Published Manual Number/ECN: MAIMP16XDE/2015124A

- **Publishing System: TPAS2**
- **Access date: 03/26/2015**
- **Document ECNs: Latest**

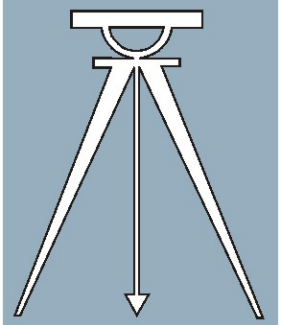
Installation

Single Stage Press

MP1540, MP1556,

MP1640, MP1650, MP1656,

MP1A50, MP1A56



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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MAIMP16XDE/15124A

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, FOB our factory. 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 repaired or 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.

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 —

BIUUUD14 (Published) Book specs- Dates: 20140821 / 20140821 / 20140821 Lang: ENG01 Applic: UUU

Trademarks of Pellerin Milnor Corporation

These words are trademarks of Pellerin Milnor Corporation:

Table 1: Trademarks

AutoSpot™	E-P Plus®	Linear Costa Master™	MilTouch™	Ram Command™
CBW®	ExactXtract®	Linear Costo™	MilTouch-EX™	RecircONE®
Drynet™	Gear Guardian®	Mentor®	Miltrac™	RinSave®
E-P Express®	GreenTurn™	Mildata®	MultiTrac™	SmoothCoil™
E-P OneTouch®	GreenFlex™	Milnor®	PBW™	Staph Guard®
	Hydro-cushion™	MilMetrix®	PulseFlow®	

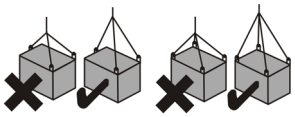
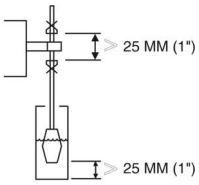
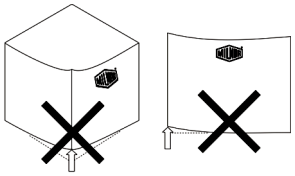
— End of BIUUUD14 —

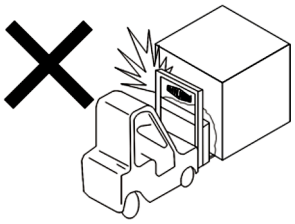
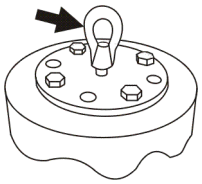
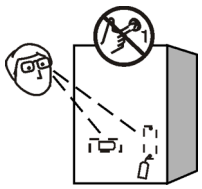
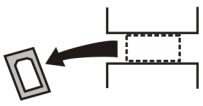
Understanding the Tag Guidelines for the Models Listed Below

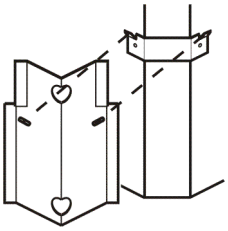
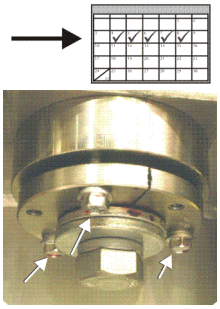
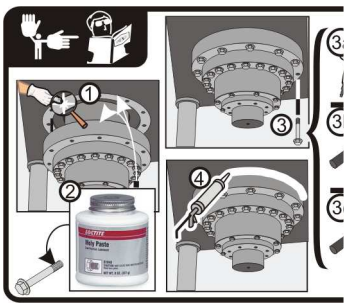
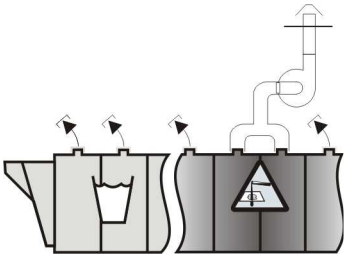
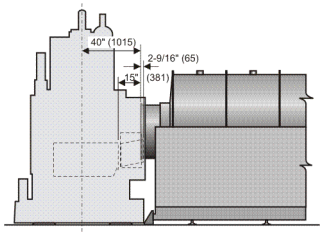
MP1540CL	**MP1540CR**	**MP1540L-**	**MP1540R-**	**MP1550CL**	**MP1550CR**	**MP1550L-**
MP1550R-	**MP1556CL**	**MP1556CR**	**MP1556L-**	**MP1556R-**	**MP1601CL**	**MP1601CR**
MP1601LF	**MP1601R-**	**MP1601RT**	**MP1602CL**	**MP1602CR**	**MP1602LF**	**MP1602RT**
MP1603CL	**MP1603CR**	**MP1603L-**	**MP1603R-**	**MP1604CL**	**MP1604CR**	**MP1604L-**
MP1604R-	**MP1640CL**	**MP1640CR**	**MP1640L-**	**MP1640R-**	**MP1656CL**	**MP1656CR**
MP1656L-	**MP1656R-**	**MP1A03CL**	**MP1A03CR**	**MP1A03L-**	**MP1A03R-**	**MP1A50CL**
MP1A50CR	**MP1A50L-**	**MP1A50R-**	**MP1A56CL**	**MP1A56CR**	**MP1A56L-**	**MP1A56R-**

Several installation guidelines and precautions are displayed symbolically, on tags placed at the appropriate locations on the machine. Some are tie-on and others are adhesive tags. Tie-on tags and white, adhesive tags may be removed after installation. Yellow adhesive tags must remain on the machine.

Most tags contain only symbols (no words). A few are worded. The explanations below, start with the tag part number (displayed on the tag). If a tag contains no words, the meaning of the tag is explained below. If the tag contains words, the explanation below simply repeats the wording.

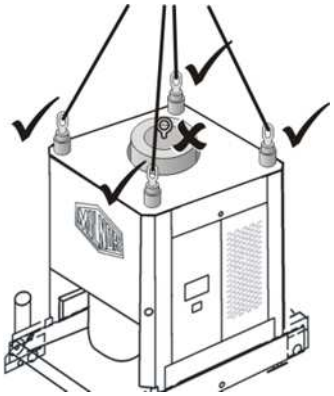
Display or Action	Explanation
	Read the manual before proceeding. This symbol appears on most tags. The machine ships with a complete set of manuals. The safety, installation, and electrical schematic manuals are particularly important to installers.
	B2TAG88005: This carefully built product was tested and inspected to meet Milnor® performance and quality standards by
	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.

Display or Action	Explanation
	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 dis-assembled.
	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.
35 - 40 psi **241316 - 275790 Pa (N/m²)** 	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.

Display or Action	Explanation
	B2T2002016: Store safety stands as shown when not in use.
	B2T2003014: Make sure that you use the specified hydraulic oil.
	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.

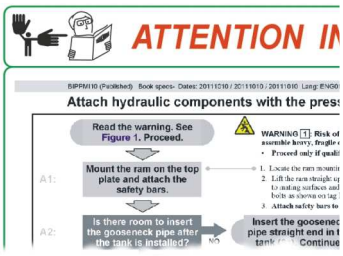
Display or Action

Explanation

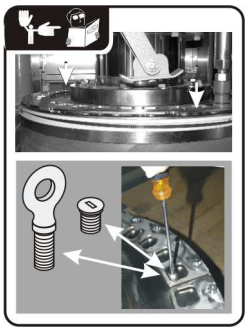


B2T2009017: Lift the press frame from the eye bolts on the four columns. Never attempt to lift the press from the eye bolt on top of the ram cylinder. This eye bolt is used to raise the ram into position.

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



B2T2011015: Attach hydraulic components as explained. This procedure is critical.



B2T2012012: When you remove the safety bar eye bolts for automatic operation, install the O-ring plugs fully in the two threaded holes.

— End of BIUUUI02 —

Safety Information 1

BIUUUS27 (Published) Book specs- Dates: 20051111 / 20051111 / 20060323 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 —

Installation 2

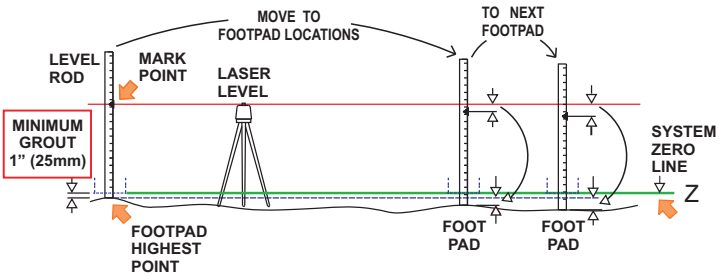
ATTENTION INSTALLERS!

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

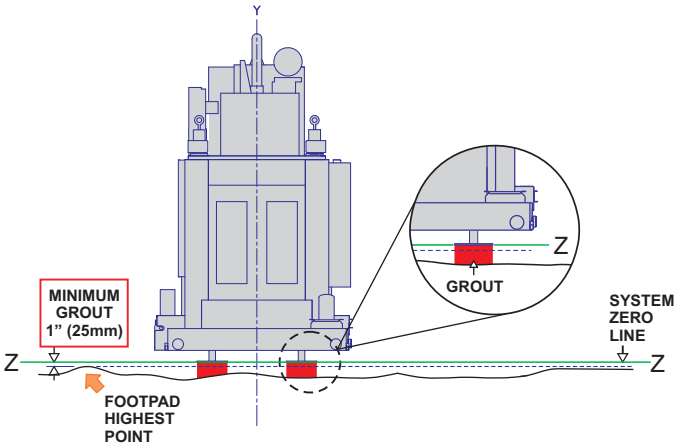
- Establish the System Zero Line or Z.
- Refer to the dimensional drawings of the various machines for required heights.

FLOOR IS UNEVEN



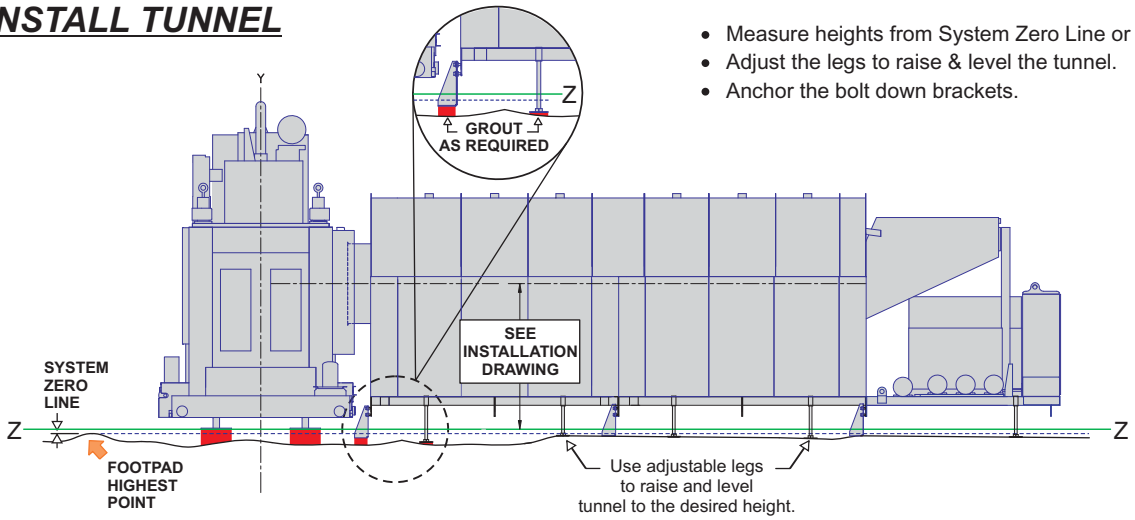
- Establish System Zero Line or Z.
- Find highest point in factory floor where footpads will be located.
- System Zero Line or Z is 1" above highest point.

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.

B2T2010023/2010523A

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

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

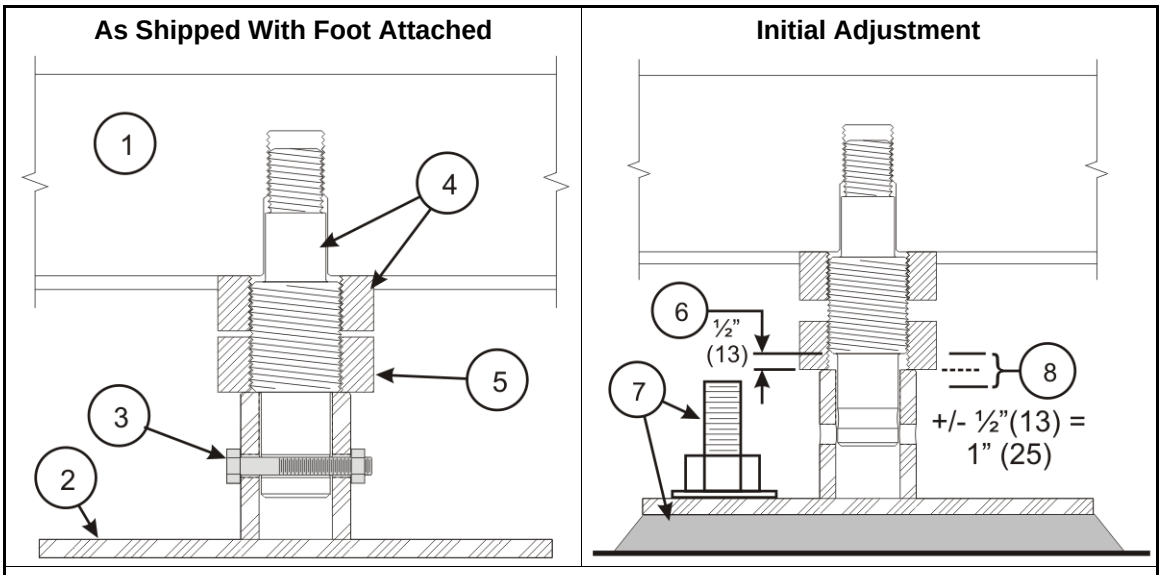
can be removed for transport—Normally, the press feet stay on the machine for shipping and installation. However, they can be temporarily removed if height restrictions require. The feet are available in several heights. Your machine is provided with the appropriate height.

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.

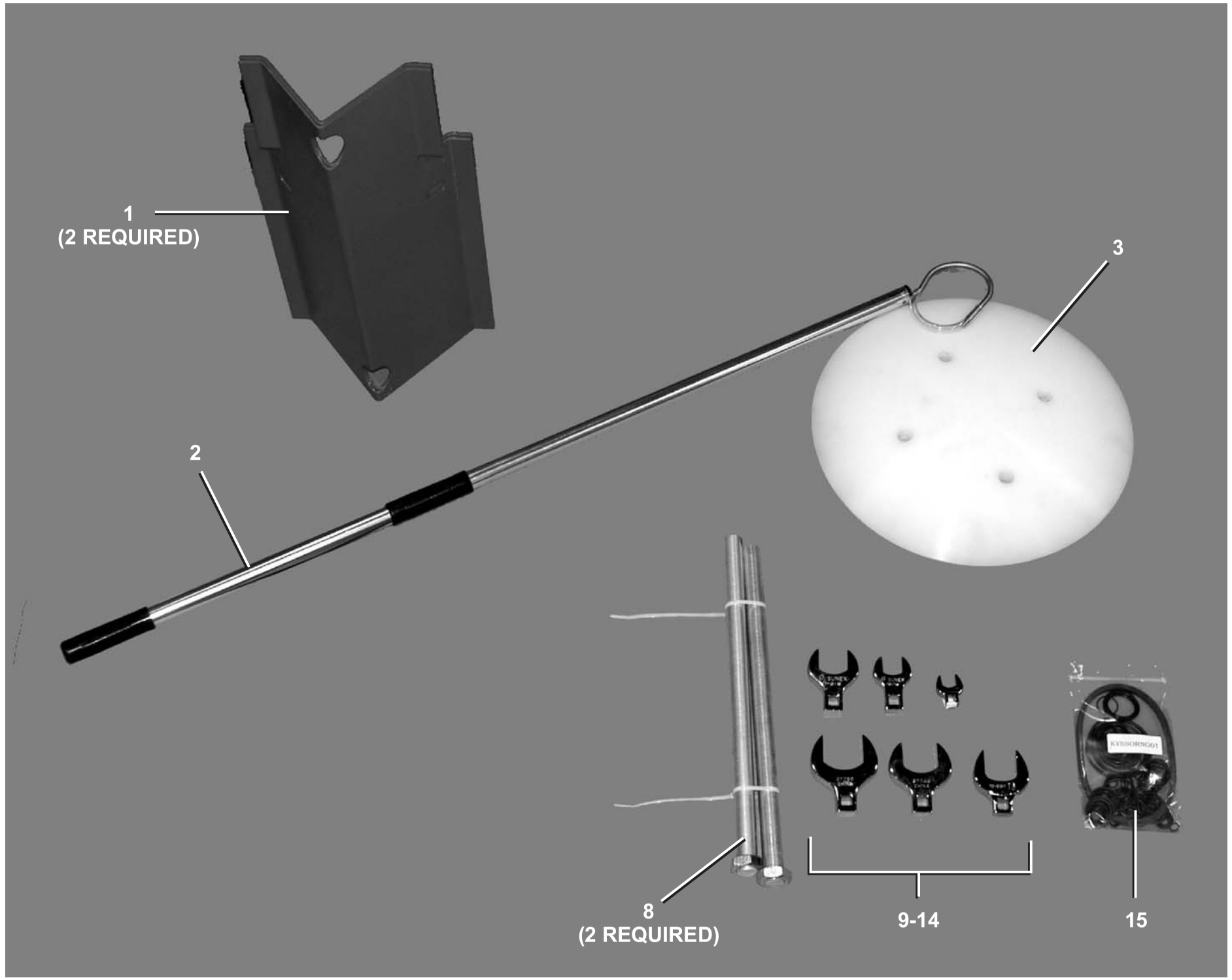
— End of BIPPMI08 —

Ship With

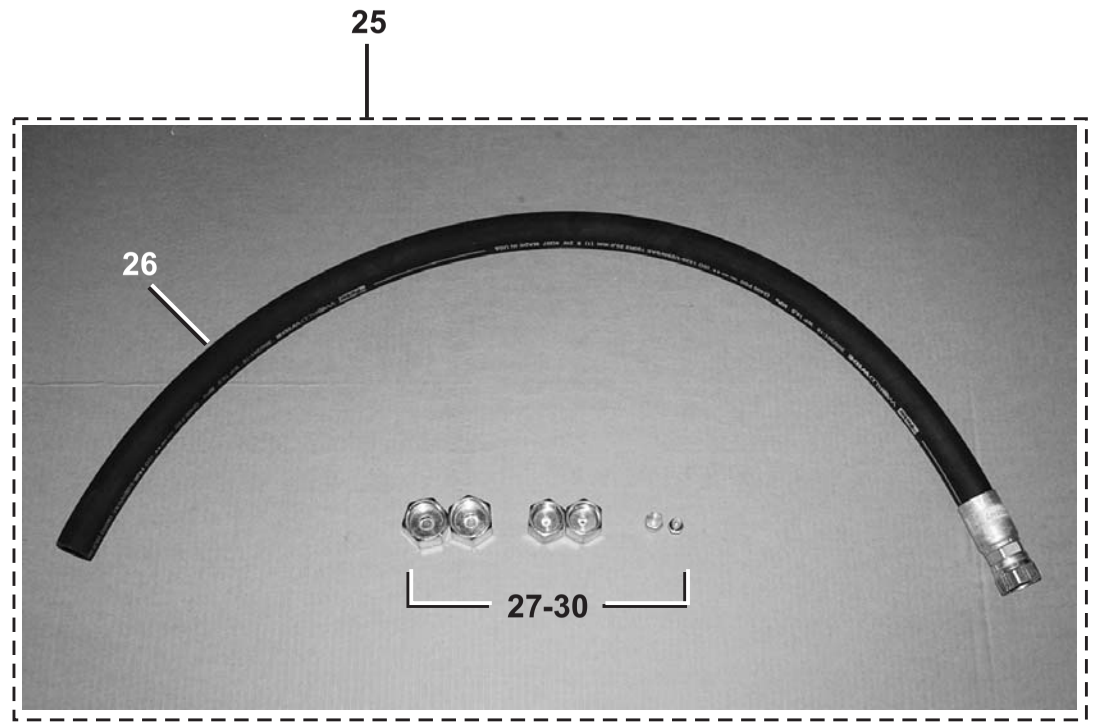
MP1540, MP1556, MP1640, MP1656, MP1A56CL,CR,L,R

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

Litho in U.S.A.



PLUGS
ITEMS 16-24
(NOT SHOWN)
SEE PARTS LIST



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
			----------ASSEMBLIES----------	
	A	AHT10031	SHIP WITH MACHINE-SSPRESS	MP1540, MP1556 Mp1640, MP1656
	B	AHT10036	SHIP WITH MACHINE-MP1A03	MP1A56
			----------COMPONENTS----------	
A	1	07 30093	SAFETY SUPPORT-BELL TF60	
B	1	07 10385	SAFETY STAND-48"CAN MP1A03	
all	2	27A900	ALUM. GAFF 5/16"DIAX48"L W/3"	
A	3	X7 10055	MEMBRANE SUPPORT DOME-UHMW	
B	3	X7 10055A	MEMBRANE UHMW DOME-MP1A03	
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	24	52PY0LR001	HEXPLUG 1/4"ORING#4-P50N-S	
all	25	KYSSTRBLSH	TROUBLE SHOOTING KIT SSPRESS	
all	26	60EH80C48B	ASSY=HYDHOSE+ONE END 1"X48"LG	(PART ITEM 25)
all	27	52ZN1AS003	TUBEFIT NUT+CAP #16-FNL-S	(PART ITEM 25)
all	28	52ZN0PS003	TUBEFIT NUT+CAP 3/4" 12 FNL-S	(PART ITEM 25)
all	29	52ZP0ES001	TUBEFITPLUG 1/4" #4-PNLO-S	(PART ITEM 25)

Parts List, cont.— Ship With

Used In	Item	Part Number	Description	Comments
all	30	52PY0LR001	HEXPLUG 1/4"ORING#4-P50N-S	(PART ITEM 25)

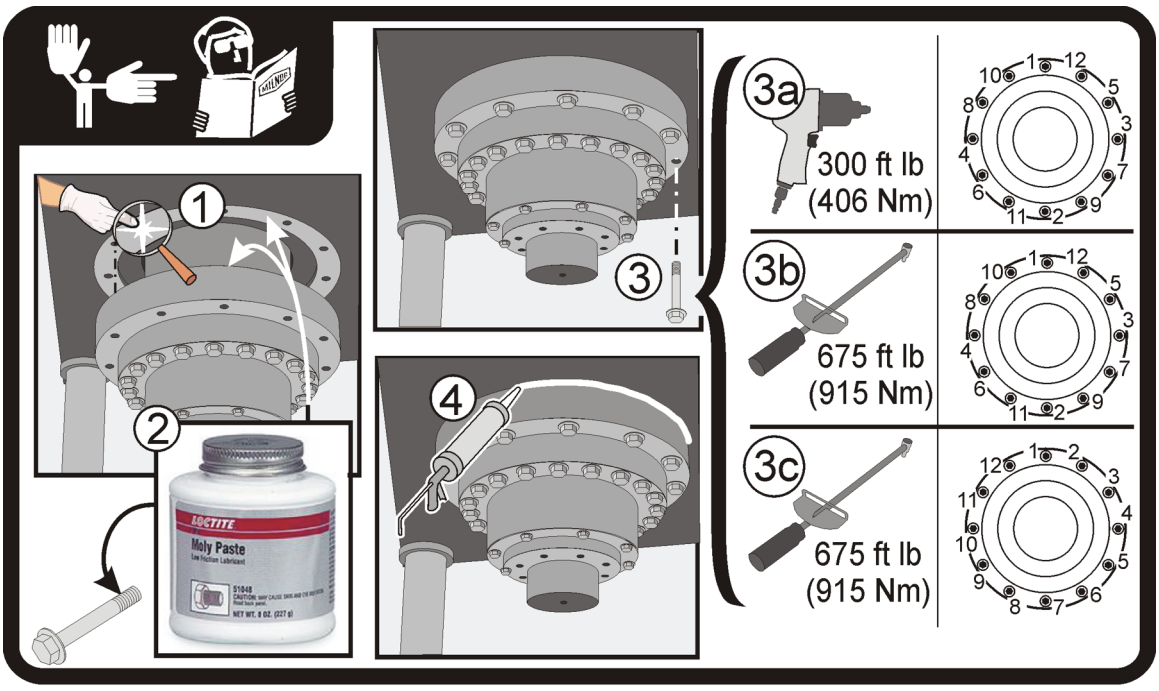
Attachment of 1-Station Press Components Removed for Shipment

This document covers on-site assembly of MP 1556_ and MP1656_ models. It can also be used for assembly of MP1540_, MP1640_, and MP1A_ models which are similar.

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, and electrical work. All must be performed with expertise and care. With prior installations, the problems that have arisen most often are faulty ram mounting and leaks at hydraulic fittings. Use special care to understand and abide by the ram mounting tag affixed to the ram and shown in Figure 1 and the instructions about hydraulic connections given throughout Section 1 "Attach hydraulic components (press in position)." (also provided as an installation tag).

Figure 1: Ram Mounting Tag Affixed to the Ram



B2T2007017/2011434A

Supplement 1

About Ram Lifting

The ram on MP15_ and MP16_ press models ranges in weight from 6000 to 8500 pounds (2722 to 3856 kilograms). With suitable rigging equipment and sufficient overhead clearance, you can lift the ram on these models from the eye bolt as explained in Section 1. The ram on MP1A_ press models weighs 11000 pounds (4990 kilograms) and the machine is significantly taller. It is rarely possible to safely lift the ram on these models from the eye bolt on site. Use voltage-appropriate hydraulic pump kit KYSSNYPP01 or KYSSNYPP02, available for rental from the Milnor Parts department, to lift the ram when eyebolt lifting is not practical.

1. Attach hydraulic components (press in position). [Document BIPPMI10]

Read the warning. See Figure 2. Proceed.

WARNING 1: Risk of severe injury and costly damage—You must assemble heavy, fragile components using machinery and personnel.

- **Proceed only if qualified in rigging heavy machinery.**

A1: Mount the ram on the top plate and attach the safety bars.

1. Locate the ram mounting hardware, Loctite Moly Paste, and silicone sealant.
2. Lift the ram straight up (Figure 2, 1a). Look at tag B2T2007017 affixed to the ram. Make sure mating surfaces are clean, apply Loctite Moly Paste (1b), torque bolts, and apply a bead of silicone sealant as shown on the tag.
3. **Attach safety bars to hold the ram piston up (1c).**

A2: Is there room to insert the gooseneck pipe after the tank is installed?

NO → **Insert the gooseneck pipe straight end in the tank (2a). Continue.**

If possible lift the tank without the gooseneck pipe in it. If necessary, lift the tank and gooseneck pipe together. Make sure the pipe has no debris. Do not adjust the pipe rubber boot yet.

YES

A3: Loosely mount the tank to rails on the top plate.

1. Remove all mounting bolts from the tank mounting rails.
2. Lift and set the hydraulic tank on the rails (3).
3. Loosely install all mounting bolts.

A4: Set the prefill valve in place with its two distinct o-rings.

CAUTION 2: Risk of Costly Damage—Keep the ram opening covered.

1. **With safety bars installed**, remove the ram eye bolt and cover plate (1d).
2. Place the prefill valve and o-rings over the ram opening—hard o-ring on bottom; soft o-ring on top (1e).

A5: Is the gooseneck pipe already in the tank?

NO → **Insert straight end in the tank (2a). Continue.**

Make sure the pipe has no debris. Do not adjust the pipe rubber boot yet.

YES

A6: Loosely attach the gooseneck to the ram.

1. Locate the gooseneck flange mounting bolts.
2. Place the gooseneck flange over the prefill valve. Surfaces must be clean.
3. Put the two backup plates on the gooseneck flange (1e).
4. Put a light coat of hydraulic oil on the threads and loosely install the bolts.

A7: Install pipes (Section 1.2).

Install the two fittings and three pipes explained in Section 1.2 "Install three hydraulic pipes and two fittings (Figure 4)." before you tightly fasten the tank and gooseneck pipe.

A8: Tightly fasten the tank and gooseneck pipe.

1. **Alternately torque the pipe flange bolts to 750 ft-lbs (1017 Nm).**
2. Move the pipe rubber boot in position and tighten the hose clamps.
3. Tighten the tank mounting bolts (3a).

A9: Mount the oil cooler.

One of two optional oil coolers was provided: air or water cooled. Each type mounts on rails on the top plate the same way as the hydraulic tank (5a, 5b).

A10: Is this an MP_56_ model (booster pump)?

YES → **Mount booster pump. Then connect hoses.**

If the booster pump is not mounted, attach the pump bracket to the vertical rails above discharge door (6). Then go to Section 1.3 "Connect free end of disconnected hydraulic hoses (Figure 5)."

NO

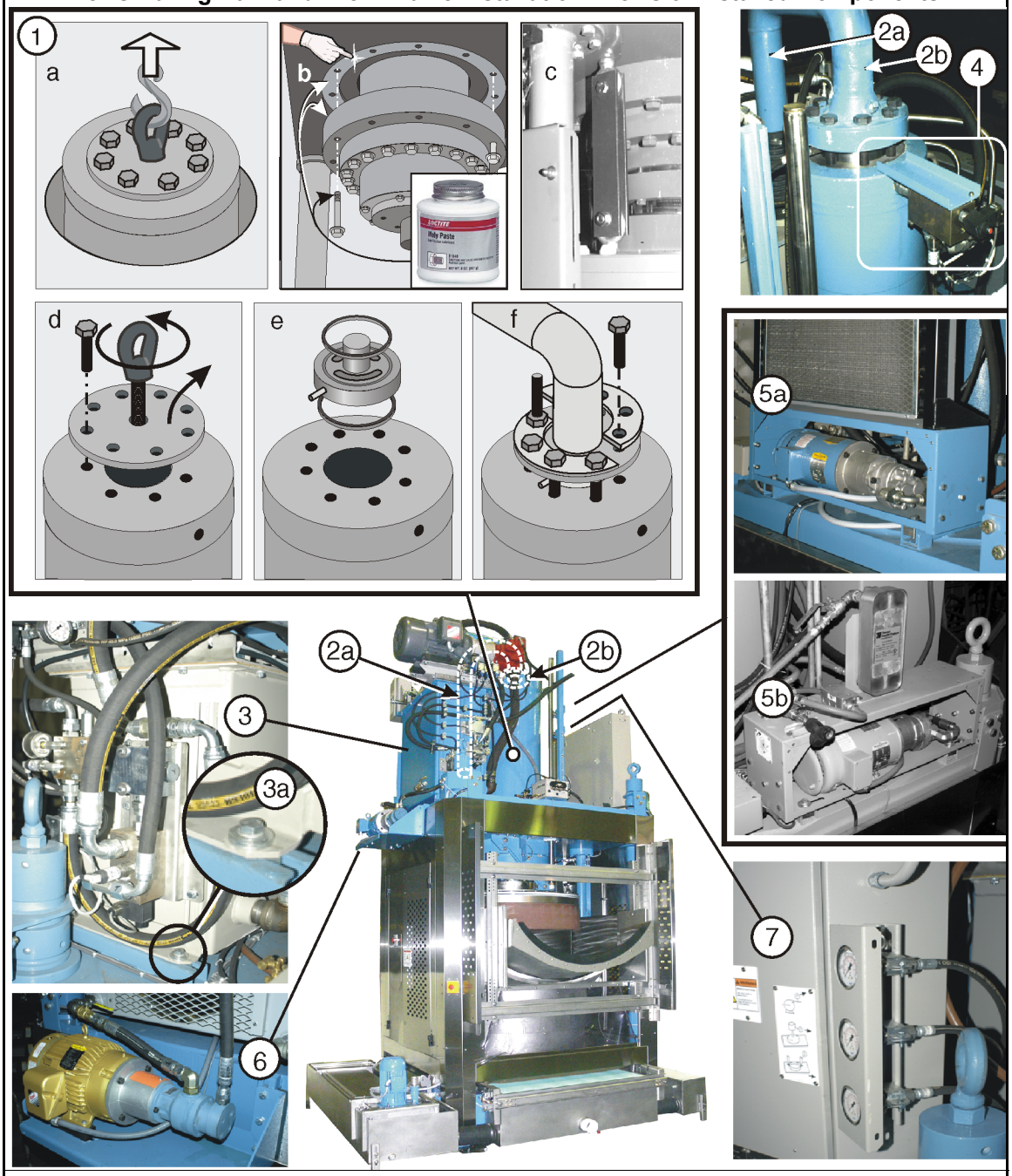
A11: Mount the prefill bypass manifold.

1. Allow the manifold support bracket to rest on top of the ram cylinder (4).
2. Connect the manifold pipe to its mating fitting near the top of the ram cylinder. See Section 1.1 "How To Connect Hydraulic Fittings".
3. Attach the support bracket to the ram cylinder with the bolts provided.

Connect hoses (Section 1.3).

Go to Section 1.3 "Connect free end of disconnected hydraulic hoses (Figure 5)."

Figure 2: Attachment of Hydraulic Components



Legend

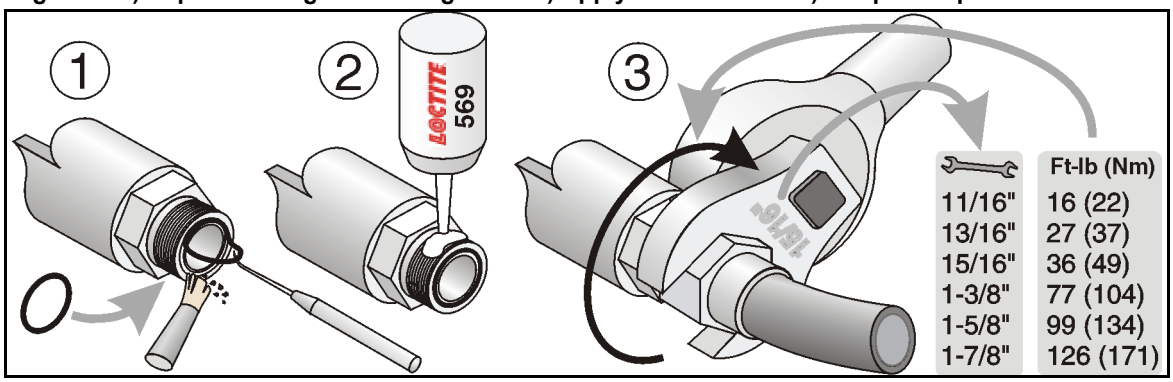
1. Views during ram and prefill valve installation
2. Gooseneck pipe: 2a. Straight end 2b. Flange end
3. Hydraulic tank installed. 3a. Mounting bolts tight.
4. Prefill bypass manifold attached here—models MP1540_ and MP1640_ only.
5. Alternative hydraulic oil coolers: 5a. Air-cooled option 5b. Water-cooled option
6. Booster pump—MP1556_, MP1656_, and MP1A56_ only. On-site attachment can be necessary.
7. Pressure gauge cluster. No on-site hydraulic connections. Mount the rail with attached gauges after the electric box is mounted.

1.1. How To Connect Hydraulic Fittings

CAUTION 3: High pressure system—Fittings will leak if not connected as in Figure 3.

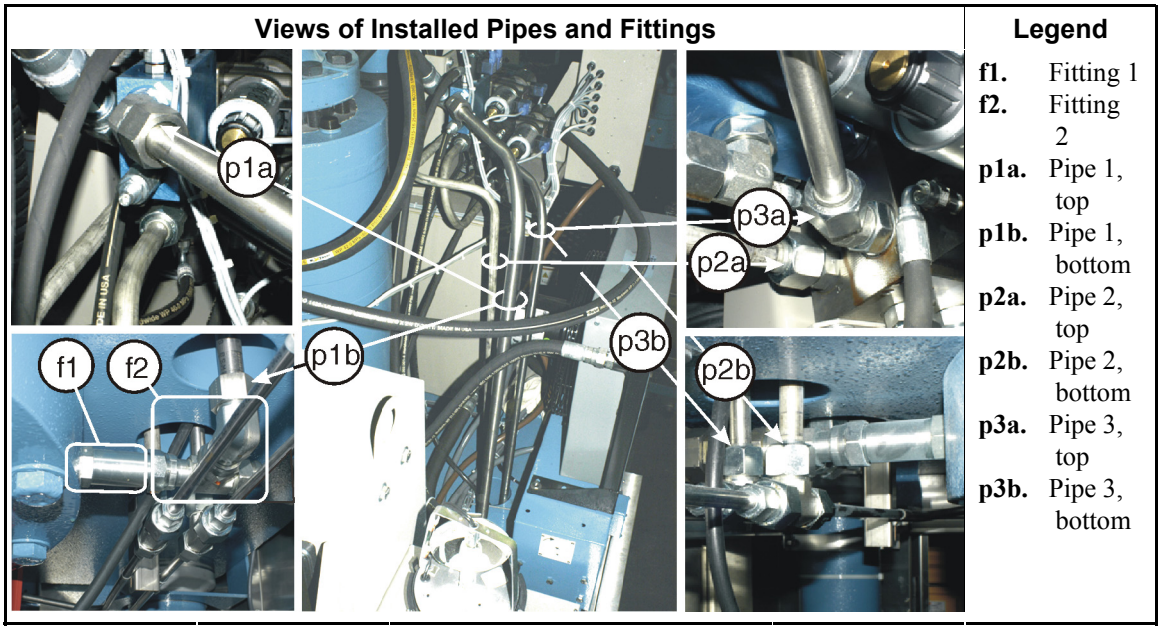
- **Use new o-ring and thread sealer on every fitting** (new o-rings, thread sealer supplied).
- **Use a torque wrench. Use the correct size crows foot (supplied). Do not over-torque.**

Figure 3: 1) Replace O-ring in a clean groove. 2) Apply thread sealer. 3) Torque to specification.



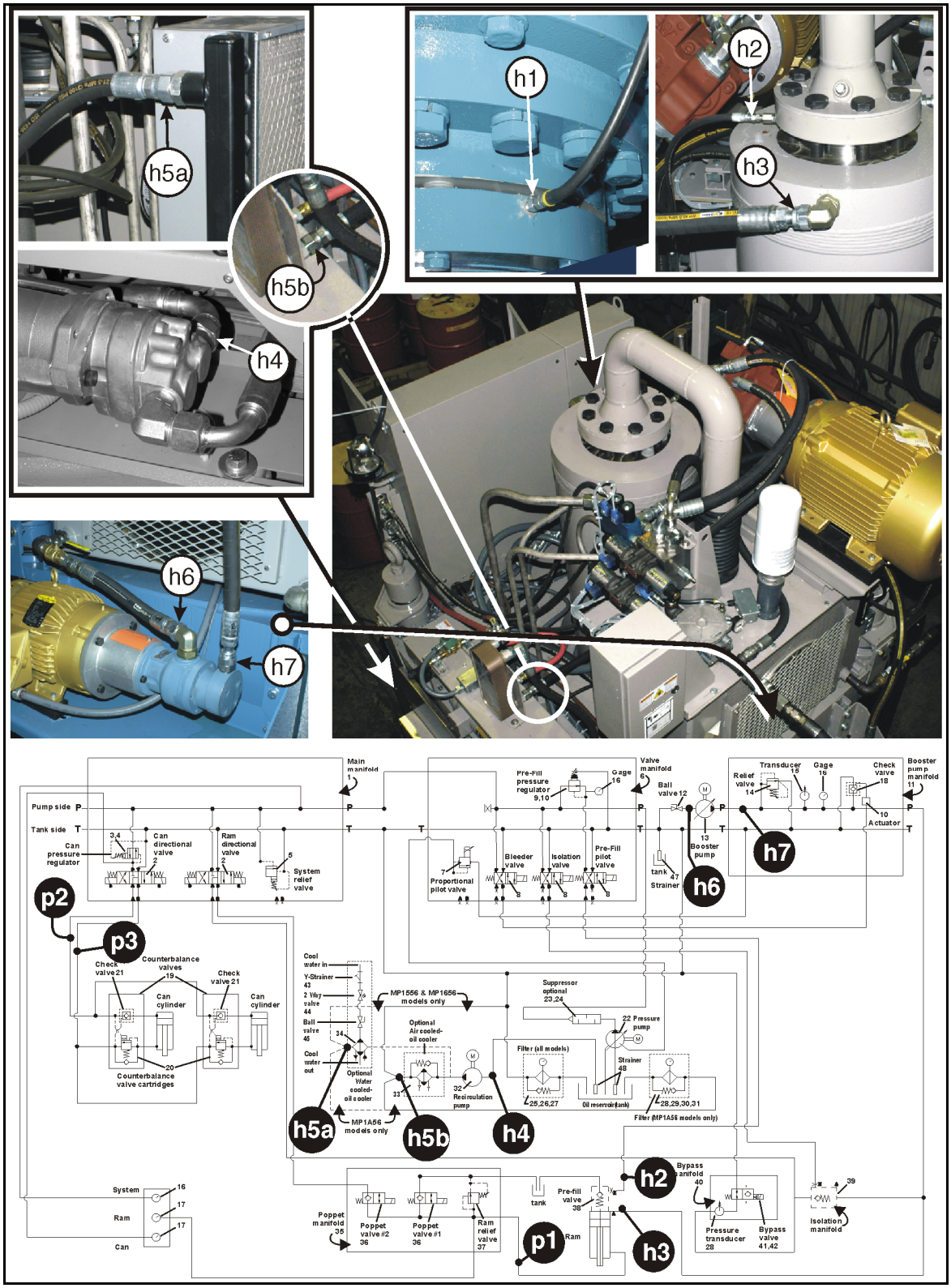
1.2. Install three hydraulic pipes and two fittings (Figure 4).—Solidly connect f1 and f2 as explained in Section 1.1 "How To Connect Hydraulic Fittings". Each pipe has a unique shape and will only correctly match one pair of connections. Loosely connect the three pipes. Adjust the position of the hydraulic tank to minimize stress on the pipes. When you get the best fit, disconnect each pipe end then reconnect per Section 1.1.

Figure 4: Hydraulic Pipe Connections



1.3. Connect free end of disconnected hydraulic hoses (Figure 5).—Connect the fitting on the free end to its mating fitting. Tags with the same number are attached to mating fittings. Use the tags and this instruction to match the fittings. Connect fittings as explained in Section 1.1 "How To Connect Hydraulic Fittings".

Figure 5: Hydraulic Hose Connections. Item arrows point to the fitting on free end of hose.



2. Attach other hardware.

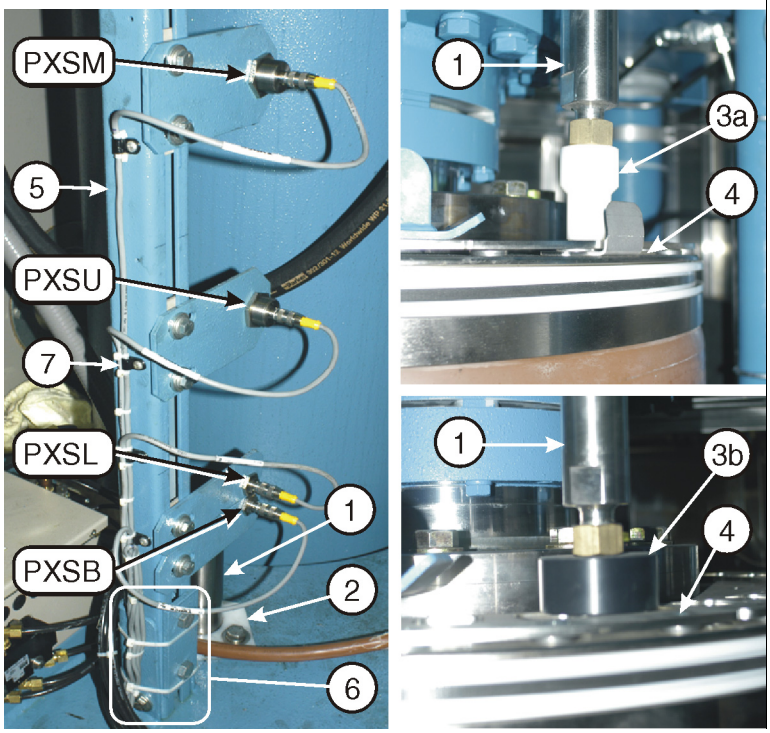
2.1. Press Electric Box and Hydraulic Gauge Cluster—The electric box mounts to rails on top of the top plate the same way as the hydraulic tank. Lift and firmly attach the box. The hydraulic pressure gauge cluster mounts to the electric box. Mount the gauges as shown in Figure 2.

2.2. Proximity Switch Operation Rod and Mounting Post.—Figure 6 shows the installed switch operation rod and switch mounting post. The rod is free floating. It moves up and down with the ram diaphragm through a hole in the press top plate. Plastic guide plates on the top and bottom of this hole keep the rod steady. A plastic base on the bottom of the rod slides on the ratchet plate each time the ratchet turns the diaphragm. On some models the plastic base is small enough to fit through the rod guide plates. On others, the base must be removed then reattached after the rod is in position. Set the rod in position as shown in Figure 6.

The switch mounting post, which was removed for shipment, has four proximity switches mounted on it. The switch positions were set at the factory and must not be changed when the post is reattached. Fully seat the switch mounting post in its base on the top plate and securely attach it as shown in Figure 6.

Figure 6: Switch Operation Rod (model MP1656_ shown) and Switch Mounting Post

Views of Installed Rod and Post

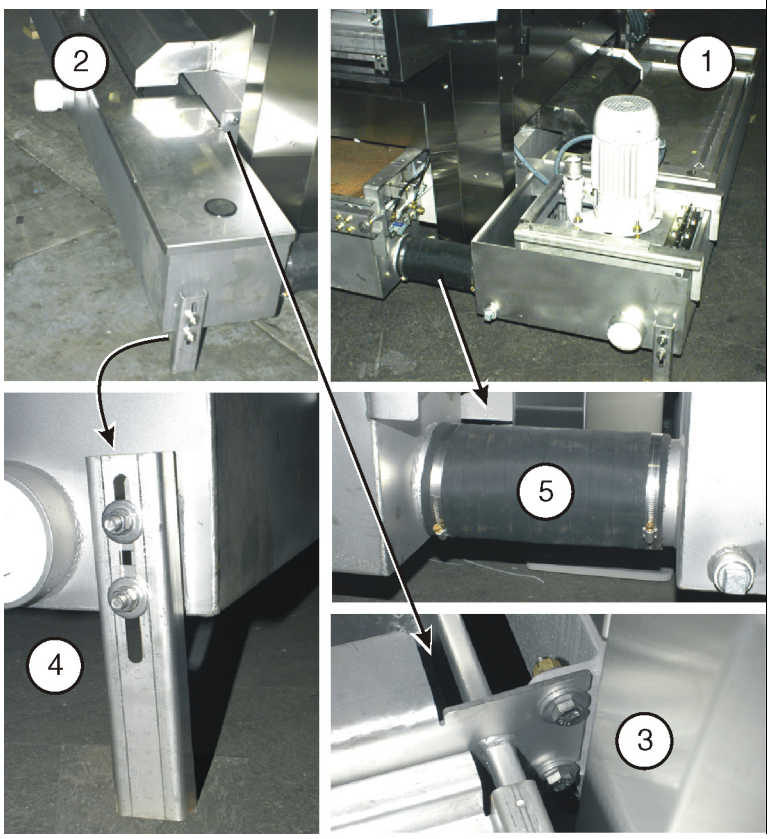


Legend

1. Switch operation rod
2. Plastic guide plate
3a. This type of plastic base will fit through the rod guide plates.
3b. If the rod has this type of base, temporarily remove it to insert the rod through the guide plates.
4. Ratchet plate
5. Switch mounting post
6. Ensure the post is fully seated in the support brackets.
7. Secure switch wires as shown.
PXSM. "Ram in container (can)"
PXSU. "Ram at discharge"
PXSL. "Ram is low"
PXSB. "Ram down fully"

2.3. Reuse Tanks—Attach the two reuse tanks and make plumbing connections as explained in Figure 7.

Figure 7: Reuse Tank Attachment

Views of Reuse Tanks	Legend
	**1.** Wide reuse tank and pump. When you face the press discharge direction, this tank goes on the left if the goods turn right. It goes on the right if the goods turn left. 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.

3. Make electrical connections.

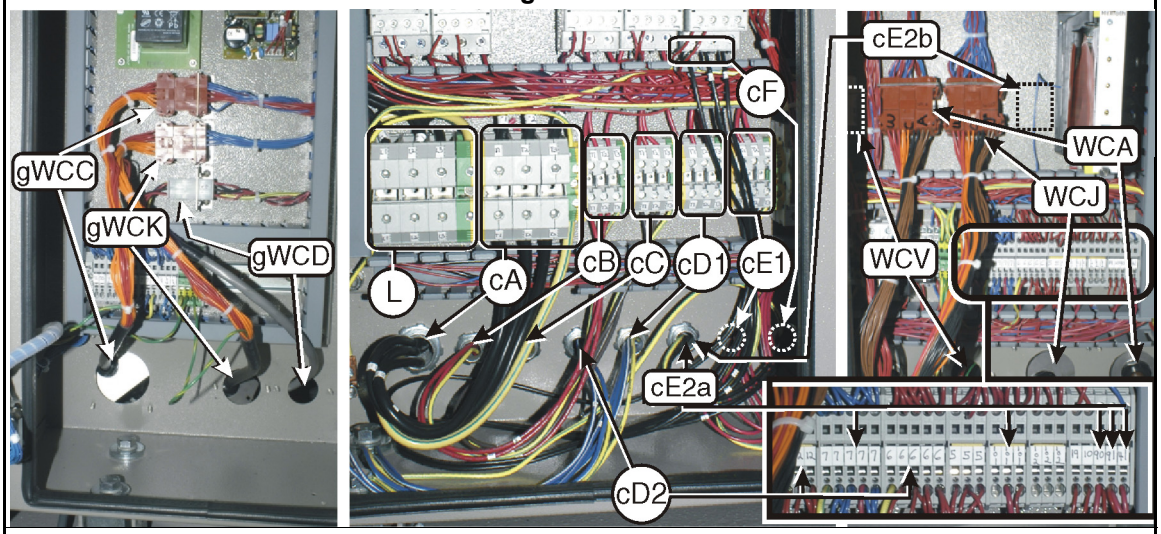
3.1. Connections at the Switch Mounting Post—The proximity switches each have a wire that goes to a junction box on the top plate. These wires were disconnected from the switches but not from the junction box and secured on the top plate for shipment. The wires and switches have corresponding labels. Reconnect wires to switches and secure the wires as shown in Figure 6.

3.2. Connections in the Press Electric Box—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 points 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 points on the box. Then use the tags to match up the electrical connections in the box. Use Figure 8 to confirm the connections.

Figure 8: Electrical Connections in Press Electric Box

Views Through Electric Box Doors



Legend

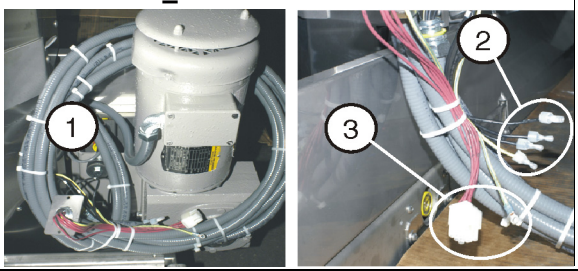
L. Connection points for incoming power.
g. (**gWCC, gWCD, gWCK**) Molex connectors for graphic display cables
WCV. Molex connector for electric operated air valve cable
WCA. Molex connector for electric operated hydraulic valve cable
WCJ. Molex connector for various device wires
cA. Three wires and 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.

3.3. **Connections at the Reuse Pump**—The reuse pump cable is secured to the press body. Route this cable to the reuse pump junction box and connect the four wires.

3.4. **Connections at the COINC_ Conveyor**—When this device installed (at the press discharge position), route the cables and make the connections identified in Figure 9.

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

COINC_ Cables and Connections



Legend

1. COINC_ conveyor control cables secured on press for shipment
1. COINC_ conveyor motor connections--three wires and a ground. Wires and pins are labeled.
2. COINC_ control connections--Molex plug and ground. Mating Molex plug in box.

— End of BIPPMI11 —

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

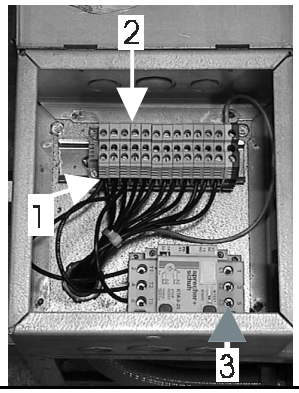
1. Position two drums of Shell TELLUS 68 hydraulic oil (or equivalent) next to the single stage press.
2. Set pump on oil drum as shown in Figure 2. Two technicians (or a suitable lifting device) are required to lift the pump.
3. Remove both bungs from drum top.

   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.

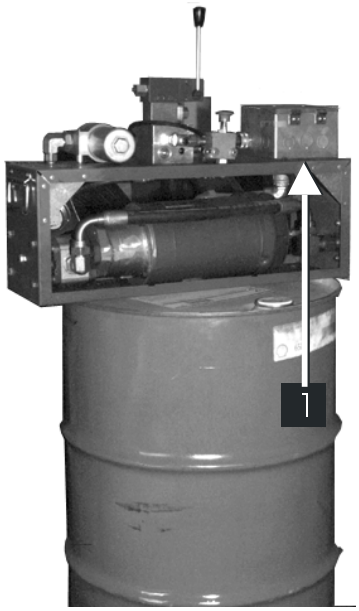
Figure 1: Electrical Connection Box Terminals

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

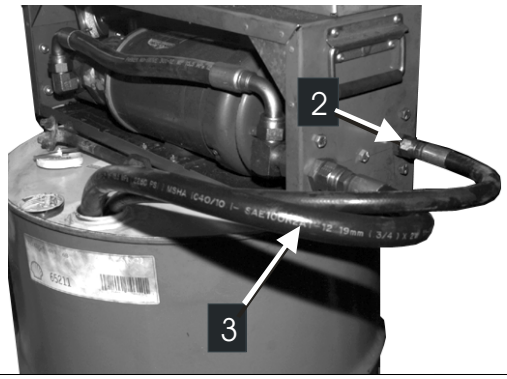
5. Make three phase power connections from the pump relay connections (Figure 1) to the wall disconnect box.
6. Energize power and verify that the pump is rotating in the clockwise direction (as viewed from the motor fan end).
7. Connect the 3/4" suction and 1/2" bypass hose to the pump as shown in Figure 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



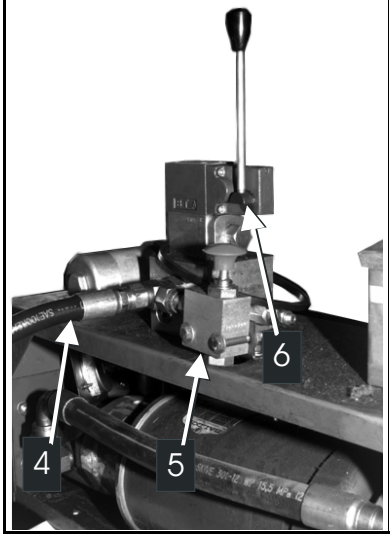
Pump by-pass and fill hose connections and destinations



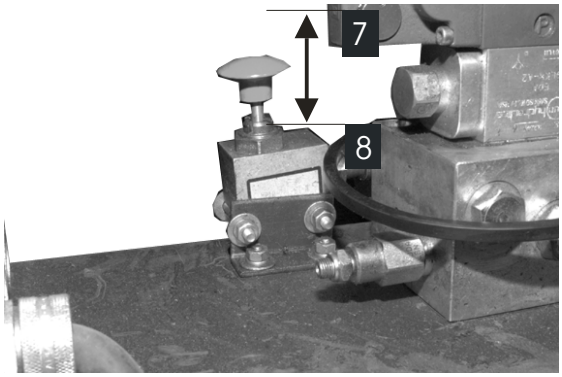
Legend

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

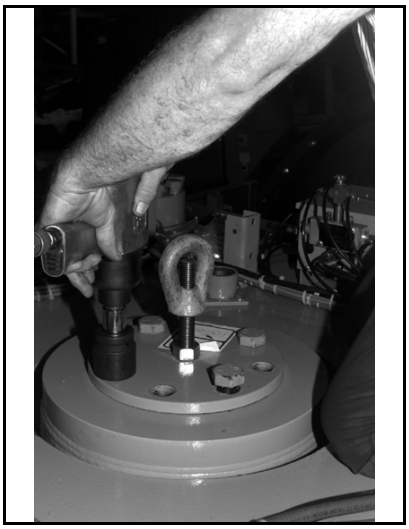


Figure 4: Install Hydraulic Fitting Equipped Cylinder Cover

Figure 5: Installing Fill Hose from Pump

Figure 6: Remove Ram Drain Plug

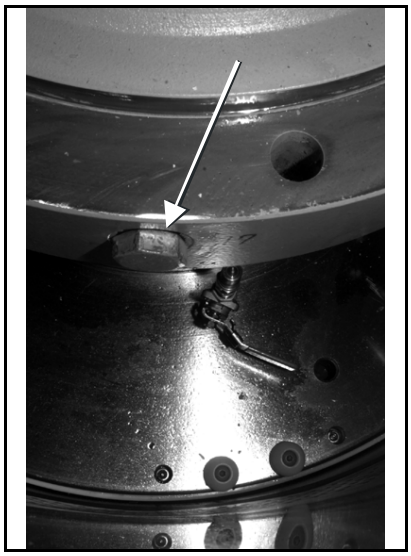
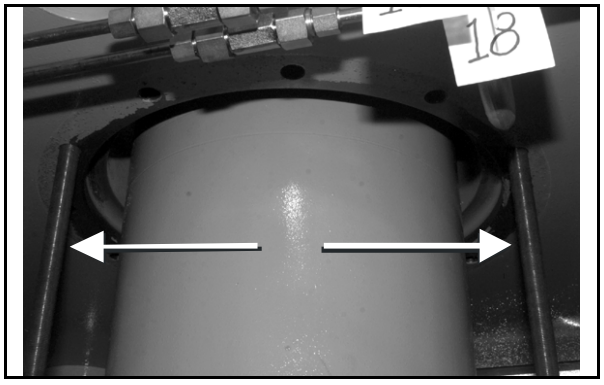


Figure 7: Remove the Cylinder Shipping Material

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

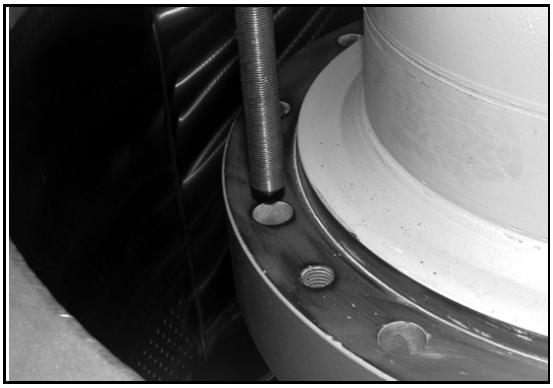
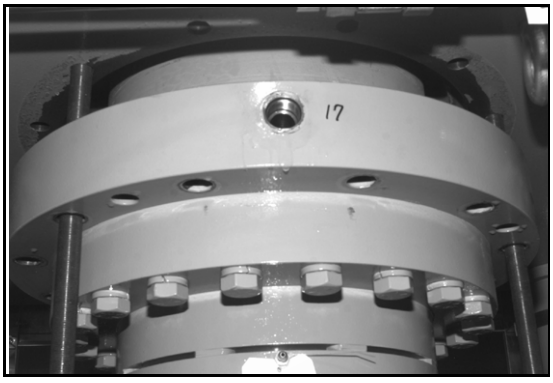


Figure 10: Raising Cylinder into Mounting Position

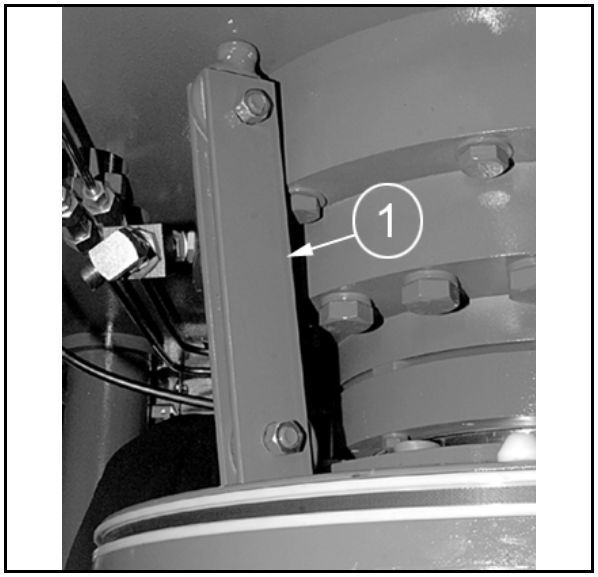


4. Raising the Cylinder Rod

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)



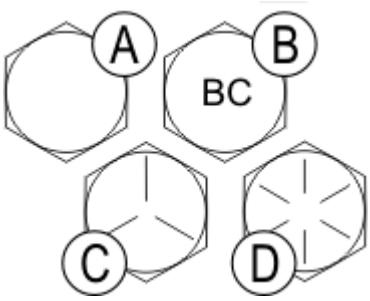
— End of BIPPMI05 —

BIUUUM04 (Published) Book specs- Dates: 20080506 / 20080506 / 20080506 Lang: ENG01 Applic: UUU

Fastener Torque Requirements

Torque requirements for other fasteners are specified in the specific document which describes the assembly. **If fastener torque specifications or threadlocking compound requirements in an assembly document vary from the specifications in this document, use the assembly document.**

Figure 1: Common Bolts Used in Milnor Equipment

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

1. Torque Values

The tables below list the standard size, grade, threadlocking compound, and torque requirements for fasteners commonly used on Milnor® equipment.

Note 1: Data derived from Pellerin Milnor® Corporation "Bolt Torque Specification" (bolt_torque_milnor.xls/2002096).

1.1. Carbon Steel Fasteners

1.1.1. Without Threadlocking Compound

Table 1: Torque Values for Dry Fasteners 5/16-inch and Smaller

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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 Dry Fasteners Larger Than 5/16-inch

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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	--	--
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 5/16-inch and Smaller

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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
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 Threadlocking Compound

Table 5: Threadlocking Compound Selection by Bolt Size

	Bolt Size			
LocTite Product	1/4"	1/4" – 5/8"	5/8" – 7/8"	1" +
LocTite 222	OK			
LocTite 242		OK		
LocTite 262			OK	
LocTite 272			High temperature	
LocTite 277				OK

Table 6: Torque Values for Applications of LocTite 222

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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 for Applications of LocTite 242

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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
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 for Applications of LocTite 262

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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 for Applications of LocTite 272 (High Temperature)

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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 for Applications of LocTite 277

	Bolt Grade							
	Grade 2		Grade 5		Grade 8		Grade BC	
Bolt Size	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

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

	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
Nominal Bolt Size	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

Bolt Size	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

WARNING 1: Fire Hazard—Some solvents and primer products are flammable.

- Use in a well ventilated area.
- Do not use flammable products near ignition sources.

1. Clean all threads with a wire brush, a tap, or a die.
2. Degrease the fasteners and the mating threads with a cleaning solvent. Wipe the parts dry.

   Note 2: LocTite 7649 Primer N™ will remove grease from parts, but it costs more than a standard organic or petroleum solvent.

3. Prime the fasteners and the mating threads with LocTite 7649 Primer N™ or equal. Allow the primer to dry for at least one minute.

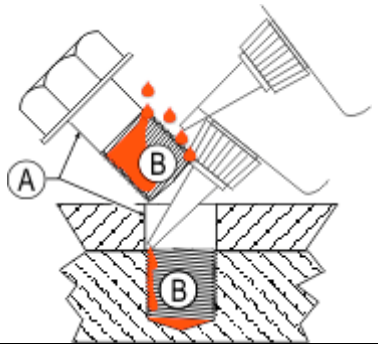
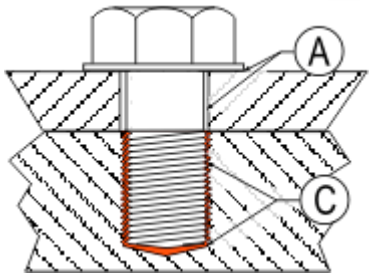
3. Application of Threadlocking Compound

CAUTION 2: Malfunction Hazard—Improper application of threadlocking compounds may result in fasteners becoming loose from impact, heat, or vibration. Loose fasteners can cause the equipment to malfunction.

- Read and follow the threadlocking compound manufacturer's instructions and warnings.

Apply threadlocking compound to the thread engagement areas of fasteners and mating threads only.

Figure 2: Blind Hole

Application	Coverage
	

Legend

A. No threadlocking compound here
B. Apply here
C. Fill all gaps with threadlocking compound

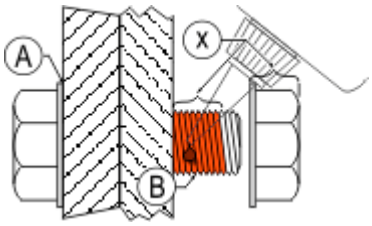
3.1. Blind Holes

1. Apply several drops of threadlocking compound down the female threads to the bottom of the hole.
2. Apply several drops of threadlocking compound to the bolt.
3. Tighten bolt to value shown in the appropriate table (Table 5 through Table 11).

3.2. Through Holes

1. Insert bolt through assembly.
2. Apply several drops of threadlocking compound to the bolt thread area that will engage the nut.
3. Tighten bolt to value shown in the appropriate table (Table 5 through Table 11).

Figure 3: Through Hole

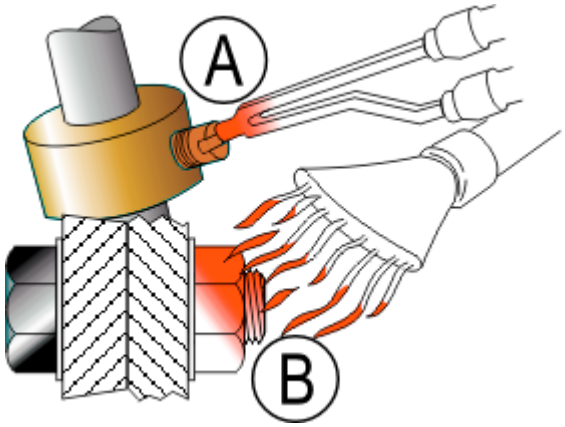
Application	Legend
	**A.** No threadlocking compound here **B.** Cover this area **x.** Nut depth

3.3. Disassembly—For low-strength and medium-strength products, disassemble with hand tools.

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

Figure 4: Disassembly

Use Localized Heat



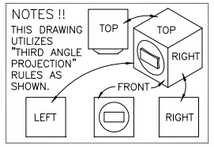
Legend

A. Soldering gun heating small fastener
B. Torch heating large fastener

— End of BIUUUM04 —

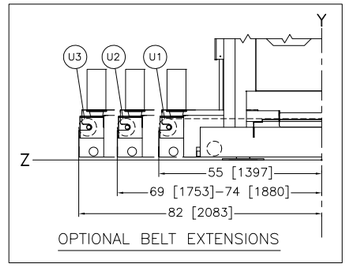
Dimensional Drawings 3

NOTES !!
THIS DRAWING UTILIZES "THIRD ANGLE PROJECTION" RULES AS SHOWN.

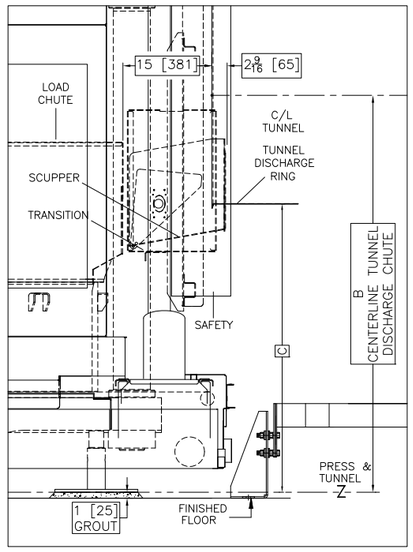


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

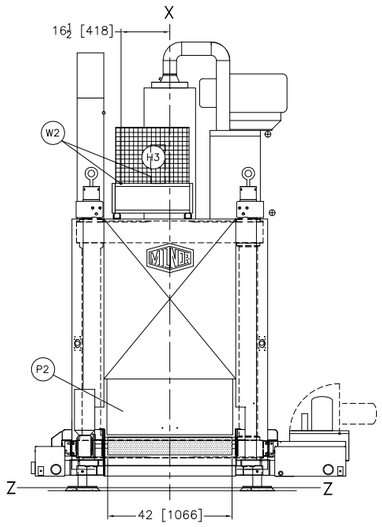
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
4-1/2" FOOT	14	355	62	1575	43 3/4	1111	145 7/16	3694
5-1/2" FOOT	15	381	64	1625	45 3/4	1162	147 7/16	3745
7-1/2" FOOT	17	432	67	1701	48 3/4	1238	150 7/16	3822



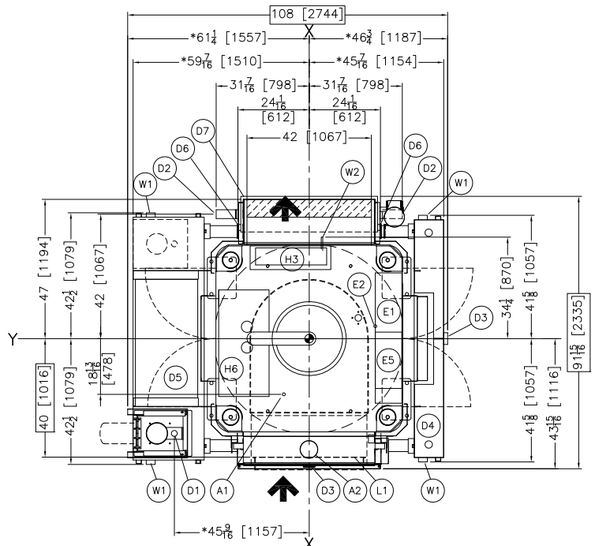
OPTIONAL BELT EXTENSIONS



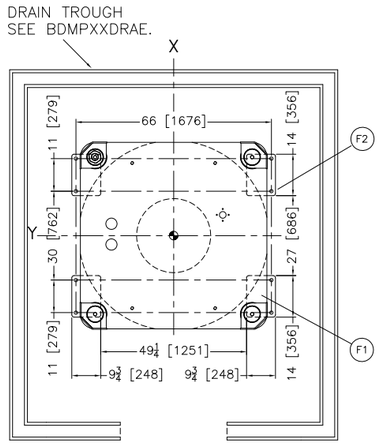
INSTALLATION DETAIL



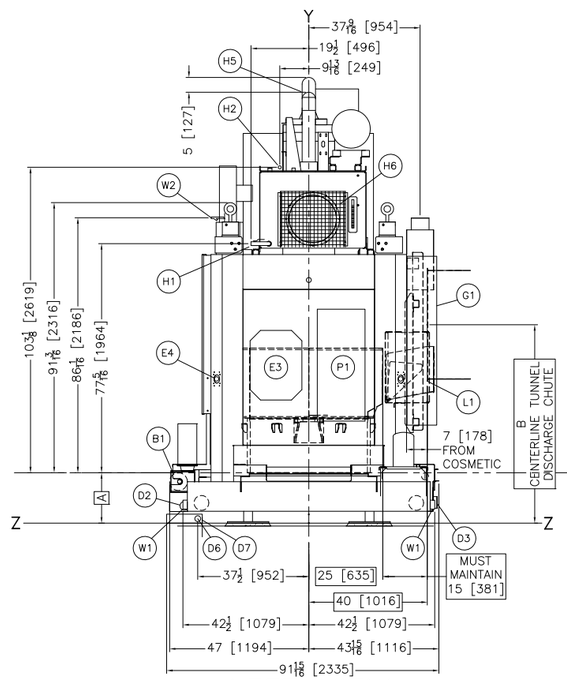
REAR VIEW



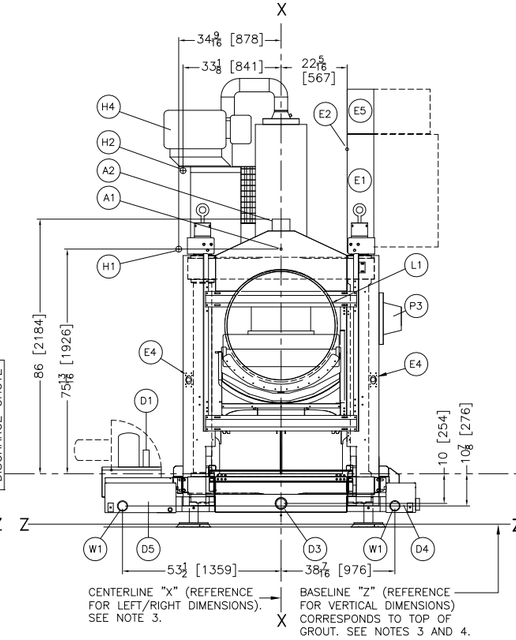
PLAN VIEW



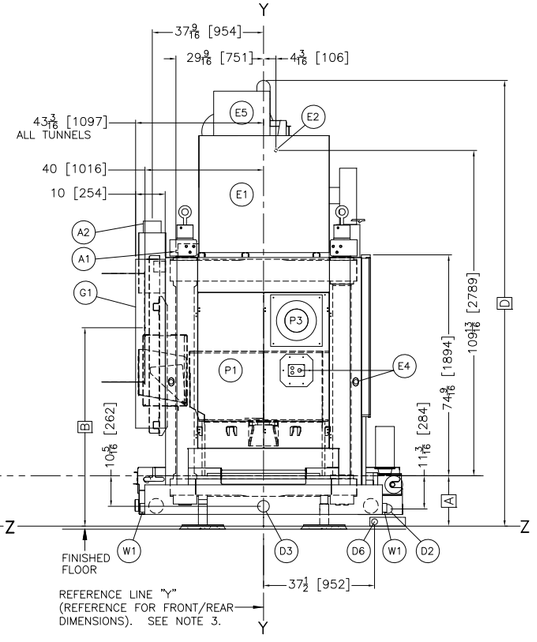
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
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.
L1	TUNNEL DISCHARGE RING
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL,3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP ON CONTROLS & 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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1-1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

11 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

10 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.

9 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.

8 NON-STANDARD 11 DEGREE LOADING FOR BOTTOM TRANSFER TUNNELS ONLY.

7 ELECTRICS MAY BE LOCATED ON LEFT SIDE, RIGHT SIDE OR BACK SIDE. THE ELECTRICS LOCATION DEPENDS UPON THE FLOW DIRECTION OF GOODS.

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.
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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.

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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.

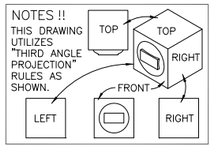
MP1540CR,CL

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1540CLCE
2014123D

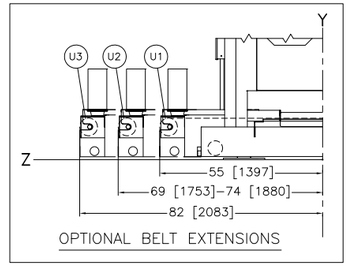
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com

NOTES !!
THIS DRAWING UTILIZES "THIRD ANGLE PROJECTION" RULES AS SHOWN.

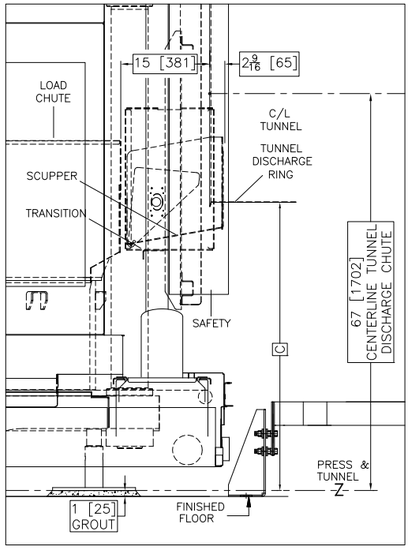


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

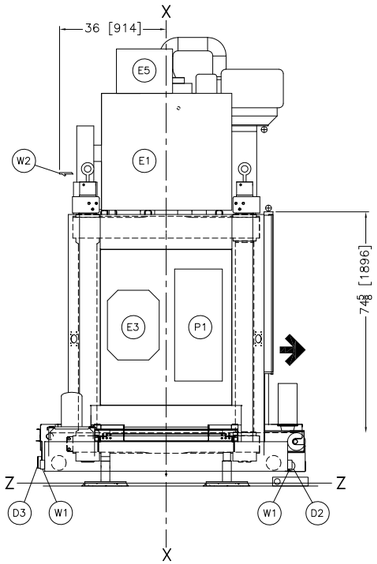
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
4–1/2" FOOT	14	355	62	1575	43 3/4	1111	145 7/16	3694
5–1/2" FOOT	15	381	64	1625	45 3/4	1162	147 7/16	3745
7–1/2" FOOT	17	432	67	1701	48 3/4	1238	150 7/16	3822



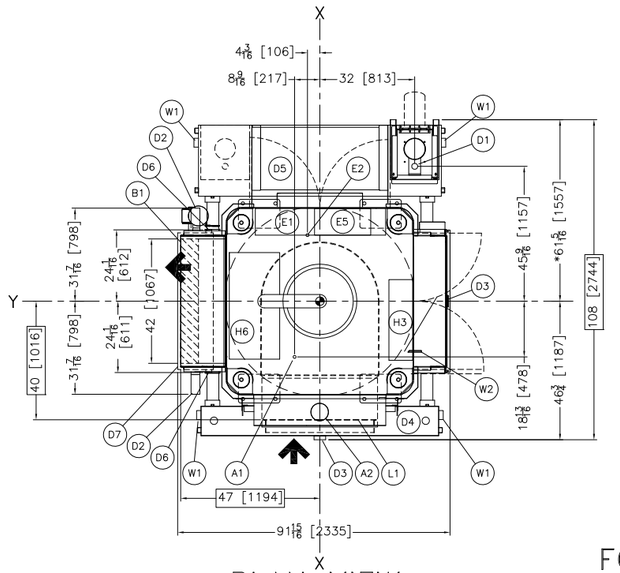
OPTIONAL BELT EXTENSIONS



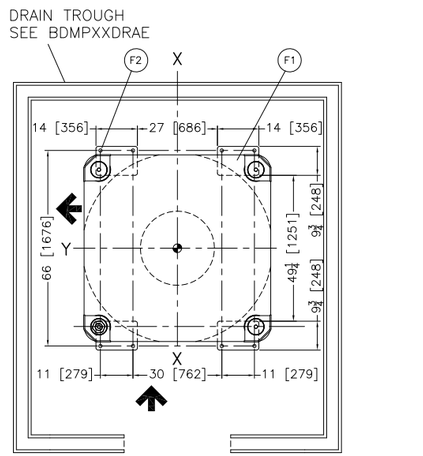
INSTALLATION DETAIL



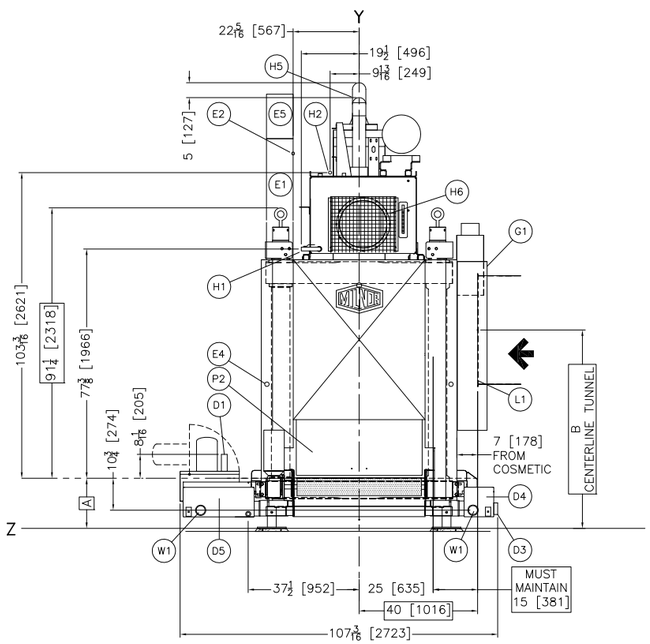
REAR VIEW



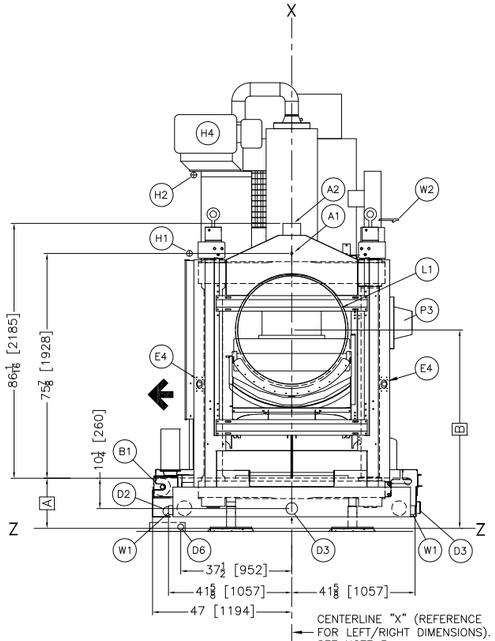
PLAN VIEW



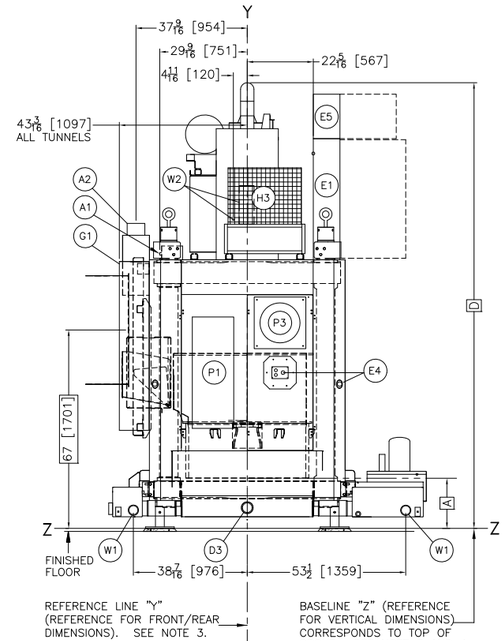
FOUNDATION PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

DRAWING FOR:
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)

W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
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L1	TUNNEL DISCHARGE RING
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G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
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	PER SPECIFICATIONS
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D7	DRIP PAN
D6	2" FNPT PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS,
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D5	24" WIDE REUSE TANK, SEE NOTE 9.
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D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

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MP1540L

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1540LFCE
20141235D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
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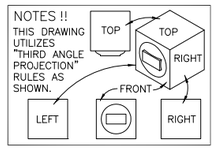

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:	A		B		C		D	
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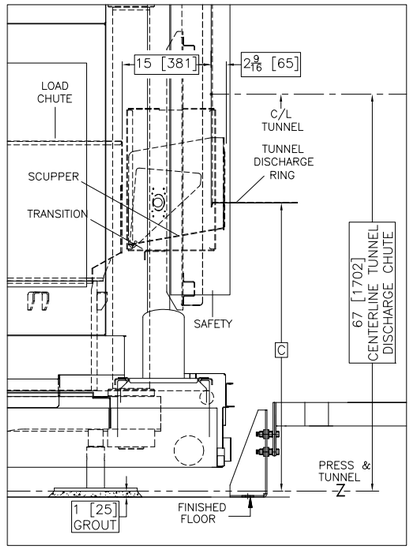
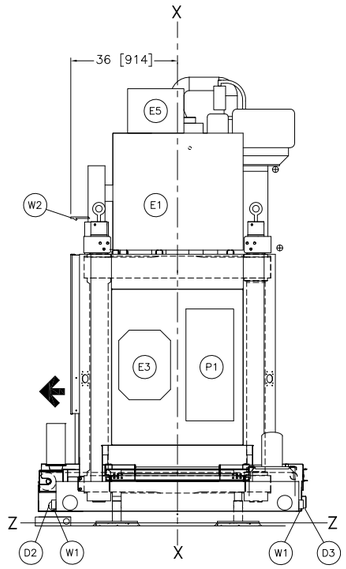
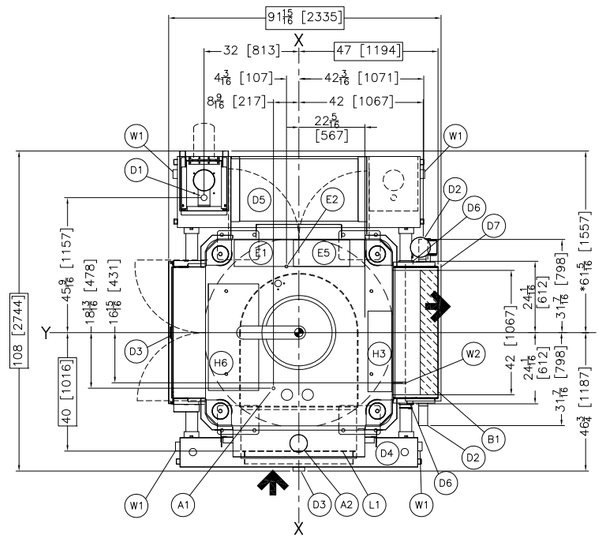
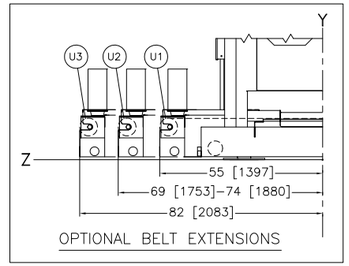
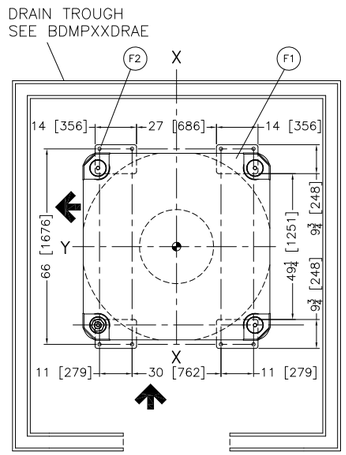


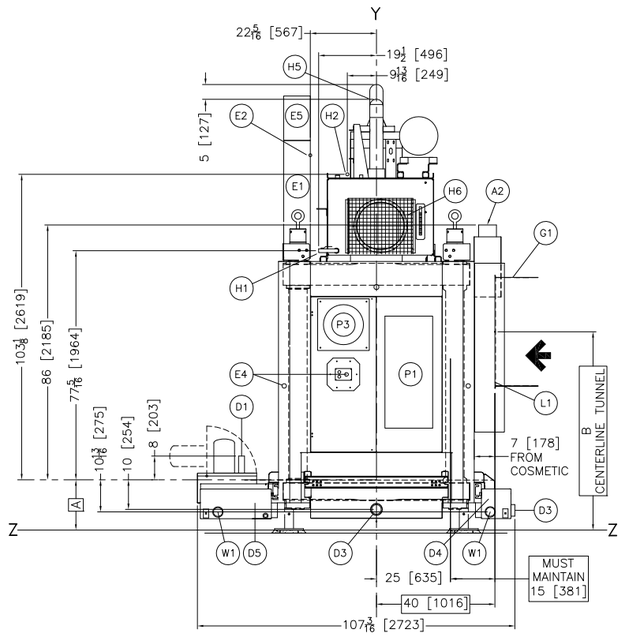
INSTALLATION DETAIL

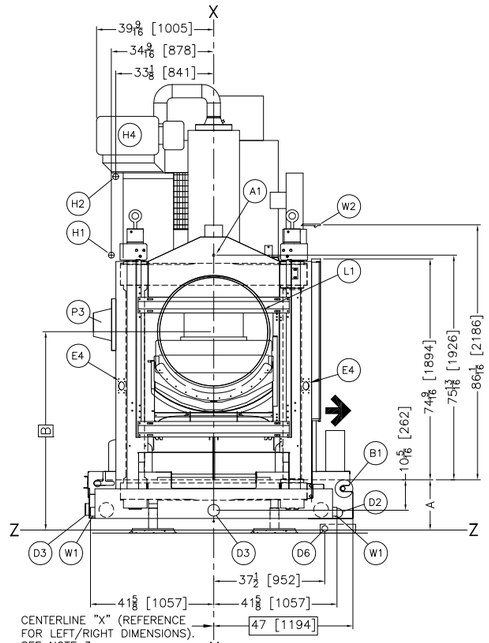


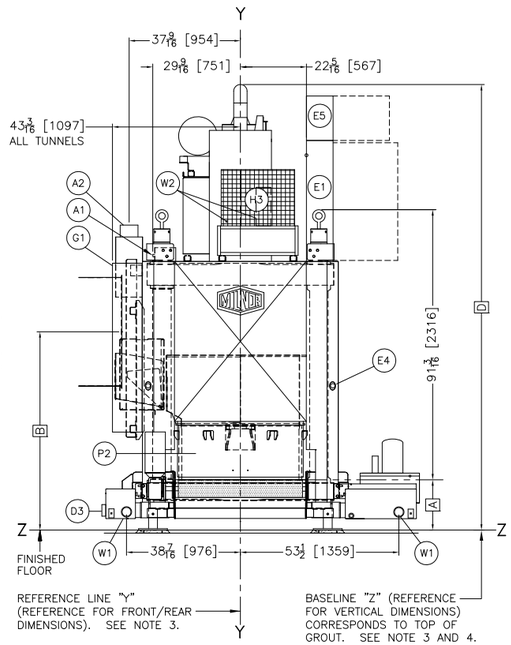












DRAWING FOR:
MP1540R WITH 11 CUBIC FOOT CAN.
CAN HEIGHT 18.50"[470MM]

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

W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
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G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

NOTES

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CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

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ATTENTION

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MP1540R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1540RTCE 2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com

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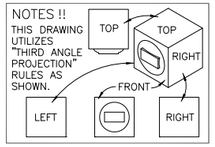
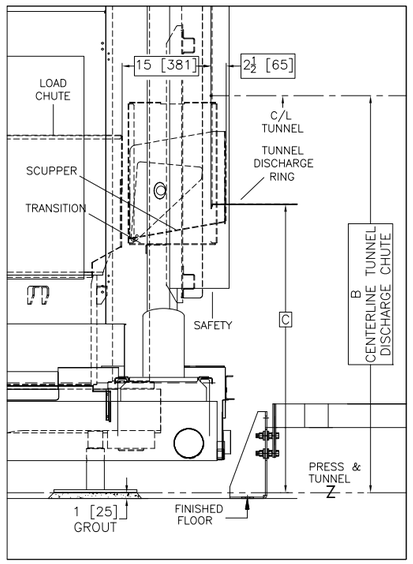
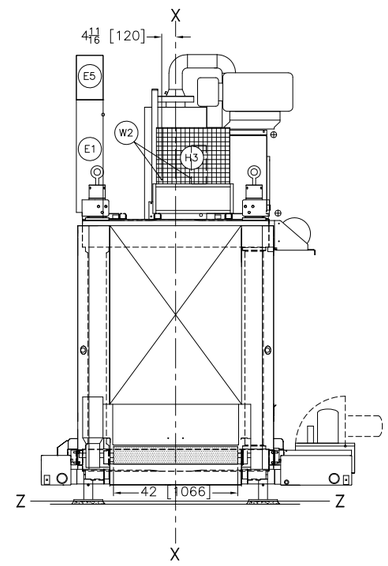


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

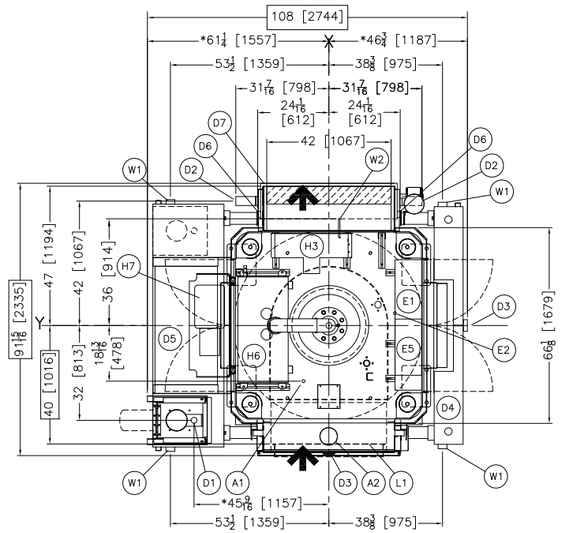
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	14 1/8	359	62	1575	43 3/4	1111	146 1/4	3715
4–1/2" FOOT	15 5/8	397	64	1626	45 3/4	1162	147 3/4	3753
7–1/2" FOOT	18 5/8	473	67	1702	48 3/4	1238	150 3/4	3929



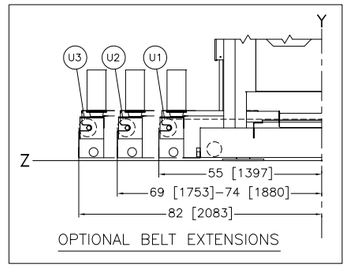
INSTALLATION DETAIL



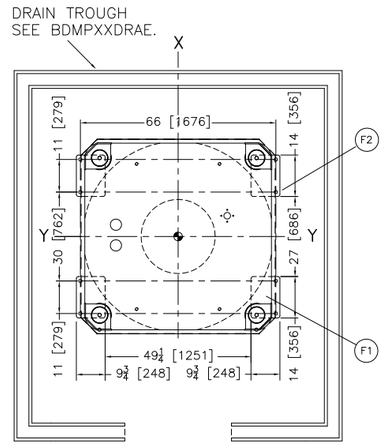
REAR VIEW



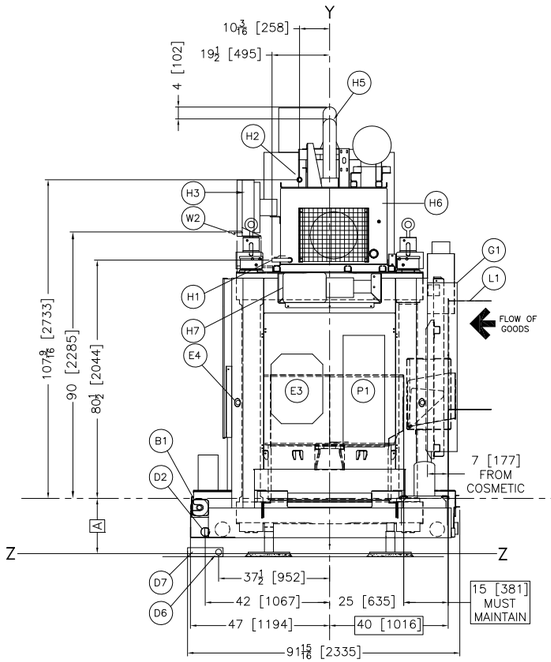
PLAN VIEW



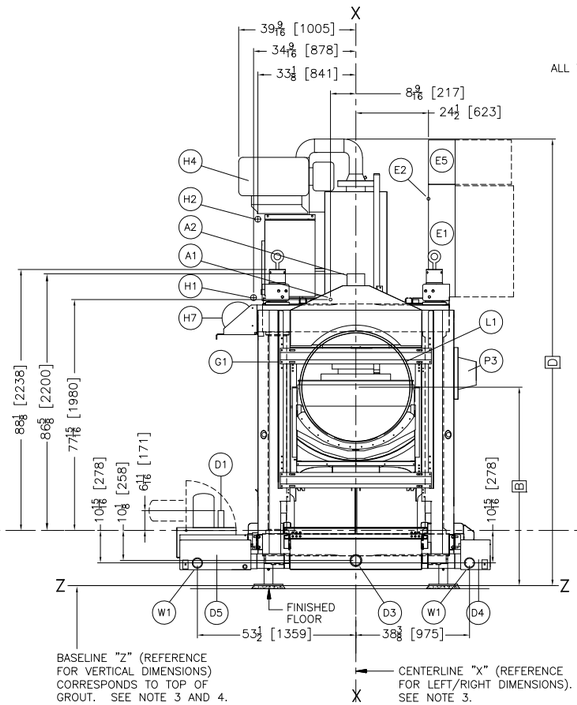
OPTIONAL BELT EXTENSIONS



FOUNDATION PLAN VIEW



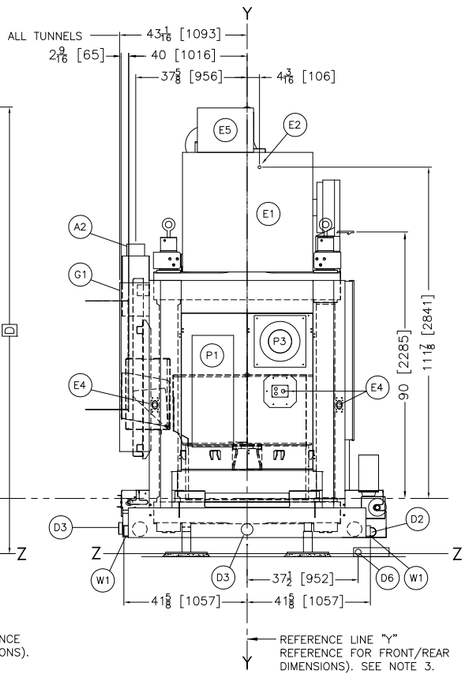
LEFT VIEW



BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) CORRESPONDS TO TOP OF GROUT. SEE NOTE 3 AND 4.

CENTERLINE "X" (REFERENCE FOR LEFT/RIGHT DIMENSIONS). SEE NOTE 3.

FRONT VIEW



REFERENCE LINE "Y" REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.

RIGHT VIEW

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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
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P2	AUTOMATIC DISCHARGE DOOR
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H7	BOOSTER PUMP
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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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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 9.
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B1	DISCHARGE ROLLER
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MP1556CR,CL

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1556CLCE
2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
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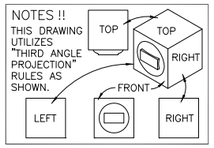

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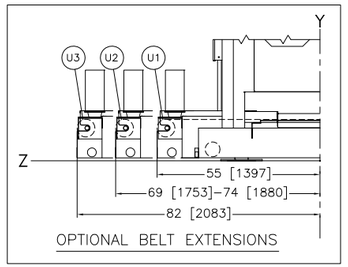

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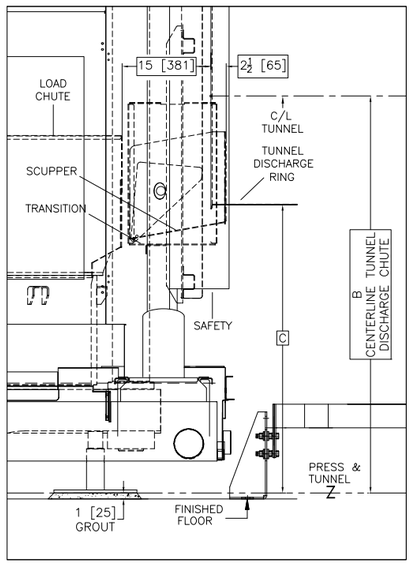
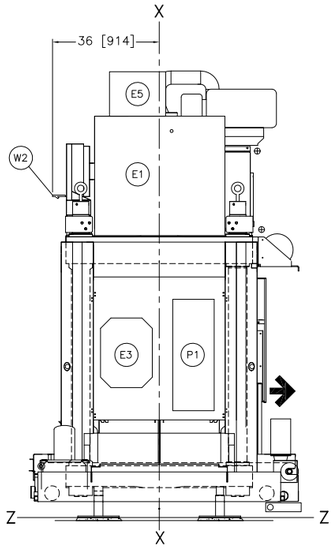


INSTALLATION DETAIL



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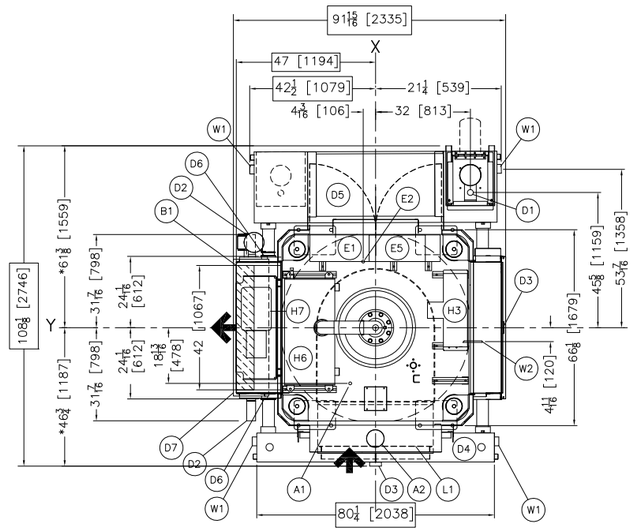
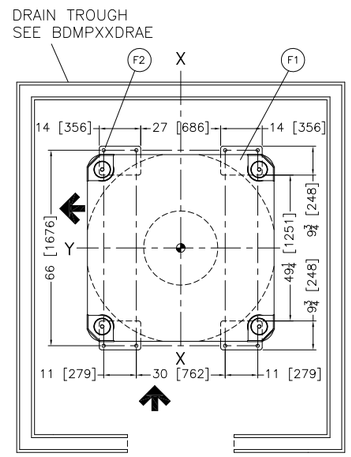
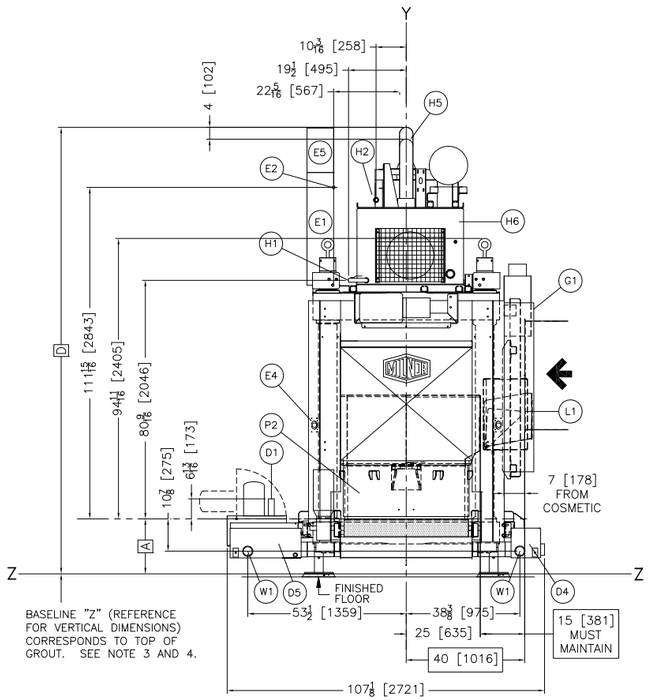


PLAN VIEW



FOUNDATION PLAN



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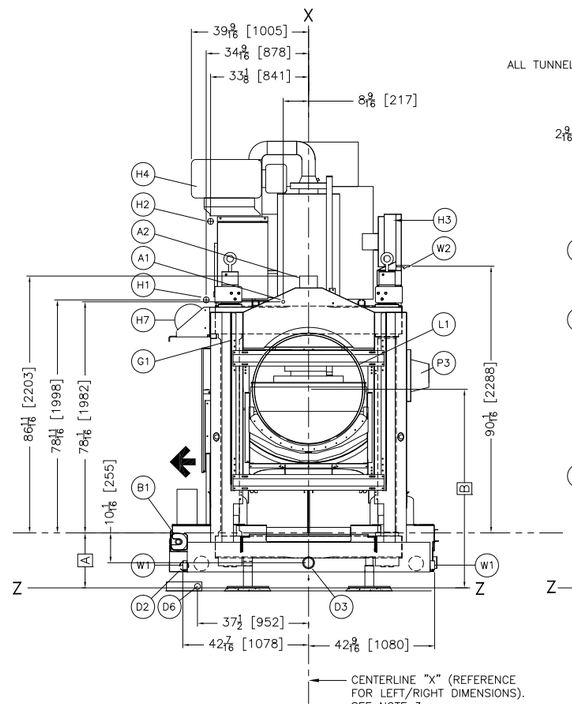

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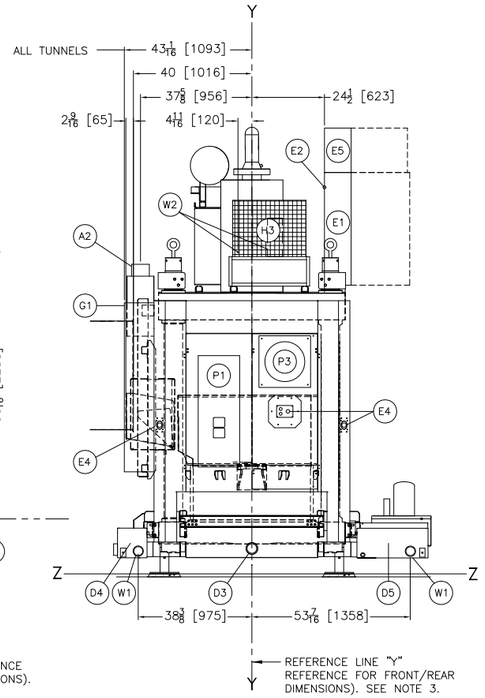

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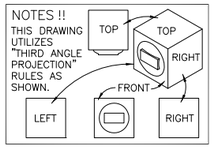
MP1556L

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1556LFCE
2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com

NOTES !!
THIS DRAWING UTILIZES "THIRD ANGLE PROJECTION" RULES AS SHOWN.



DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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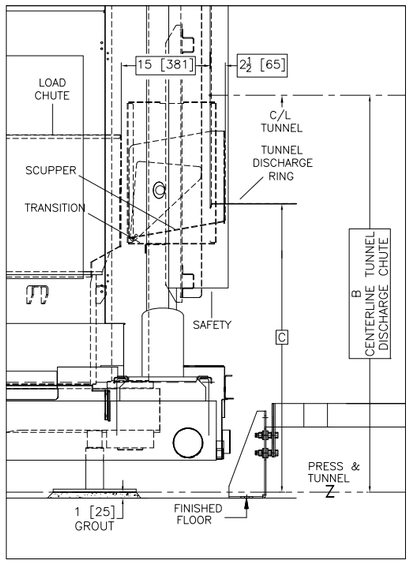
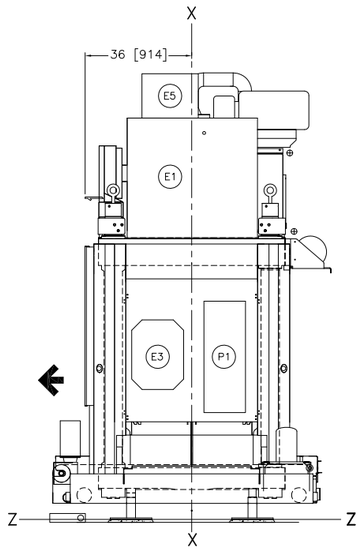
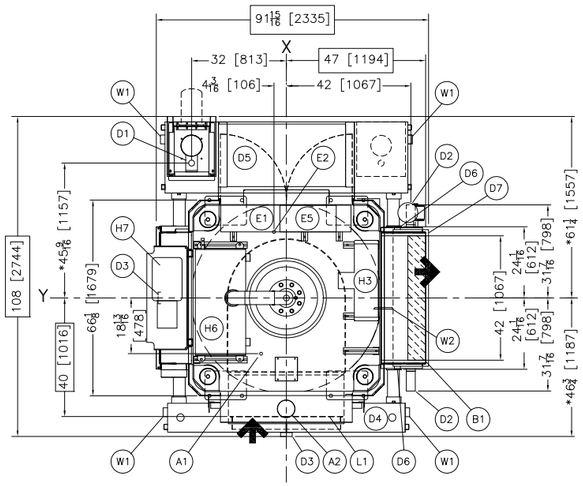


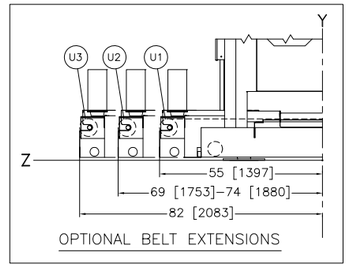
INSTALLATION DETAIL



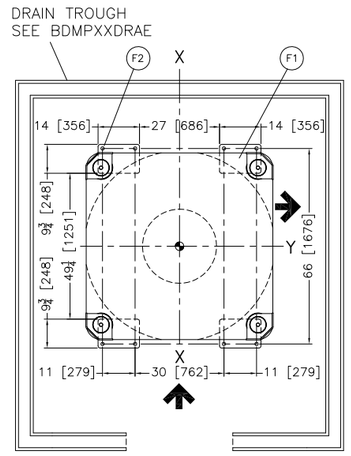
REAR VIEW



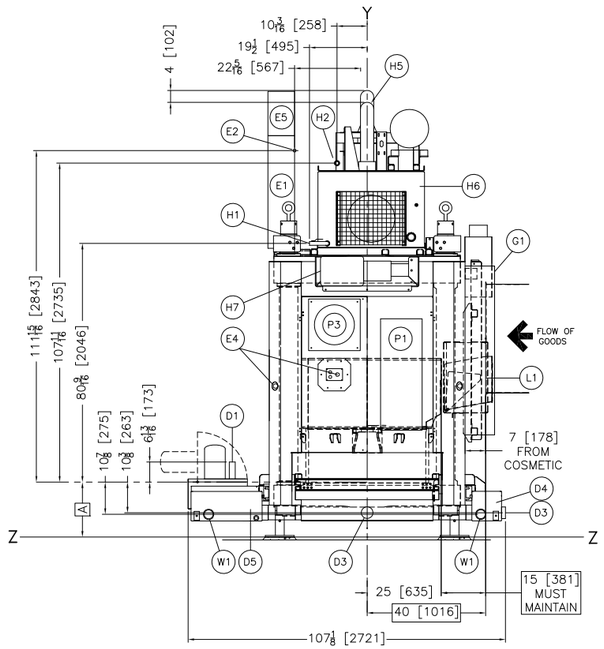
PLAN VIEW



OPTIONAL BELT EXTENSIONS



FOUNDATION PLAN



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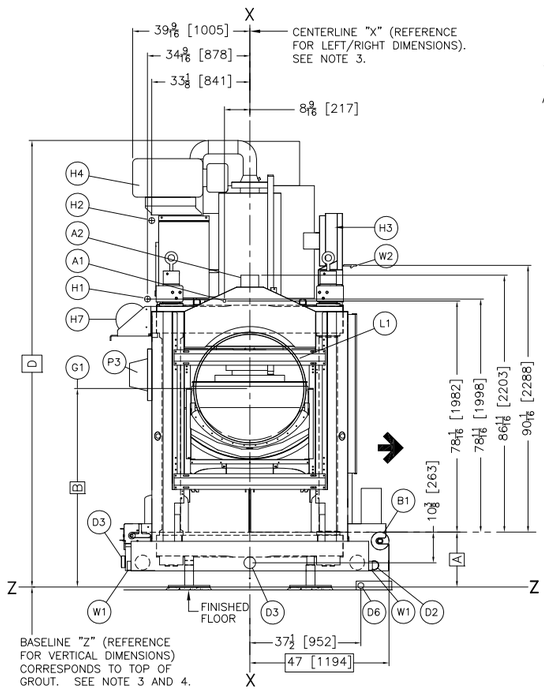

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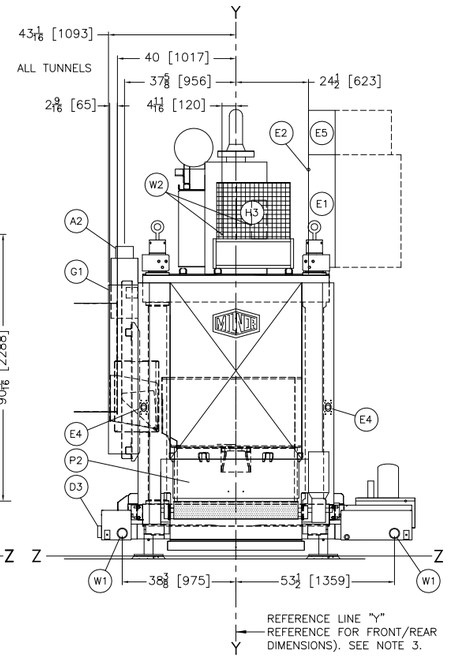

RIGHT VIEW

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)

W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3-1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
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.
L1	TUNNEL DISCHARGE RING
H7	BOOSTER PUMP
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1-1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

NOTES

11 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

10 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.

9 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.

8 NON-STANDARD 11 DEGREE LOADING FOR BOTTOM TRANSFER TUNNELS ONLY.

7 ELECTRICS MAY BE LOCATED ON LEFT SIDE, RIGHT SIDE OR BACK SIDE. THE ELECTRICS LOCATION DEPENDS UPON THE FLOW DIRECTION OF GOODS.

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.

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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.

MP1556R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1556RTCE
2014123D

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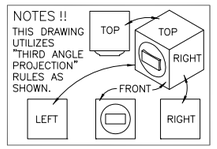

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

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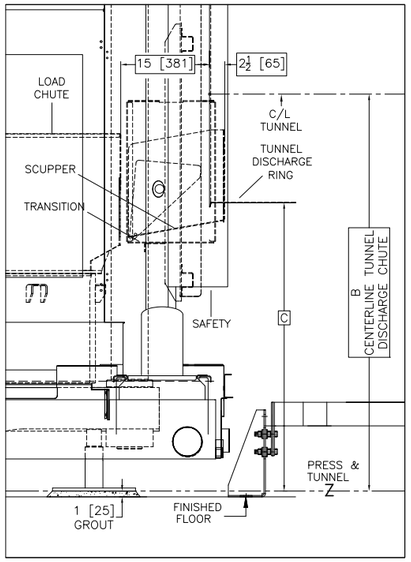
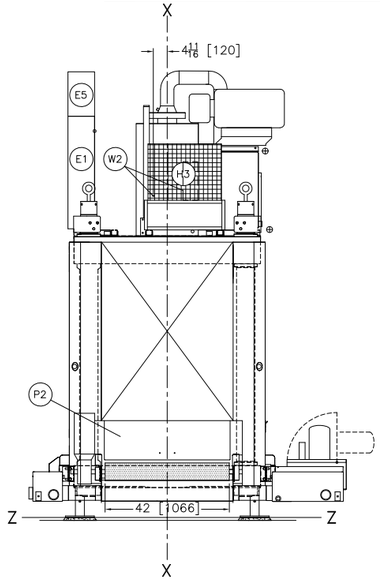
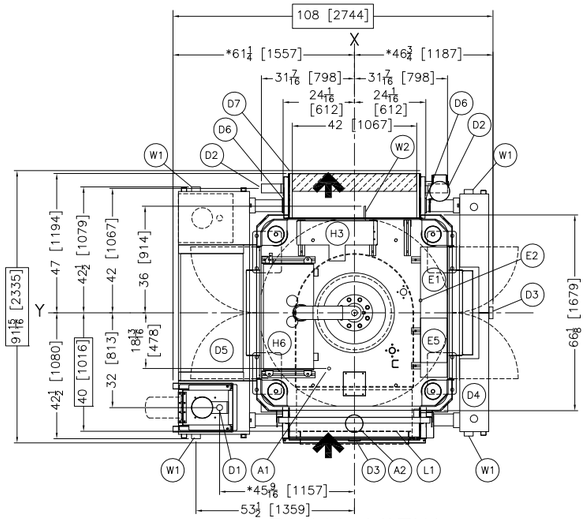


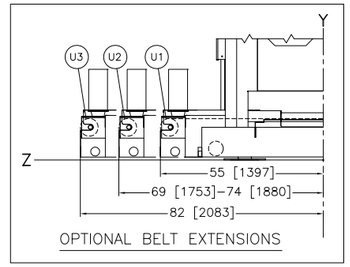
INSTALLATION DETAIL



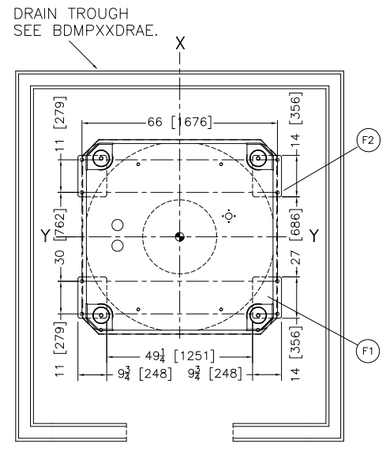
REAR VIEW



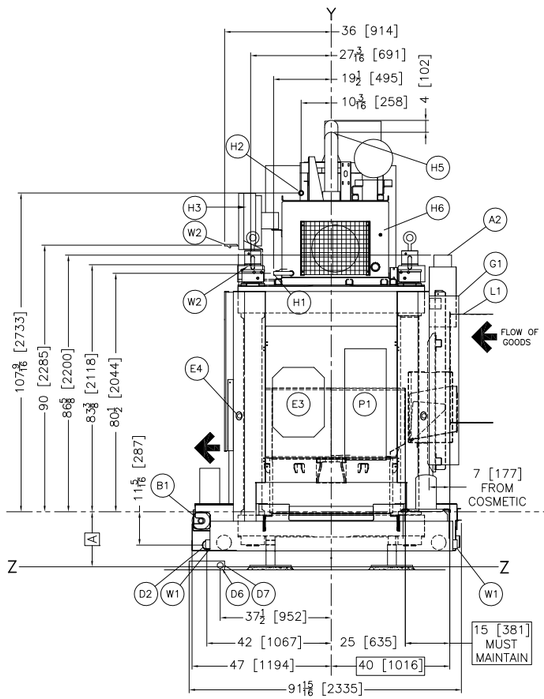
PLAN VIEW



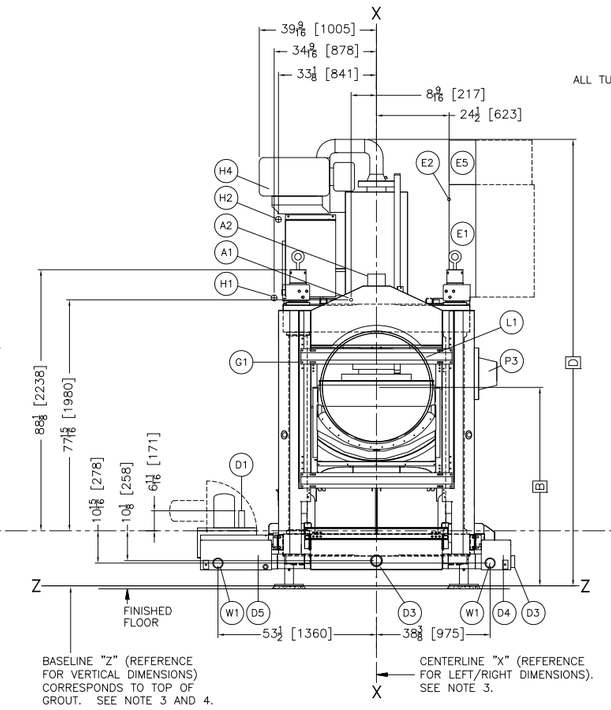
OPTIONAL BELT EXTENSIONS



FOUNDATION PLAN VIEW



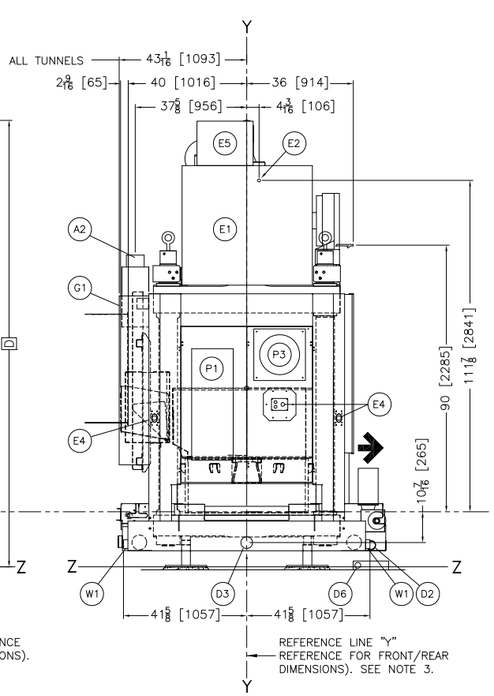
LEFT VIEW



BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) CORRESPONDS TO TOP OF GROUT. SEE NOTE 3 AND 4.

CENTERLINE "X" (REFERENCE FOR LEFT/RIGHT DIMENSIONS). SEE NOTE 3.

FRONT VIEW



REFERENCE LINE "Y" REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.

RIGHT VIEW

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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
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P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
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L1	TUNNEL DISCHARGE RING
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 3/4" FEMALE QUICK CONNECT
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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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G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
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D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
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D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
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D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

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MP1640CL,CR

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INCHES 0 12 24 36

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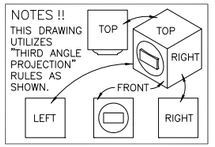

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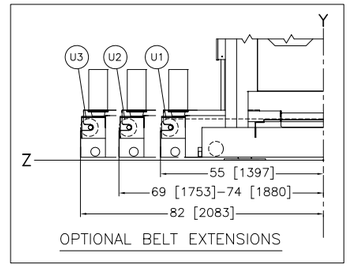

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CAN HEIGHT 21.05"[535MM]

CAPACITY OF DRY LINEN	110-150LB/50-68KG
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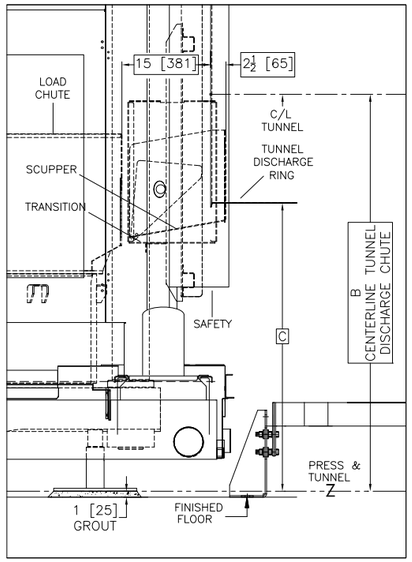

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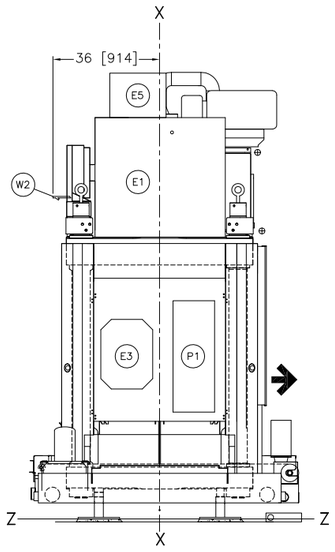

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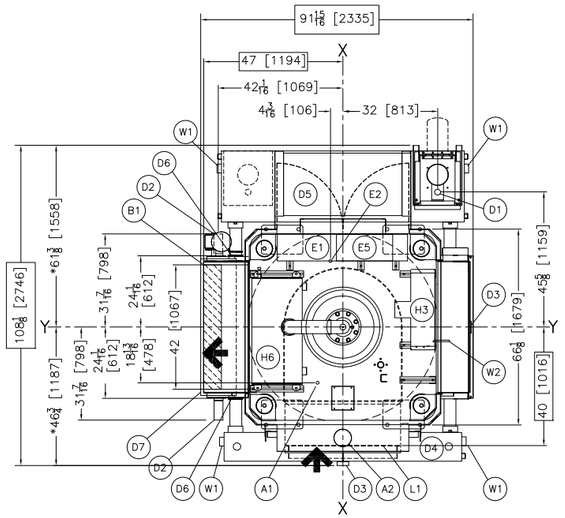

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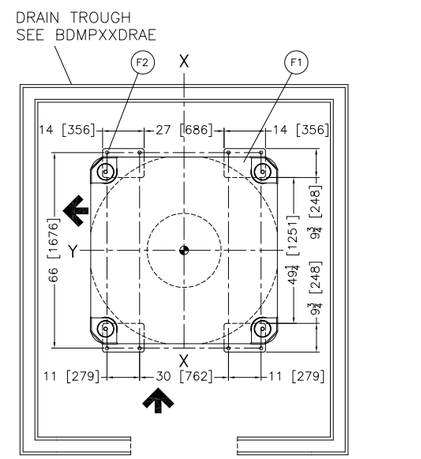

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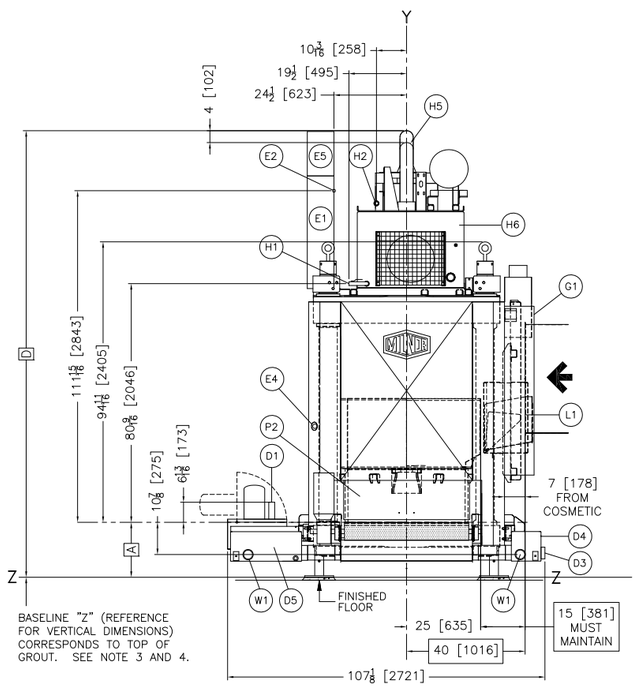
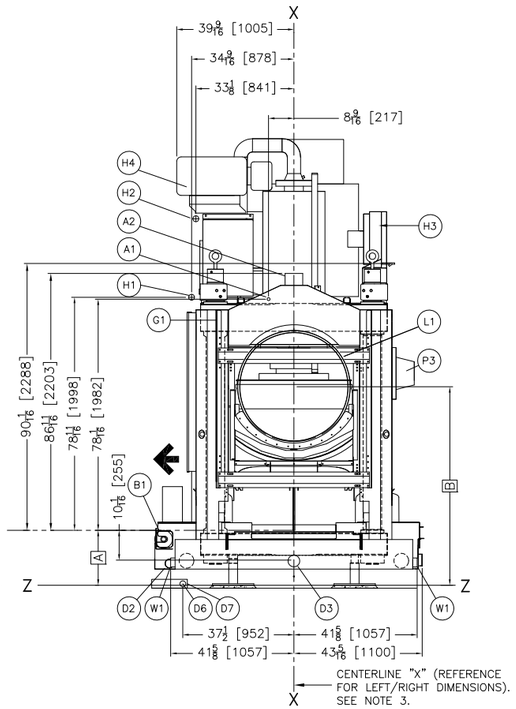
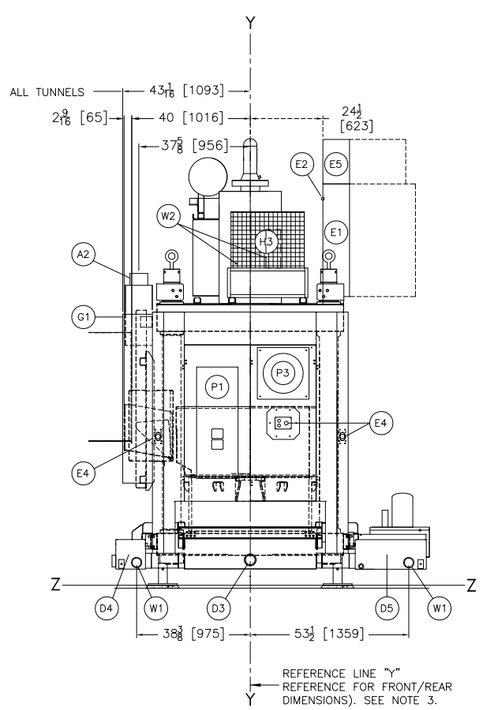
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
L1	TUNNEL DISCHARGE RING
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1-1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND



LEFT VIEW



FRONT VIEW



RIGHT VIEW

NOTES

11 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

10 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.

9 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.

8 NON-STANDARD 11 DEGREE LOADING FOR BOTTOM TRANSFER TUNNELS ONLY.

7 ELECTRICS MAY BE LOCATED ON LEFT SIDE, RIGHT SIDE OR BACK SIDE. THE ELECTRICS LOCATION DEPENDS UPON THE FLOW DIRECTION OF GOODS.

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.

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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.

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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.

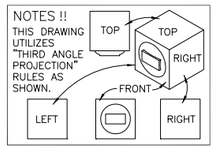
MP1640L

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1640LFEE 2014123D

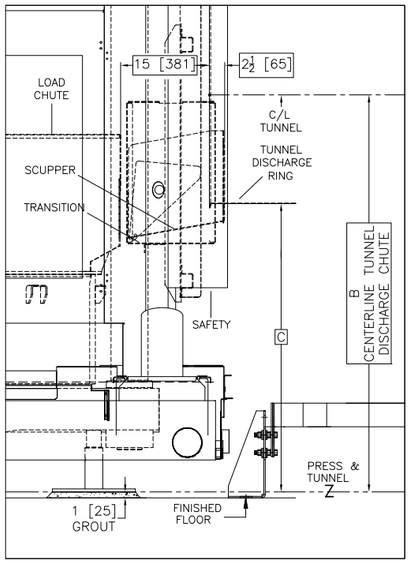
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com

NOTES !!
THIS DRAWING UTILIZES "THIRD ANGLE PROJECTION" RULES AS SHOWN.

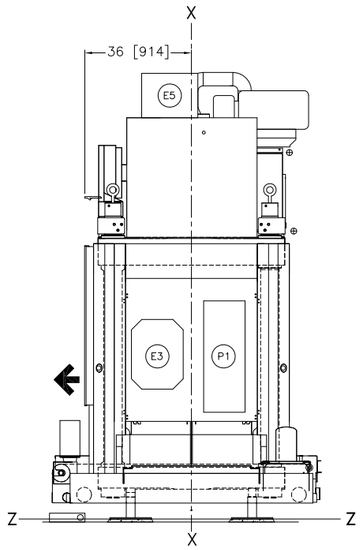


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

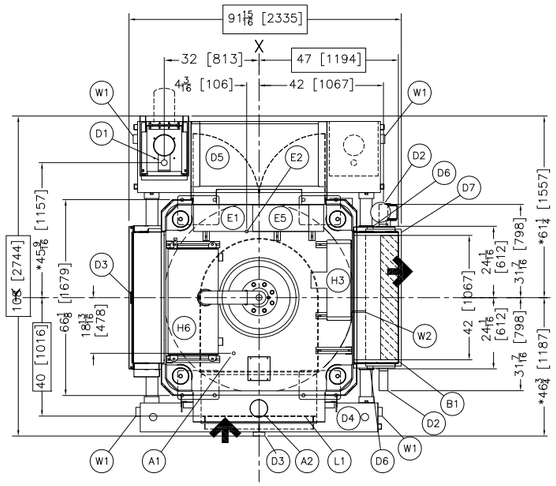
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	14 1/8	359	62	1575	43 3/4	1111	146 1/4	3715
4-1/2" FOOT	15 5/8	397	64	1626	45 3/4	1162	147 3/4	3753
7-1/2" FOOT	18 5/8	473	67	1702	48 3/4	1238	150 3/4	3929



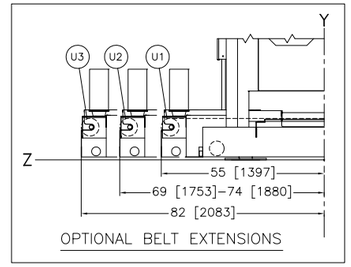
INSTALLATION DETAIL



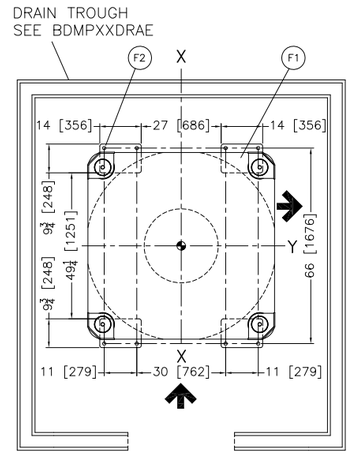
REAR VIEW



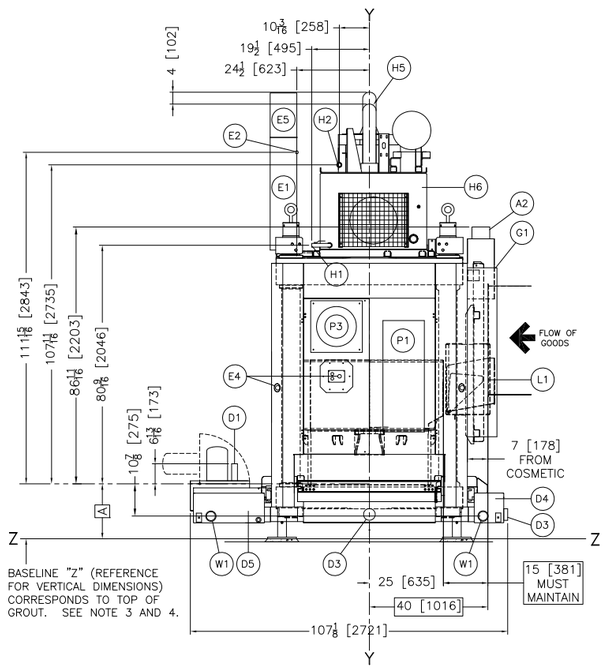
PLAN VIEW



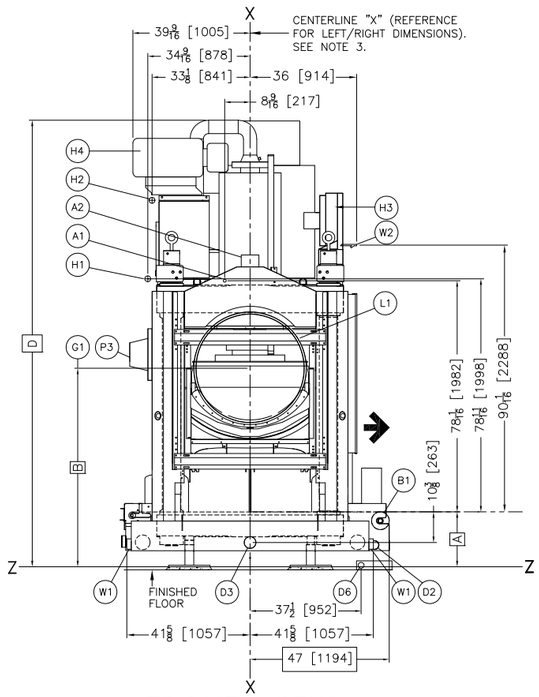
OPTIONAL BELT EXTENSIONS



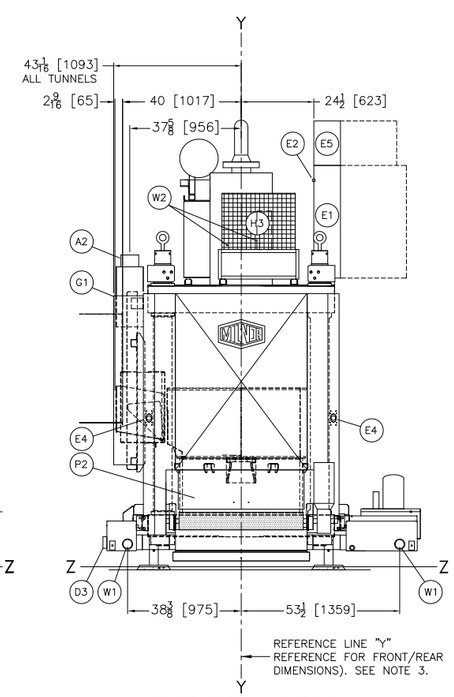
FOUNDATION PLAN



LEFT VIEW



FRONT VIEW



RIGHT VIEW

DRAWING FOR:
MP1640R 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)

W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
U2	OPTIONAL 24"[610] CONVEYOR EXTENSION [DISCHARGE END].
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L1	TUNNEL DISCHARGE RING
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F2	1 1/8"[29] DIAMETER ANCHOR BOLT HOLES, USE MINIMUM
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G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

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MP1640R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1640RTEE
2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com

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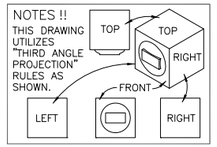

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
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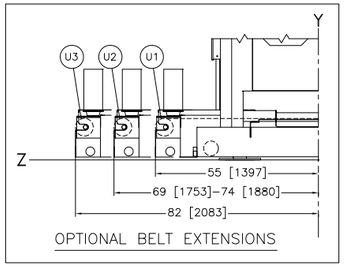
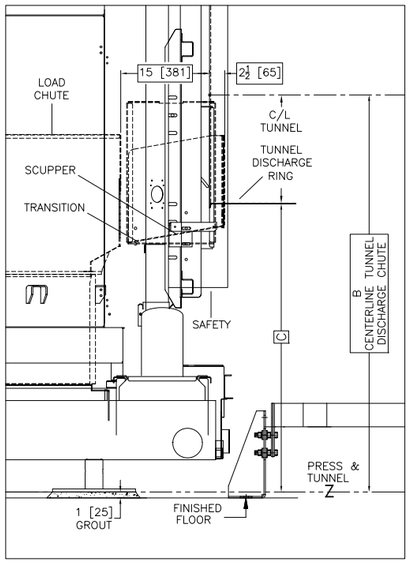
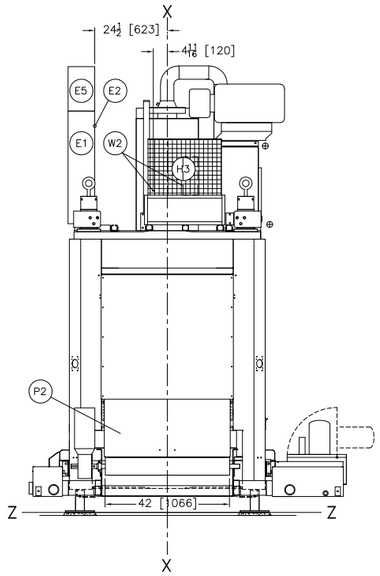


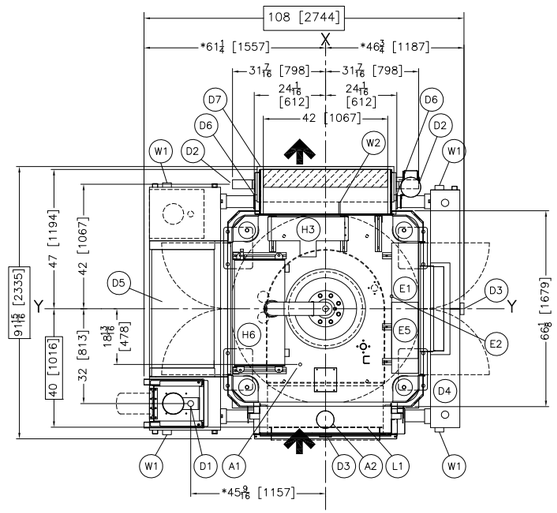
OPTIONAL BELT EXTENSIONS



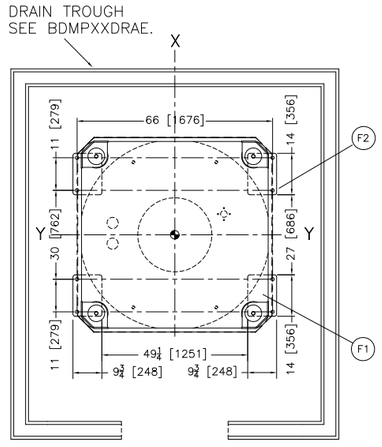
INSTALLATION DETAIL



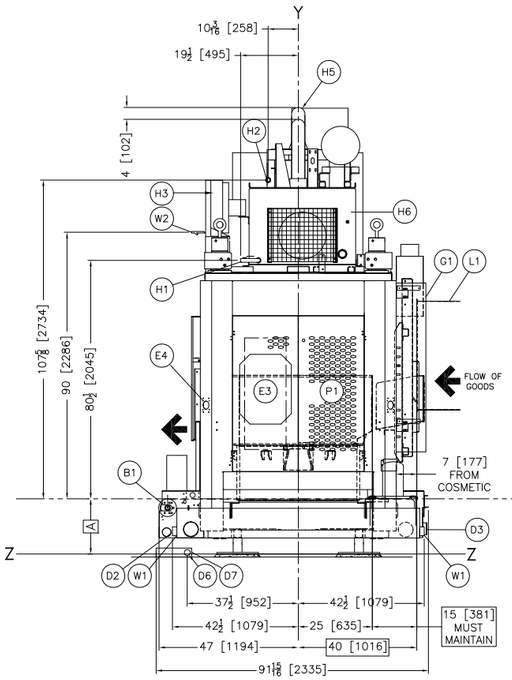
REAR VIEW



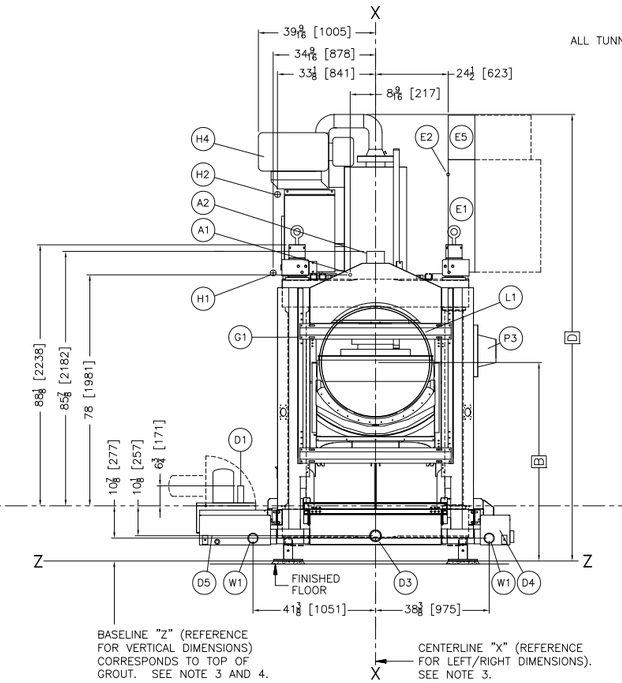
PLAN VIEW



FOUNDATION PLAN VIEW



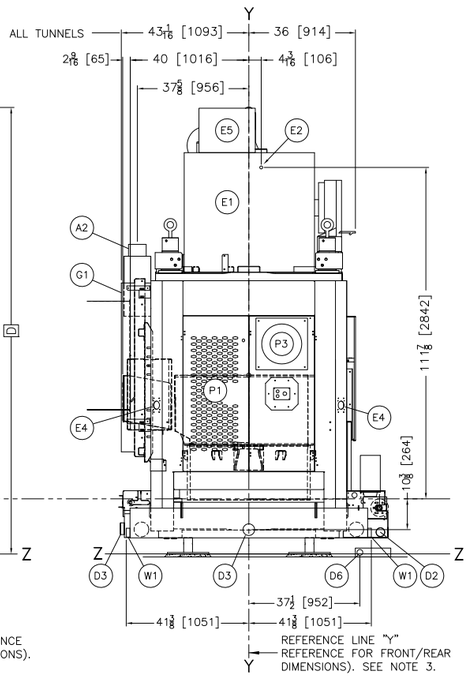
LEFT VIEW



BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) CORRESPONDS TO TOP OF GROUT. SEE NOTE 3 AND 4.

CENTERLINE "X" (REFERENCE FOR LEFT/RIGHT DIMENSIONS). SEE NOTE 3.

FRONT VIEW



REFERENCE LINE "Y" REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.

RIGHT VIEW

DRAWING FOR:
MP1650CR,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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
U3	OPTIONAL 35"[889] CONVEYOR EXTENSION [DISCHARGE END].
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D5	24" WIDE REUSE TANK, SEE NOTE 9.
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D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

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MP1650CL,CR

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1650CLEE 2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com

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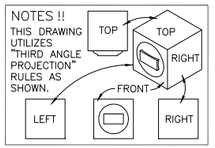
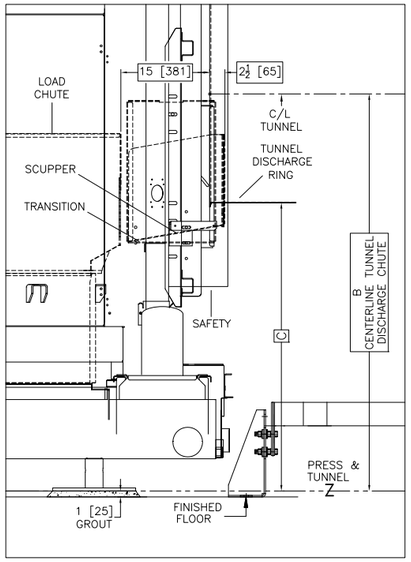
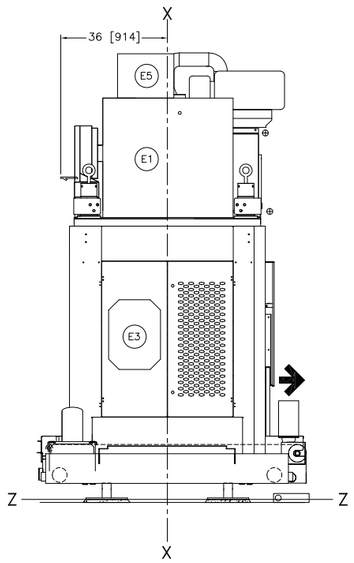


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

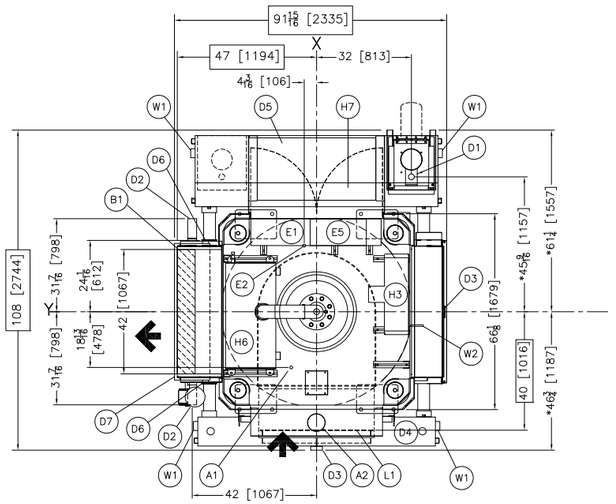
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	16 1/8	410	64	1626	45 3/4	1162	148 1/4	3766
5–1/2" FOOT	18 5/8	473	67	1702	48 3/4	1238	150 3/4	3929



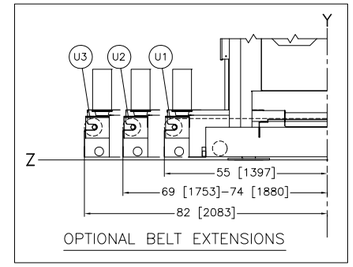
INSTALLATION DETAIL



REAR VIEW



PLAN VIEW



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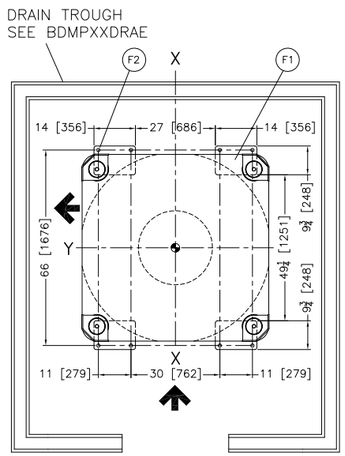
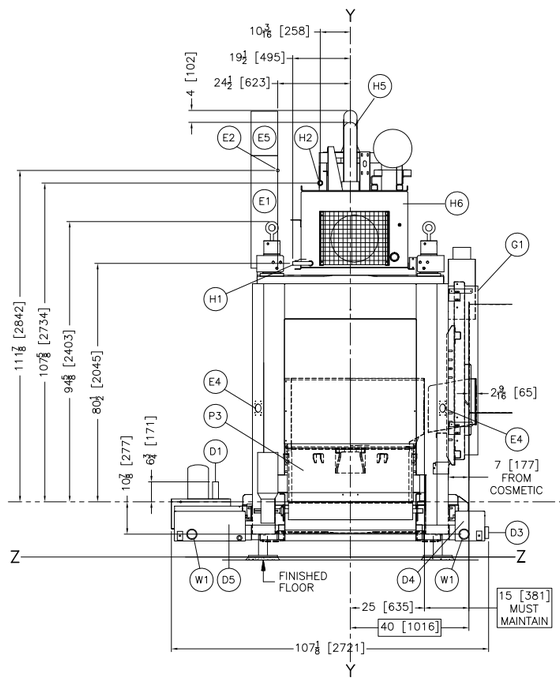


FOUNDATION PLAN



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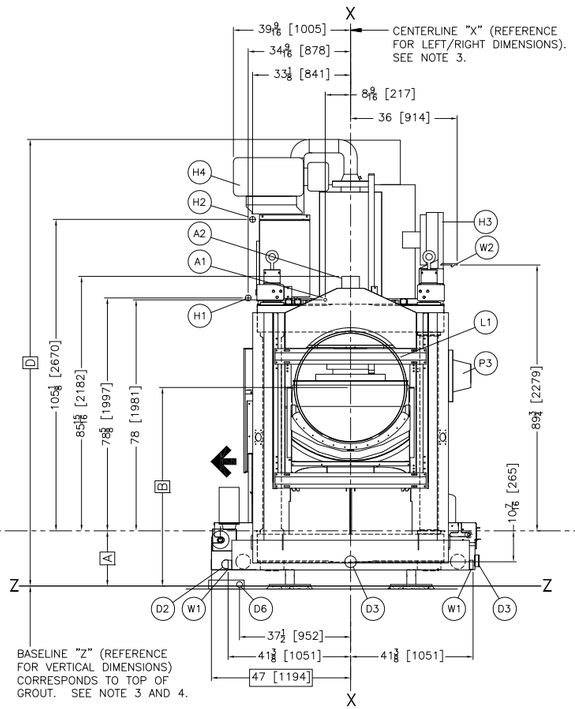
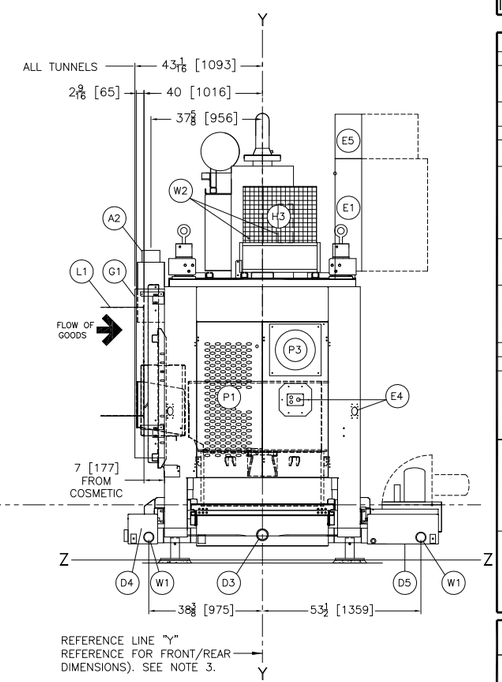


FRONT VIEW



RIGHT VIEW

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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
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.
L1	TUNNEL DISCHARGE RING
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
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H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
E3	MICROPROCESSOR CONTROLS
E2	MAIN ELECTRICAL CONNECTION, INTO MAIN ELECTRICAL BOX
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D7	DRIP PAN
D6	2" FNPT PIPE TO DRAIN, 2 AVAILABLE CONNECTIONS,
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D5	24" WIDE REUSE TANK, SEE NOTE 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
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D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
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D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

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MP1650L

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1650LFEE 2014123D

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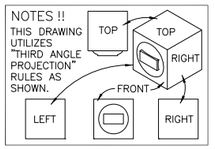

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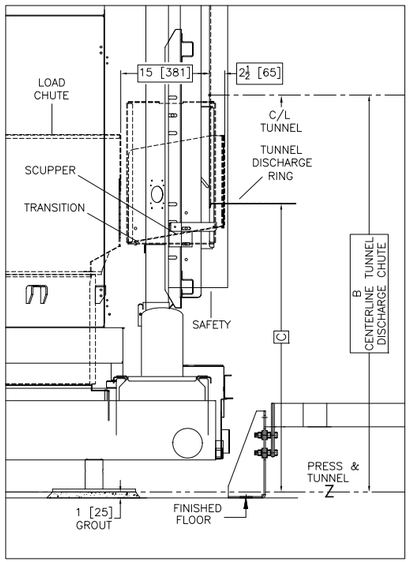

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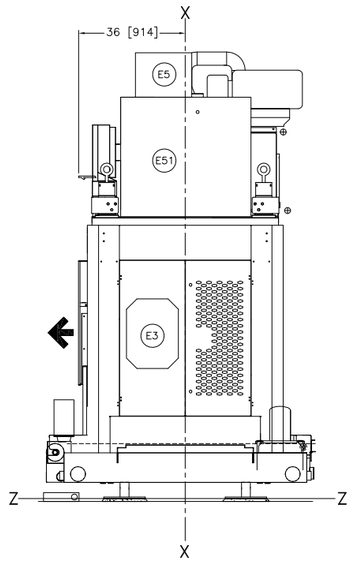

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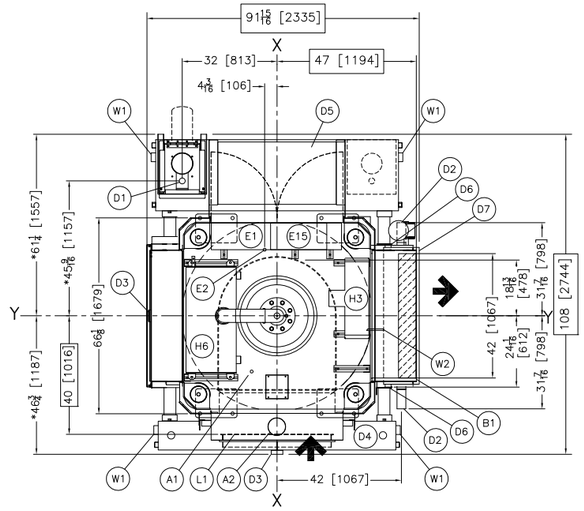

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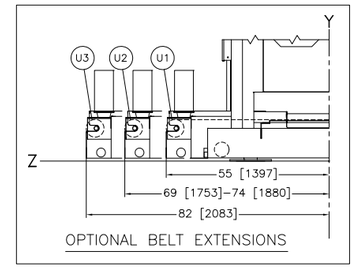

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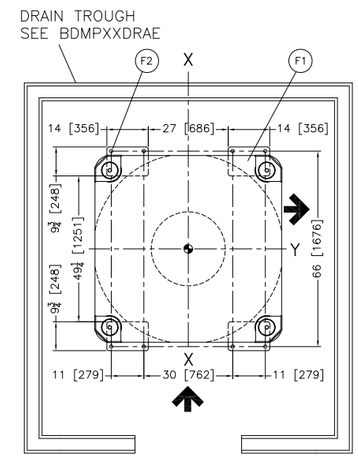

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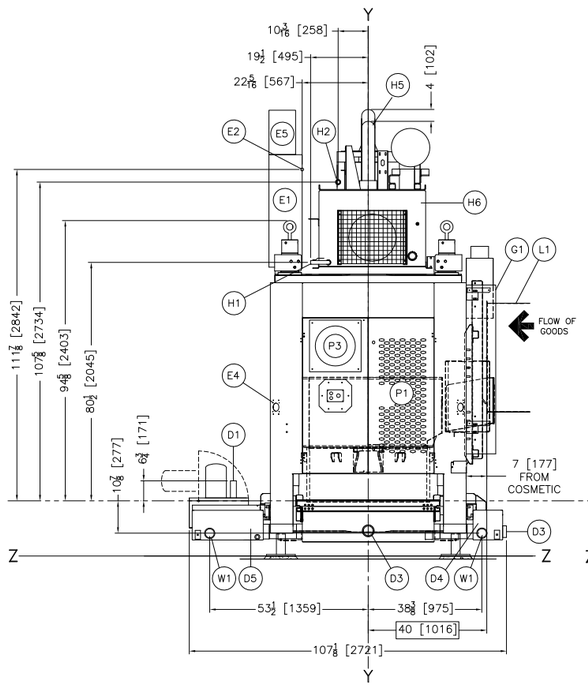

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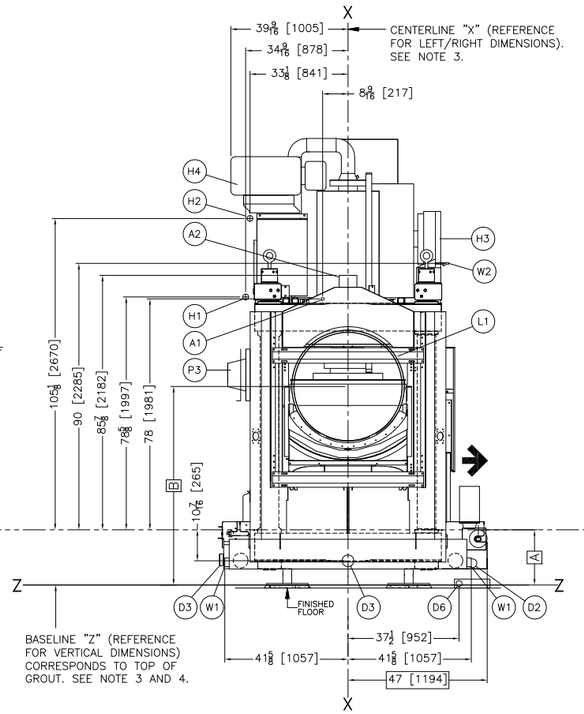

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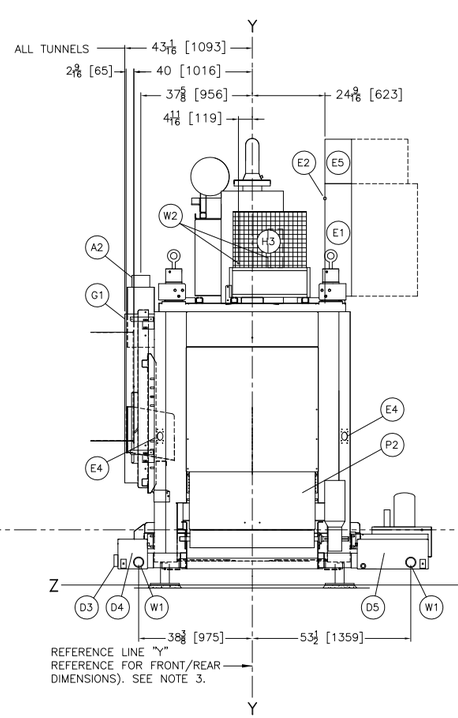

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CAN HEIGHT 21.05"[535MM]

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

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MP1650R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1650RTEE 2014123D

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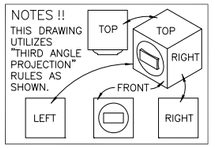

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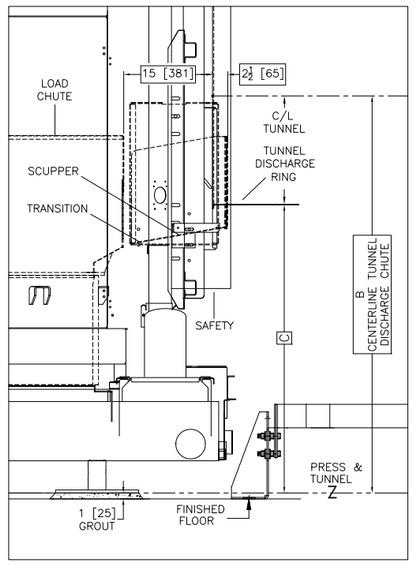
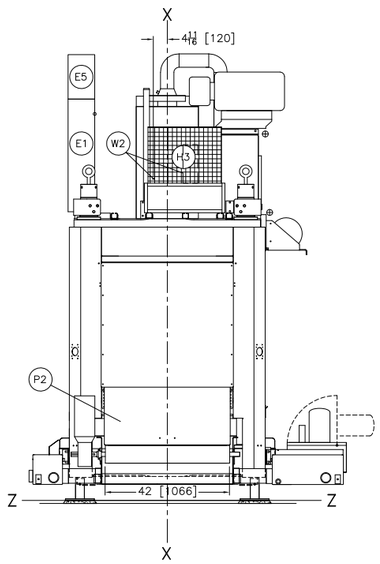
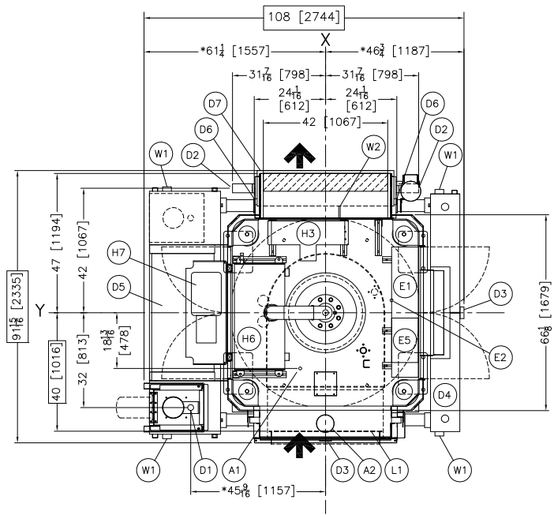


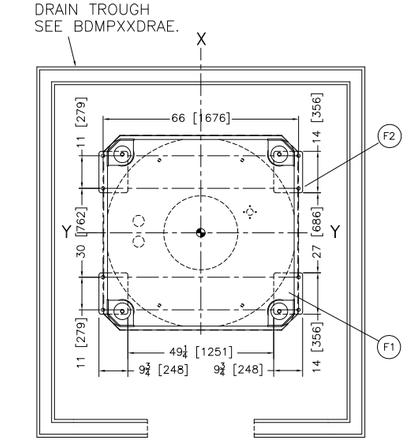
INSTALLATION DETAIL



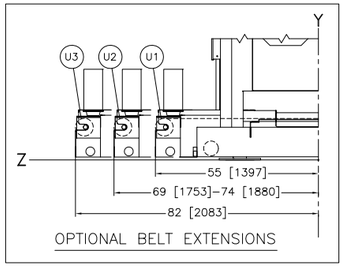
REAR VIEW



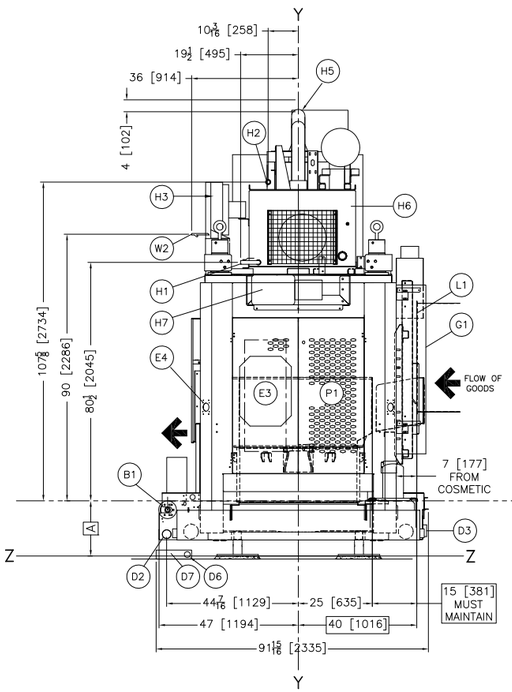
PLAN VIEW



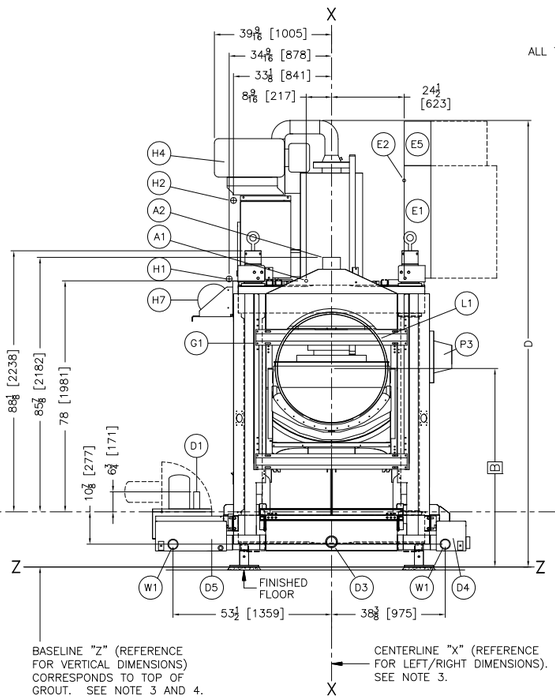
FOUNDATION PLAN VIEW



OPTIONAL BELT EXTENSIONS



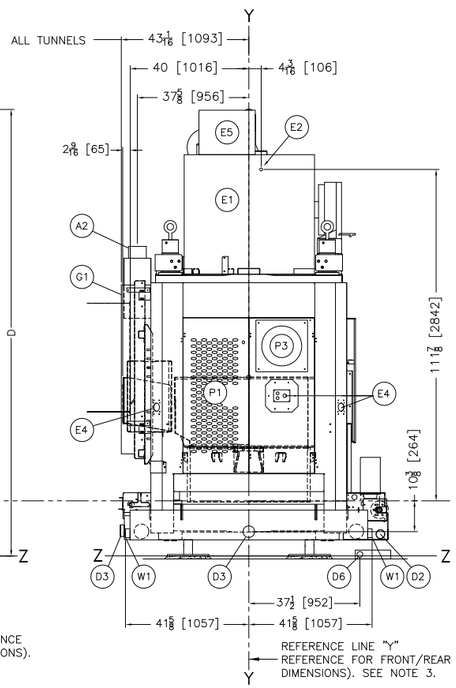
LEFT VIEW



BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) CORRESPONDS TO TOP OF GROUT. SEE NOTE 3 AND 4.

CENTERLINE "X" (REFERENCE FOR LEFT/RIGHT DIMENSIONS). SEE NOTE 3.

FRONT VIEW



REFERENCE LINE "Y" REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.

RIGHT VIEW

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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
	LOCATIONS.
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.
L1	TUNNEL DISCHARGE RING
H7	BOOSTER PUMP, STANDARD
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

11 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

10 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.

9 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.

8 NON-STANDARD 11 DEGREE LOADING FOR BOTTOM TRANSFER TUNNELS ONLY.

7 ELECTRICS MAY BE LOCATED ON LEFT SIDE, RIGHT SIDE OR BACK SIDE. THE ELECTRICS LOCATION DEPENDS UPON THE FLOW DIRECTION OF GOODS.

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.

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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.

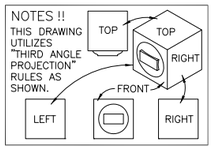
MP1656CL,CR

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1656CLEE 2014123D

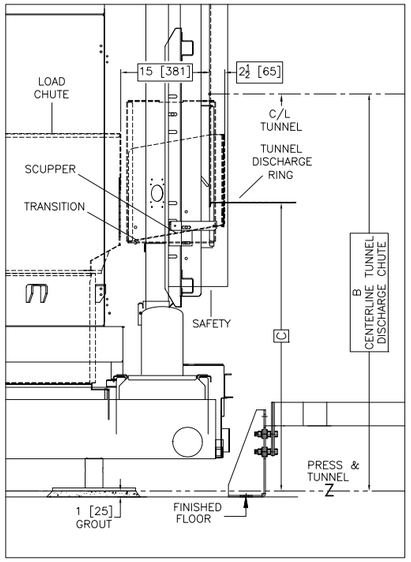
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com

NOTES !!
THIS DRAWING UTILIZES "THIRD ANGLE PROJECTION" RULES AS SHOWN.

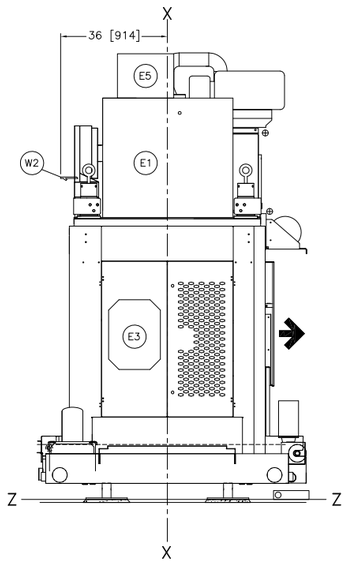


DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

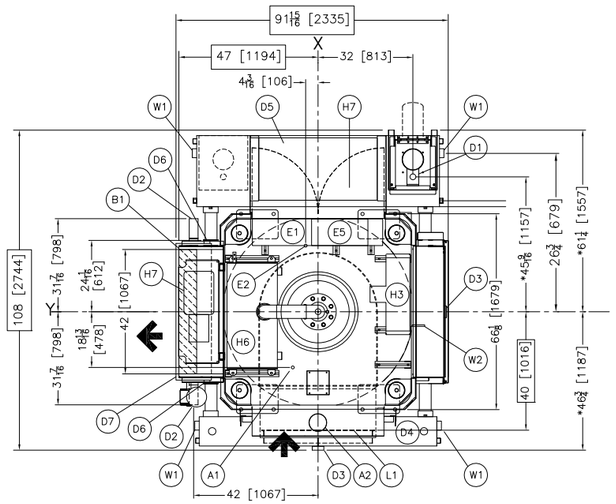
	A		B		C		D	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
3" FOOT	16 1/8	410	64	1626	45 3/4	1162	148 1/4	3766
5-1/2" FOOT	18 5/8	473	67	1702	48 3/4	1238	150 3/4	3929



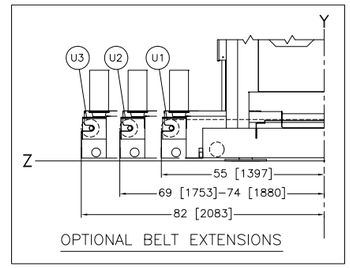
INSTALLATION DETAIL



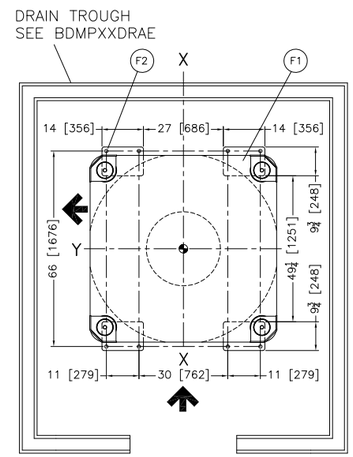
REAR VIEW



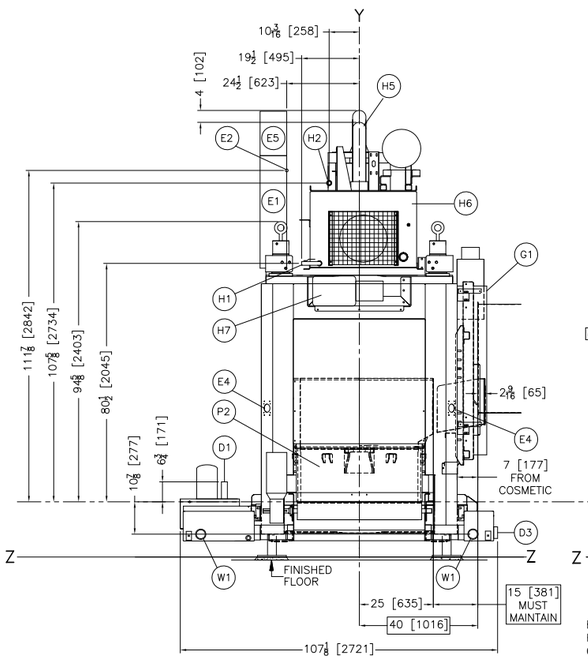
PLAN VIEW



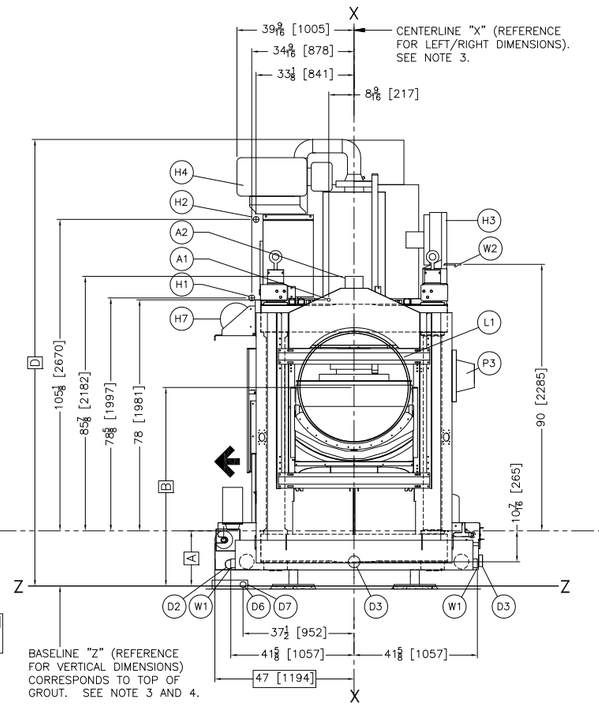
OPTIONAL BELT EXTENSIONS



FOUNDATION PLAN

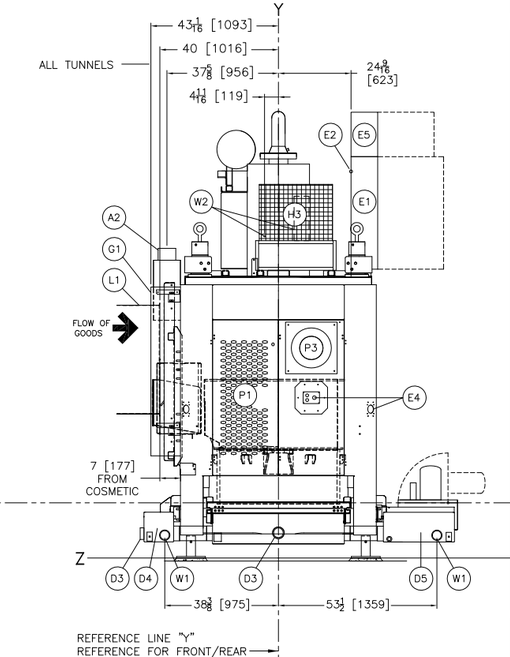


LEFT VIEW



BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) CORRESPONDS TO TOP OF GROUT. SEE NOTE 3 AND 4.

FRONT VIEW



REFERENCE LINE "Y" REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.

RIGHT VIEW

DRAWING FOR:
MP1656L 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)

ITEM	LEGEND
W2	OPTIONAL WATER COOLED PRESS, 1/2" NPT CONNECTION
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	CONNECTION, SUPPLIED BY PMC. CONNECT TO 1 OF 4
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	5/8" X 6" BOLTS MINIMUM. (1) BOLT PER PAD MINIMUM.
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E5	DOOR FAN ELECTRICAL BOX
E4	EMERGENCY STOP BUTTONS, (ONE AT EACH CORNER.)
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B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
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MP1656L

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1656LFEE 2014123D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com

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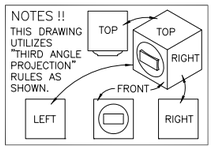

DIMENSIONS THAT VARY WITH PRESS FOOT SPECIFIED:

	A		B		C		D	
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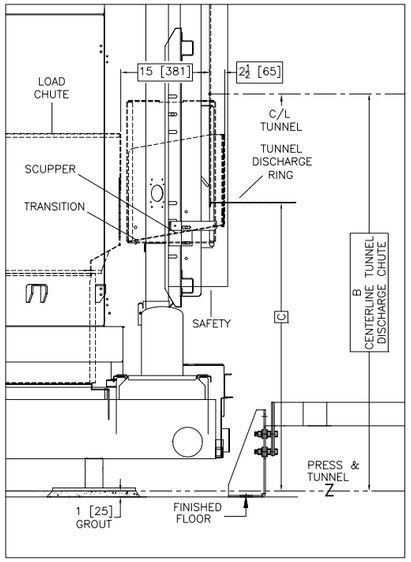

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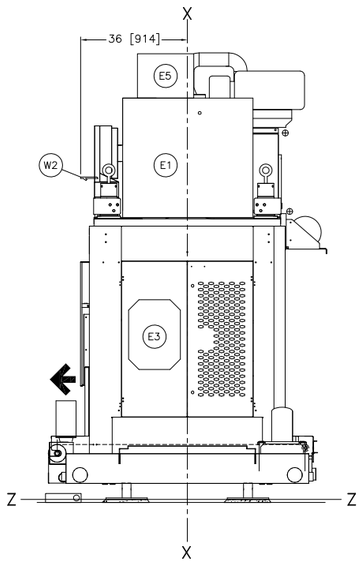

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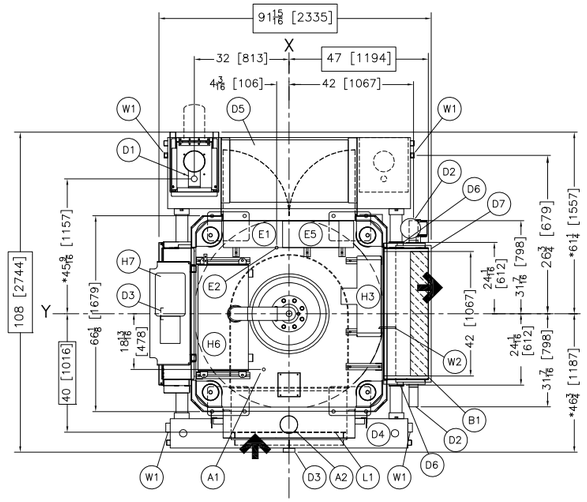
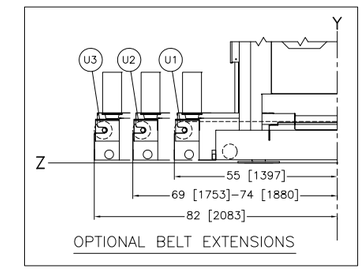


PLAN VIEW



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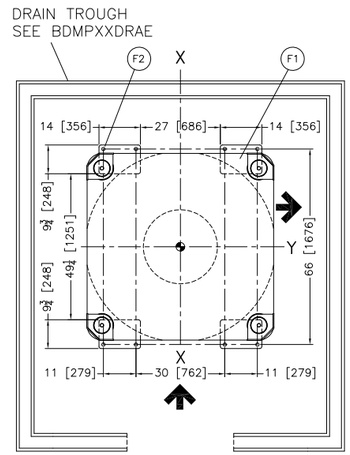
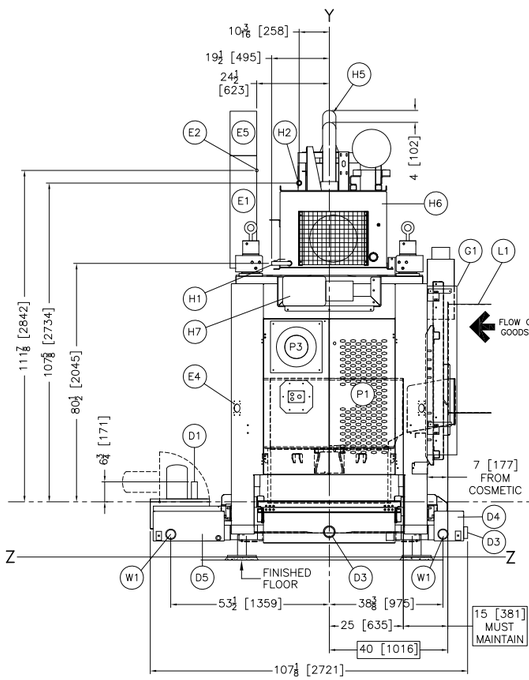


FOUNDATION PLAN



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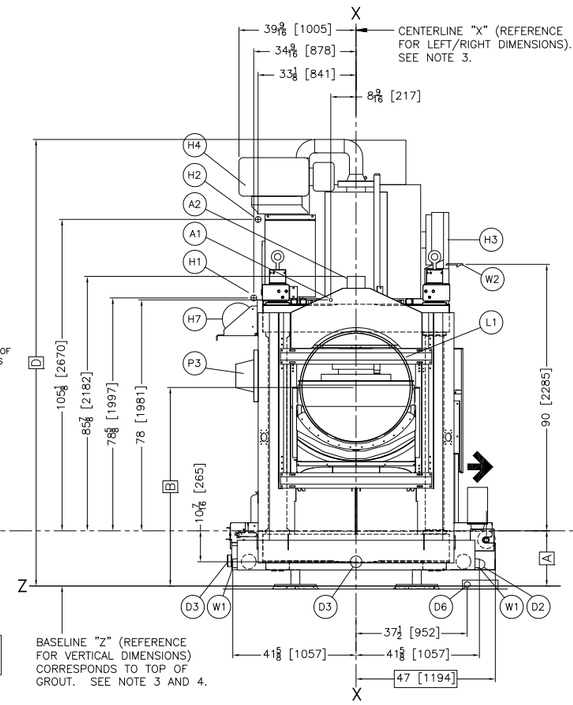

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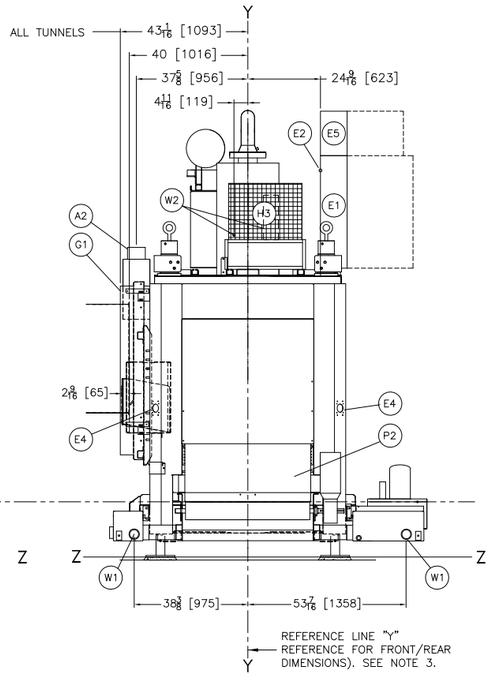

RIGHT VIEW

DRAWING FOR:
MP1656R 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)

ITEM	LEGEND
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W1	WATER FROM LAST MODULE OF TUNNEL, 3–1/2" HOSE
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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.
L1	TUNNEL DISCHARGE RING
H7	BOOSTER PUMP, STANDARD
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 3/4" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 3/4" MALE QUICK CONNECT
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.
G1	LOAD CHUTE SAFETY GUARD
E5	DOOR FAN ELECTRICAL BOX
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 9.
D4	10" WIDE REUSE TANK, SEE NOTE 9.
D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
	NOTE 11.
D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
	ONE SIDE.
D1	REUSE PUMP, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1–1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT

NOTES

11 EACH OVERFLOW MUST BE INDIVIDUALLY DRAINED TO SEWER.

10 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.

9 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.

8 NON–STANDARD 11 DEGREE LOADING FOR BOTTOM TRANSFER TUNNELS ONLY.

7 ELECTRICS MAY BE LOCATED ON LEFT SIDE, RIGHT SIDE OR BACK SIDE. THE ELECTRICS LOCATION DEPENDS UPON THE FLOW DIRECTION OF GOODS.

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

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MP1656R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1656RTEE
2014123D

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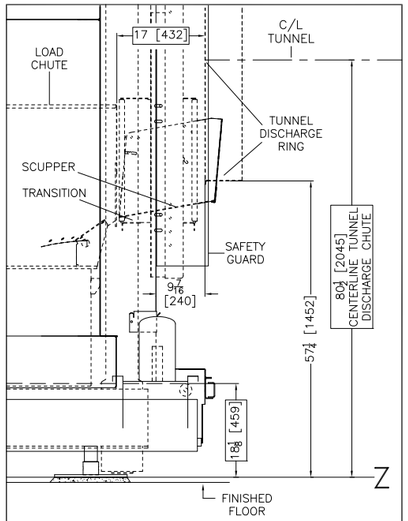
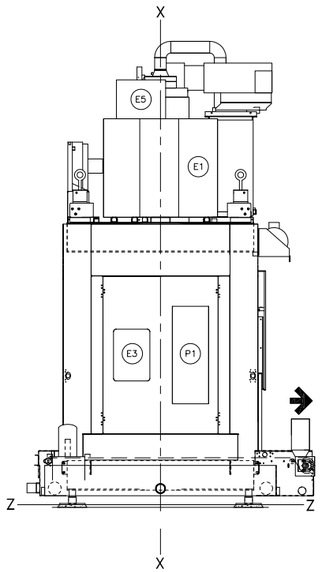
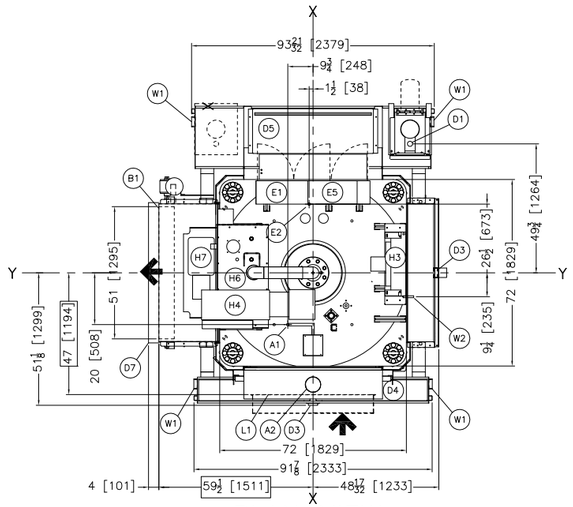
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com



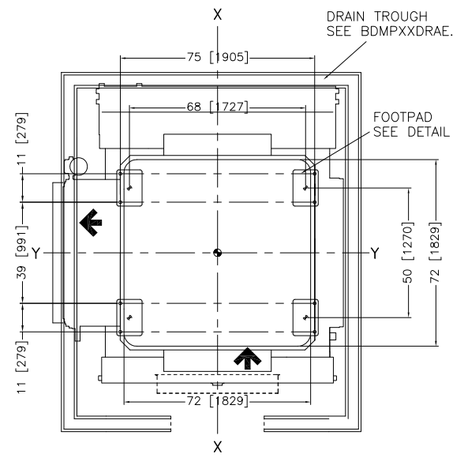
INSTALLATION DETAIL



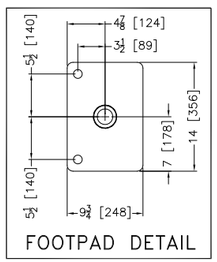
REAR VIEW



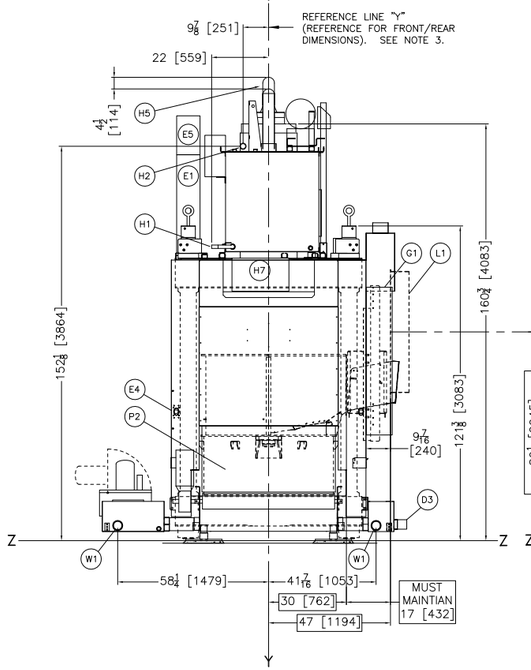
PLAN VIEW



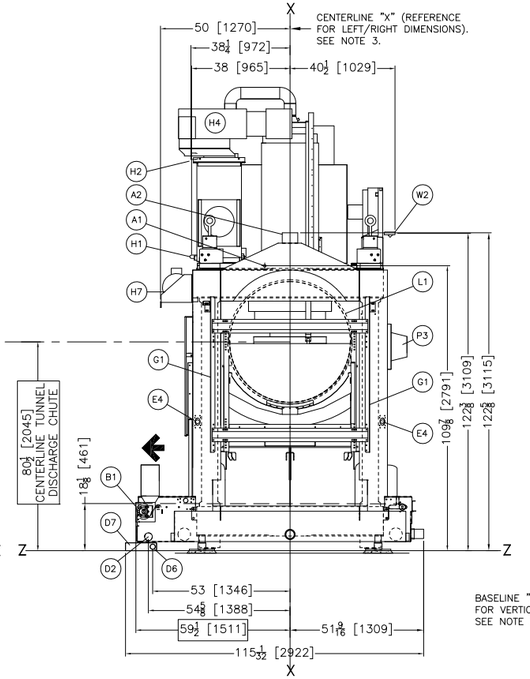
FOUNDATION PLAN VIEW



FOOTPAD DETAIL

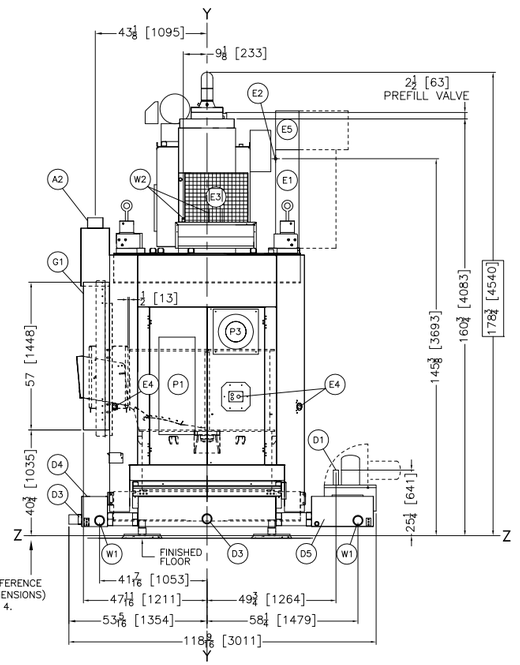


LEFT VIEW

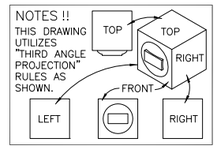


FRONT VIEW

BASELINE "Z" (REFERENCE FOR VERTICAL DIMENSIONS) SEE NOTE 3 AND 4.



RIGHT VIEW



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

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.
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
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L1	TUNNEL DISCHARGE RING
H7	BOOSTER PUMP
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D5	24" WIDE REUSE TANK, SEE NOTE 8.
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D3	REUSE TANK OVERFLOW, 3" PVC PIPE SOCKET JOINT, SEE
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D2	OVERFLOW CONNECTION, 3" PIPE SOCKET JOINT, CAPPED
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MP1A50L

DWG# BDMP1A50LFEE 2015124D

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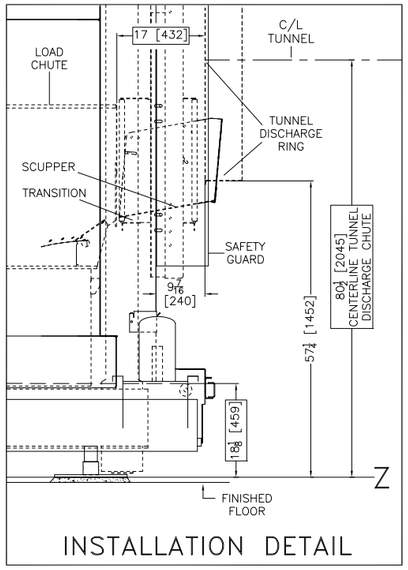
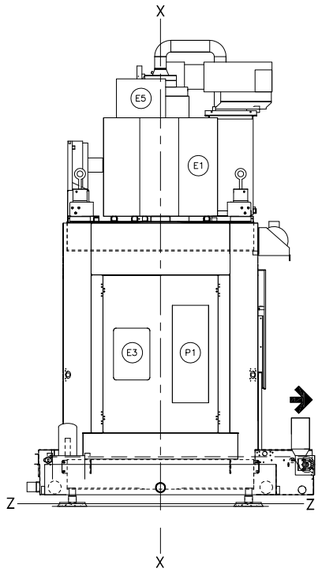
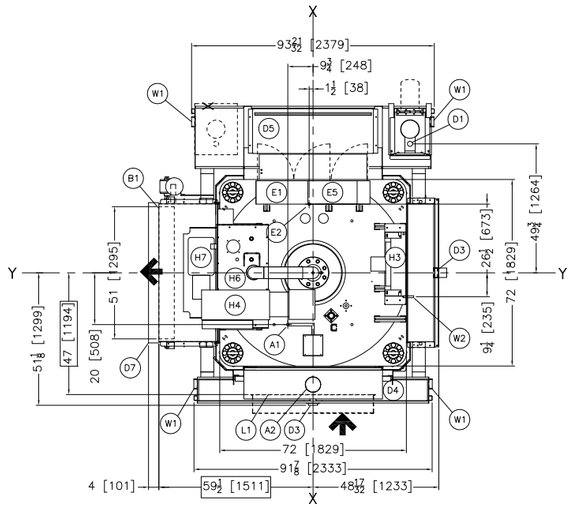
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com



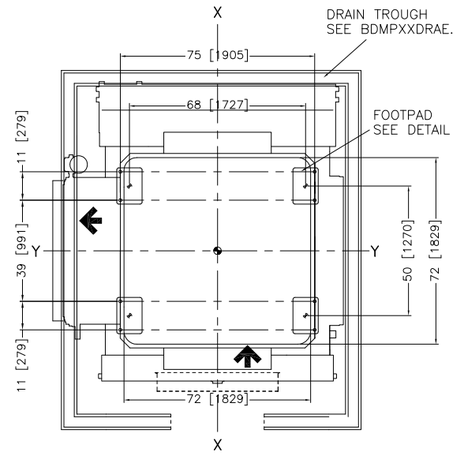
INSTALLATION DETAIL



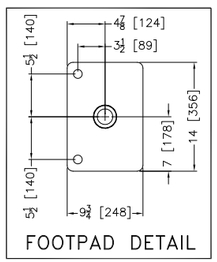
REAR VIEW



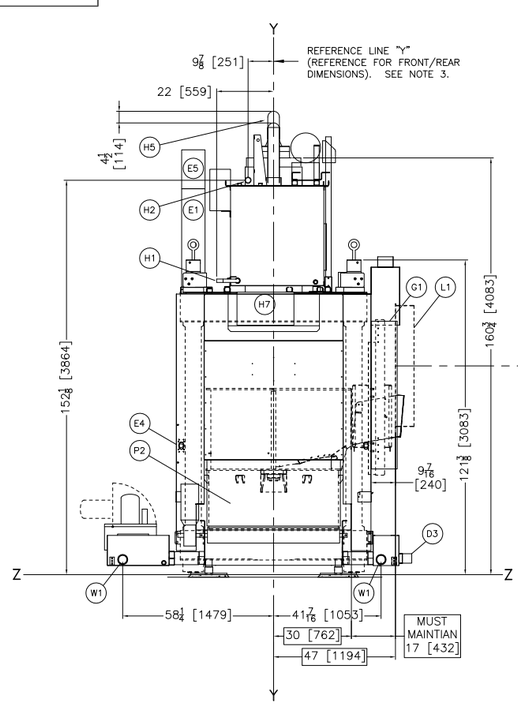
PLAN VIEW



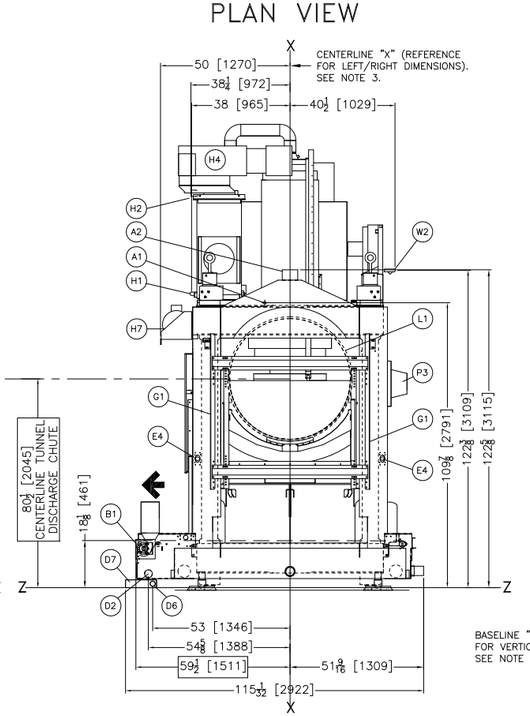
FOUNDATION PLAN VIEW



FOOTPAD DETAIL



LEFT VIEW



FRONT VIEW

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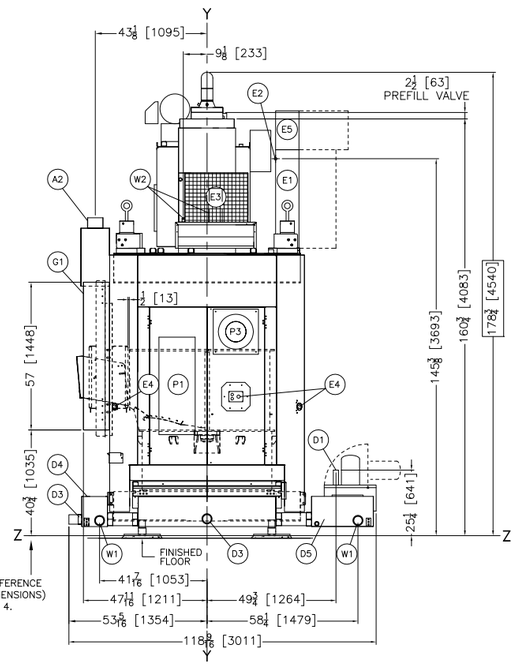
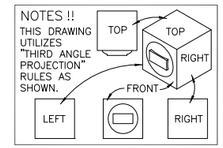


RIGHT VIEW



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

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ITEM	LEGEND

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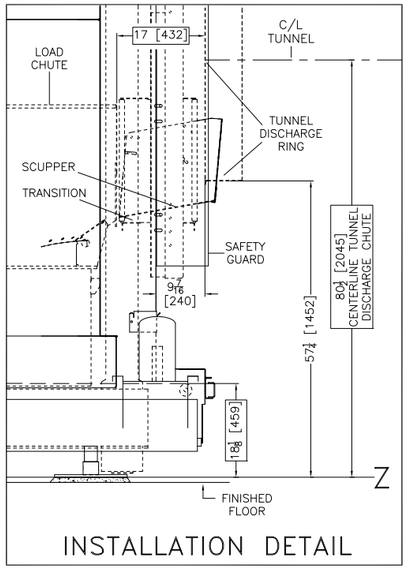
MP1A50L

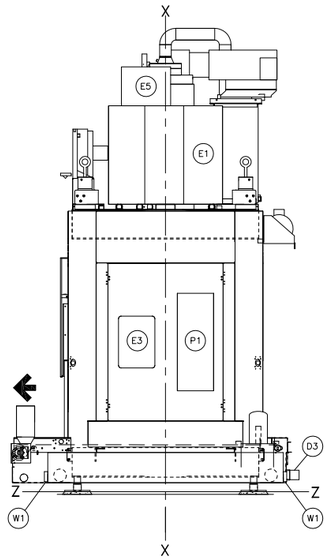
DM .0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1A50LFEE
2015124D

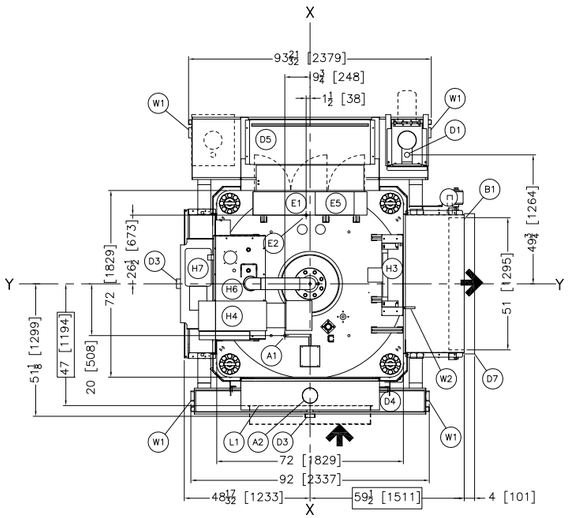
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Email: milnorinfo@milnor.com



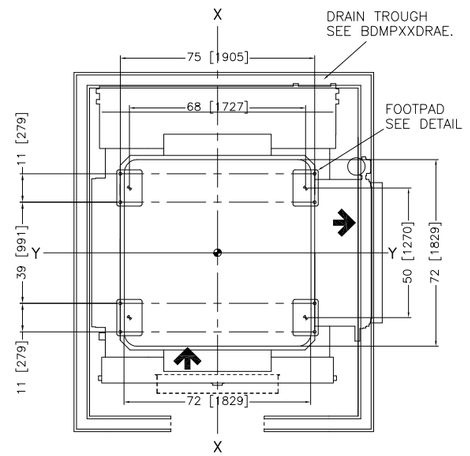
INSTALLATION DETAIL



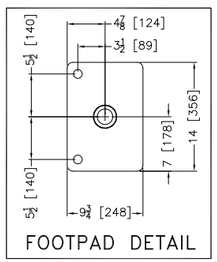
REAR VIEW



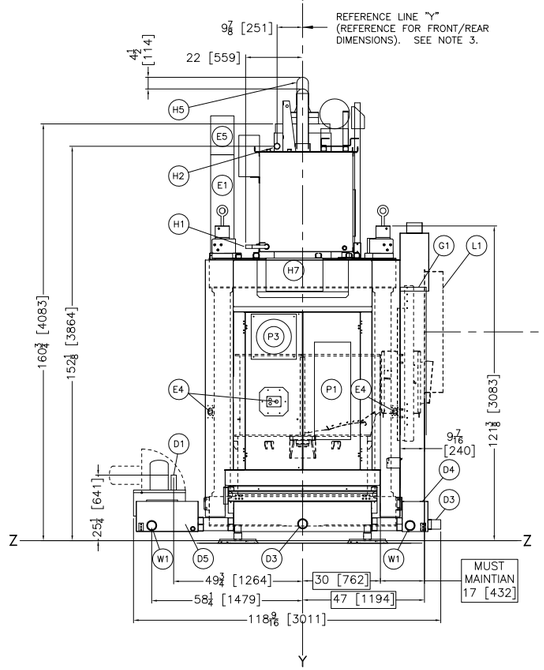
PLAN VIEW



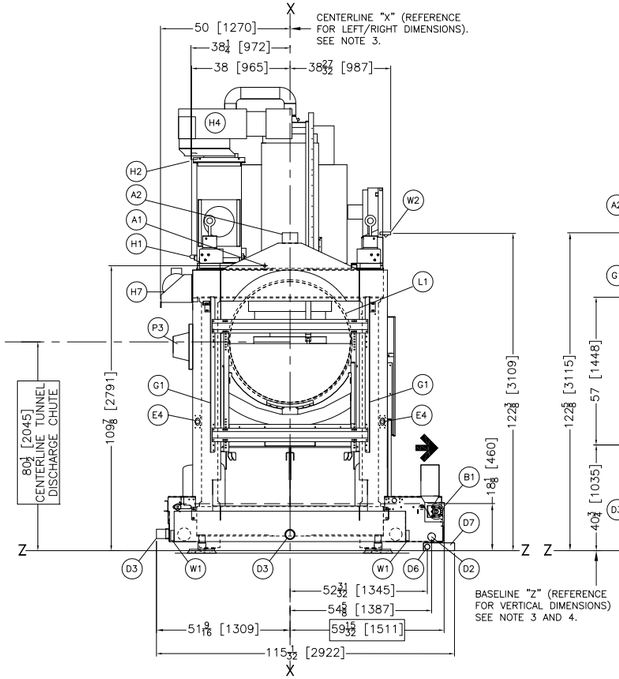
FOUNDATION PLAN VIEW



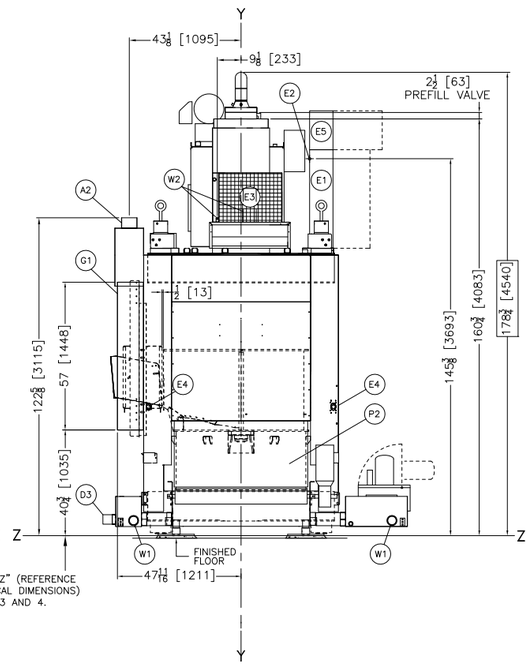
FOOTPAD DETAIL



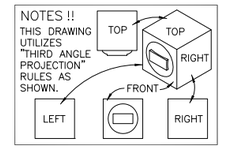
LEFT VIEW



FRONT VIEW



RIGHT VIEW



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

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.
P3	DOOR FAN, ALWAYS OPPOSITE MICROPROCESSOR CONTROLS
P2	AUTOMATIC DISCHARGE DOOR
P1	HINGED ACCESS DOOR.
L1	TUNNEL DISCHARGE RING
H7	BOOSTER PUMP
H6	HYDRAULIC TANK
H5	OPTIONAL LOWER PREFILL PIPE
H4	HYDRAULIC PUMP MOTOR
H3	HYDRAULIC COOLING UNIT
H2	HYDRAULIC TANK MANUAL FILL, 1" FEMALE QUICK CONNECT
H1	HYDRAULIC TANK MANUAL DRAIN, 1" MALE QUICK CONNECT
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.
E5	DOOR FAN ELECTRICAL BOX
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, 24" TANK ONLY, IN ONE OF THE TWO
	LOCATIONS SHOWN, 1-1/2" NPT DISCHARGE
B1	DISCHARGE ROLLER
A2	VENT 6 [152], SEE TUNNEL VENT DRAWING.
A1	MAIN AIR CONNECTION, 1/4" NPT
ITEM	LEGEND

NOTES

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. CONTROLS MAY BE LOCATED ON LEFT OR 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 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.
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.

MP1A50R

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMP1A50RTEE
2015124D

PELLERIN MILNOR CORPORATION
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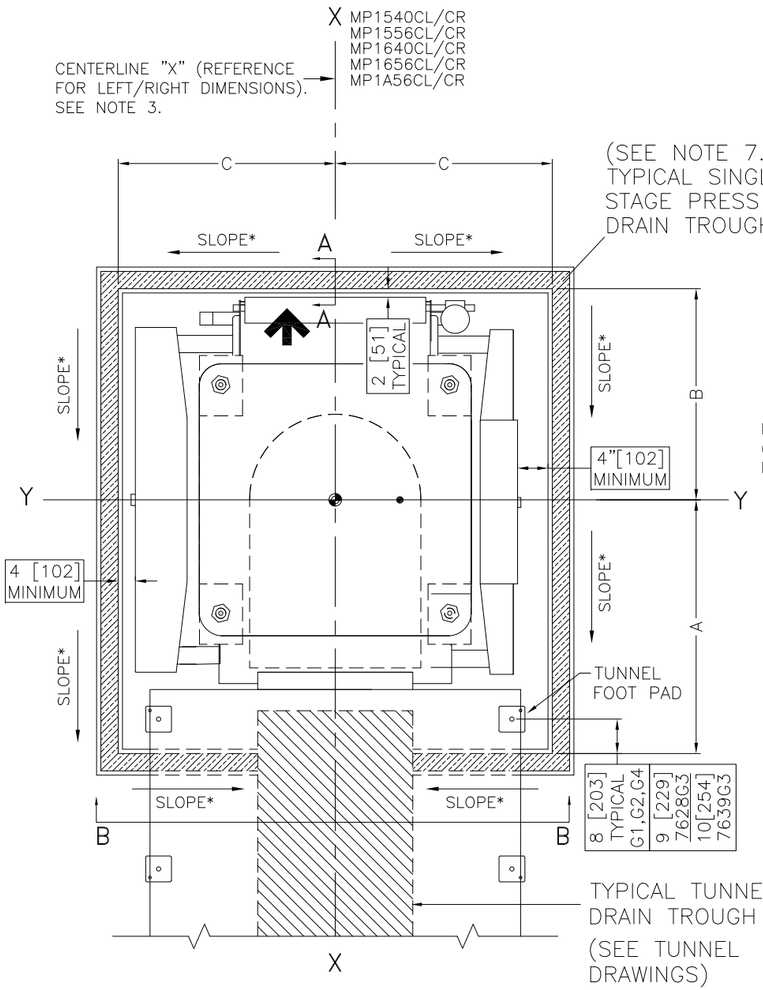
PRESS MODELS	DIMENSION A												DIMENSION B								DIMENSION C	
	G1 76032		G2 76028		G2 76039		G3 76028		G3 76039		G4 92048		0 EXTENTION		8" EXTENTION		24" EXTENTION		35" EXTENTION			
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
MP1540, MP1556	60	1524	69	1753	69	1753	64	1625	63	1600	–	–	49	1245	57	1448	73	1854	84	2134	51	1295
MP1640, MP1656	60	1524	69	1753	69	1753	64	1625	63	1600	–	–	49	1245	57	1448	73	1854	84	2134	51	1295
MP1A56	–	–	–	–	–	–	–	–	–	–	62	1575	64	1626	–	–	–	–	–	–	55	1397

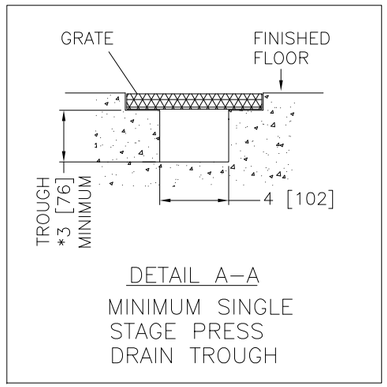
(CENTER DISCHARGE)

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

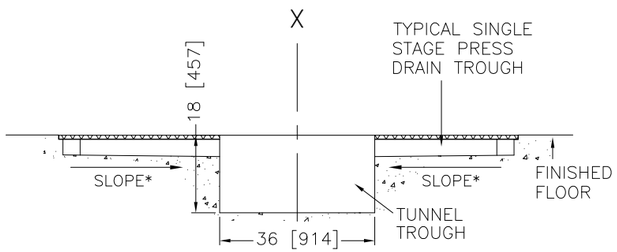


PLAN VIEW

REFERENCE LINE "Y" (REFERENCE FOR FRONT/REAR DIMENSIONS). SEE NOTE 3.



DETAIL A–A
MINIMUM SINGLE STAGE PRESS DRAIN TROUGH



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

NOTES

7 NOTE THIS DRAWING SHOWS THE RECOMMENDED DRAIN TROUGH DESIGN FOR THE MP1540/56, MP1640/56, MP1A56 PRESSES. DRAIN TROUGH CONSTRUCTION IS THE RESPONSIBILITY OF OTHERS. THIS DRAWING CONVEYS NO EXPRESS OR IMPLIED WARRANTY WITH REGARD TO THE CONSTRUCTION AND/OR SUITABILITY OF THESE DESIGNS FOR YOUR SPECIFIC INSTALLATION.

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SSPRESS DRAIN TROUGH–CTR DIS

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMPXXDRBE 2011336D

PELLERIN MILNOR CORPORATION
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FAX 504/469-1849, Telex ITT 460124/PELM UI, Cable PELMILNOR

PRESS MODELS	DIMENSION A												DIMENSION B		DIMENSION C		DIMENSION D							
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	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
MP1540, MP1556	60	1524	69	1753	69	1753	64	1625	63	1600	–	–	51	1295	48	1219	49	1245	57	1448	73	1854	84	2134
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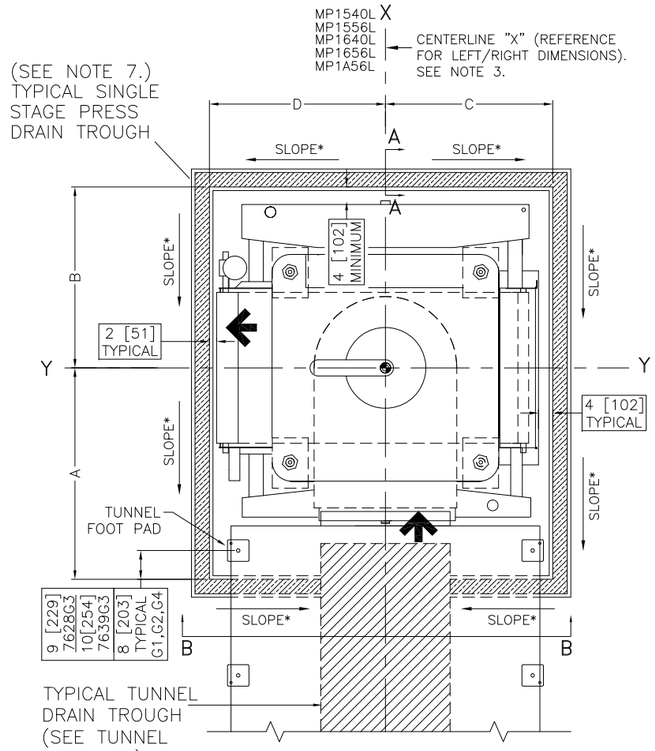
MP1A56	–	–	–	–	–	–	–	–	–	–	62	1575	55	1397	53	1346	64	1626	–	–	–	–	–	–

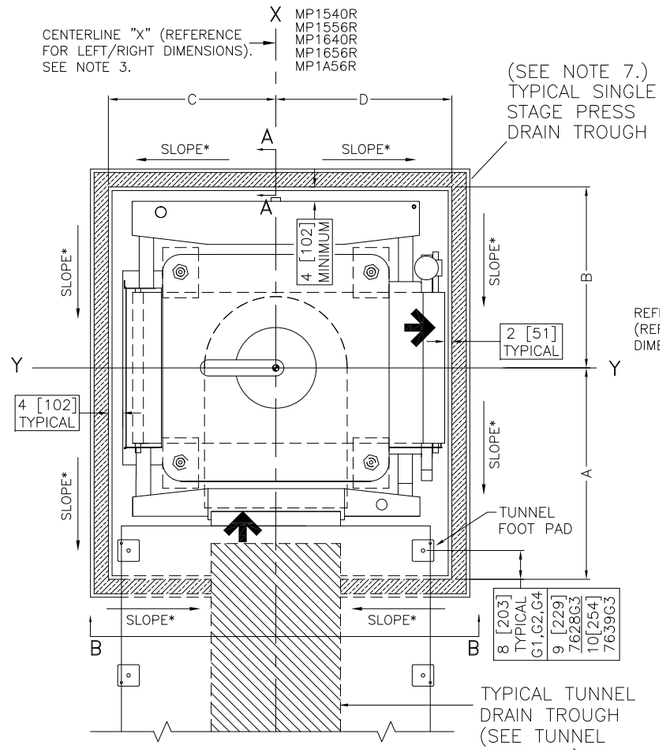
SLOPE*=1/8"/FT.[10mm/M]

(LEFT DISCHARGE)

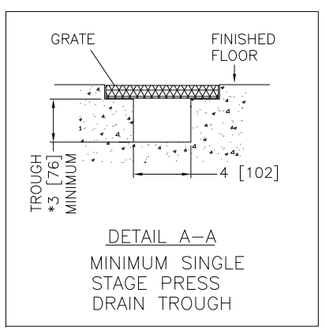


PLAN VIEW

(RIGHT DISCHARGE)



PLAN VIEW



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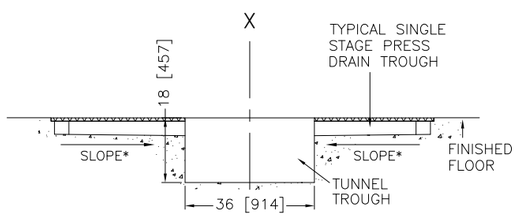

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SSPRESS DRAIN TROUGH–L/R DIS

DM 0 0.5M 1M
INCHES 0 12 24 36

DWG# BDMPXXDRBB 2011336D

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