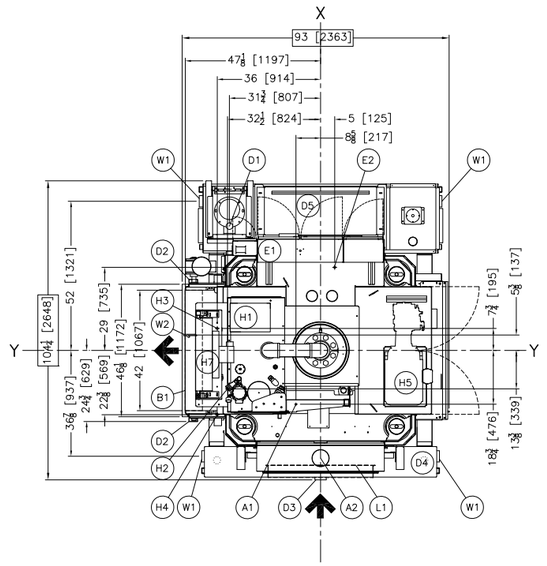
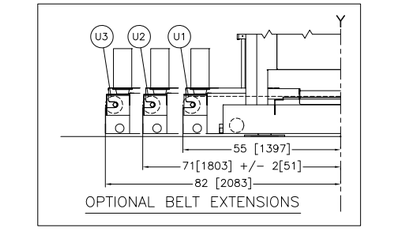


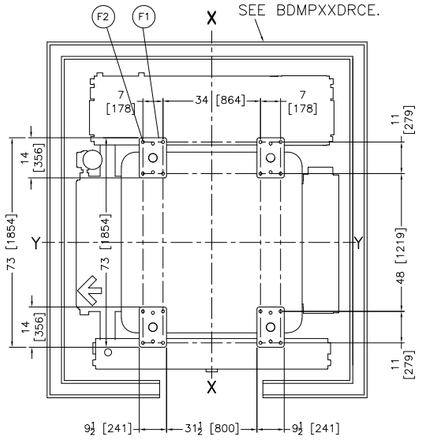
REAR VIEW



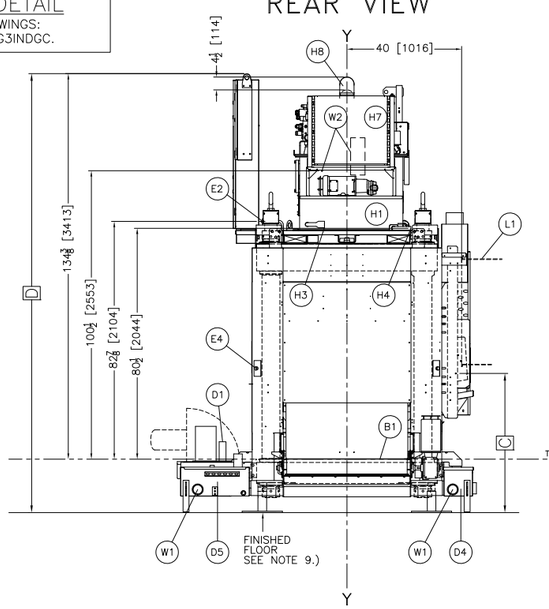
PLAN VIEW



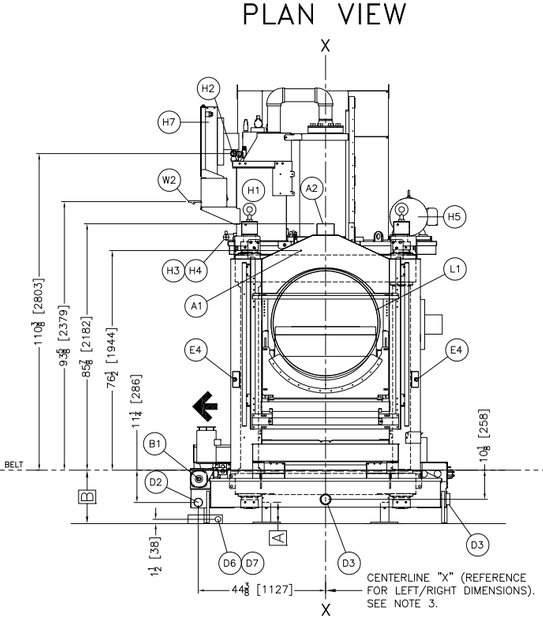
OPTIONAL BELT EXTENSIONS



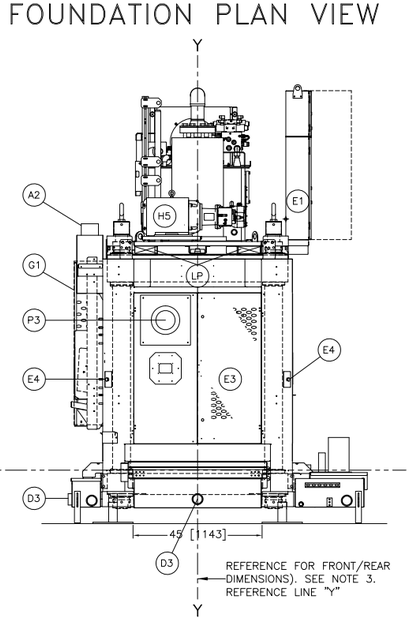
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT
ITEM	LEGEND

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

10 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

9 ADJUST TO LEVEL THE MACHINE AND GROUT, IF REQUIRED. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 –24" WIDE AND 1 – 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESIGN AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

MPL556L

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1556LFFE
20251185D

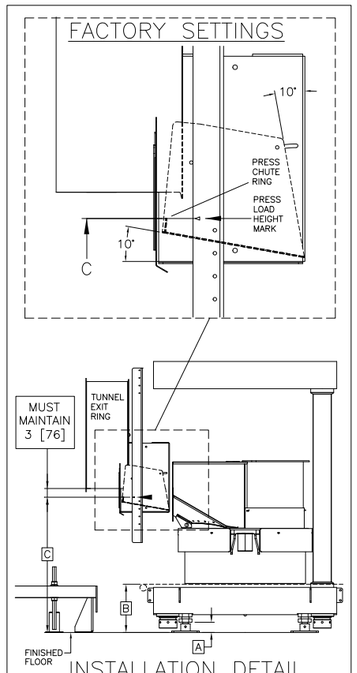
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	14 5/8	371	44 1/2	1130	149	3785	107 3/4	2737	181	4597
5-1/2" FOOT	16 5/8	422	46 1/2	1181	151	3835	109 3/4	2788	183	4648
7-1/2" FOOT	18 5/8	473	48 1/2	1232	153	3887	111 3/4	2838	185	4699

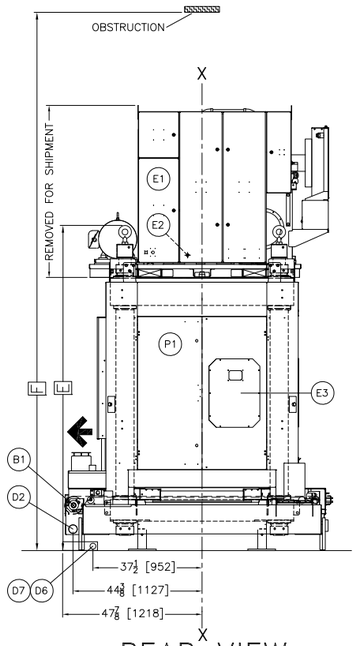
Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

DRAWING FOR:
MP1556R WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

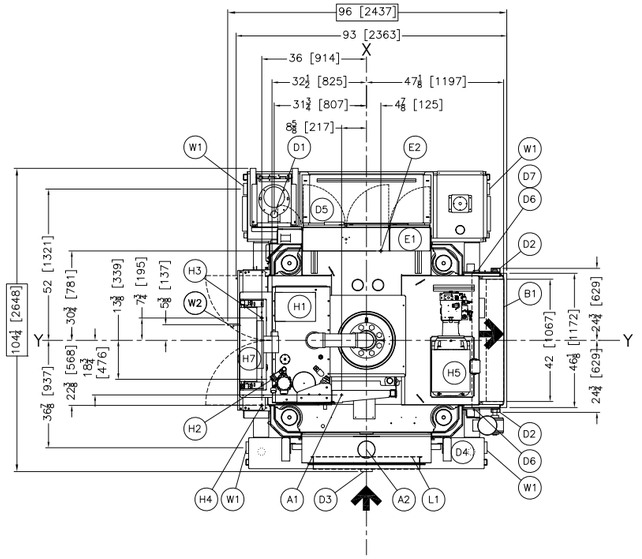
CAPACITY OF DRY LINEN	110LB/50KG
DIAMETER OF CAKE	36"[914MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)



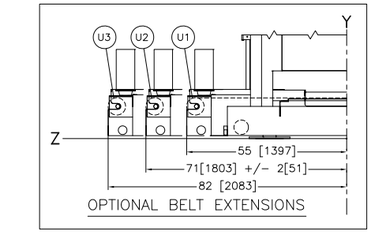
INSTALLATION DETAIL
SEE ALSO TUNNEL DRAWINGS:
BDPF28G3INDGC, BDPF39G3INDGC.



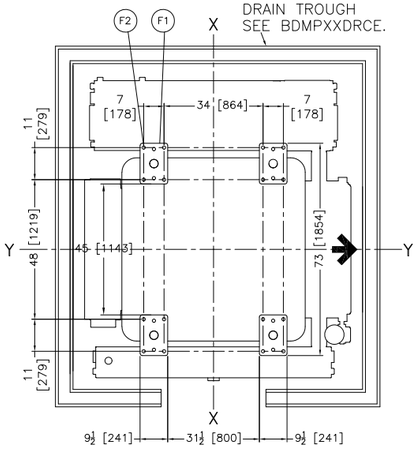
REAR VIEW



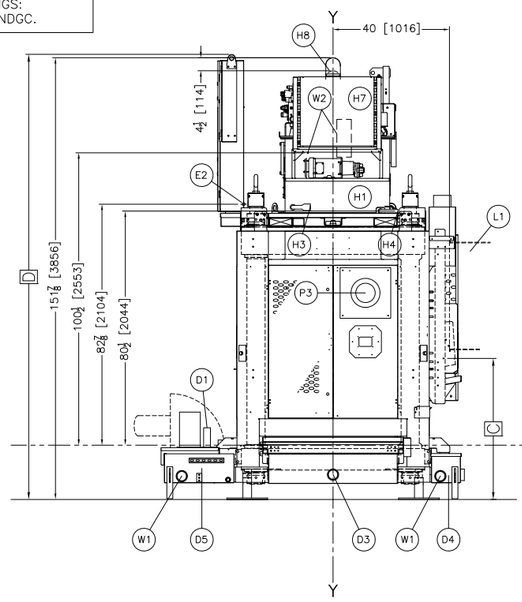
PLAN VIEW



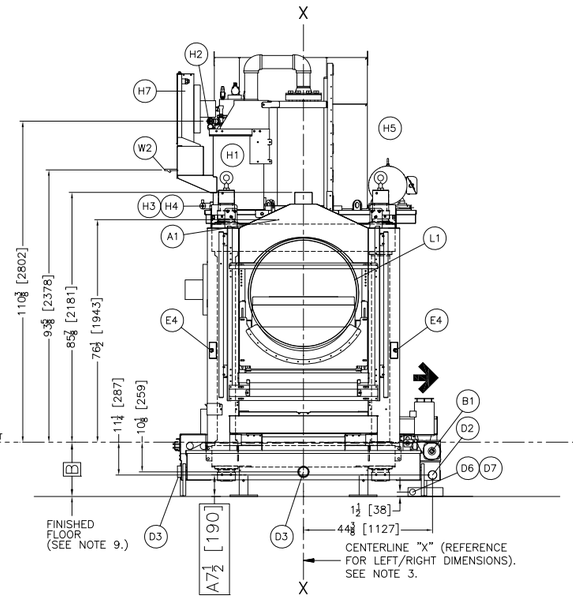
OPTIONAL BELT EXTENSIONS



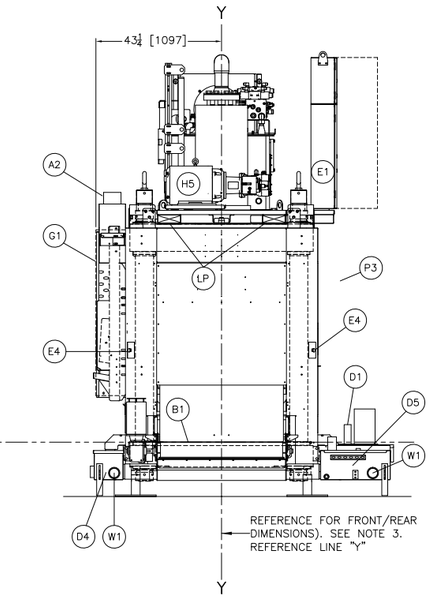
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
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LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
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H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
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H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
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D7	DRIP PAN
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D5	24" WIDE REUSE TANK, SEE NOTE 8.
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D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

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MPL556R

DM 0 0.5M
MM
INCHES 0 12 24

DWG# BDMP1556RTFE
20251185D

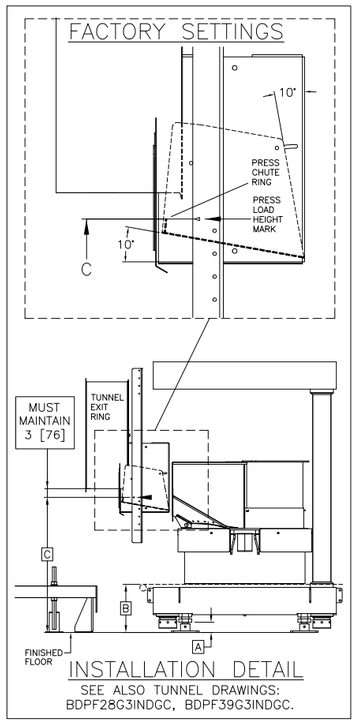
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	14 5/8	371	44 1/2	1130	149	3785	107 3/4	2737	181	4597
5-1/2" FOOT	16 5/8	422	46 1/2	1181	151	3835	109 3/4	2788	183	4648
7-1/2" FOOT	18 5/8	473	48 1/2	1232	153	3887	111 3/4	2838	185	4699

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

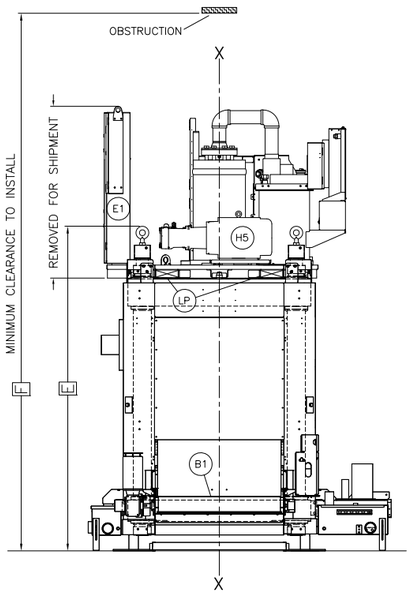
DRAWING FOR:
MP1640CR,CL WITH 15 CUBIC FOOT CAN.
CAN HEIGHT 21.05"[535MM]

CAPACITY OF DRY LINEN	110-150LB/50-68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	580 PSI (40 BAR)

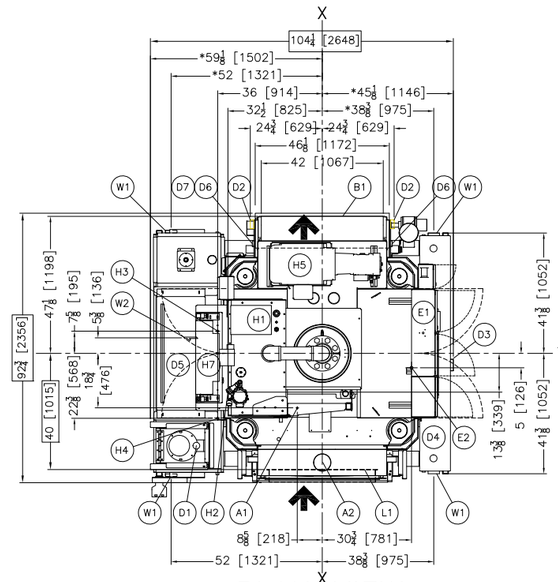


INSTALLATION DETAIL

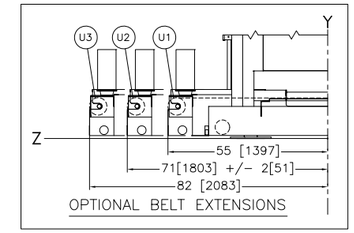
SEE ALSO TUNNEL DRAWINGS:
BDPF28G3INDGC, BDPF39G3INDGC.



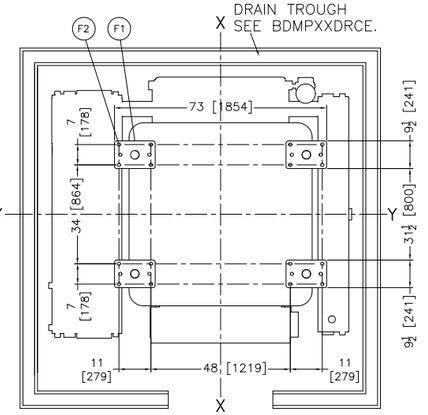
REAR VIEW



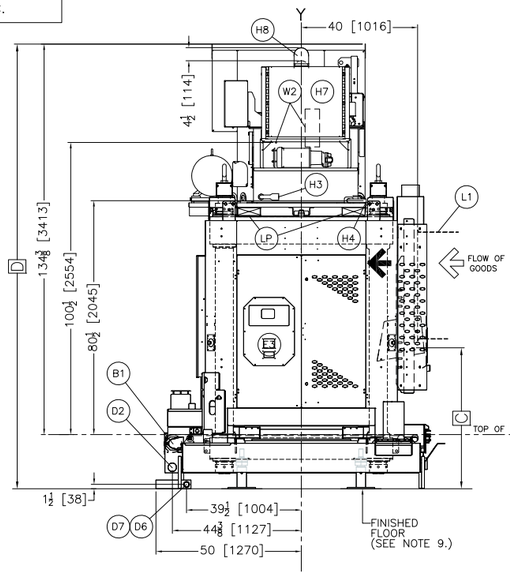
PLAN VIEW



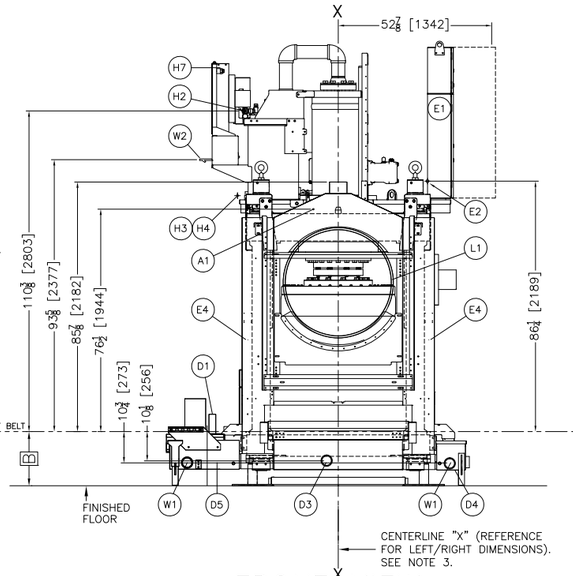
OPTIONAL BELT EXTENSIONS



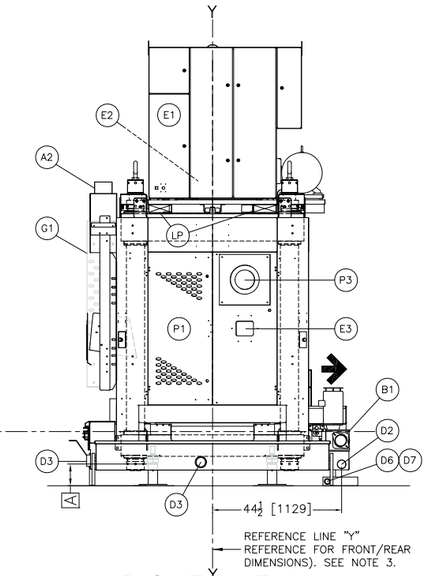
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
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P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
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H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT). SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

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8 THE PRESS USES 1 -24" WIDE AND 1 - 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
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ATTENTION

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MPL640CL,CR

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1640CLHE 2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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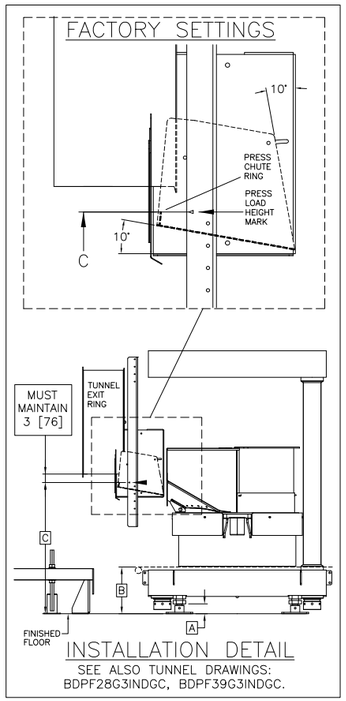
5-1/2" FOOT	16 5/8	422	46 1/2	1181	151	3835	109 3/4	2788	183	4648
7-1/2" FOOT	18 5/8	473	48 1/2	1232	153	3887	111 3/4	2838	185	4699

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

DRAWING FOR:
MP1640L WITH 15 CUBIC FOOT CAN.
CAN HEIGHT 21.05"[535MM]

CAPACITY OF DRY LINEN	110-150LB/50-68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	580 PSI (40 BAR)



INSTALLATION DETAIL

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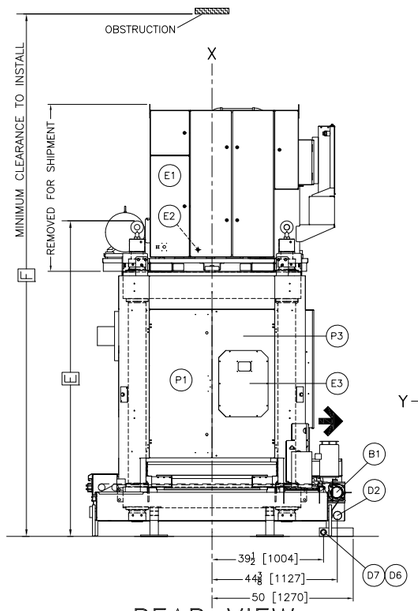
BDPF28G3INDGC, BDPF39G3INDGC.



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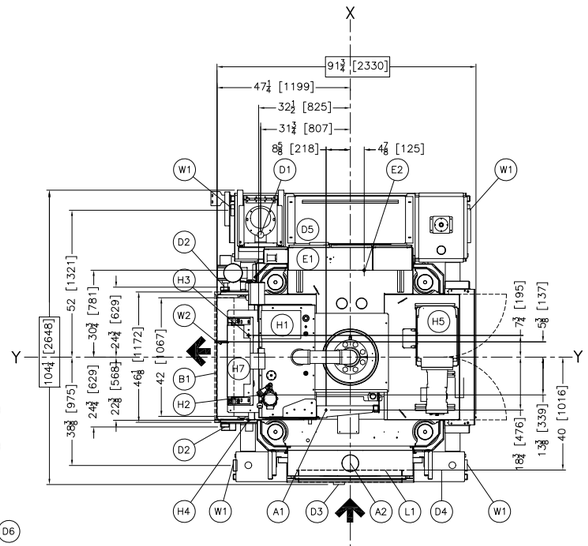
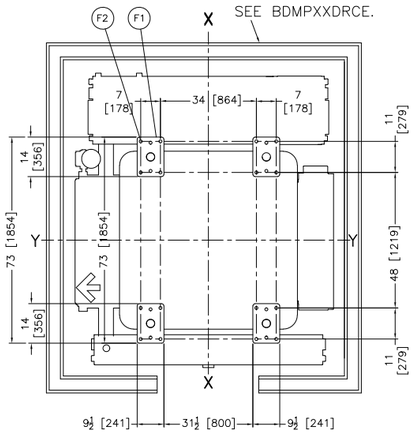


PLAN VIEW



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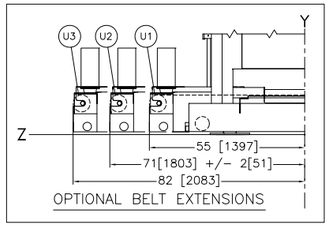

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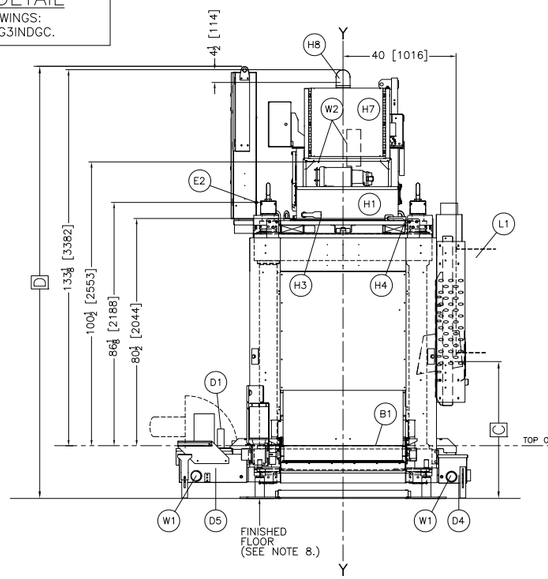

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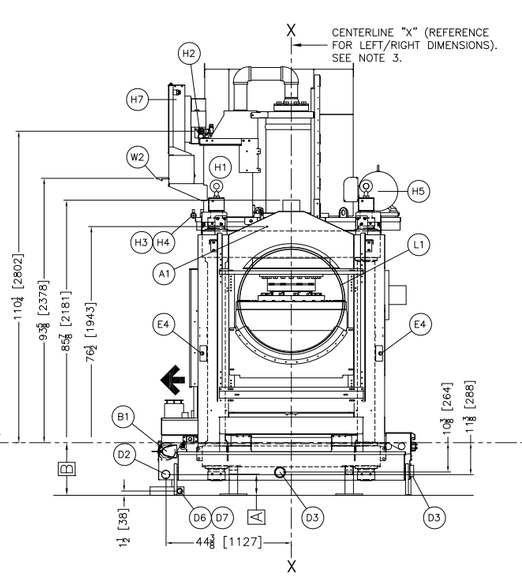

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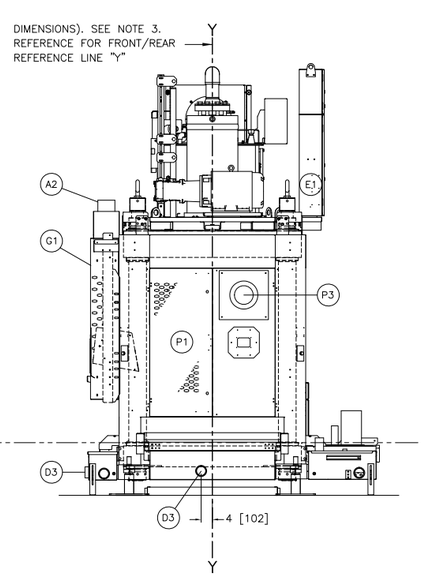

RIGHT VIEW

W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE
	SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE
	TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
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P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
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LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
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H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE
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H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN,
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D5	24" WIDE REUSE TANK, SEE NOTE 8.
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D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY
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NOTES

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MPL640L

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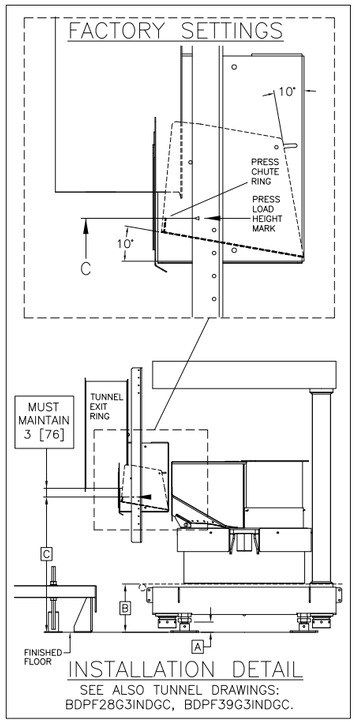

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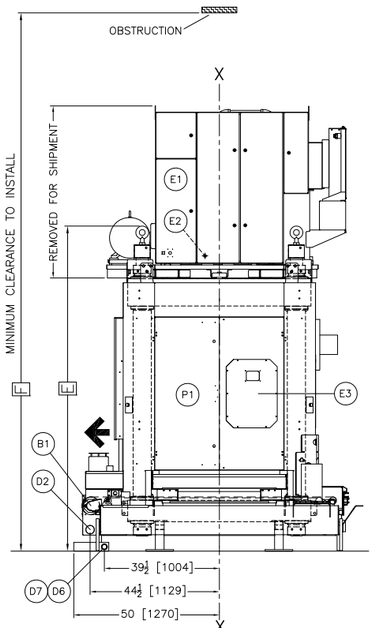
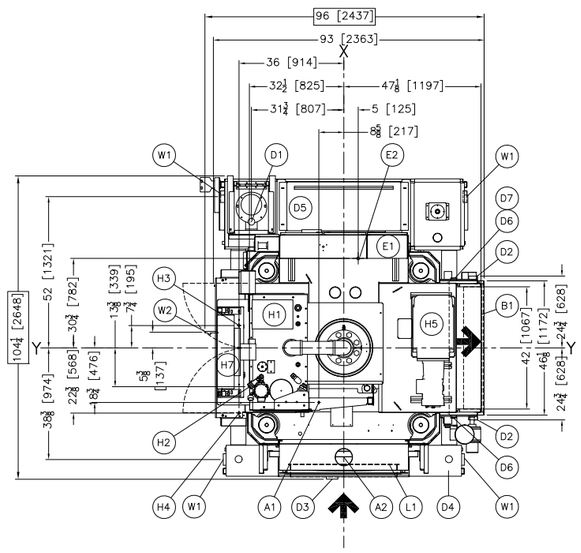
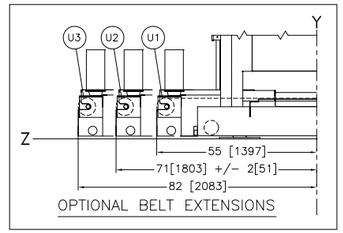


REAR VIEW



PLAN VIEW



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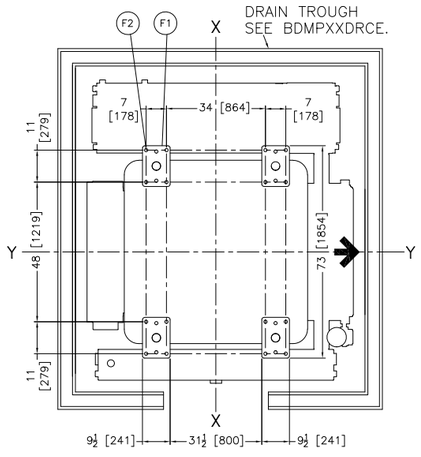

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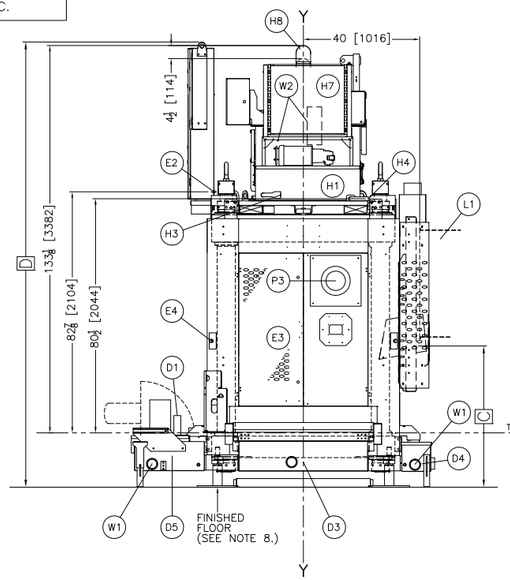

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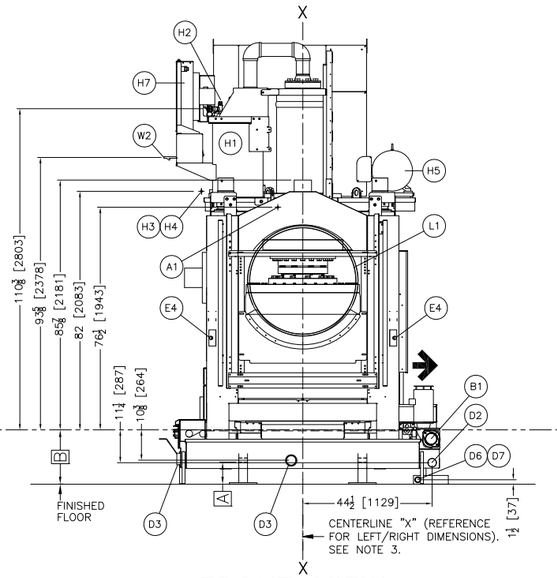

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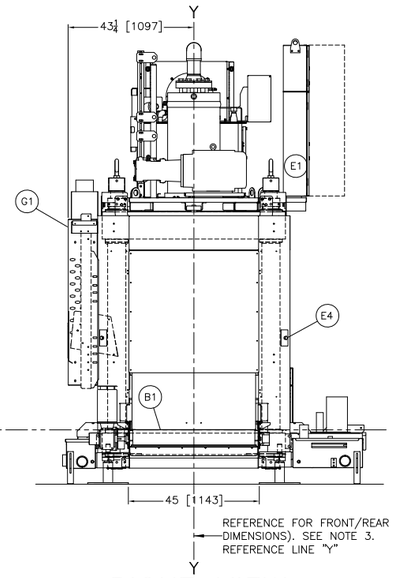

RIGHT VIEW

W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
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MPL640R

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1640RTHE
2025185D

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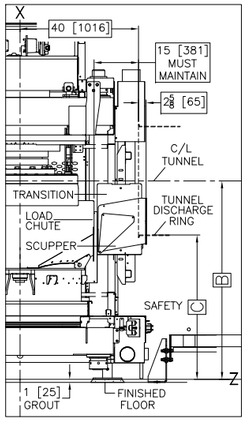
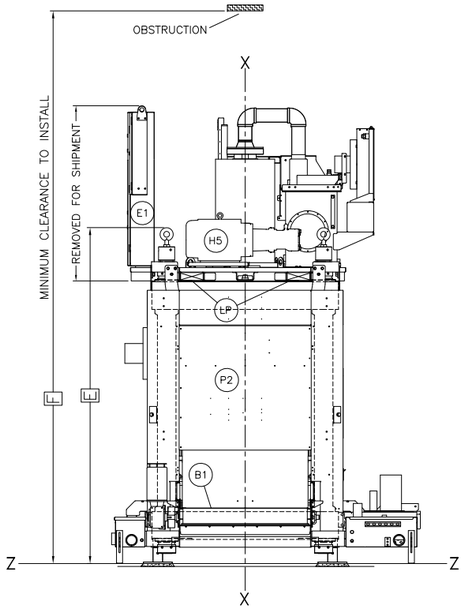
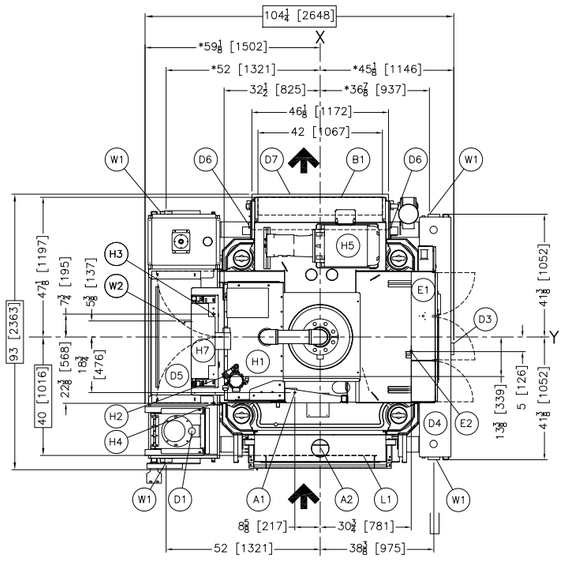
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)



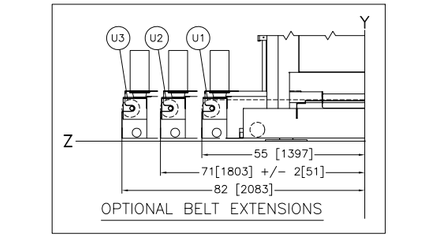
INSTALLATION DETAIL



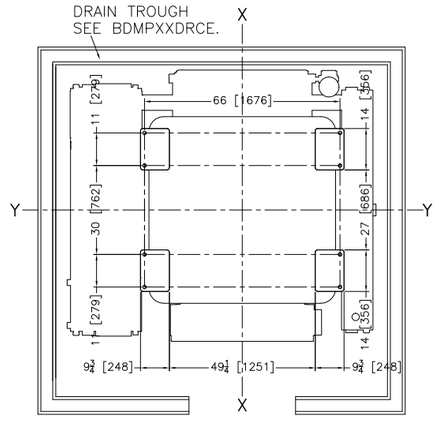
REAR VIEW



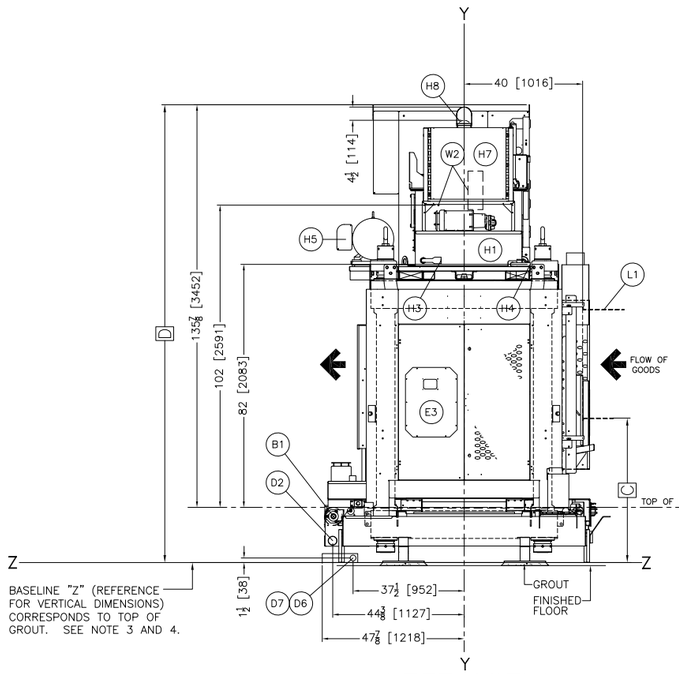
PLAN VIEW



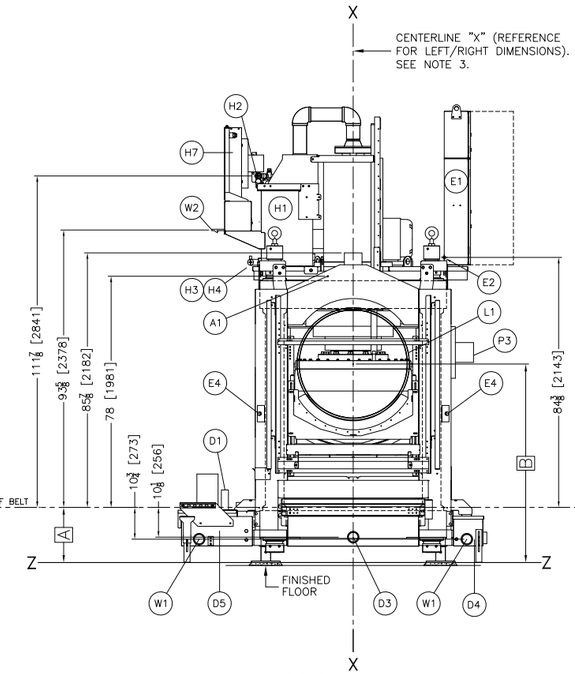
OPTIONAL BELT EXTENSIONS



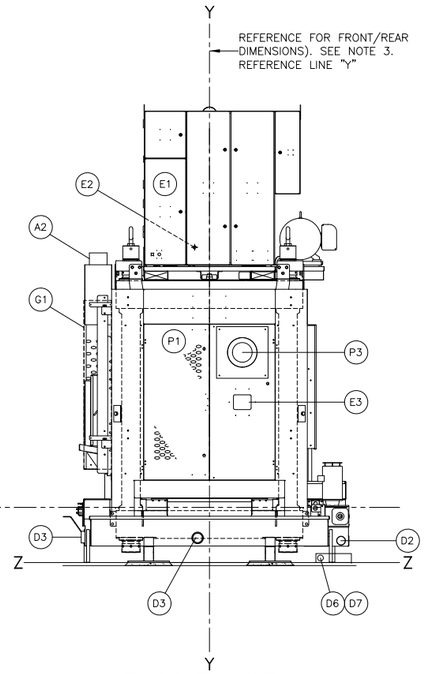
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" HOSE
	CONNECTION SUPPLIED BY PMC. USE THE CONNECTION ON
	RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 10.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE
	QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE
	QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	2" FNPT PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS,
	1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 10.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP DISCHARGE, 1-1/2"NPT, 24" TANK ONLY,
	PUMP TYPICALLY AWAY FROM DISCHARGE END (SHOWN).
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

10 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

9 ADJUST TO LEVEL THE MACHINE AND ALLOW FOR 1" [25] MINIMUM GROUT. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 -24" WIDE AND 1 - 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESIGN AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

MP1650CL,CR

DM 0 0.5M
INCHES 0 12 24

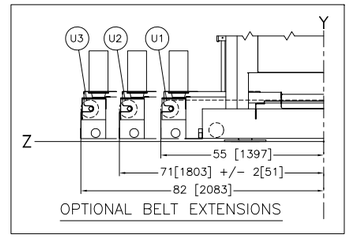
DWG# BDMP1650CLHE 2023446D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

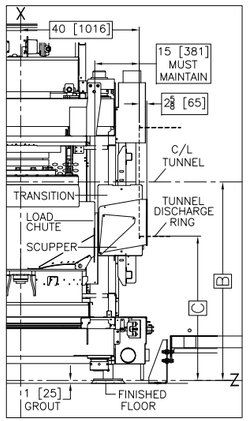
DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:												
	A		B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	16 1/8	409	64 1/2	1638	46 1/4	1175	152	3861	110 7/8	2816	184	4674
5–1/2" FOOT	18 5/8	473	67	1702	48 3/4	1238	154 1/2	3925	113 3/8	2880	186 1/2	4738

DRAWING FOR:
MP1650L WITH 15 CUBIC FOOT CAN.
CAN HEIGHT 21.05"[535MM]

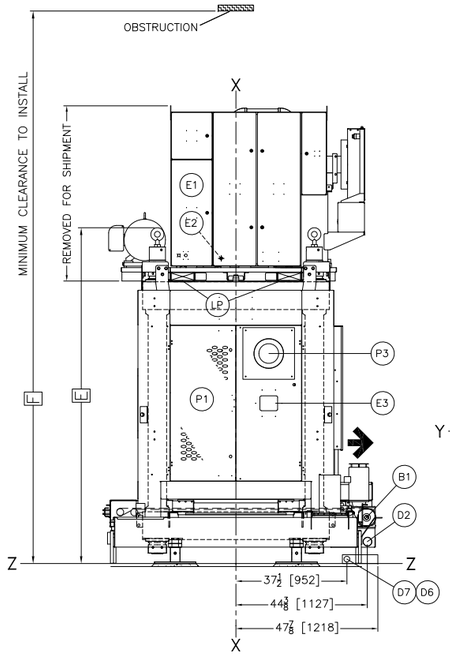
CAPACITY OF DRY LINEN	110–150LB/50–68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)



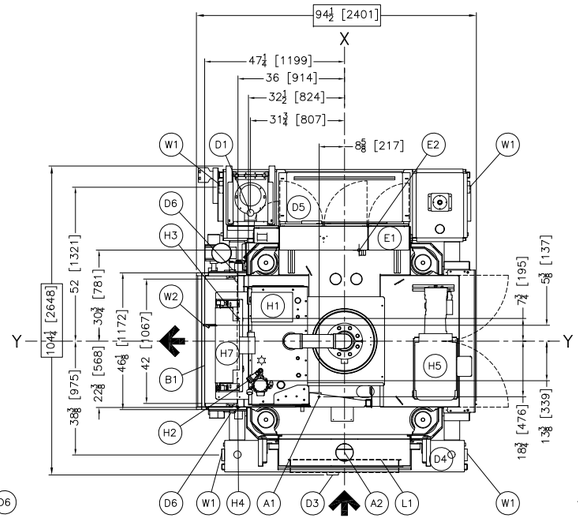
OPTIONAL BELT EXTENSIONS



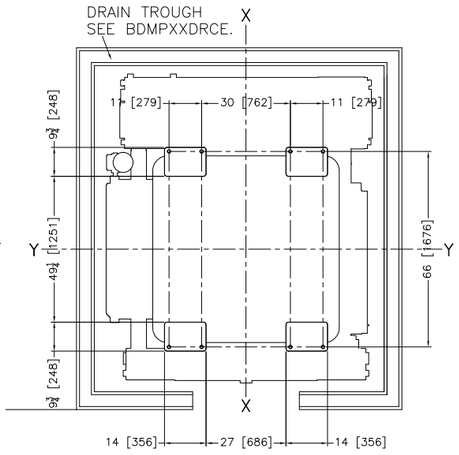
INSTALLATION DETAIL



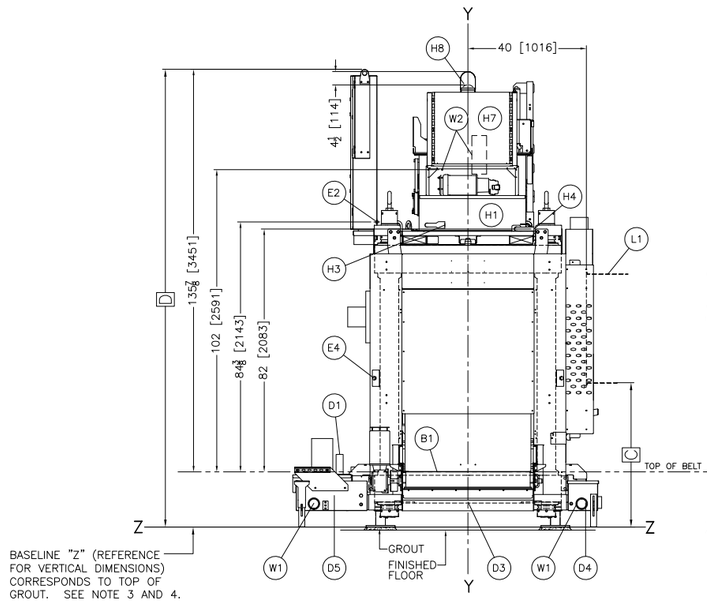
REAR VIEW



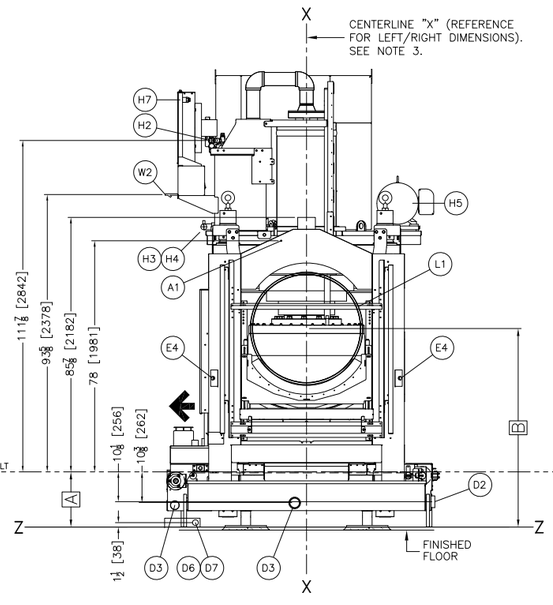
PLAN VIEW



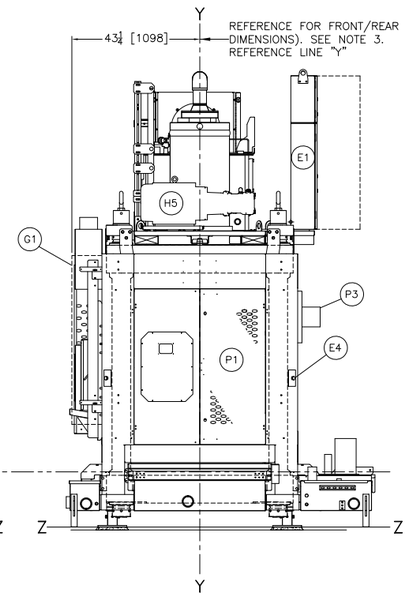
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE CONNECTION SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
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P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 10.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
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H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	2" FNPT PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 1–1/2"NPT, 24" TANK ONLY, PUMP TYPICALLY AWAY FROM DISCHARGE END (SHOWN).
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

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9 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

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7 ELECTRICS ARE LOCATED ON THE REAR.

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MP1650L

DM 0 0.5M
INCHES 0 12 24
DWG# BDMP1650LFHE 2023446D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:												
	A		B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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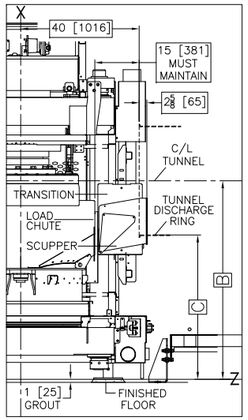
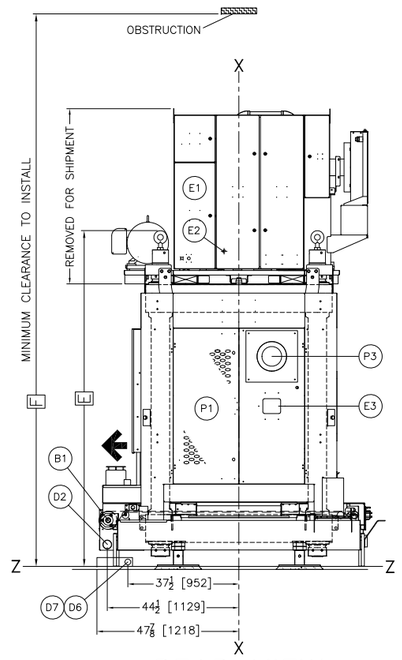
DRAWING FOR:
MP1650R WITH 15 CUBIC FOOT CAN.
CAN HEIGHT 21.05"[535MM]

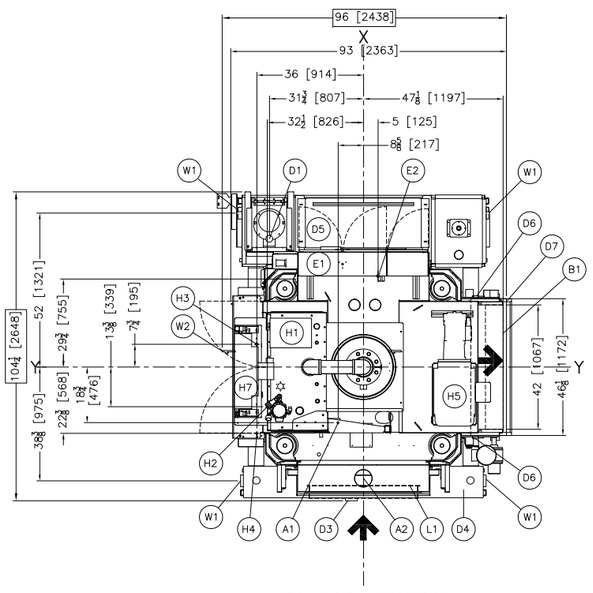
CAPACITY OF DRY LINEN	110-150LB/50-68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)



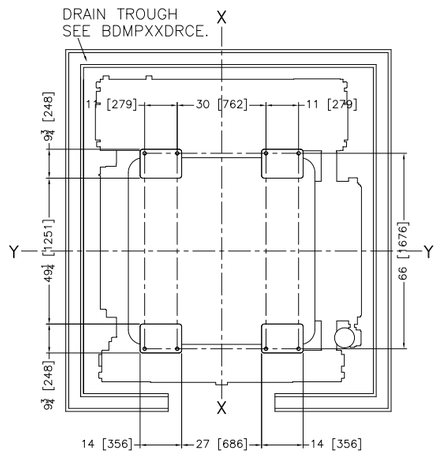
INSTALLATION DETAIL



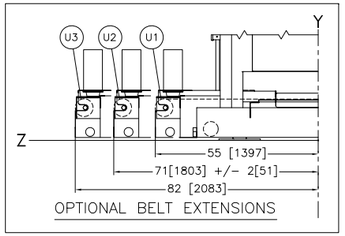
REAR VIEW



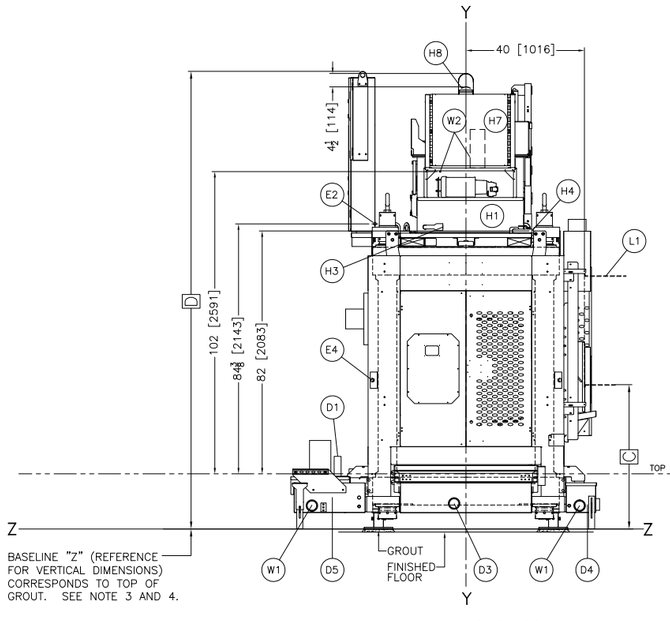
PLAN VIEW



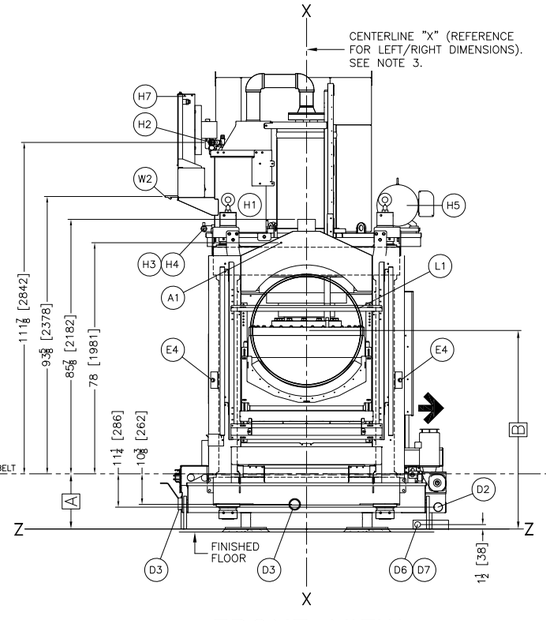
FOUNDATION PLAN VIEW



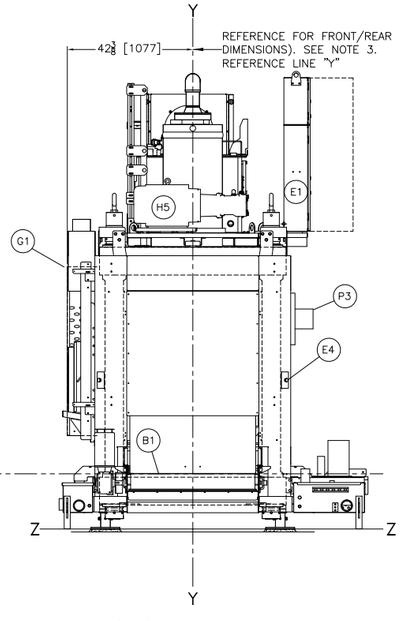
OPTIONAL BELT EXTENSIONS



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" HOSE CONNECTION SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
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P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
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H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	2" FNPT PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 1-1/2"NPT, 24" TANK ONLY, PUMP TYPICALLY AWAY FROM DISCHARGE END (SHOWN).
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

10 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

9 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

8 ADJUST TO LEVEL THE MACHINE AND ALLOW FOR 1" [25] MINIMUM GROUT. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

7 ELECTRICS ARE LOCATED ON THE REAR.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESIGN AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

MP1650R

DM 0 0.5M
INCHES 0 12 24

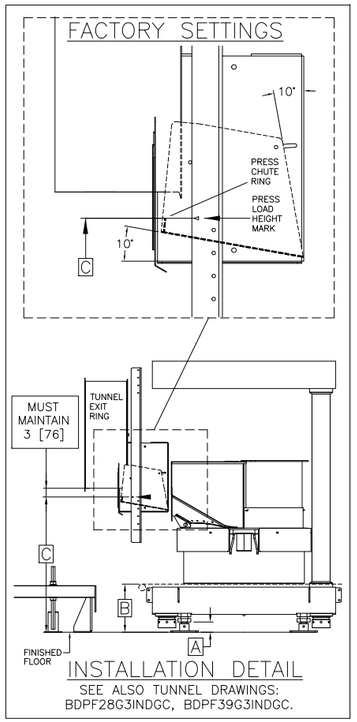
DWG# BDMP1650RTHE 2023446D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:											
A	B		C		D		E		F		
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	
3" FOOT	16 5/8	422	46 1/2	1181	152 1/2	3774	111 3/8	2829	184 1/2	4686	
5–1/2" FOOT	18 5/8	473	48 1/2	1232	154 1/2	3925	113 3/8	2880	186 1/2	4737	
7–1/2" FOOT	20 5/8	524	50 1/2	1283	156 1/2	3975	115 3/8	2930	188 1/2	4788	

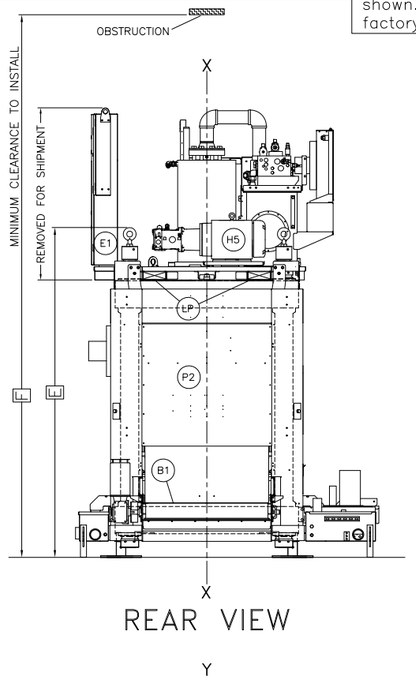
Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15–1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

DRAWING FOR: MP1656CR,CL WITH 15 CUBIC FOOT CAN. CAN HEIGHT 21.05"[535MM]	
CAPACITY OF DRY LINEN	110–150LB/50–68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)

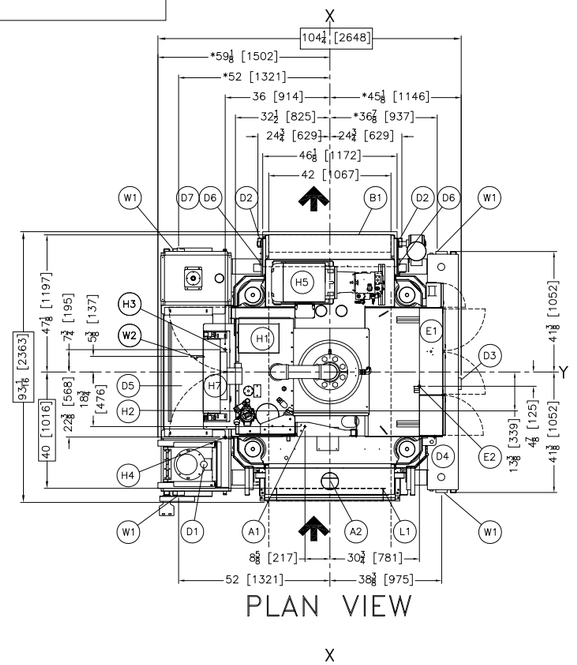


INSTALLATION DETAIL

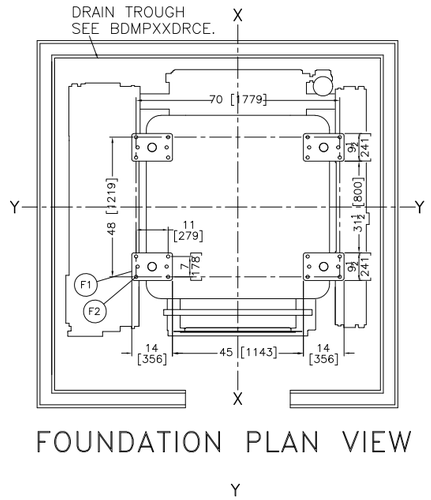
SEE ALSO TUNNEL DRAWINGS: BDPF28G3INDGC, BDPF39G3INDGC.



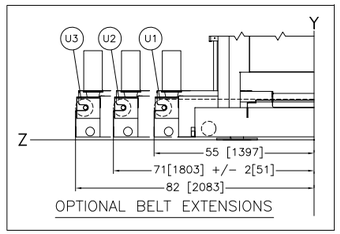
REAR VIEW



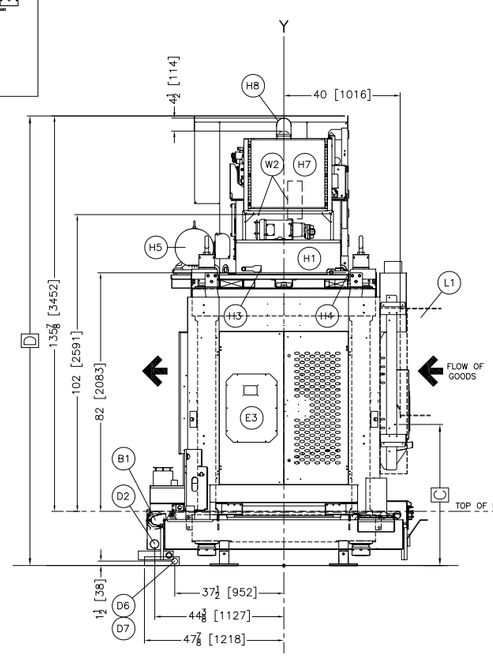
PLAN VIEW



FOUNDATION PLAN VIEW



OPTIONAL BELT EXTENSIONS



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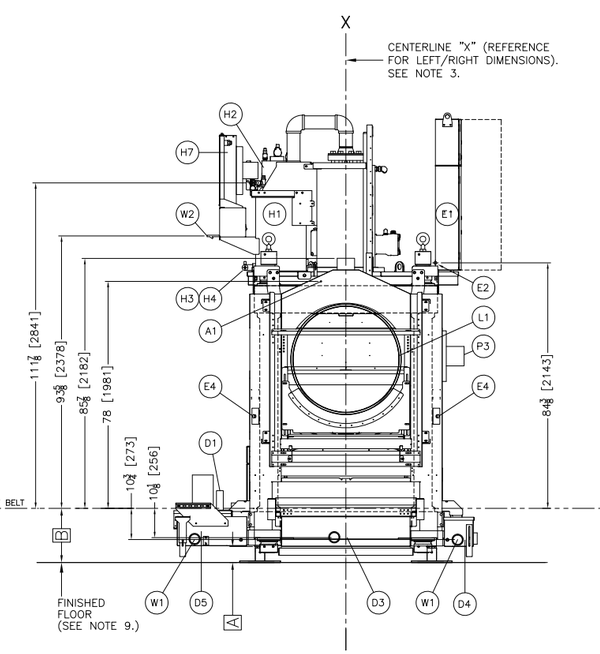
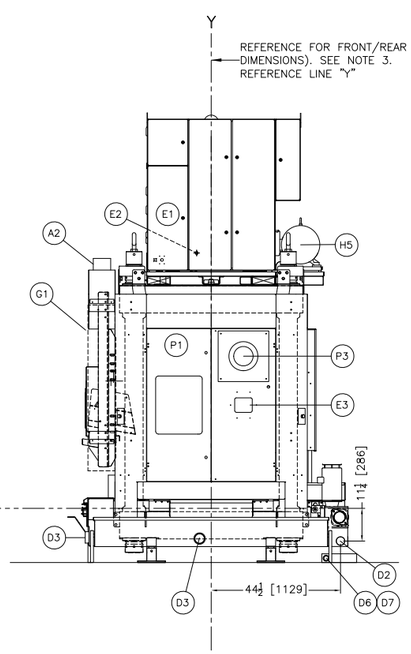


FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
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D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1–1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
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NOTES

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9 ADJUST TO LEVEL THE MACHINE AND GROUT, IF REQUIRED. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 –24" WIDE AND 1 – 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

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MPL656CL,CR

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1656CLHE 2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591, FAX 504/468–3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:											
A	B		C		D		E		F		
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	
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DIAMETER OF CAKE	39 3/8"[1000MM]
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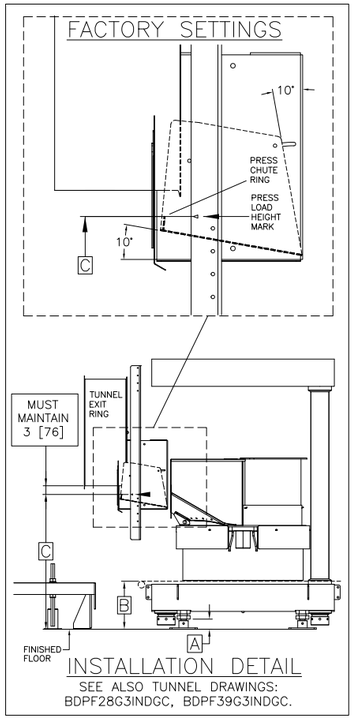
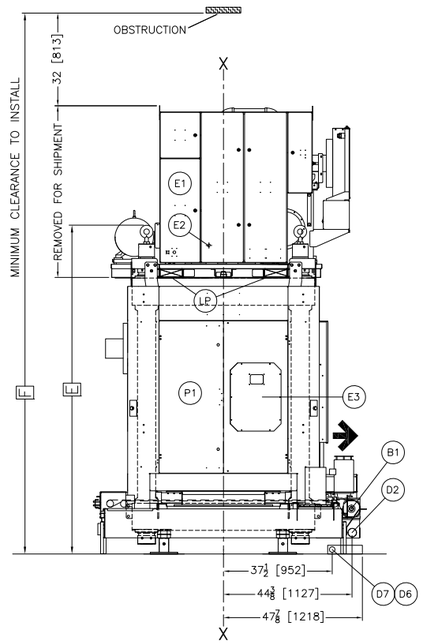
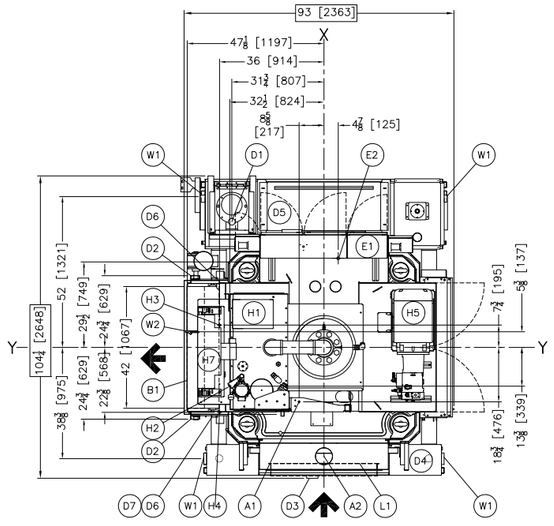


INSTALLATION DETAIL

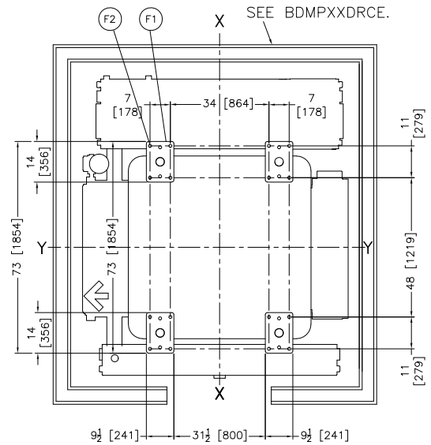
SEE ALSO TUNNEL DRAWINGS: BDPF28G3INDGC, BDPF39G3INDGC.



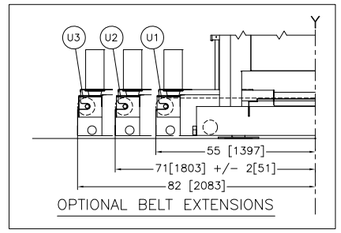
REAR VIEW



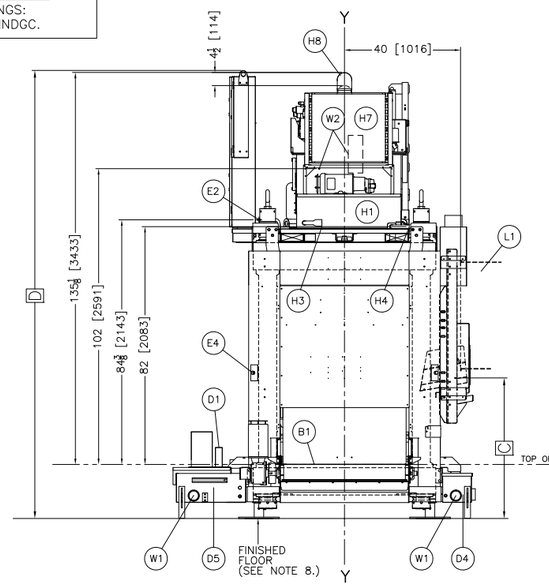
PLAN VIEW



FOUNDATION PLAN VIEW



OPTIONAL BELT EXTENSIONS



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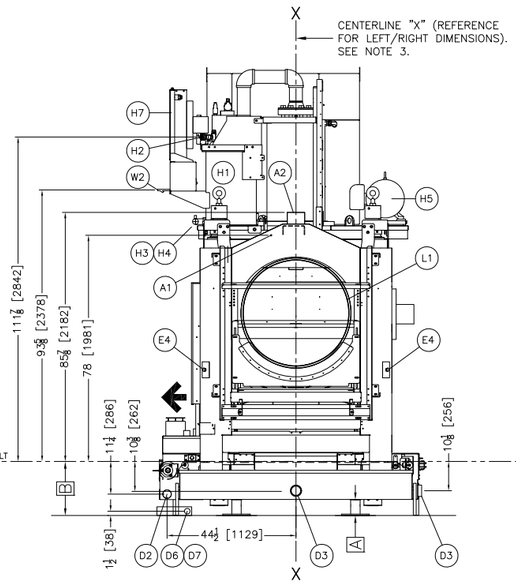
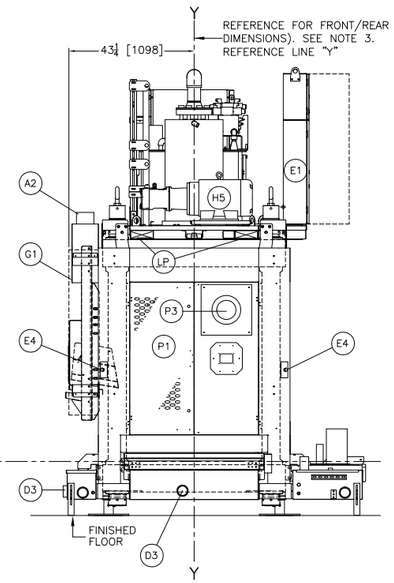


FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE
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H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
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B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
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NOTES

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ATTENTION

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

MPL656L

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1656LFHE 20251850

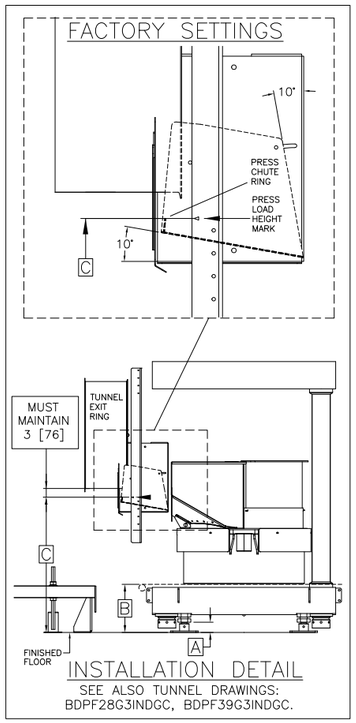
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591, FAX 504/468-3094, Email: milnorinfo@milnor.com

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:										
A	B		C		D		E		F	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3-1/2" FOOT	16 5/8	422	46 1/2	1181	152 1/2	3774	111 3/8	2829	184 1/2	4686
5-1/2" FOOT	18 5/8	473	48 1/2	1232	154 1/2	3925	113 3/8	2880	186 1/2	4737
7-1/2" FOOT	20 5/8	524	50 1/2	1283	156 1/2	3975	115 3/8	2930	188 1/2	4788

Note: Press Feet are available in standard heights (shown in table) and custom heights, available in 1" inch increments, to 15-1/2" inches tall. Please add additional custom height to table dimensions shown. Consult Milnor factory.

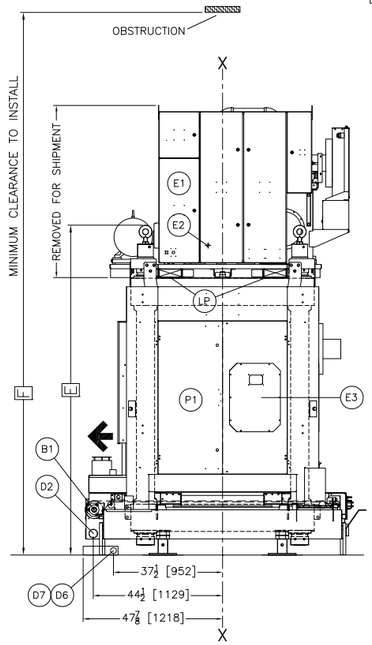
DRAWING FOR:
MP1650R WITH 15 CUBIC FOOT CAN.
CAN HEIGHT 21.05"[535MM]

CAPACITY OF DRY LINEN	110-150LB/50-68KG
DIAMETER OF CAKE	39 3/8"[1000MM]
MAXIMUM PRESSURE	812 PSI (56 BAR)

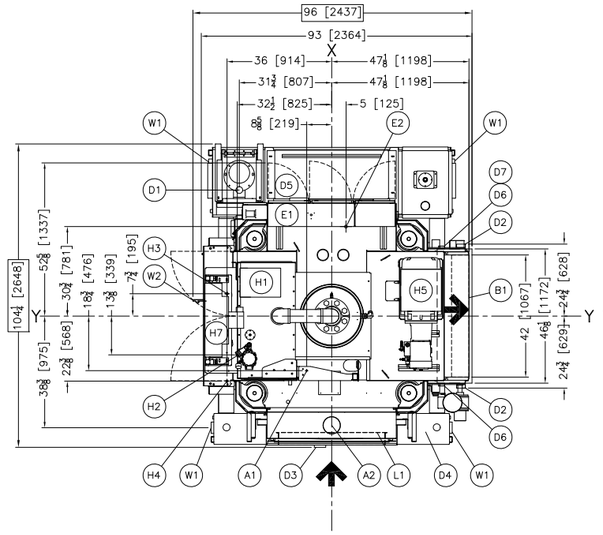


INSTALLATION DETAIL

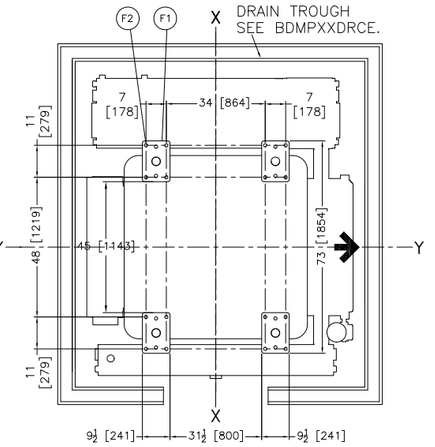
SEE ALSO TUNNEL DRAWINGS:
BDPF28G3INDGC, BDPF39G3INDGC.



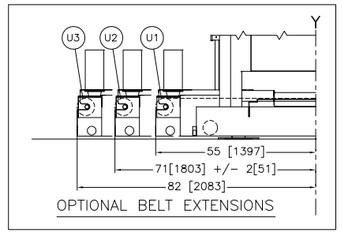
REAR VIEW



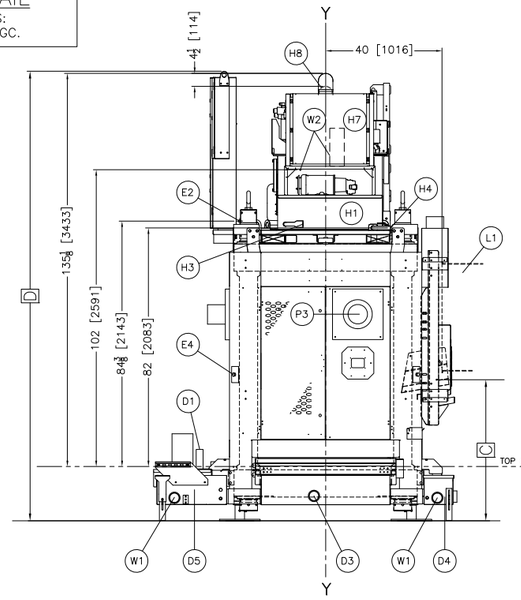
PLAN VIEW



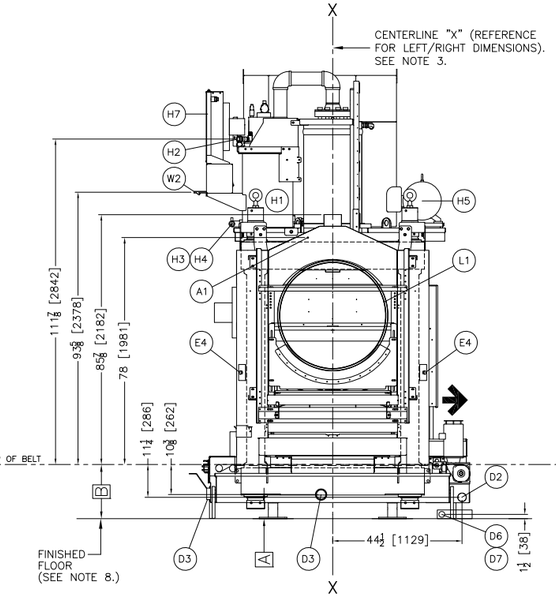
FOUNDATION PLAN VIEW



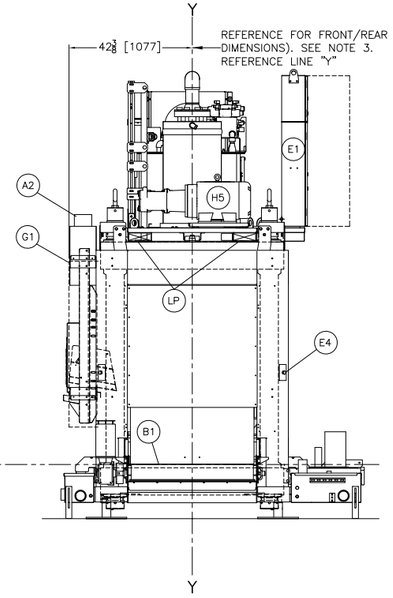
OPTIONAL BELT EXTENSIONS



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
U1	OPTIONAL 8"[203] CONVEYOR EXTENSION [DISCHARGE END].
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

10 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT), SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

9 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

8 ADJUST TO LEVEL THE MACHINE AND GROUT, IF REQUIRED. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

7 ELECTRICS ARE LOCATED ON THE REAR.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS A GROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)
48 [1219] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE SAME FOR ALL MILNOR MACHINES AND IS SHOWN ON ALL DIMENSIONAL DRAWINGS. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR MAY VARY (WITH CHANGES IN FLOOR HEIGHT) AS REQUIRED TO INSURE THAT BASELINE "Z" IS HORIZONTAL AND ALL COMPONENTS REQUIRING GROUT ARE SET ON A MINIMUM 1" [25] THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESIGN AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

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MPL656R

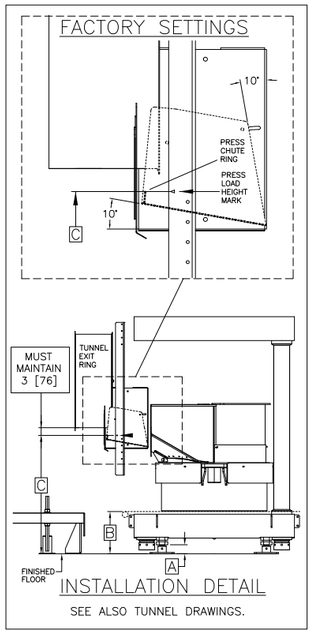
DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1656RTHE
2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

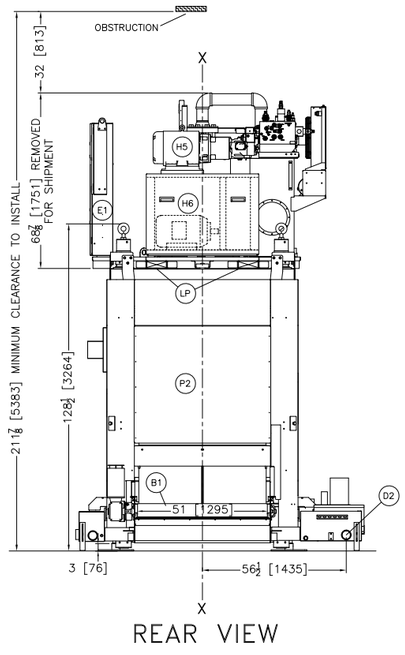
INSTALLATION DIMENSIONS						
A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	18 5/8	473	55 3/4	1416	179 7/8	4569

CAPACITY OF DRY LINEN	260LB/118 KG
DIAMETER OF CAKE	48 [1219]
MP1A50 MAXIMUM PRESSURE	725 PSI (50 BAR)

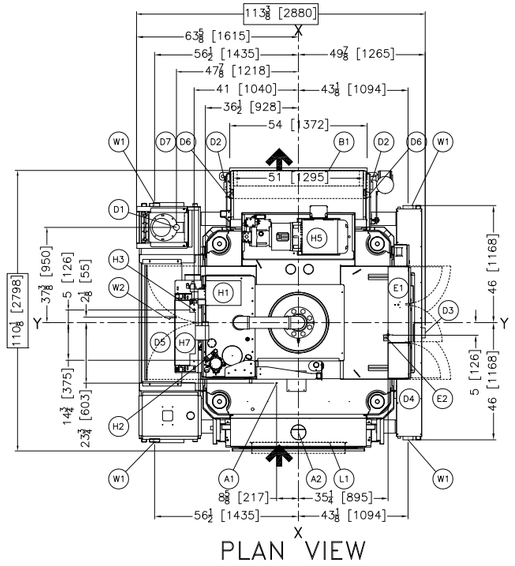


INSTALLATION DETAIL

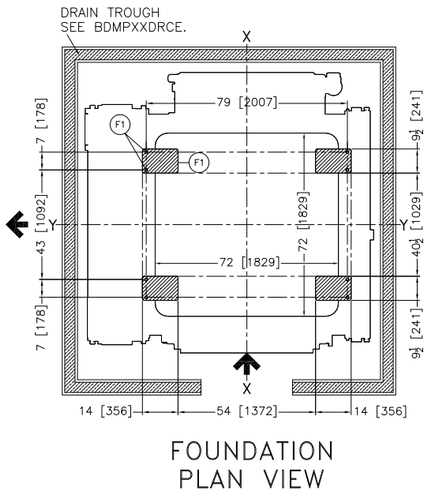
SEE ALSO TUNNEL DRAWINGS.



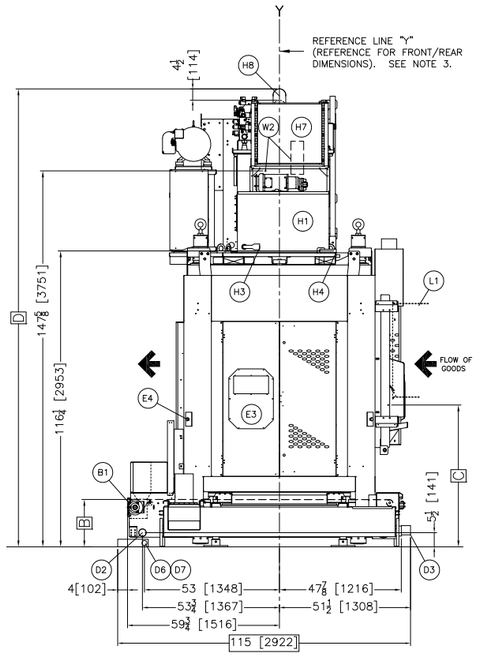
REAR VIEW



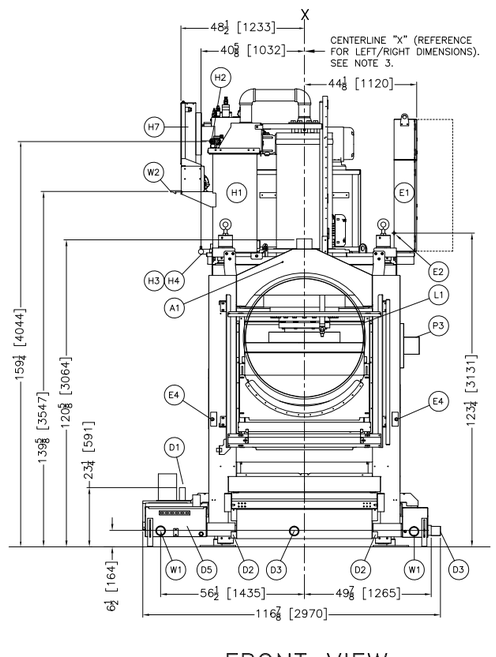
PLAN VIEW



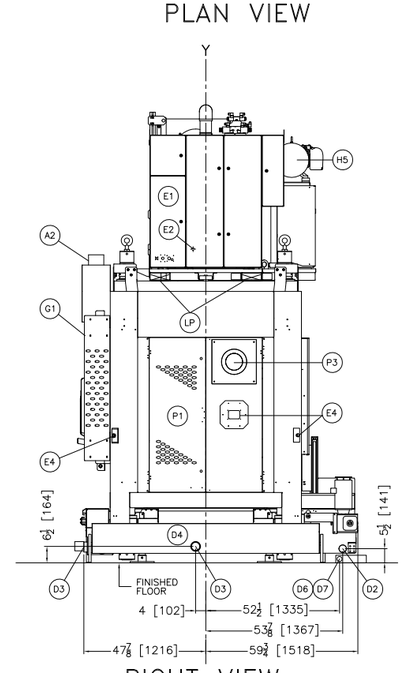
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" O.D. HOSE
	SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE
	TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H6	BOOSTER PUMP
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE
	QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE
	QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN,
	2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY
	AWAY FROM DISCHARGE END) 1–1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
	DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

11 HYDRAULIC TANK, PUMP, AND COOLING UNIT ARE SKIDDED AND SHIPPED AS A UNIT. USE A FORK LIFT TO LIFT THE UNIT OVER THE FRAME'S LIFTING EYES (HIGHEST POINT). SEE DIMENSION "F" FOR MINIMUM HEIGHT REQUIRED FOR INSTALLATION.

10 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

9 ADJUST TO LEVEL THE MACHINE AND ALLOW FOR 1" [25] MINIMUM GROUT. ANCHOR WITH ONE ANCHOR BOLT PER PAD, MINIMUM. USE 5/8" X 6" BOLTS, MINIMUM. SEE INSTALLATION MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

8 THE PRESS USES 1 –24" WIDE AND 1 – 10" WIDE REUSE TANK. (*) THE 24" WIDE TANK MAY BE SPECIFIED ON THE LEFT OR THE RIGHT.

7 ELECTRICS ARE LOCATED ON THE RIGHT SIDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
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5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

4 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BASE PAD. ON MACHINES WITH ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM RAIL. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" IS HORIZONTAL AND ANY INTERFACING MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT BED.

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MP1A50CL/CR

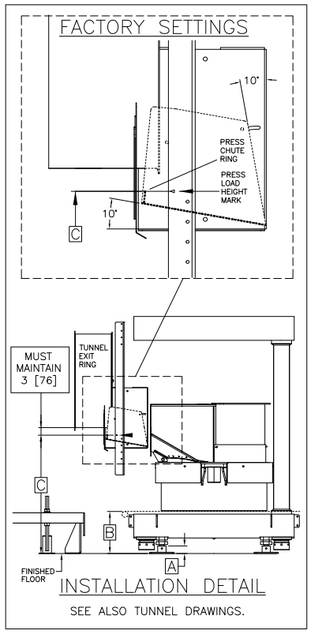
DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1A50CLHE 2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA. Phone 504/467–9591,
FAX 504/468–3094, Email: milnorinfo@milnor.com

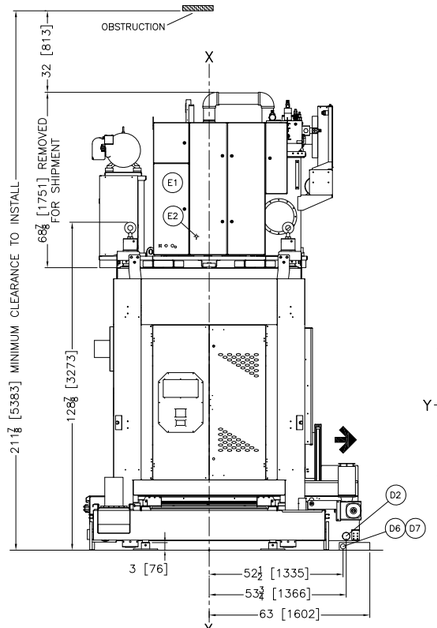
INSTALLATION DIMENSIONS						
A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	18 5/8	473	55 3/4	1416	179 7/8	4569

CAPACITY OF DRY LINEN	260LB/118 KG
DIAMETER OF CAKE	48 [1219]
MP1A50 MAXIMUM PRESSURE	725 PSI (50 BAR)

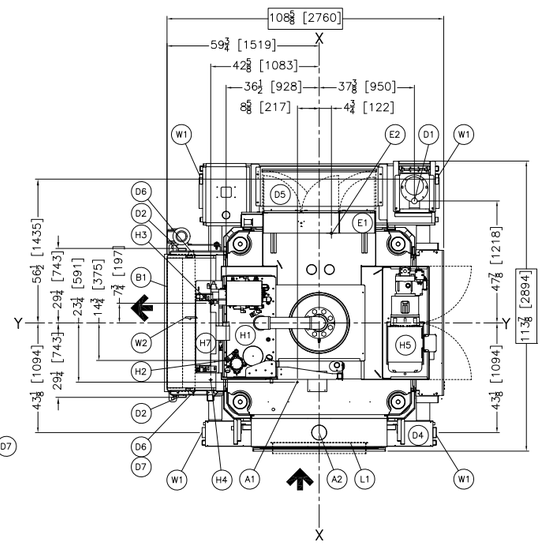


INSTALLATION DETAIL

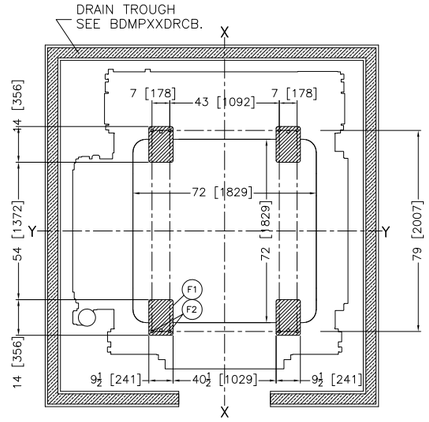
SEE ALSO TUNNEL DRAWINGS.



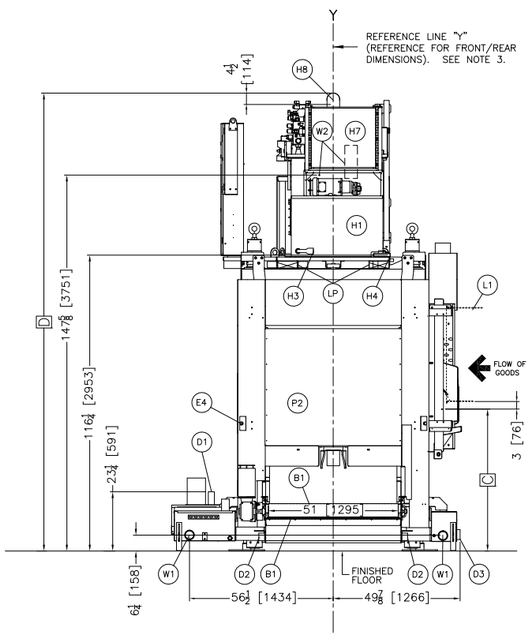
REAR VIEW



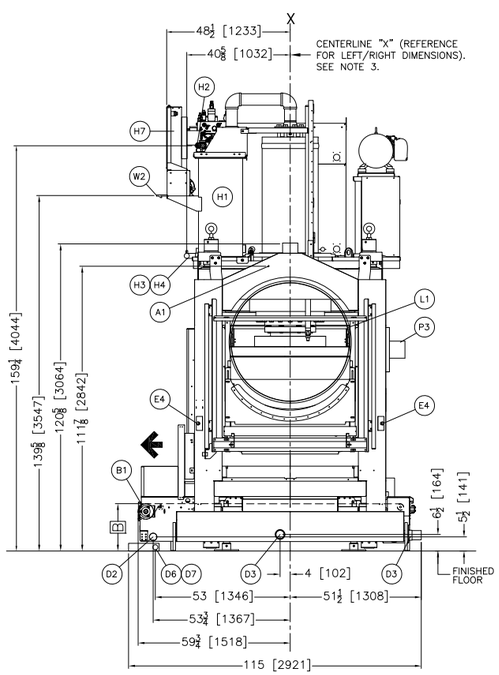
PLAN VIEW



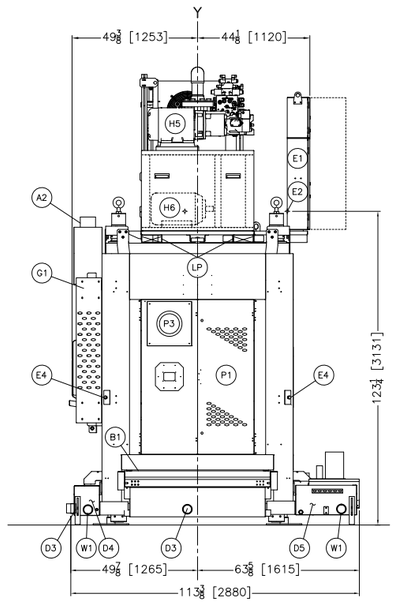
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" O.D. HOSE
	SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE
	TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H6	BOOSTER PUMP
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE
	QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE
	QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
	PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN,
	2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY
	AWAY FROM DISCHARGE END) 1–1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
	DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

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MP1A50L

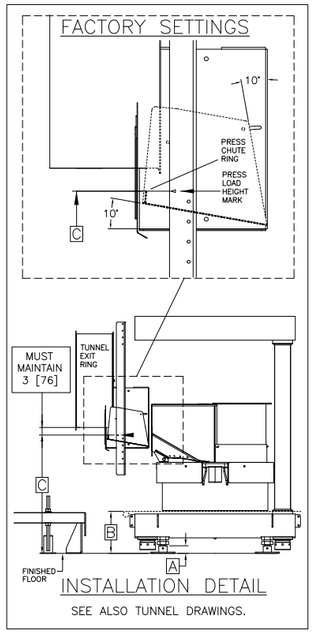
DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1A50LFHE 20251850

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/468–3094, Email: milnorinfo@milnor.com

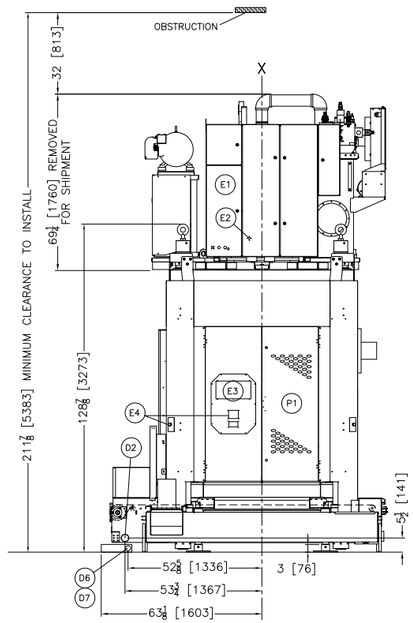
INSTALLATION DIMENSIONS						
A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	18 5/8	473	55 3/4	1416	179 7/8	4569

CAPACITY OF DRY LINEN	260LB/118 KG
DIAMETER OF CAKE	48 [1219]
MP1A50 MAXIMUM PRESSURE	725 PSI (50 BAR)

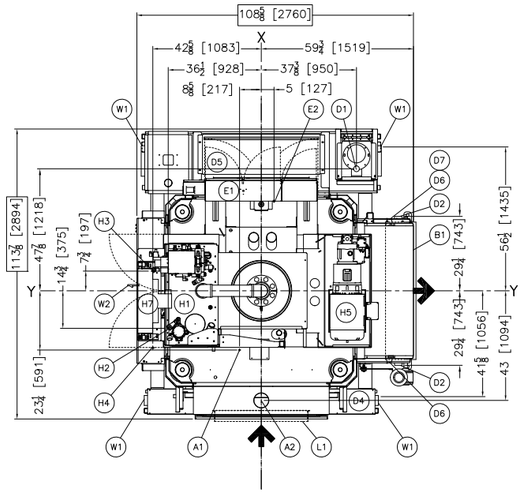


INSTALLATION DETAIL

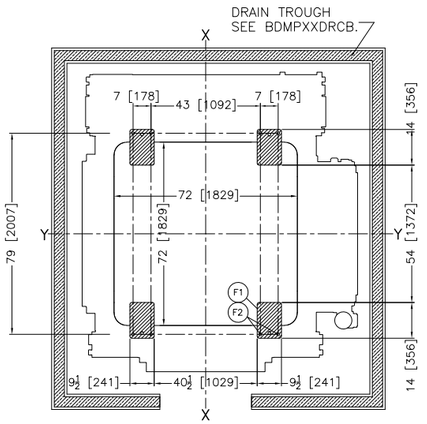
SEE ALSO TUNNEL DRAWINGS.



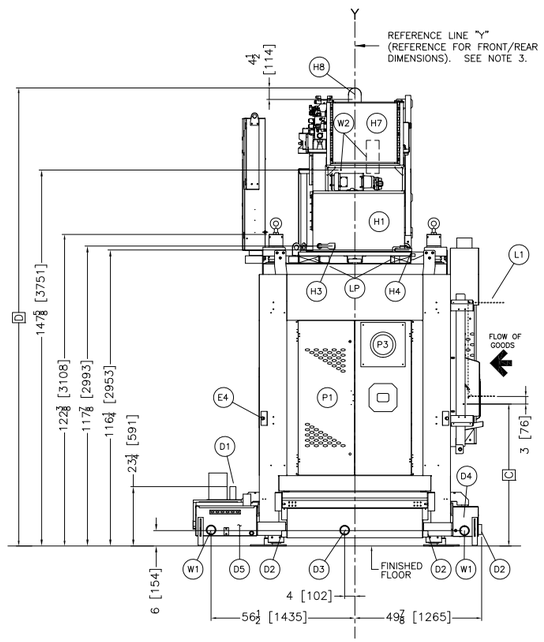
REAR VIEW



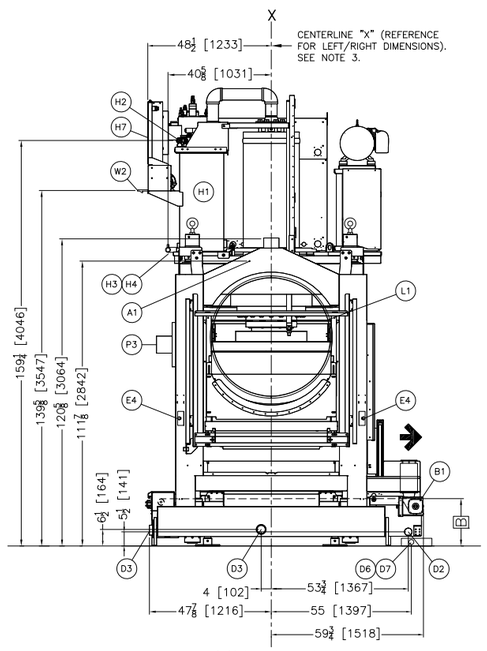
PLAN VIEW



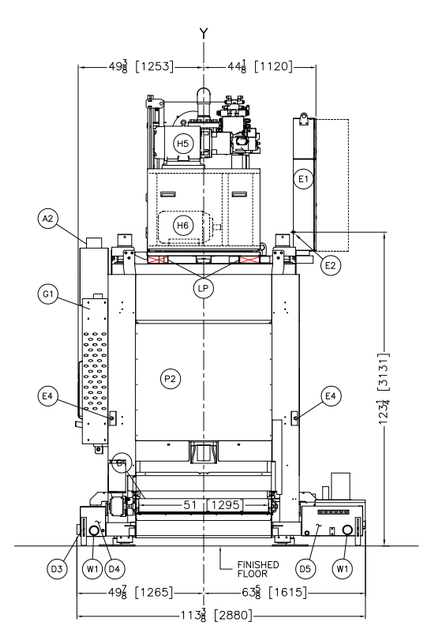
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT
	CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" O.D. HOSE
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A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT
	DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

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MP1A50R

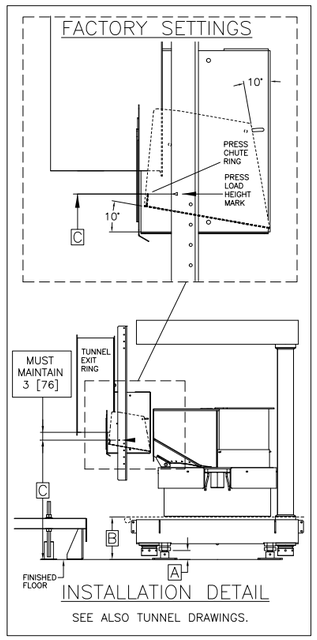
DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1A50RTHE 2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/468–3094, Email: milnorinfo@milnor.com

INSTALLATION DIMENSIONS						
A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	18 1/8	459	55 3/8	1406	211 5/8	5376

CAPACITY OF DRY LINEN	260LB/118 KG
DIAMETER OF CAKE	52 [1321]
MP1A50 MAXIMUM PRESSURE	812 PSI (56 BAR)



INSTALLATION DETAIL

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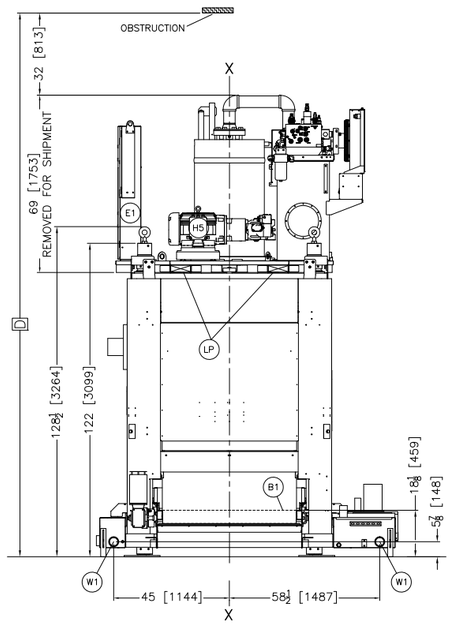

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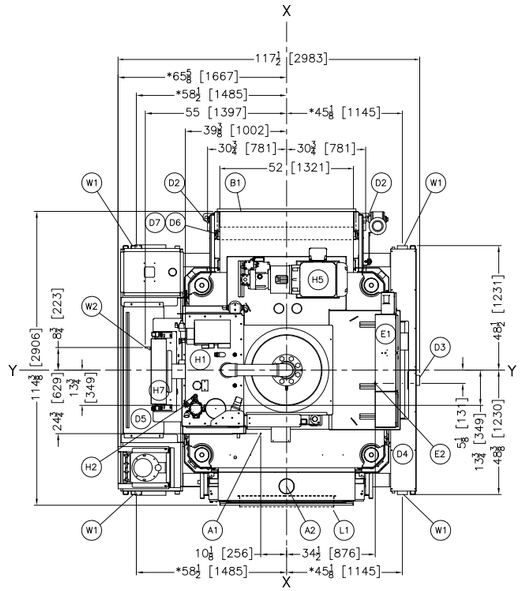
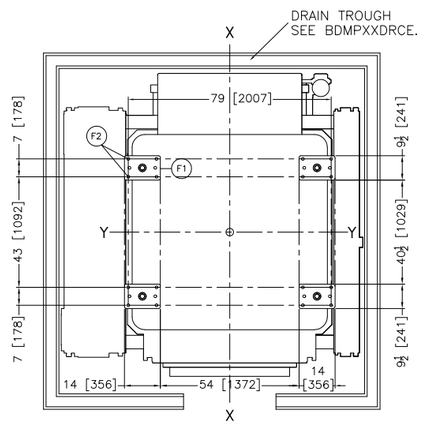


PLAN VIEW



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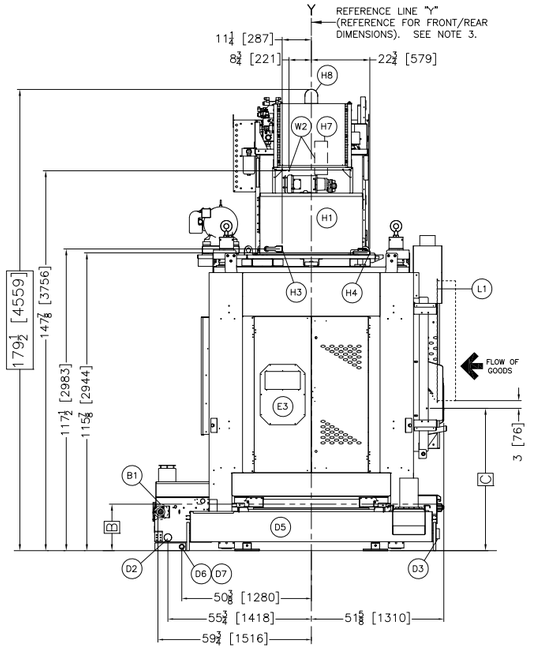

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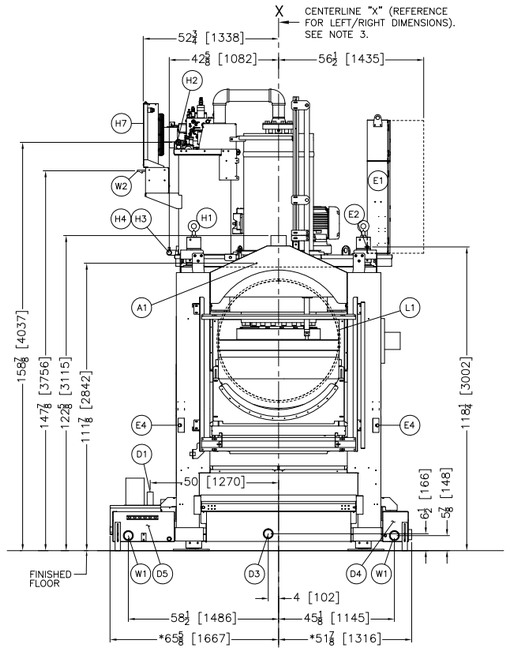

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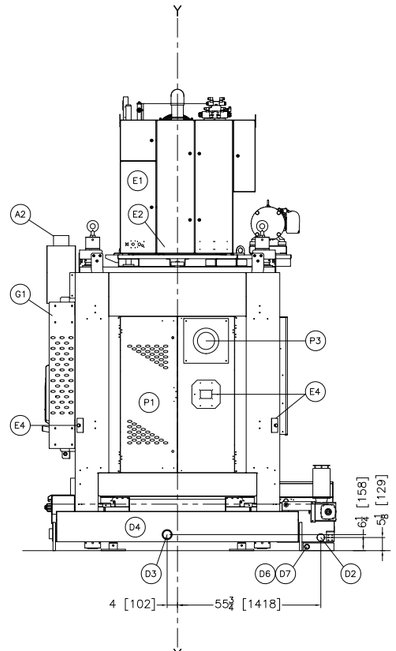

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ITEM	LEGEND
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MP1A56CL/CR

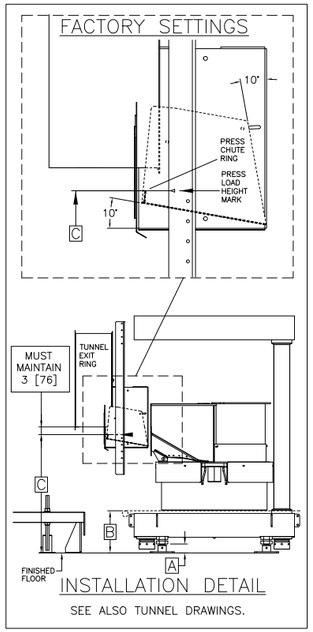
DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1A56CLEE
2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

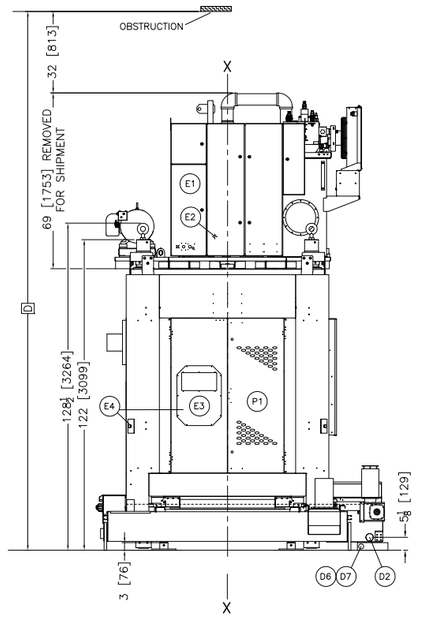
INSTALLATION DIMENSIONS						
A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	18 1/8	459	55 3/8	1406	211 5/8	5376

CAPACITY OF DRY LINEN	260LB/118 KG
DIAMETER OF CAKE	52 [1321]
MP1A50 MAXIMUM PRESSURE	812 PSI (56 BAR)

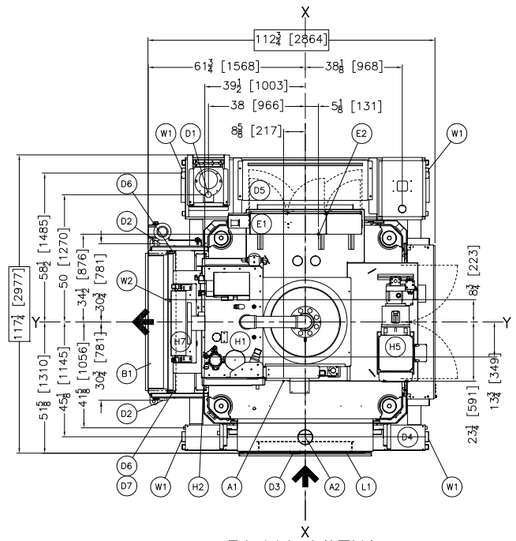


INSTALLATION DETAIL

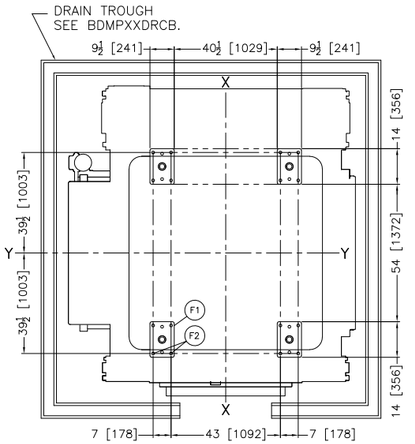
SEE ALSO TUNNEL DRAWINGS.



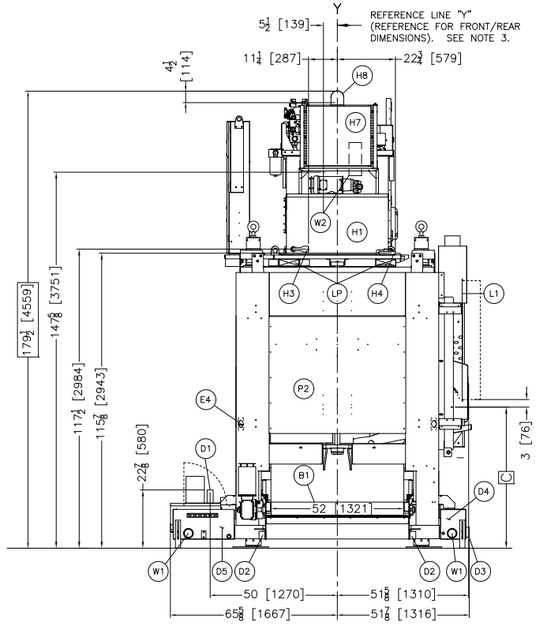
REAR VIEW



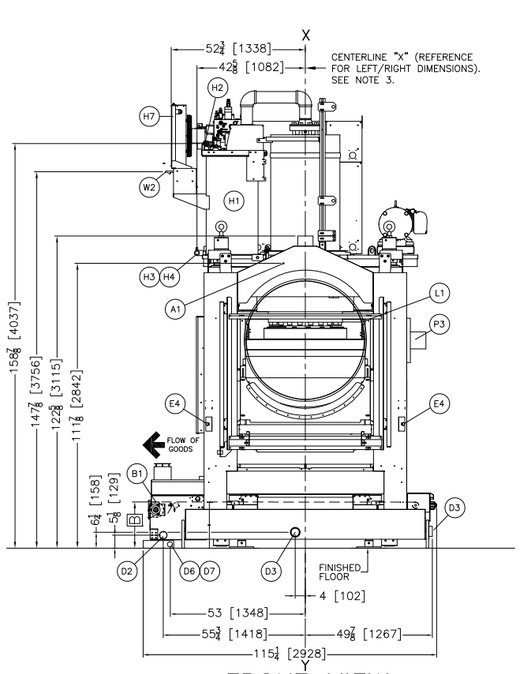
PLAN VIEW



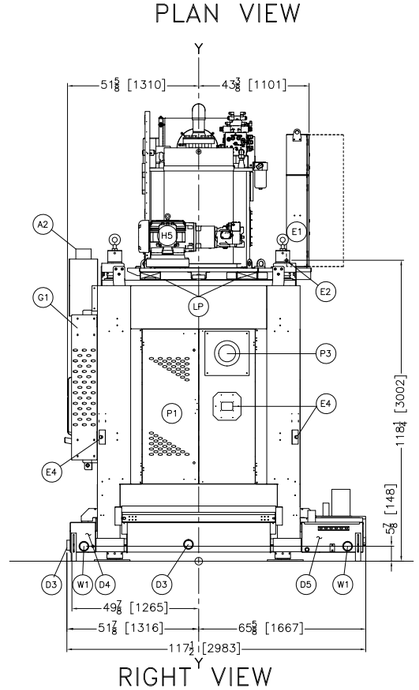
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
W2	WATER INLET FOR OPTIONAL WATER COOLED, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" O.D. HOSE SUPPLIED BY PMC. USE THE CONNECTION ON RIGHT SIDE TANK NEAREST THE TUNNEL, 4 SITES PROVIDED.
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
LP	SKID LIFTING POINT, 3 PLACES. SEE NOTE 11.
L1	TUNNEL DISCHARGE RING
H8	OPTIONAL LOWER PREFILL PIPE
H7	HYDRAULIC COOLING UNIT
H5	HYDRAULIC PUMP MOTOR
H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
H3	HYDRAULIC TANK MANUAL FILL, UNFILTERED, 3/4" FEMALE QUICK CONNECT
H2	HYDRAULIC TANK MANUAL FILL, FILTERED, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK
G1	LOAD CHUTE SAFETY GUARD
F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM 5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
F1	FOOTPAD, TYPICAL 4 PLACES.
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX PER SPECIFICATIONS
E1	ELECTRICAL CONTROL BOXES
D7	DRIP PAN
D6	DRIP PAN DRAIN (IF EQUIPPED), 2" FNPT, PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS, 1 PLUGGED
D5	24" WIDE REUSE TANK, SEE NOTE 8.
D4	10" WIDE REUSE TANK, SEE NOTE 8.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE, SEE NOTE 10.
D2	OVERFLOW CONNECTION, 3" PVC PIPE, CAPPED ONE SIDE.
D1	REUSE PUMP DISCHARGE, 24" TANK ONLY (PUMP IS TYPICALLY AWAY FROM DISCHARGE END) 1-1/2" HOSE SUPPLIED.
B1	DISCHARGE ROLLER
A2	VENT 6"[152] O.D. TUBE CONNECTION, SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" FNPT

NOTES

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MP1A56L

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1A56LFEE 2025185D

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A	B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm
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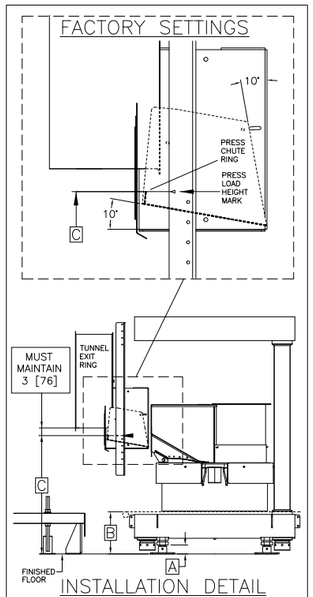

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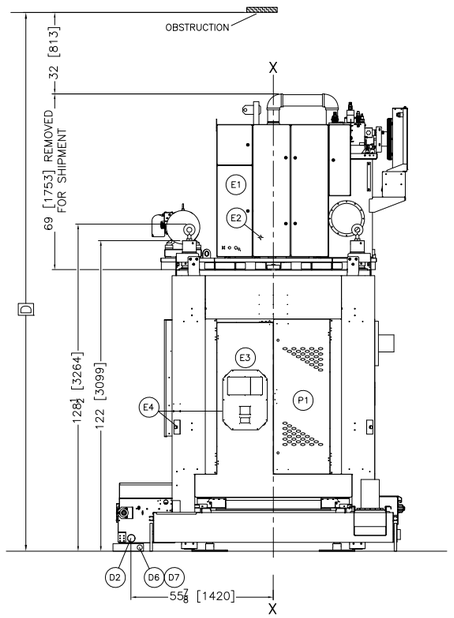
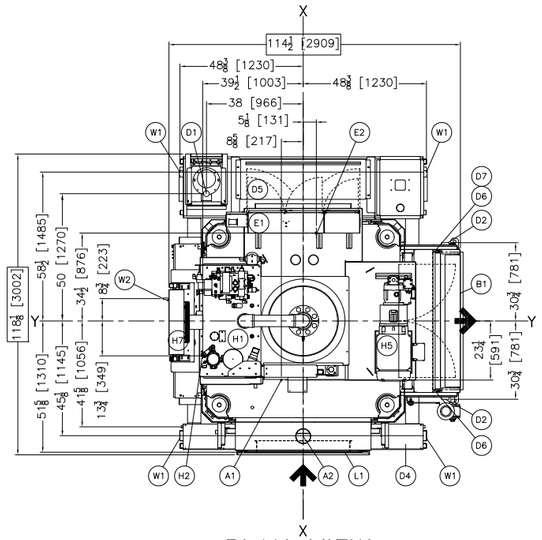
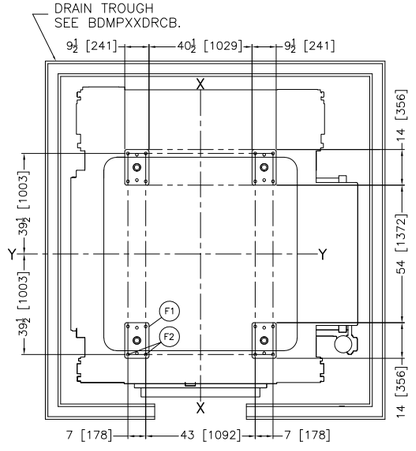


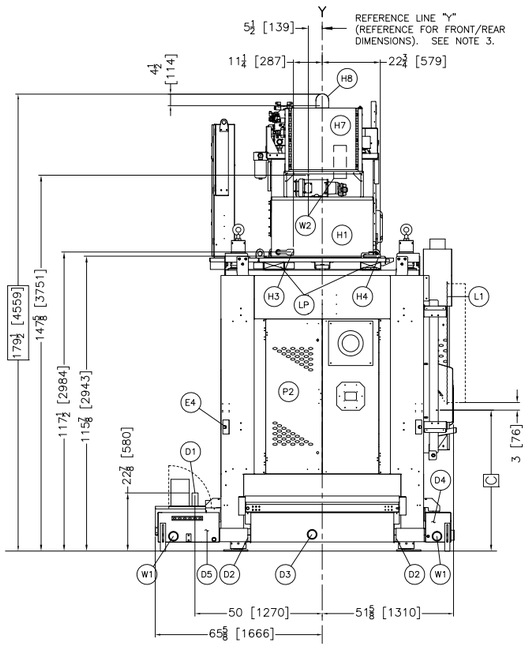
REAR VIEW



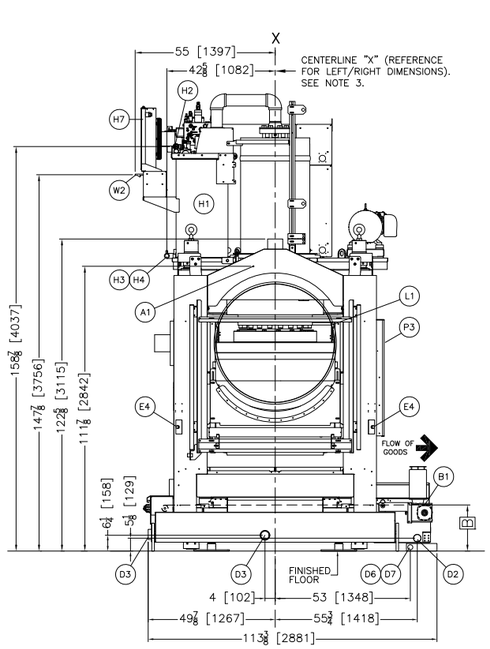
PLAN VIEW



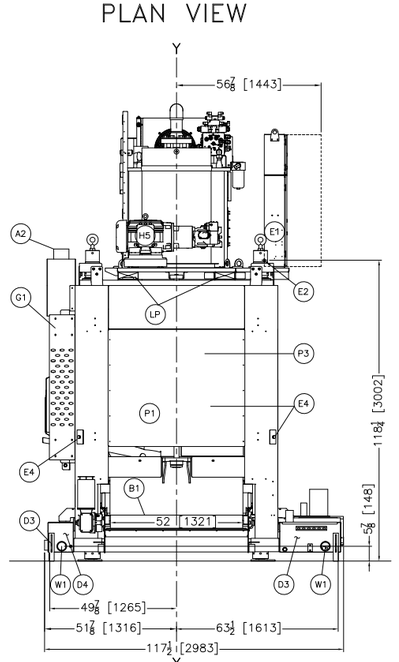
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
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	CONNECTION
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H8	OPTIONAL LOWER PREFILL PIPE
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H4	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
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E1	ELECTRICAL CONTROL BOXES
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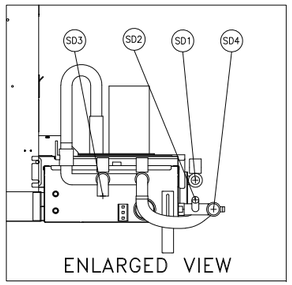
MP1A56R

DM 0 0.5M
INCHES 0 12 24

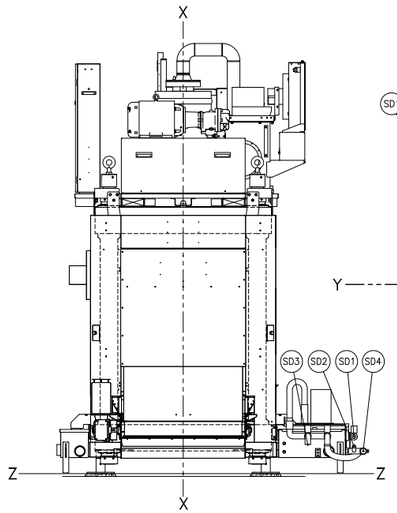
DWG# BDMP1A56RTAE
2025185D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com

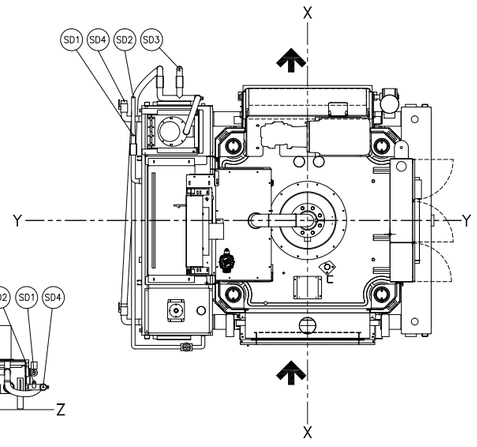
DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:		
	A	
	INCHES	mm
3" FOOT	16 1/8	410
5-1/2" FOOT	18 5/8	473



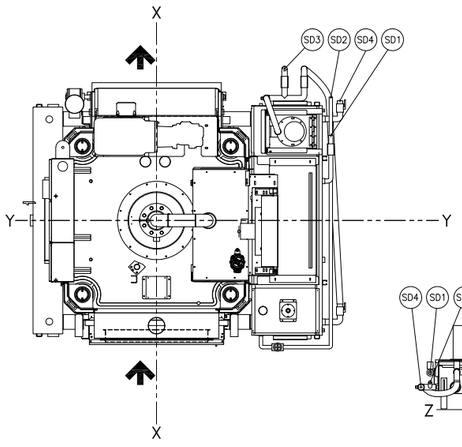
ENLARGED VIEW



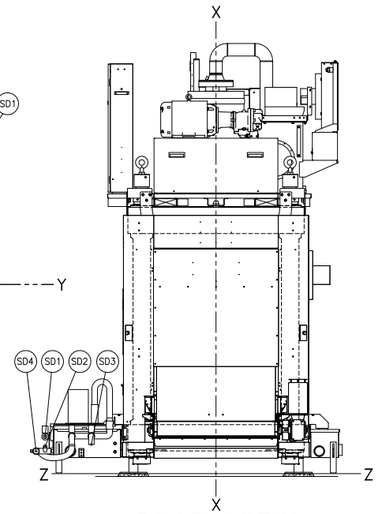
REAR VIEW
LARGE TANK LEFT



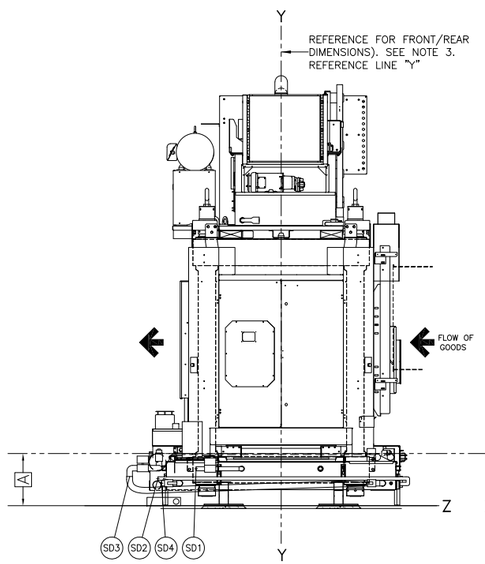
PLAN VIEW
LARGE TANK LEFT



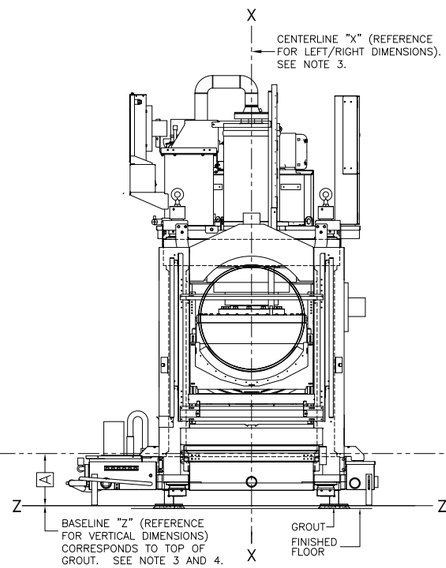
PLAN VIEW
LARGE TANK RIGHT



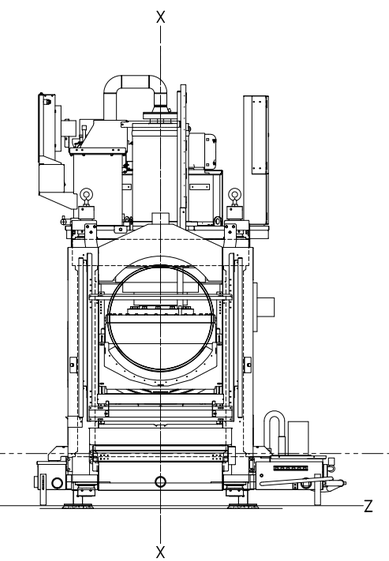
REAR VIEW
LARGE TANK RIGHT



LEFT VIEW
LARGE TANK LEFT



FRONT VIEW
LARGE TANK LEFT



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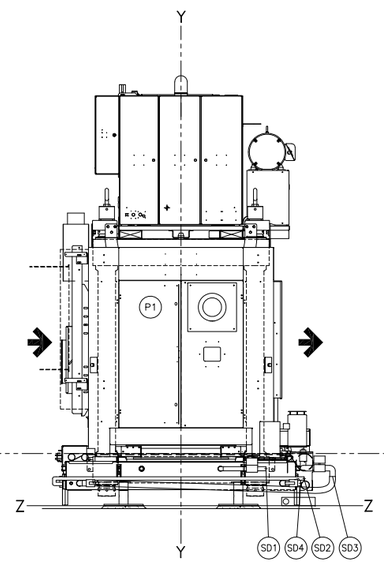

RIGHT VIEW
LARGE TANK RIGHT

THIS DRAWING SHOWS THE MP1656 OPTIONAL STEAM DISINFECTION.
THIS OPTIONAL REUSE TANK AND PIPING IS APPLICABLE TO ALL MP15_, MPL5_, MP16_, MPL6_ PRESS MODELS.
USE THIS DRAWING WITH THE MODEL'S STANDARD DRAWING.

ITEM	LEGEND
SD4	MANUAL DRAIN, 1-1/2" TOE HOSE CONNECTION
SD3	TO TUNNEL REUSE, 1-1/2" TOE HOSE CONNECTION
SD2	STEAM INLET, 3/4" NPT CONNECTION
SD1	REUSE TANK FILL WATER, 1-1/2" TOE HOSE CONNECTION

NOTES

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MP15,MPL5,MP16,MPL6 STEAM DISINFECTION

DM 0 0.5M
INCHES 0 12 24

DWG# BDMP1516SDGE
2023196D

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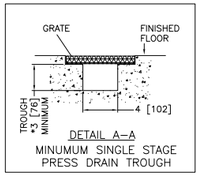
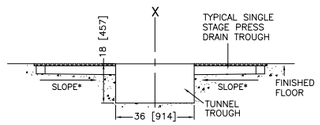
FAX 504/468-3094, Email: milnorinfo@milnor.com

PRESS MODELS	DIMENSION A							
	0 EXTENTION		8" EXTENTION		24" EXTENTION		35" EXTENTION	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
MP1540, MP1556	50	1270	58	1473	74	1880	85	2159
MP1640, MP1656	50	1270	58	1473	74	1880	85	2159
MP1A50, MP1A56	65 1/2	1664	–	–	–	–	–	–

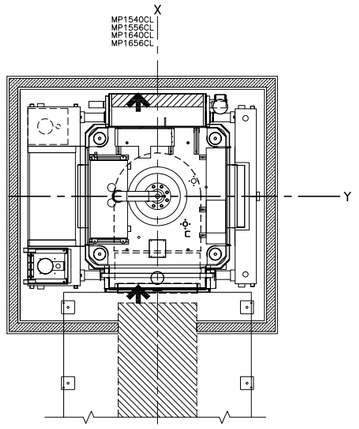


DETAIL A–A
MINUMUM SINGLE STAGE PRESS DRAIN TROUGH

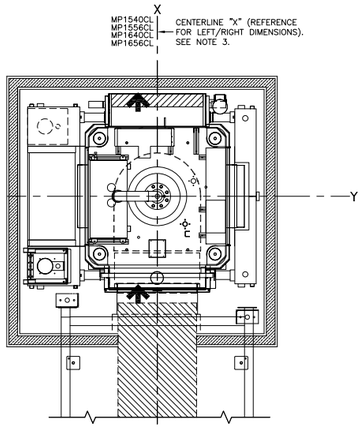


VIEW B–B:
SINGLE STAGE PRESS & TUNNEL DRAIN TROUGHS

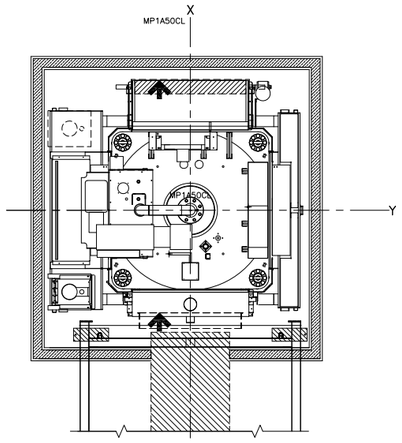
SLOPE*=1/8"/FT.[10mm/M]



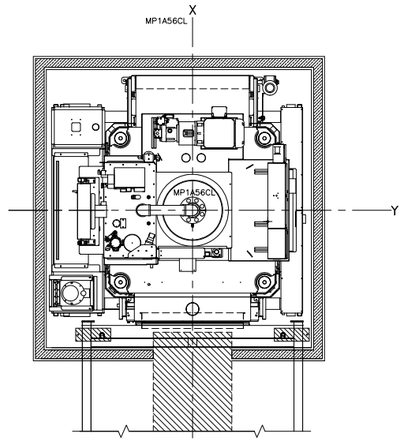
PLAN VIEW
G1 TUNNEL & CL PRESSES



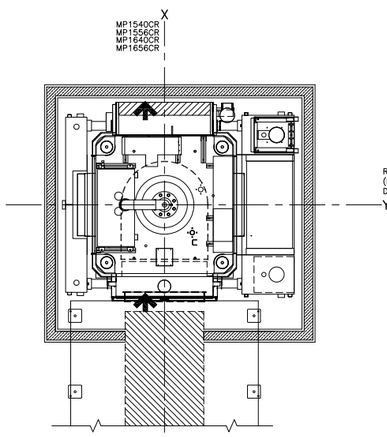
PLAN VIEW
G3 TUNNEL & CL PRESSES



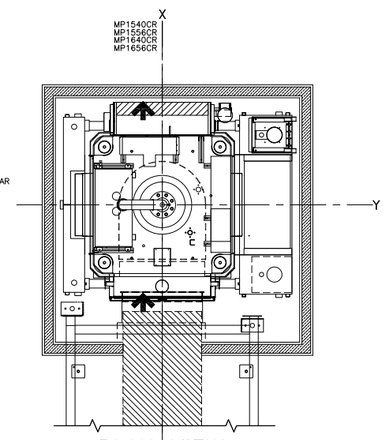
PLAN VIEW
G4 TUNNEL & CL PRESS



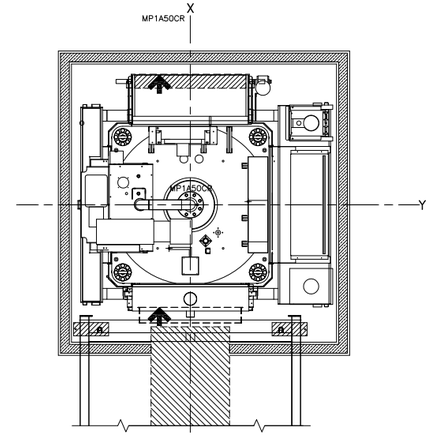
PLAN VIEW
G4 TUNNEL & CL PRESS



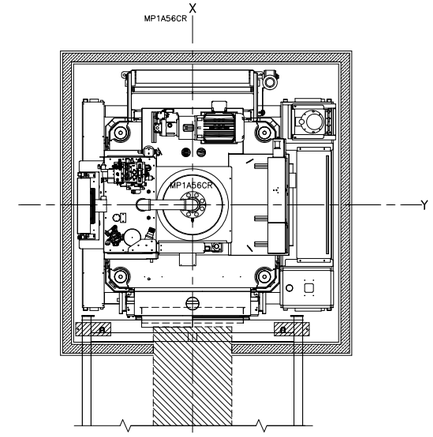
PLAN VIEW
G1 TUNNEL & CR PRESSES



PLAN VIEW
G3 TUNNEL & CR PRESSES



PLAN VIEW
G4 TUNNEL & CR PRESS



PLAN VIEW
G4 TUNNEL & CR PRESS

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SSPress Drain Troughs C Dischg

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMPXXDRCE
2025185D

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PRESS MODELS	DIMENSION A							
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	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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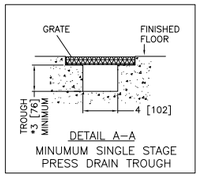
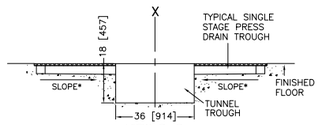
MP1A50, MP1A56	65 1/2	1664	–	–	–	–	–	–



DETAIL A–A
MINUMUM SINGLE STAGE PRESS DRAIN TROUGH



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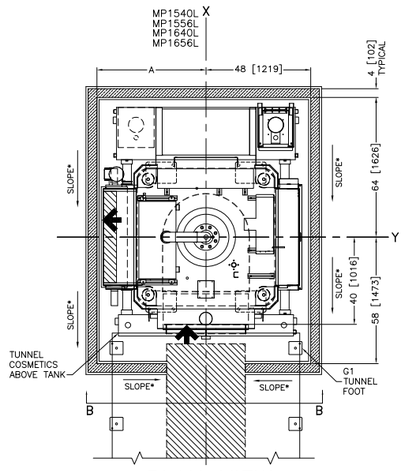
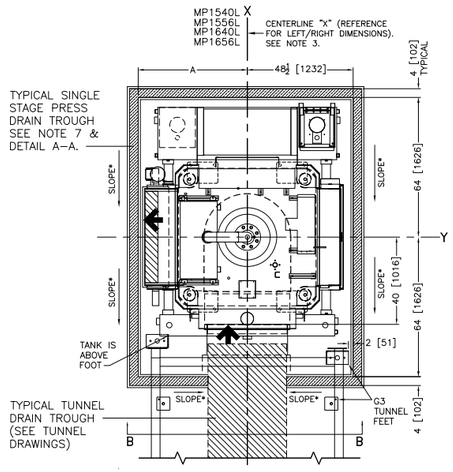
SINGLE STAGE PRESS & TUNNEL DRAIN TROUGHS

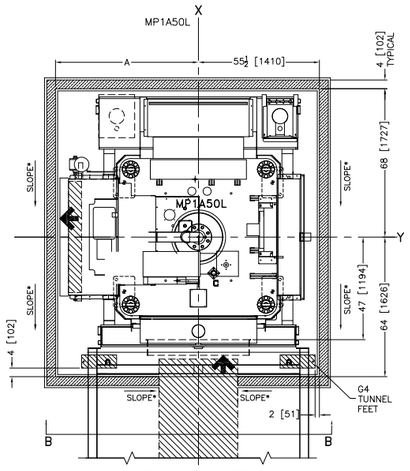
SLOPE*=1/8"/FT.[10mm/M]



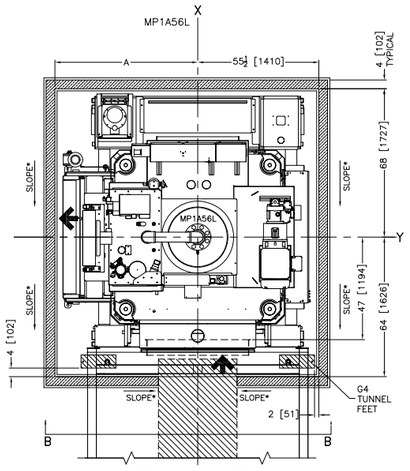
PLAN VIEW
G1 TUNNEL & LEFT DISCHARGE PRESSES



PLAN VIEW
G3 TUNNEL & LEFT DISCHARGE PRESSES



PLAN VIEW
G4 TUNNEL & LEFT DISCHARGE PRESS



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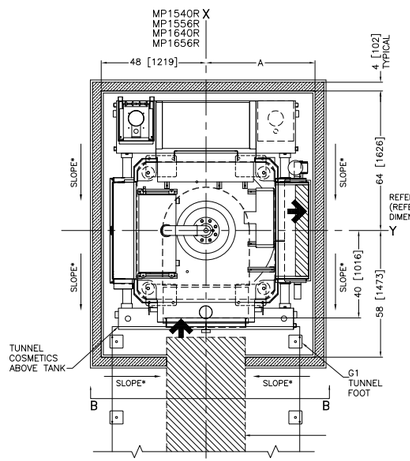
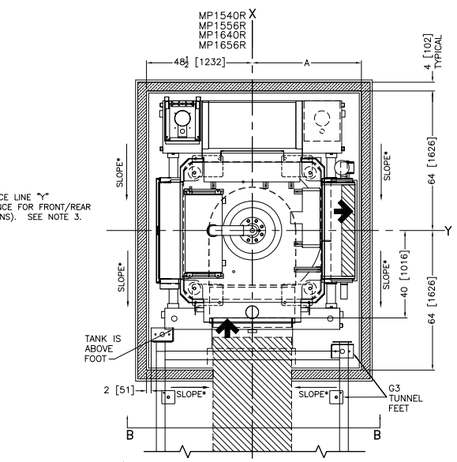
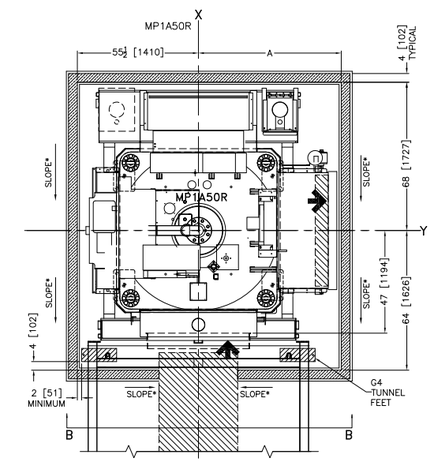


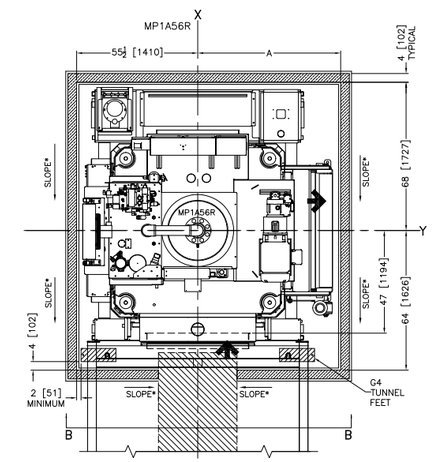
PLAN VIEW
G1 TUNNEL & RIGHT DISCHARGE PRESSES



PLAN VIEW
G3 TUNNEL & RIGHT DISCHARGE PRESSES



PLAN VIEW
G4 TUNNEL & RIGHT DISCHARGE PRESS



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SSPress Drain Trough L/R Dischg

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMPXXDRCB 2025185D

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