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Installation and Service

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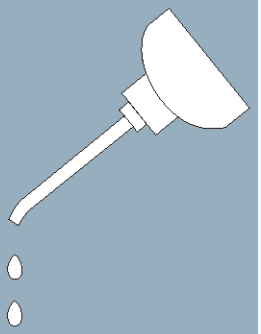

Read the separate safety manual before installing, operating, or servicing

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

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MPICOLFM112A/24366A

PELLERIN MILNOR CORPORATION
LIMITED STANDARD WARRANTY

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

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will—at our option—repair or replace the defective part or parts, EX Factory (labor and freight specifically NOT included). We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is 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.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR ANY OTHER WARRANTY IMPLIED BY LAW INCLUDING BUT NOT LIMITED TO REDHIBITION. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MIS-USE, NEGLECT, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

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

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

BMP720097/19036

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

How to Get the Necessary Repair Components

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

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

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

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

To write to the Milnor factory:

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

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

— End of BIUUUD19 —

Trademarks

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

Table 1. Trademarks

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

End of document: BNUUUU02

Safety Information 1

BIUUUS27 (Published) Book specs- Dates: 20051111 / 20051111 / 20060323 Lang: ENG01 Applic: VIP VSR VSL VSE VST VGU

Safety—Shuttle

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.

WARNING 1: Collision, Crushing and Pinch Hazards—Serious bodily injury or death can result to personnel in proximity to machinery/systems that traverse, elevate, extend, pivot, and/or tilt. The following mandatory minimum safety requirements must be installed with the machinery system: • Safety fence inclosing machine movement areas, • Lockable electrical interlocks on all gates, properly interfaced as shown on machine schematics, to disable machine movement when any gate is opened, • Signs to alert personnel to these hazards, placed prominently around the fenced area. Local codes may require additional precautions.

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 2: 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 3: 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.

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: Strike and Crush Hazards—A traveling machine such as a shuttle can strike, crush, or entrap you if you ride on it or enter its path. Traveling machines or their components can move automatically in any direction. Placing a system machine on line by energizing the machine control may immediately summon a shuttle or other traveling machine.

- Keep yourself and others off of machine.
- Keep yourself and others clear of movement areas and paths.
- Understand the consequences of placing a system machine on line.
- Know the location of all emergency stop switches, pull cords, and/or kick plates and use them in an emergency to stop machine motion.
- Know the location of the main machine disconnect and use it in an emergency to remove all electric power from the machine.

CAUTION 5: Crush and Entrap Hazards—A traveling machine such as a shuttle can crush or entrap you if the bed or bucket descends while you are under it. The bed or bucket can descend with power off or on.

- Keep yourself and others clear of movement areas and paths.

WARNING 6: 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 7: 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 8: 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 9: 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 10: 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.

WARNING 11: Crush Hazards—Chain and hoist—A broken chain or a malfunctioning hoist can permit the belt/bucket assembly to fall or descend.

- Do not operate the machine with any evidence of damage or malfunction.

4.2. Careless Use Hazards

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

WARNING 12: 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 13: Goods Damage and Wasted Resources—Entering incorrect cake data causes improper processing, routing, and accounting of batches.

- Understand the consequences of entering cake data.

WARNING 14: Strike and Crush Hazards—Carelessly moving the machine with manual controls can cause it to strike, crush, entrap, or entangle personnel. You have total control of machine movement immediately after setting the Manual/Automatic switch to manual.

- Keep yourself and others clear of movement areas and paths.
- Understand the consequences of operating manually.

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

WARNING 15: 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 16: 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.

WARNING 17: Crush and Entrap Hazards—A traveling machine such as a shuttle can crush or entrap you if the bed or bucket descends while you are under it. The bed or bucket can descend with power off or on.

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

WARNING 18: Strike and Crush Hazards—A traveling machine such as a shuttle can strike, crush, or entrap you if you ride on it or enter its path. Traveling machines or their components can move automatically in any direction. Placing a system machine on line by energizing the machine control may immediately summon a shuttle or other traveling machine.

- Lock out and tag out power to the traveling machine at the main machine disconnect if you must work in the path of the traveling machine.

— End of BIUUUS27 —

Proximity Safeguarding for Automatic Shuttle Conveyors

Proximity safeguarding—a means of preventing personnel from entering the path of a machine, such as an industrial robot, that moves within a large area.

1. Applicability

This document—

applies to Milnor® automated laundering systems with shuttle conveyors that move without operator intervention (automatic operation),

does *not* apply to shuttles that require operator input continually, such as directing all shuttle movements (manual operation).

2. References for Proximity Safeguarding

ANSI Z8.1-2016 “American National Standard for Commercial Laundry and Drycleaning Equipment and Operations - Safety Requirements”

OSHA Standard 29 CFR § 1910.212 “General Requirements for All Machines”

OSHA Directive STD 01-12-002 - Pub 8-1.3 “Guidelines for Robotic Safety”

ANSI/RIA R15.06-2012 “American National Standard for Industrial Robots and Robot Systems- Safety Requirements”

ANSI/ASME B15.1-2000 “Safety Standard for Mechanical Power Transmission Apparatus”

OSHA Publication 3067 “Concepts and Techniques of Machine Safeguarding”

ISO 10472-1 “Safety Requirements for Industrial Laundry Machinery”

3. Hazards To Personnel in Proximity to Shuttle Conveyors

Milnor automated laundering systems use automatic shuttle conveyors to transport goods among the processing machines in the system. Depending on model, an automatic shuttle conveyor may move in any of the following ways, in addition to running its conveyor belt(s):

- It may travel along (traverse) a line of machines (typically dryers).
- Its conveyor bed(s) may ascend and descend (elevate) within the machine frame.
- Its conveyor bed(s) may extend and retract within the machine frame.
- The conveyor bed and frame may pivot.
- Wet goods shuttles have a bucket that elevates and tilts.

These motions pose strike, crush, sever, and entrapment hazards to personnel in proximity to the shuttle. **For the safety of personnel, owner/users must provide proximity safeguarding that protects personnel from the moving shuttle.**

A common method of proximity safeguarding is safety fencing with interlocked gates that disable the shuttle when a gate is opened. When a shuttle is disabled, this will eventually cause other machines in the system to hold (wait for action from another machine), but it will not necessarily cause them to immediately stop moving. In the case of a tunnel system, the press or centrifugal extractor can pose additional hazards to personnel in proximity to the equipment. **Hence, the safeguards must also disable any presses or extractors.** Tunnels and dryers do not pose a significant hazard to personnel merely because they are in proximity to the equipment, and need not be automatically disabled.

WARNING 1: Multiple Hazards—Proximity safeguarding provides only partial protection and only against injury resulting from entering the shuttle path. It is not a substitute for proper

lockout/tagout procedures and good safety practices.

- Always lockout/tagout any individual machine (or follow the published maintenance procedures) when performing maintenance or clearing a fault on that machine.
- Ensure that all personnel understand the safeguards and do not attempt to defeat them.
- Inspect safeguards weekly to ensure that they are not mechanically or electrically circumvented.

4. How Milnor Accommodates Proximity Safeguarding

Milnor provides connection points on shuttles, presses and centrifugal extractors for interfacing with devices such as gate interlock switches. These connection points are tagged for easy identification. When Milnor provides equipment layout drawings for an automated laundering system, it indicates on the drawing, the perimeter of the shuttle movement area that must be guarded. The following hazard statement is displayed on connection point tags as well as equipment layout drawings prepared by Milnor:

WARNING 2: Strike, Crush, Sever, and Entrapment Hazards—Serious bodily injury or death can result to personnel in proximity to machinery/systems that traverse, elevate, extend, pivot, and/or tilt. The following mandatory minimum safety requirements must be installed with the machinery system (local codes may require additional precautions):

- Safety fence enclosing machine movement areas,
- Lockable electrical interlocks on all gates, properly interfaced as shown on machine schematics, to disable machine movement when any gate is opened,
- Signs to alert personnel to these hazards, placed prominently around the fenced area.

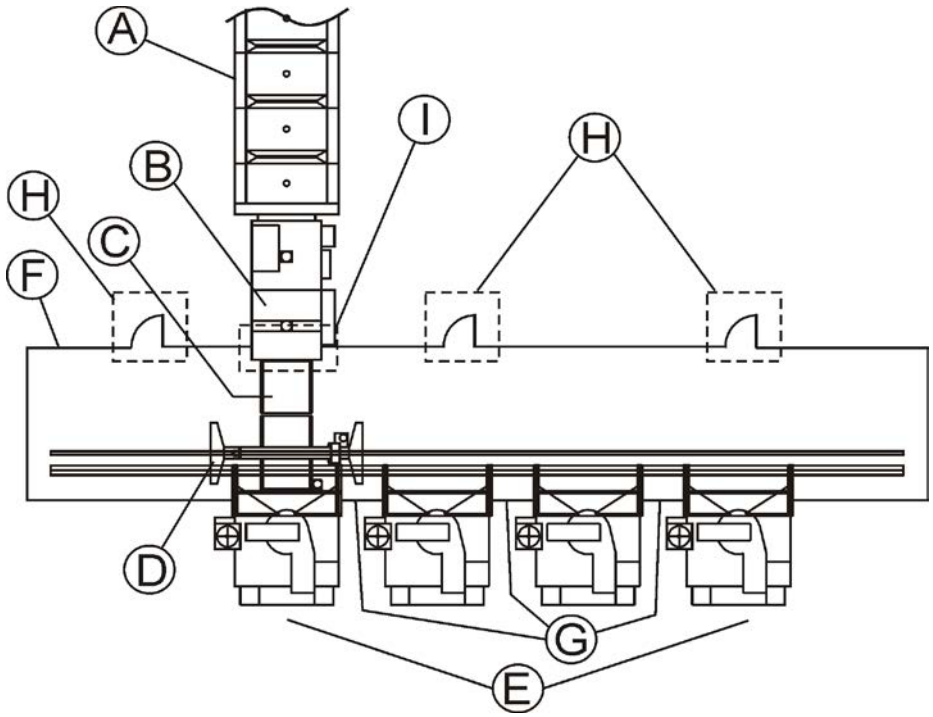
Although the objectives of proximity safeguarding are the same anywhere, design requirements vary with local codes (which occasionally change) and with the plant layout. For this reason, Milnor does not provide detailed designs or materials for proximity safeguarding. If the necessary expertise does not exist within the owner/user's organization, consult appropriate sources such as local engineers or architects specializing in industrial facility design.

5. Examples of Safety Fencing With Interlocked Gates

Fencing with interlocked gates like that depicted in Figure 1 and Figure 2, may be used to meet the proximity safeguarding requirement. Should the owner/user choose this method, the following information may be useful. However, **this information may not satisfy current or local code requirements. The owner/user must determine its suitability for his particular facility.**

Figure 1: Example Fence Layout for Automated Laundering System Where One Tunnel Serves a Bank of Dryers

Plan View of Laundering System

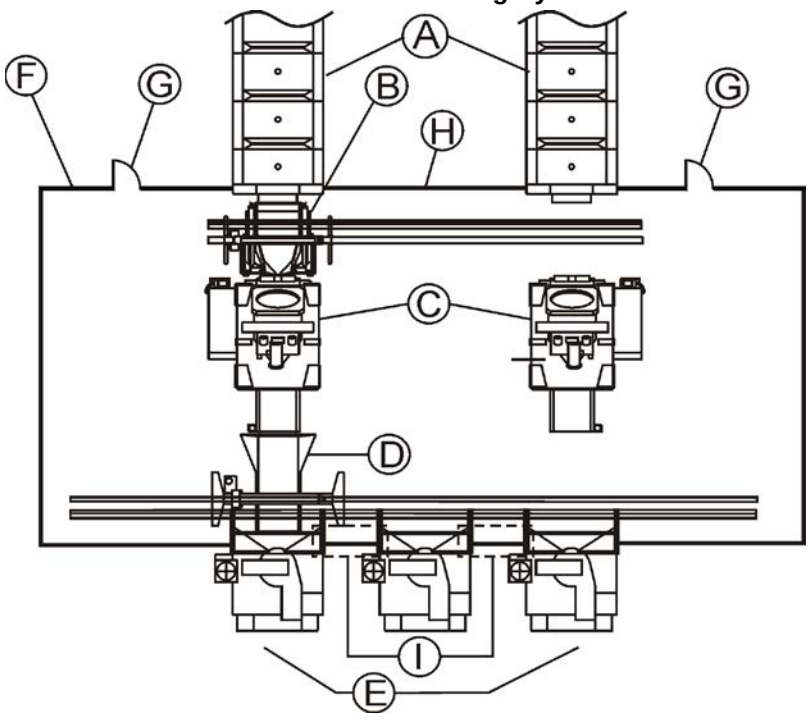


Legend

- **A.** Continuous Batch Washer (tunnel)
- **B.** Press extractor
- **C.** COINC inclined conveyor
- **D.** Traversing and elevating shuttle conveyor for pressed cakes
- **E.** Bank of dryers
- **F.** Fence enclosing path of shuttle
- **G.** Fence segments between dryers
- **H.** Electrically interlocked gates. Gates swing outward at least 90 degrees and swing area is marked on floor. Provide multiple gates for long fence runs.
- **I.** Fence restricts access to unload end of press, but does not obstruct access to press controls.

Figure 2: Example Fence Layout for Automated Laundering System Where Two Tunnels Serve a Bank of Dryers

Plan View of Laundering System



Legend

- **A.** Continuous Batch Washers (tunnels)
- **B.** Traversing and elevating shuttle conveyor for wet goods
- **C.** Centrifugal extractors
- **D.** Traversing and elevating shuttle conveyor for loose goods
- **E.** Bank of dryers
- **F.** Fence enclosing paths of both shuttles and both centrifugal extractors
- **G.** Gates interlocked with both shuttles and both centrifugal extractors.
- **H.** Fence segment between tunnels.
- **I.** Fence segments between dryers.

5.1. Fence Dimensions—The fence must discourage climbing over and prevent crawling under.

5.2. Fence Materials and Setback—The fence must be constructed of materials and located so as to prevent personnel from reaching through gaps in the fence and contacting the enclosed machinery.

5.3. Gates—Personnel gates must be held firmly closed but permit personnel to easily pass through when necessary. Gates must be equipped with a positive latching arrangement to prevent accidental opening. Adequate floor space must be provided to allow the gate to swing at least 90 degrees when fully open. Gates must open outward; that is, away from the fenced perimeter. The floor must be permanently marked to show the gate's swing area, to discourage obstructing its movement.

5.4. Control Circuitry—All gates must be electrically interlocked with any shuttle conveyors within the fenced area and with any presses or centrifugal extractors that the fence either encloses or intersects. Opening any gate must have the following effects:

1. Shuttle(s), press(es), and/or centrifugal extractor(s) stop moving immediately.
2. An audible alarm sounds.
3. Shuttle(s), press(es), and/or centrifugal extractor(s) cannot be restarted merely by closing the gate(s), but must be restarted at the machine control panel once the gate(s) are closed.

Milnor shuttles, presses and centrifugal extractors provide such functionality when properly interfaced with gate interlock switches.

5.5. System Emergency Stop Switches—The laundry must establish rules and procedures that prohibit personnel from remaining within the fenced area with machine(s) enabled, except in accordance with published maintenance procedures. System emergency stop switches (panic buttons) should be provided inside and outside the fenced perimeter. Emergency stop switches should be located so that personnel anywhere inside the fenced perimeter are only a short distance from a switch, and they should be clearly marked as to their locations and function. Connect switches in series with the gate interlocks so that pressing an emergency stop switch performs the same control function as opening a gate.

5.6. Isolating Individual Machine Controls—The interlock circuitry for each machine must be electrically isolated from that of the other machines. Hence, each gate interlock switch must provide as many pairs of dry contacts as there are machines to interface to. A pair of switch contacts must never be shared by two or more machines.

5.7. Recommended Signage—Safety placards should be posted along the fence and at each gate, alerting personnel to the hazards within. At minimum, the size of lettering and distance between placards should be such that anyone contemplating entering the fenced area will likely see and read the placard first. Wording should be provided in each native language spoken by laundry personnel.

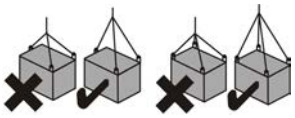
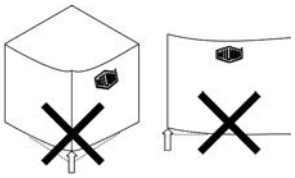
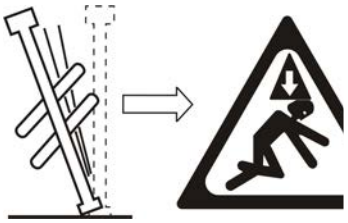
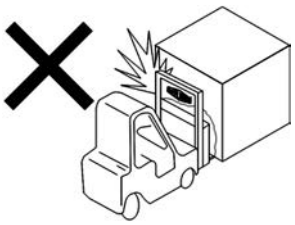
— End of BISUUI01 —

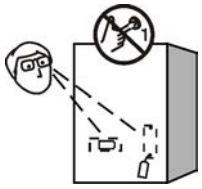
Understanding the Tag Guidelines for the Models Listed Below

COELD111 COELF111 COELF112 COELF113 COELF121 COELF122 COLFB111 COLFB112 COLFK111 COLFK112 COLFM111 COLFM112 COLFP111 COLFP112 COLFQ111 COLFQ112 COLFR111 COLFR112 COSAT111 COSAT112 COSAT121 COSHA111 COSHA112 COSHA113 COSHA114 COSHA121 COSHA122 COSHB111 COSHB112 COSHE122 COSHJ112 COSHJH12 COSHK111 COSHK112 COSHM111 COSHM112 COSHP111 COSHP112 COSHQ111 COSHQ112 COSHR111 COSHR112 COSTA112 COSTA113 COSTA114 COSTA121 COSTA122 COSTA123 COSTA124 COSTE112 COSTE113 COSTE114 COSTE122 COSTE123 COSTE124 COSTQ114 COSTR112

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).
	B2TAG94084: Do not lift from one corner of the machine, as this can cause the frame to rack, damaging it.
	B2TAG94089: Do not attempt to balance the shuttle on the lower shipping brackets. Always suspend and lift the shuttle from the lifting eyes at the top of the machine.
	B2TAG94118: Do not strike shipping container during fork-lifting. Fragile components inside.

Display or Action	Explanation
	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.
	B2T2007003: Install the shuttle rail in accordance with this instruction and the installation manual.
	B2T2010001: Mount festoon tow bar this way. (Used only on COSHM, COSHP, COSHQ & COSHR models.)

— End of BIUUUI02 —

Safety Placard Use and Placement

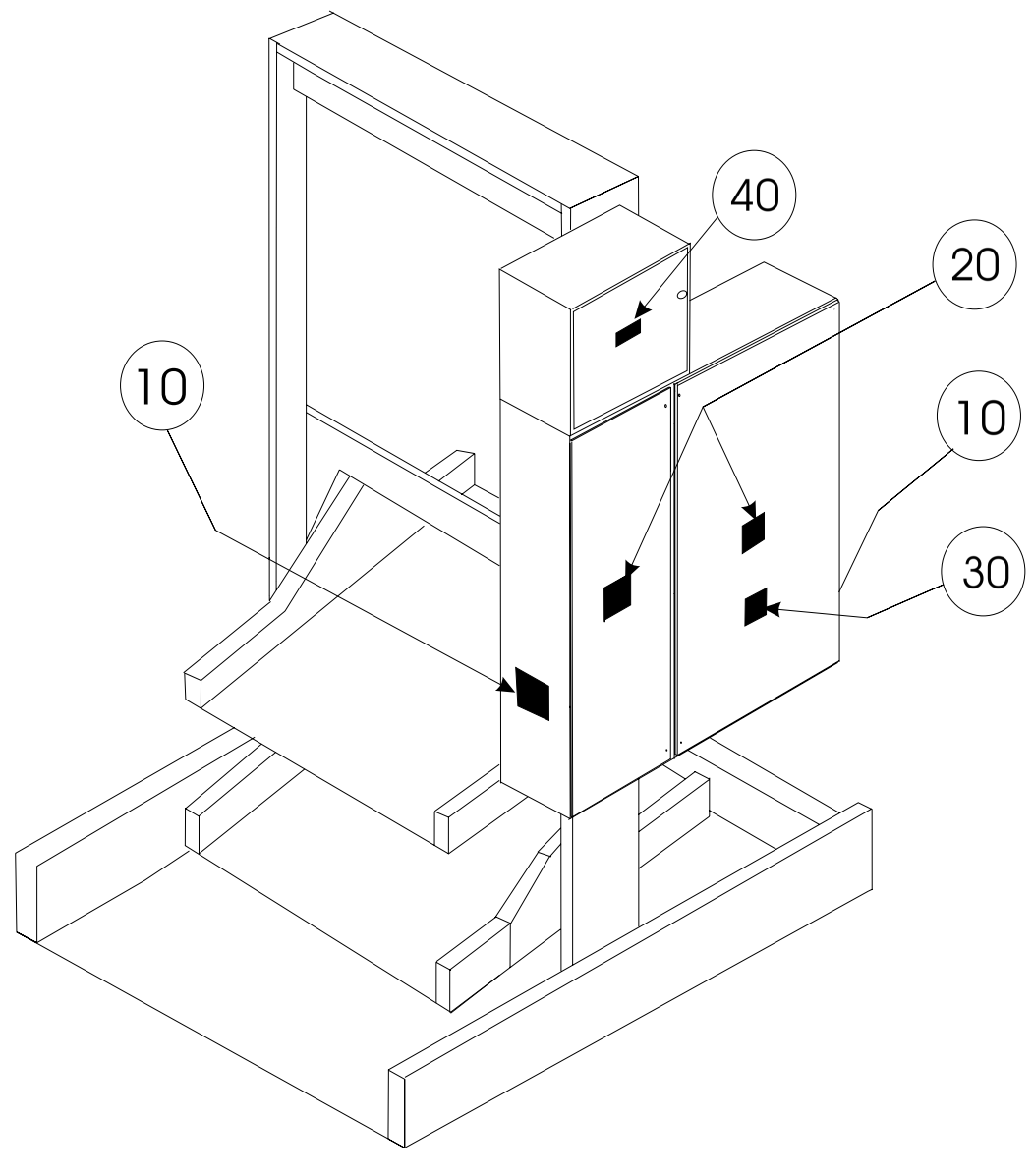
ALL ELEVATING CONVEYORS

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

Litho in U.S.A.

Notes:

1. **Replace placard immediately, if removed or unreadable.**
2. **Approximate locations of placards are shown. Mounting holes are provided on machine. Use #8 self-tapping screws.**



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

Litho in U.S.A.

Parts List—Safety Placard Placement

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----------	
			none	
			----------COMPONENTS----------	
all	10	01 10564A	NPLT:COSHA HAZARDS-TCATA	
all	20	01 10377A	NPLT:ELEC HAZARD LG-TCATA	
all	30	01 10699A	NPLT:SERV HZRD-PLYEST-TCATA	
all	40	01 10375B	NPLT:ELEC HAZARD SMALL-TCATA	

Safety Placard Use and Placement ISO

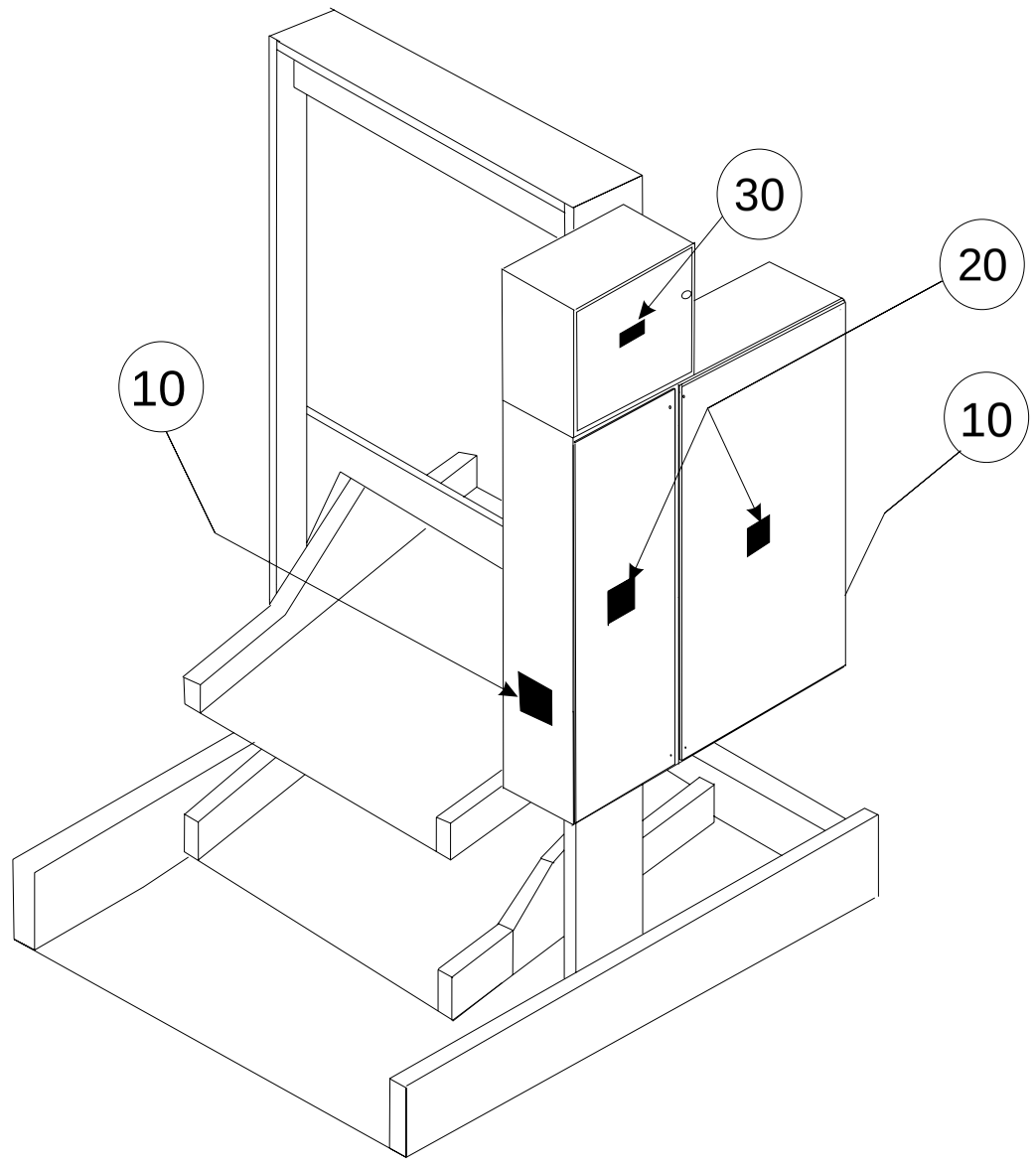
ALL ELEVATING CONVEYORS

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

Litho in U.S.A.

ISO Placards
shown on this page

Notes:
1. **Replace placard immediately, if removed or unreadable.**
2. **Approximate locations of placards are shown. Mounting holes are provided on machine. Use #8 self-tapping screws.**



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

Litho in U.S.A.

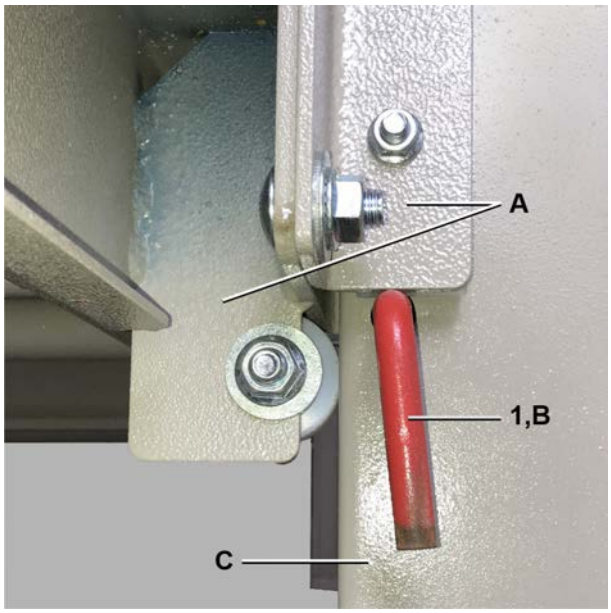
Parts List—Safety Placard Placement

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----------				
			none	
----------COMPONENTS----------				
all	10	01 10564X	WARNINGS:SHUTTLE ISO	
all	20	01 10377	NPLT:"WARNING" 4X4	
all	30	01 10375	NPLT:"WARNING" 2X2	

Safety Pin

All Elevating Shuttles and Pivoting Elevators.



Legend

A . . . Side Slider
B . . . Safety Pin, 2 instances, left and right
C . . . Vertical frame member

Table 1. Parts List—Safety Pin

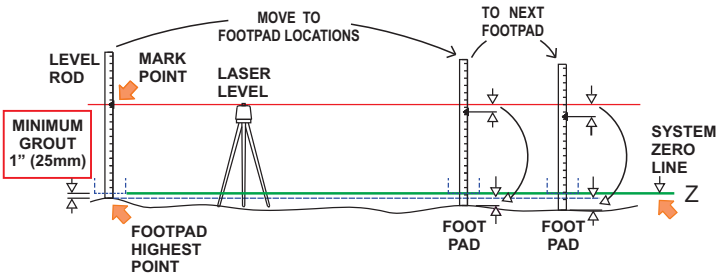
Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "all" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations.				
Used In	**Item**	**Part Number**	**Description/Nomenclature**	**Comments**
Components				
all	1	04 21496	SAFETY PIN-COSHA	

Installation 2

ATTENTION INSTALLERS!

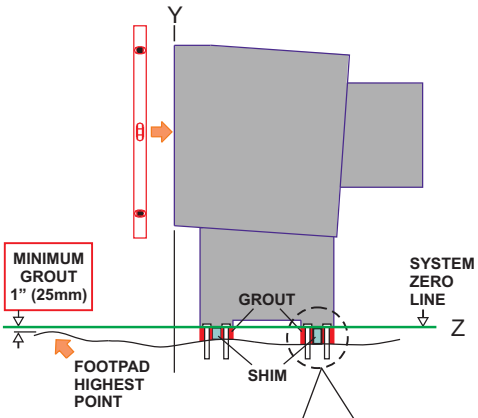
FLOOR IS UNEVEN

- 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.



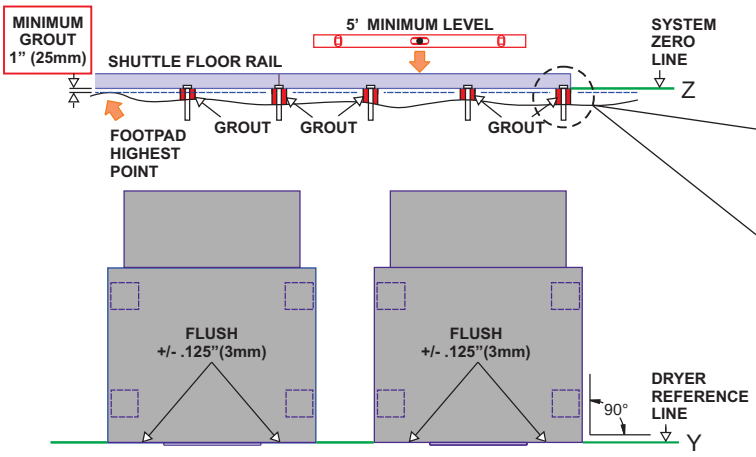
DRYER FEET MUST BE GROUTED

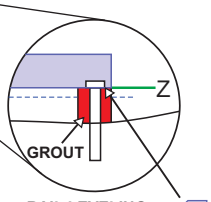
- Shim & level to System Zero Line or Z.
- Grout & anchor all brackets.

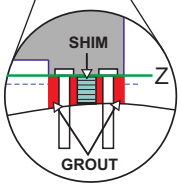


SHUTTLE RAIL BRACKETS MUST BE GROUTED TO Z

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

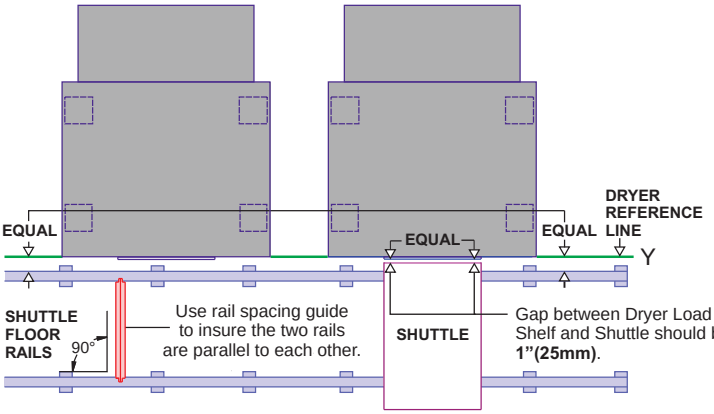


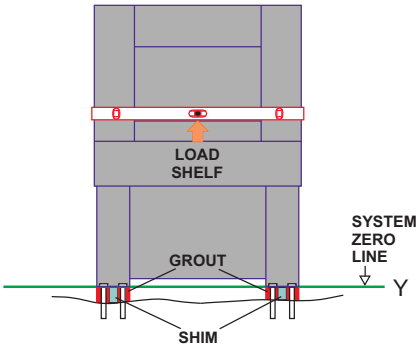




RAIL LEVELING PLATES ARE ALSO PROVIDED FOR FINE ADJUSTMENT OF RAIL.

DRYER FACES MUST BE FLUSH





DRYER MUST BE LEVEL

SHUTTLE RAILS MUST BE PERFECTLY PARALLEL TO DRYER FACES

- Floor rails must be parallel, level, and square along entire length of rail.

B2T2007003/2019193A

Service 3

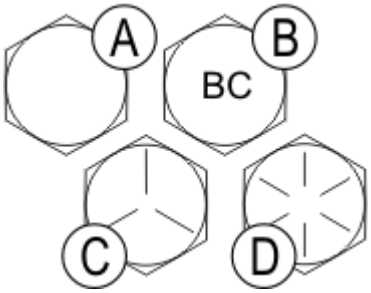
BIUUUM04 (Published) Book specs- Dates: 20180109 / 20180109 / 20180109 Lang: ENG01 Applic: UUU

Torque Requirements for Fasteners

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

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

Figure 1: The Bolts in Milnor® Equipment

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

1. Torque Values

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

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

1.1. Fasteners Made of Carbon Steel

1.1.1. Without a Threadlocker

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

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

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

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	20	27	31	42	44	59	38	52
3/8 x 24	23	31	35	47	50	68	--	--
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	105	--	--
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163	--	--
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232	--	--
5/8 x 11	97	131	150	203	212	287	186	252
5/8 x 18	110	149	170	231	240	325	--	--
3/4 x 10	172	233	266	361	376	510	329	446
3/14 x 16	192	261	297	403	420	569	--	--
7/8 x 9	167	226	429	582	606	821	531	719
7/8 x 14	184	249	473	641	668	906	--	--
1 x 8	250	339	644	873	909	1232	796	1079
1 x 12	274	371	704	954	994	1348	--	--
1 x 14	281	381	723	980	1020	1383	--	--
1 1/8 x 7	354	480	794	1077	1287	1745	1126	1527
1 1/8 x 12	397	538	891	1208	1444	1958	--	--
1 1/4 x 7	500	678	1120	1519	1817	2464	1590	2155
1 1/4 x 12	553	750	1241	1682	2012	2728	--	--
1 3/8 x 6	655	888	1469	1992	2382	3230	2085	2827
1 3/8 x 12	746	1011	1672	2267	2712	3677	--	--
1 1/2 x 6	869	1178	1949	2642	3161	4286	2767	3751
1 1/2 x 12	979	1327	2194	2974	3557	4822	--	--

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

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

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

	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	15	20	23	31	33	44	29	38
3/8 x 24	17	23	26	35	37	49	--	--
7/16 x 14	24	32	37	50	52	71	46	61
7/16 x 20	27	36	41	55	58	78	--	--
1/2 x 13	37	49	56	76	80	106	70	93
1/2 x 20	41	55	64	85	90	120	--	--
9/16 x 12	53	70	81	110	115	153	101	134
9/16 x 18	59	79	91	122	128	174	--	--
5/8 x 11	73	97	113	150	159	212	139	186
5/8 x 18	83	110	127	172	180	240	--	--
3/4 x 10	129	173	200	266	282	376	246	329
3/14 x 16	144	192	223	297	315	420	--	--
7/8 x 9	125	166	322	430	455	606	398	531
7/8 x 14	138	184	355	474	501	668	--	--
1 x 8	188	250	483	644	682	909	597	796
1 x 12	205	274	528	716	746	995	--	--
1 x 14	210	280	542	735	765	1037	--	--
1 1/8 x 7	266	354	595	807	966	1288	845	1126
1 1/8 x 12	298	404	668	890	1083	1444	--	--
1 1/4 x 7	375	500	840	1120	1363	1817	1192	1590
1 1/4 x 12	415	553	930	1261	1509	2013	--	--
1 3/8 x 6	491	655	1102	1470	1787	2382	1564	2085
1 3/8 x 12	559	758	1254	1672	2034	2712	--	--
1 1/2 x 6	652	870	1462	1982	2371	3161	2075	2767
1 1/2 x 12	733	994	1645	2194	2668	3557	--	--

1.1.2. With a Threadlocker

Table 5: Threadlocker by the Diameter of the Bolt (see Note 2)

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

Note 2: The acceptable bolt size ranges for various LocTite® threadlocking products is the LocTite manufacturer's **general** recommendation. Specific applications sometime require that a LocTite product is applied to a bolt size outside the ranges shown here. For example, Milnor specifies LocTite 242 for use on certain 1" bolt applications and has confirmed this usage with the LocTite manufacturer. You may see variances such as this in the documentation for specific machine assemblies.

Table 6: Torque Values if You Apply LocTite 222

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

Table 7: Torque Values if You Apply LocTite 242

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	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 if You Apply LocTite 262

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

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

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

Table 10: Torque Values if You Apply LocTite 277

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

1.2. Stainless Steel Fasteners

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

	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
Dimension	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

	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
Dimension	**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 2: Fire Hazard—Some solvents and primers are flammable.

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

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

   Note 3: LocTite 7649 Primer™ or standard solvents will remove grease from parts.

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

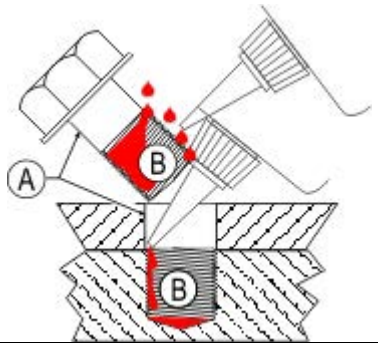
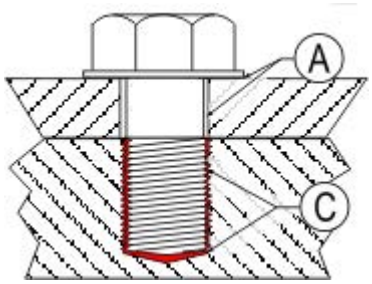
3. How to Apply a Threadlocker

CAUTION 3: Malfunction Hazard—Heat, vibration, or mechanical shocks can let the fasteners loosen if you do not apply the threadlocker correctly. Loose fasteners can cause malfunctions of the equipment.

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

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

Figure 2: Blind Hole

Application	Coverage
	

Legend

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

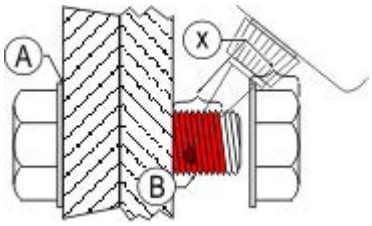
3.1. Blind Holes

1. Apply the threadlocker down the threads to the bottom of the hole.
2. Apply the threadlocker to the bolt.
3. Tighten the bolt to the value shown in the correct table (Table 5 to Table 11).

3.2. Through Holes

1. Put the bolt through the assembly.
2. Apply the threadlocker only to the bolt thread area that will engage the nut.
3. Tighten the bolt to the value shown in the correct table (Table 5 to Table 11).

Figure 3: Through Hole

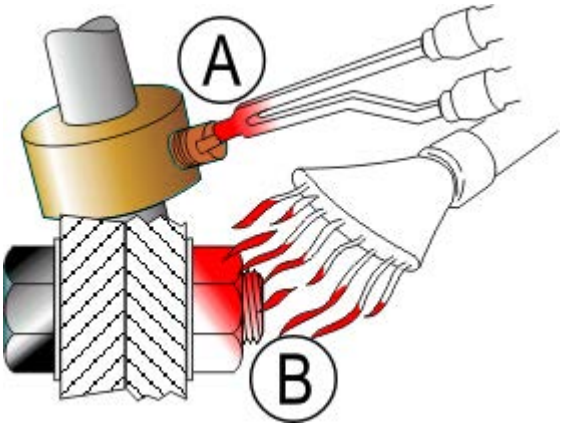
Application	Legend
	**A.** No threadlocker here **B.** Apply the threadlocker to this area **x.** Nut depth

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

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

Figure 4: Disassembly

Apply Heat to a Small Area



Legend

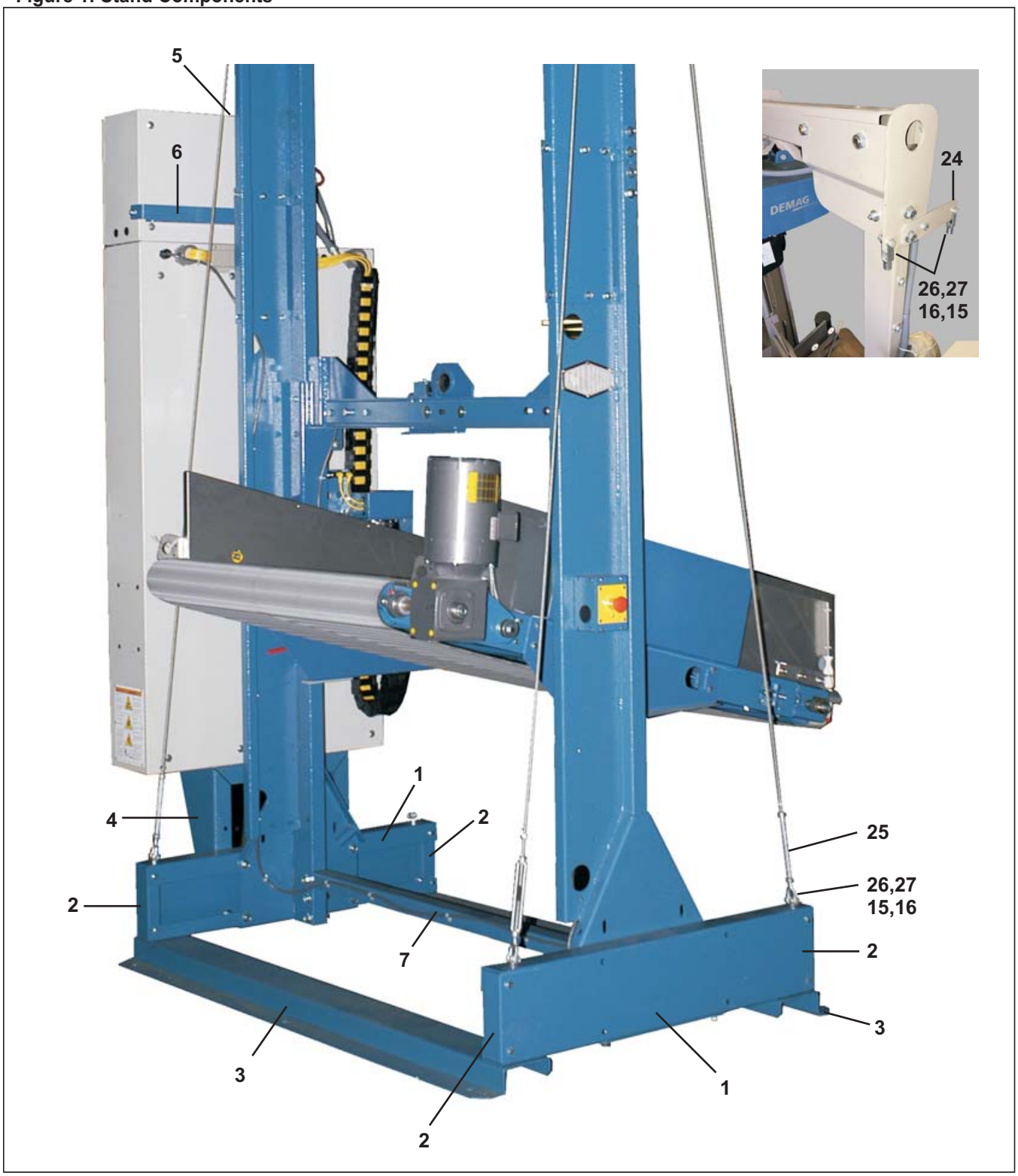
A. How to apply heat to a small fastener
B. How to apply heat to a large fastener

— End of BIUUUM04 —

Stand Assembly

COLFM111,112, COLFP111,112, COLFQ111,112

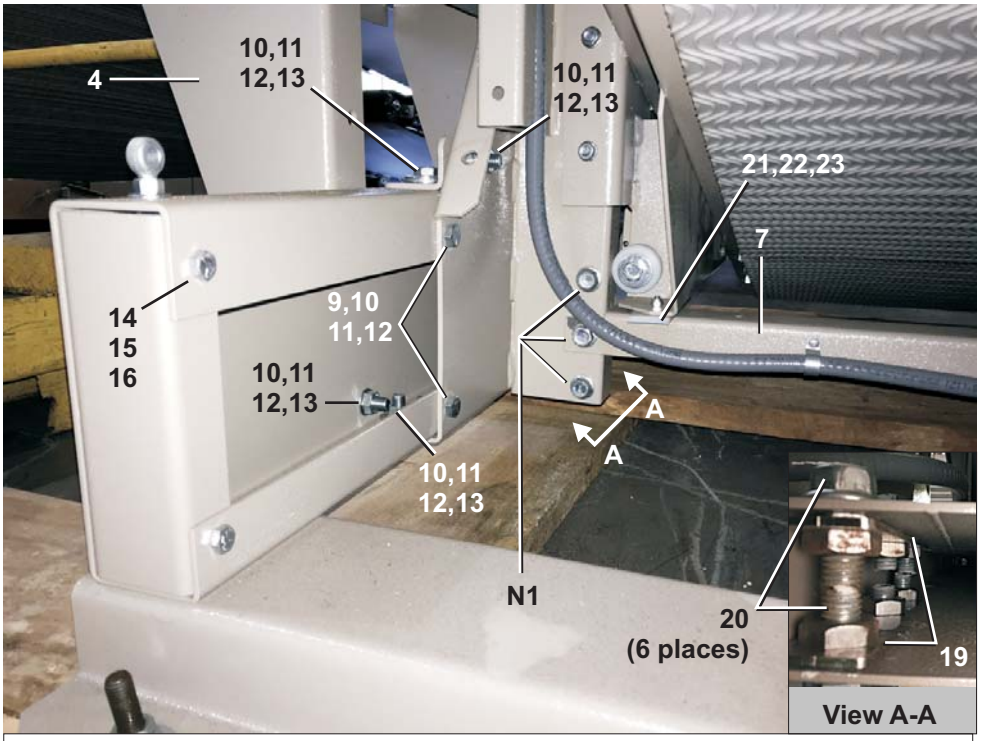
Figure 1: Stand Components



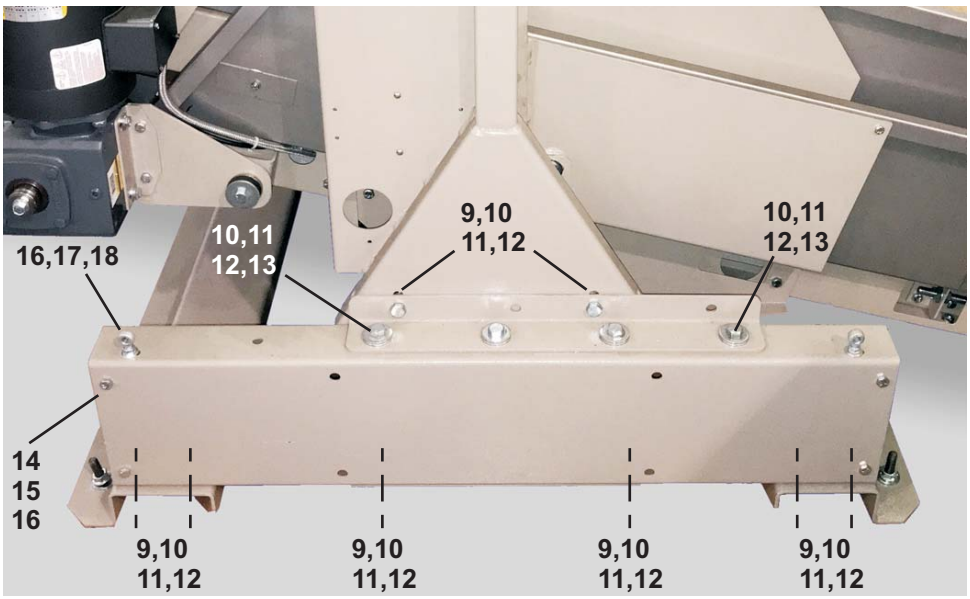
Stand Assembly

COLFM111,112, COLFP111,112, COLFQ111,112

Figure 2: Mounting Hardware



N1	The bottom beam, item 7, acts as a mechanical stop for the beds' downward travel. Raise or lower the stop by bolting item 7 in one of the 3 sets of holes provided.



Stand Assembly

COLFM111,112, COLFP111,112, COLFQ111,112

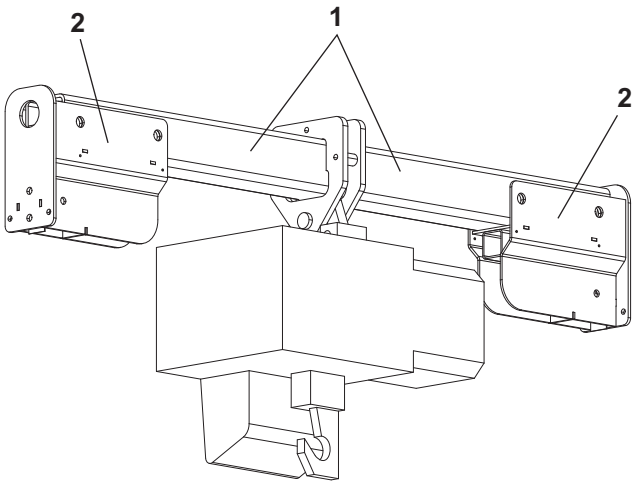
Parts List

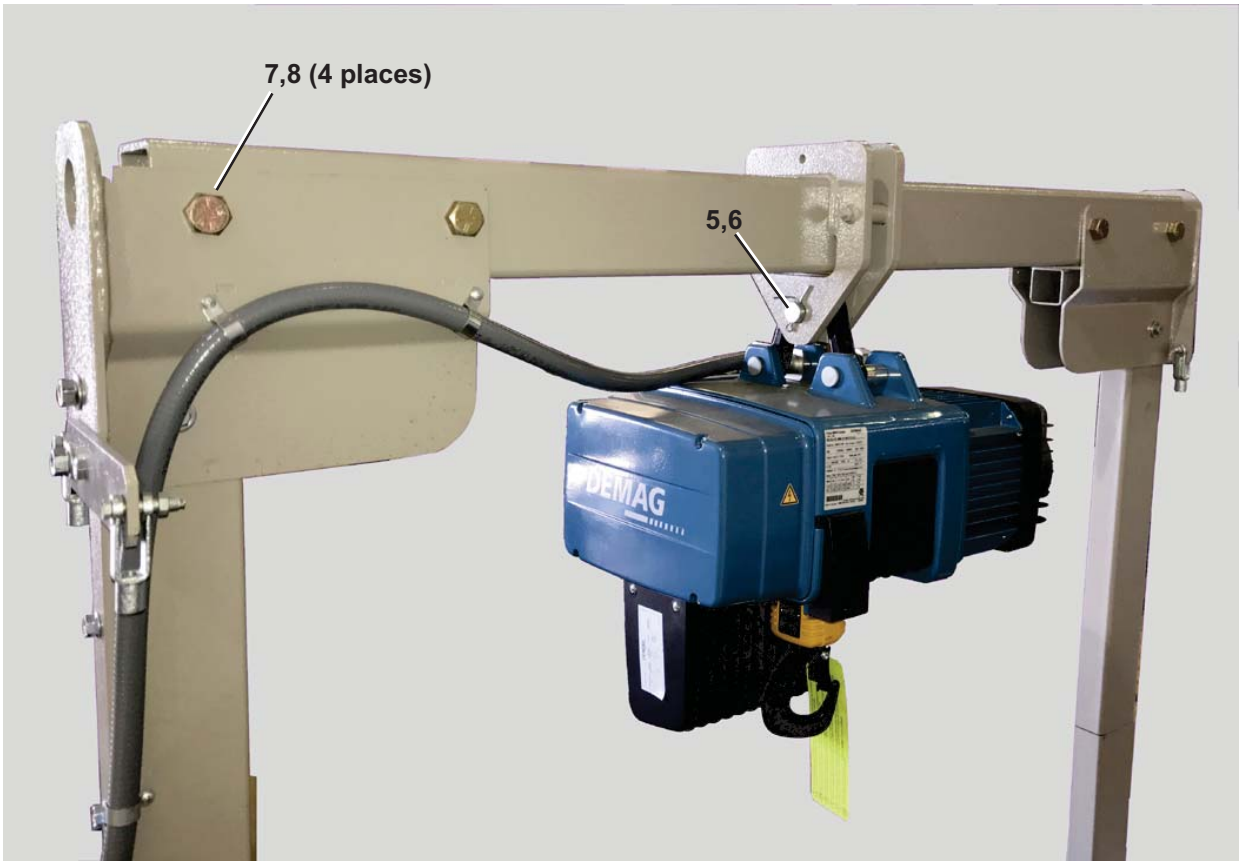
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A	ALC50078	STAND ASSEMBLY-COLFM/P	
			COMPONENTS	
all	1	04 22305	STAND-COLFM/P	
all	2	04 22306	STAND END CHANNEL	
all	3	04 22307	STAND CROSS MEMBER	
all	4	04 22308	CRTLBOX BASE-COLFM/P	
all	5	04 22310A	CTRLBOX TOP MTG BRKT	
all	6	04 22310	CONTROLBOX TOP HOLDER	
all	7	04 23317	VERTRAIL BOTTOM BEAM COLFM	
all	9	15K147	HXCAPSCR 1/2-13UNC2X1 GR5 ZINC	
all	10	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	11	15U286	FLATWASHER 2"0DX17/32"IDX1/4"	
all	12	15G230	HXNUT 1/2-13UNC2B SAE ZINC GR2	
all	13	15K154A	HEXCAPSCR 1/2-13X1.5 G8 ZN	
all	14	15K085	HEXCAPSCR 3/8-16UNC2AX3/4 GR5	
all	15	15U255	LOCKWASHER MEDIUM 3/8 ZINCPL	
all	16	15G205	HXNUT 3/8-16UNC2B ZINC GR2	
all	17	15U240	FLATWASHER(USS STD) 3/8" ZNC P	
all	18	17A061	EYE END 3/8-16X1.5 ZINC	
all	19	04 20198	NUT STRIP 1/2"-13UN-SIDERAIL	
all	20	15K128	HEXFLGSCR 1/2-13X1 ZN. GRD. 5	
all	21	X4 23326	BED SLIDE UHMW PAD	
all	22	15N176	FLATMACSCR 1/4-20NCX3/4SS18-8	
all	23	15G164NE	HEXLOKNUT NYL 1/4-20 UNC2A SS	
all	24	04 23432	VERTRAIL TIE-ROD BAR M/P/Q111	
all	25	17A075	TURNBUCKLE 3/8X 6 JAW ZINC	
all	26	17A010	ADJ YOKE 3/8-16 EMPIGARD COAT	
all	27	15G304	HEXCOUPLINGNUT 3/8-16UNC ZINC	

Top Beam Assembly

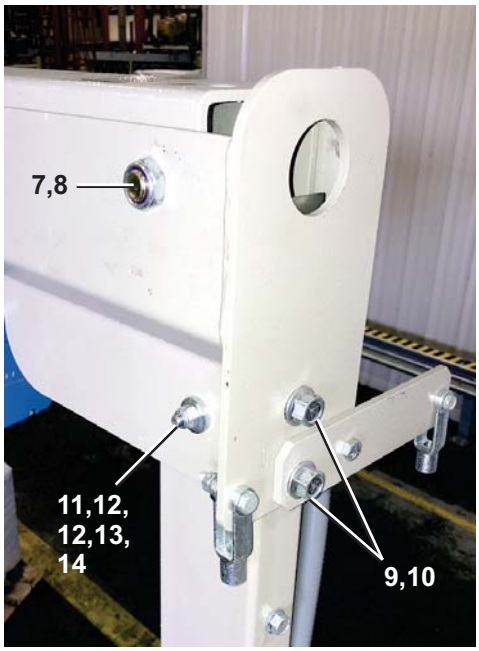
COLFM111/112, COLFP111/112, COLFQ111/112, COLFR111/112
COSHM111/112, COSHP111/112, COSHQ111/112, COSHR111/112





Top Beam Assembly

COLFM111/112, COLFP111/112, COLFQ111/112, COLFR111/112
COSHM111/112, COSHP111/112, COSHQ111/112, COSHR111/112



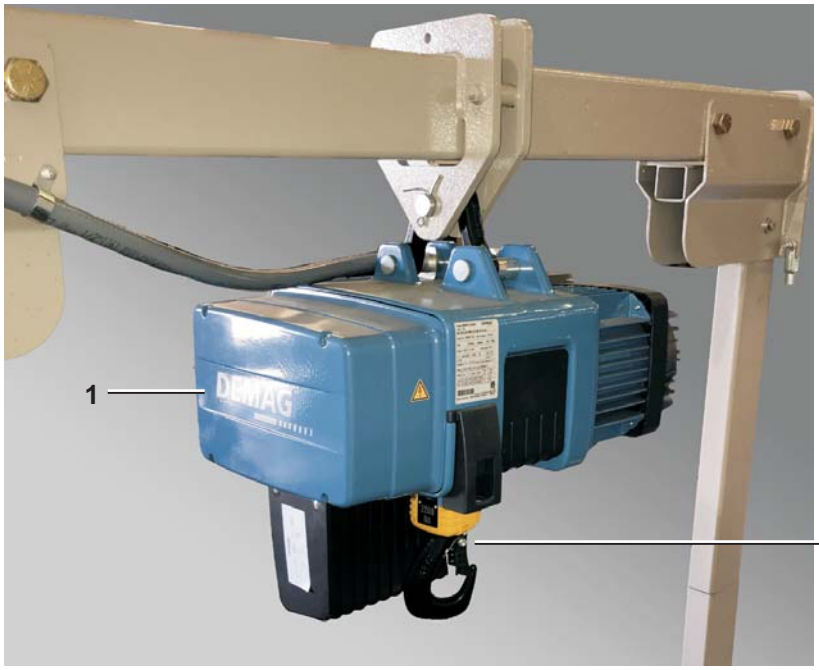
Parts List

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

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	ALC420001P	TOP BEAM ASSEMBLY-COSHM/P/Q	
	B	ALC420001R	TOP BEAM ASSEMBLY-COSHR	
			----------COMPONENTS----------	
A	1	W4 23484	TOP BEAM WLMT-COSHM/P/Q	
B	1	W4 22745	TOP BEALM WLMT-COSHR	
all	2	W4 22730	TOP BEAM SUPPORT WLMT-COSHR	
all	3	04 21159	HOIST CABLE STRAP	
all	4	12P11CSB	SNAPBUSH 1.093"MH X .94"ID HEYCO#2166	
all	5	X4 24646	CLEVIS PIN 1"X3.13LG 304 SS	
all	6	15H060	STDCOTTERPIN 3/16X2 ZINCPL	
all	7	15K235G	HEXCAPSCR 3/4-10UNC2AX5" GR8	
all	8	15G246NT	HEXTHINNUT 3/4-10 STL/ZNC W/NY	
all	9	15K151	HXCAPSCR 1/2-13UNC2AX1.25 GR5	
all	10	17N080	1/2-13 GRIPNUT ZINC #C7968-121	
all	11	15K198	HEXCAPSCR 1/2-13UNC2AX3 GR5 ZI	
all	12	15U280	FL+WASHER(USS STD)1/2 ZNC PL+D	
all	13	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	14	15G234N	HXLOCKNUT NYL 1/2-13UNC2 STL/Z	

Hook Mounted Chain Hoist

Shuttles & Elevators



Check the chain to insure it is not twisted. Lubricate the chain per the Maintenance Guide. See also, the hoist manufacturer's manual.

Parts List

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

Used In	Item	Part Number	Description	Comments
----------	----------	----------	----------COMPONENTS----------	----------
all	1	27KH050A83	DEMAGHOIST 2TON 24FPM 380V60	
all	1	27KH050A89	DEMAGHOIST 1TON48FPM 460V60	
all	1	27KH050A88	DEMAGHOIST 1 TON 24FT/MIN 460V	
all	1	27KH050A92	DEMAGHOIST 1TON39FPM 380-415V/3/50	
all	1	27KH050A81	DEMAGHOIST 2TON 24FPM 460V	
all	1	27KH04816	HOIST 1TON 48FPM 230V60 COFF#EC2048-2-20	
all	1	27KNER010A	HOIST 1TON 28FPM 230/460V	

Bed Lifting Frame & Cross Member

COLFM111, COLFM112, COSHM111, COSHM112

Figure 1: Bed Lifting Frame for One Bed

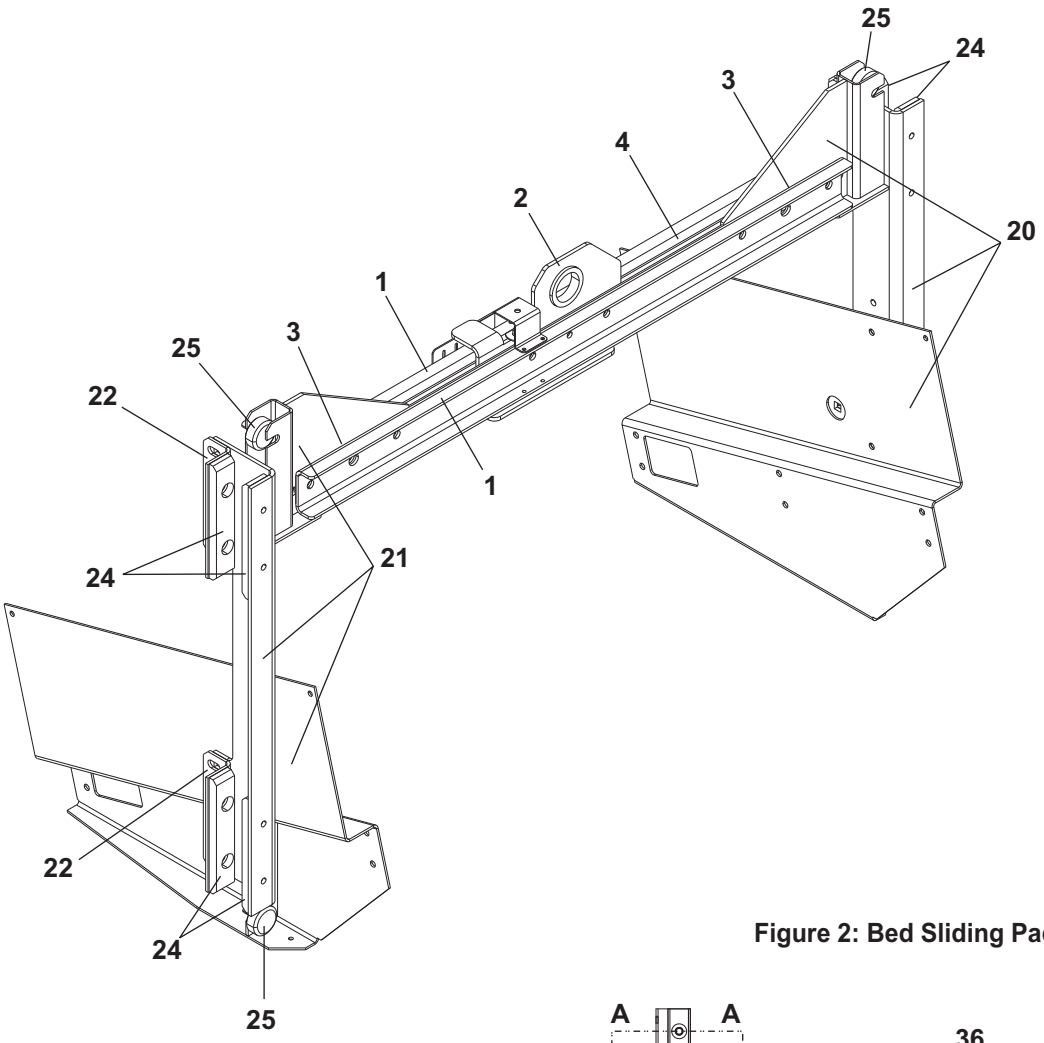
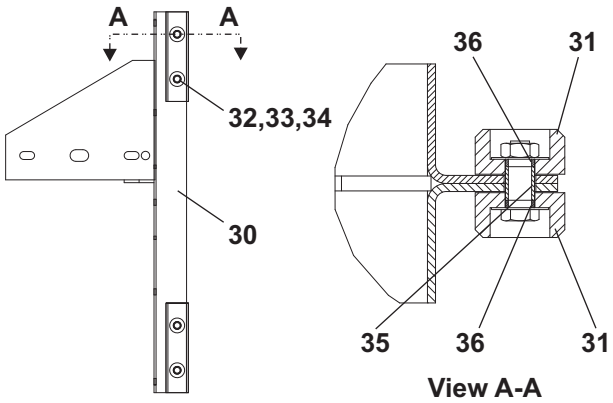


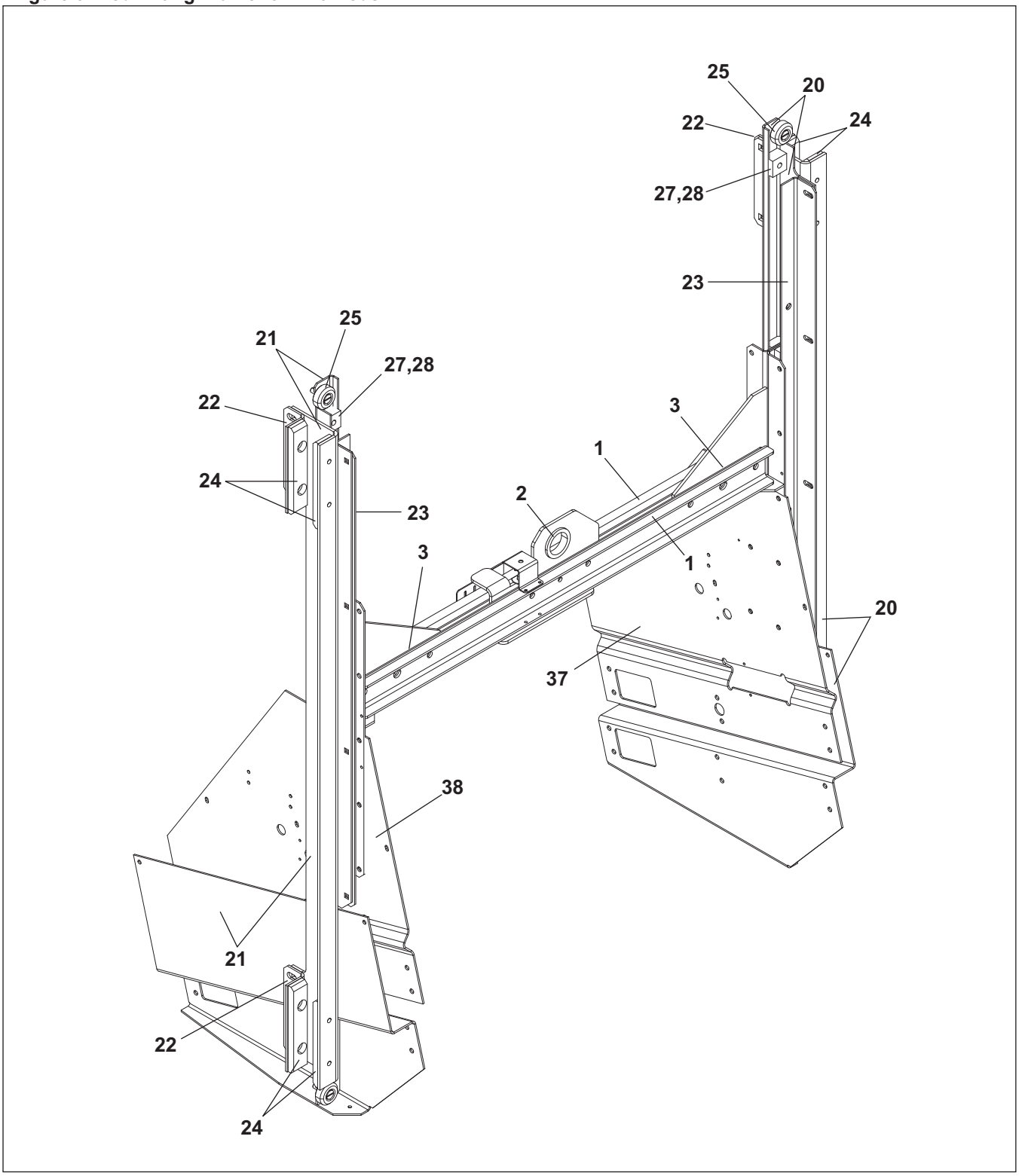
Figure 2: Bed Sliding Pads



Bed Lifting Frame & Cross Member

COLFM111, COLFM112, COSHM111, COSHM112

Figure 3: Bed Lifting Frame for Two Beds



Bed Lifting Frame & Cross Member

COLFM111, COLFM112, COSHM111, COSHM112

Figure 4: Bottom View of Cross Member, Side Slides, Wheels and Stops

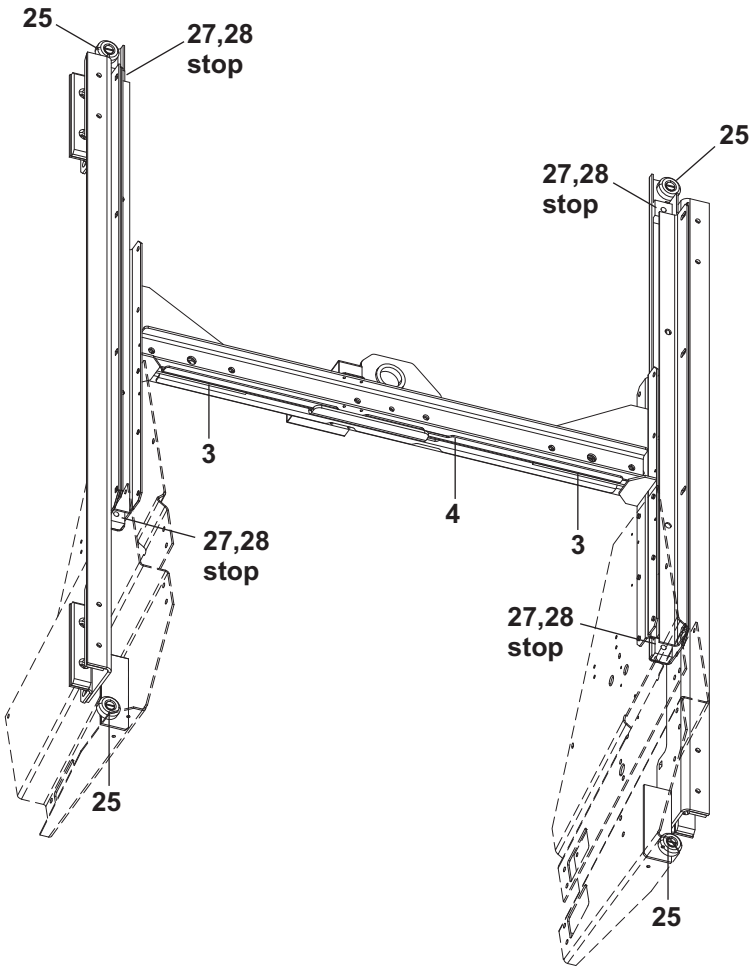
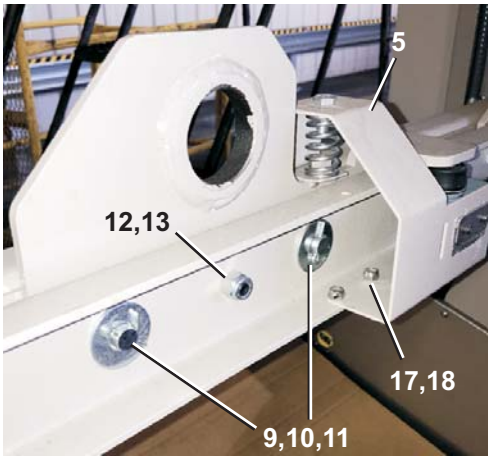
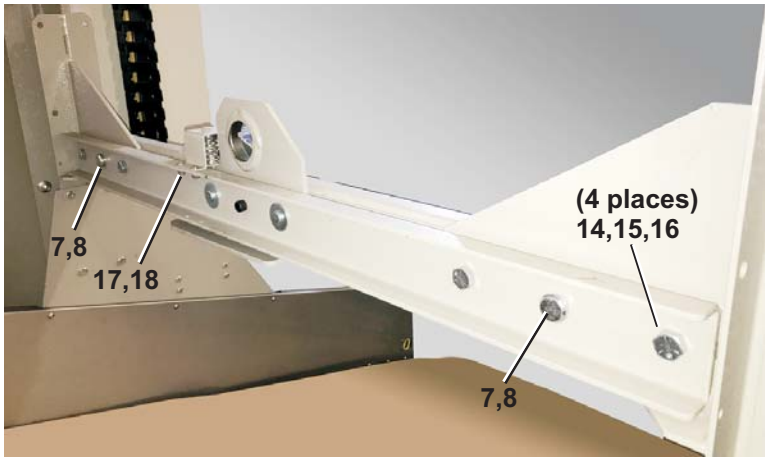


Figure 5: Lifting Cross Member

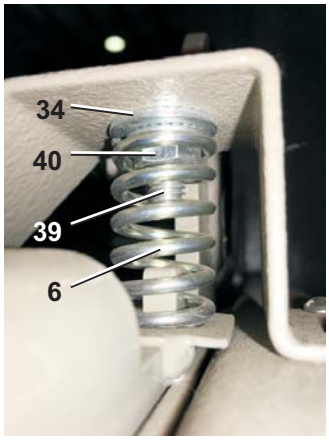


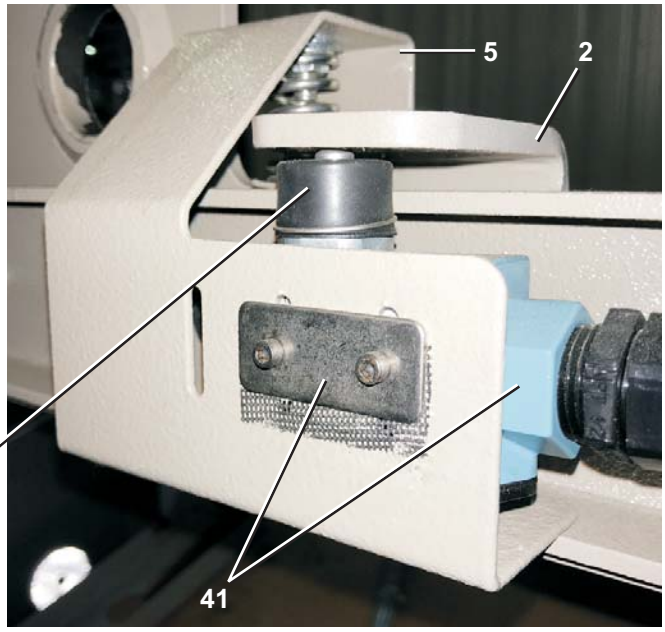


Bed Lifting Frame & Cross Member

COLFM111, COLFM112, COSHM111, COSHM112

Figure 6: Slack Chain Switch





Slack Chain Switch With no load on the lifting assembly, position the slack chain proximity switch to look as shown in this photo, touching the target. The slotted holes allow for vertical adjustment.

The slack chain switch is actuated when the beds reach full down. When the switch is actuated, the beds rise to load.

Parts List

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

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	ALC420002T	BED LIFTING FRAME	COLFM111, COSHM111
	B	ALC420002M	BED LIFTING FRAME	COLFM112, COSHM112
	C	ALC50088	LF/RT SIDE SLIDER	COLFM111, COSHM111
	D	ALC50082	LF/RT SIDE SLIDER	COLFM112, COSHM112
	E	ALC50055	BED ASSY 44WX62L	REFERENCE
			----------COMPONENTS----------	
all	1	04 23375	BED LIFTING CHANNEL	
all	2	W4 23347	BED LIFT PLATE WLMT	
all	3	04 23482	LIFTING X-MEMBER SHIM	
all	4	04 23376	BED LIFTING CHAN SPACER	
all	5	04 23373A	SLACKCHAIN SW BRKT-COSHM	
all	6	02 18187	SPRING=OUTER DOOR 60 WEHU	
all	7	X4 24647	CLEVIS PIN 3/4"X1.75LG 304SS	
all	8	15H060	STDCOTTERPIN 3/16X2 ZINCPL	
all	9	X4 24648	CLEVIS PIN 1/2"X1.50LG 304 SS	

Bed Lifting Frame & Cross Member

COLFM111, COLFM112, COSHM111, COSHM112

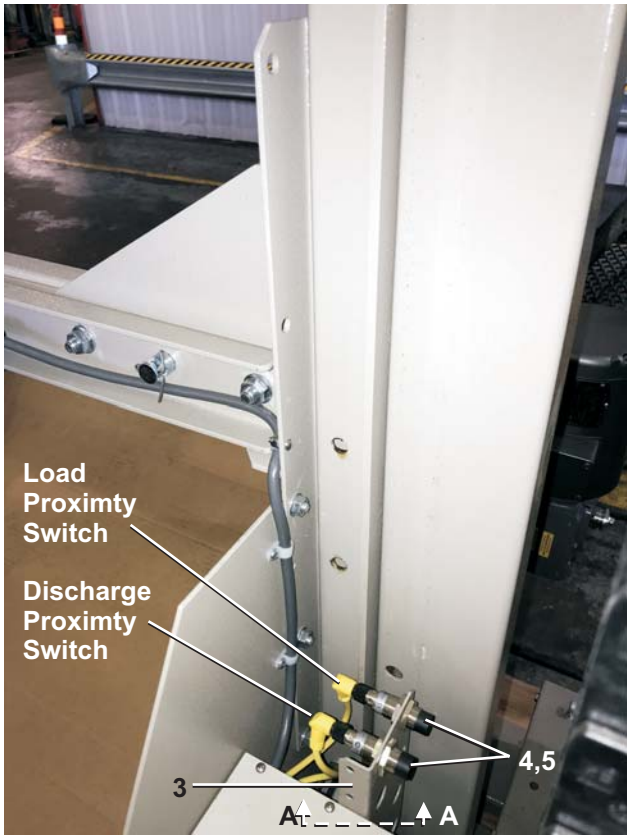
Parts List

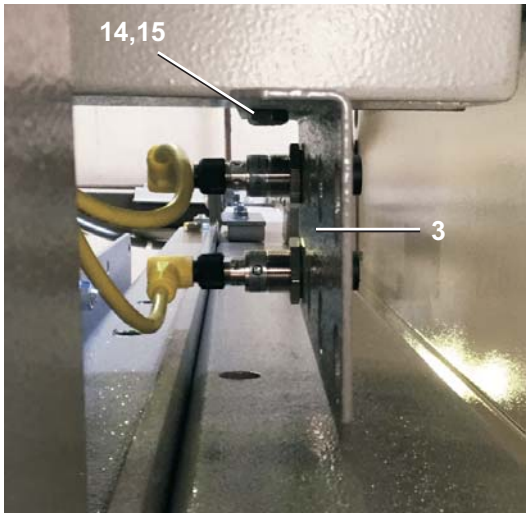
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
all	10	15H040	STDCOTTERPIN 1/8X3/4 ZINCPL	
all	11	15U280	FL+WASHER(USS STD)1/2 ZNC PL+D	
all	12	15K111	SKCPSC3/8-16 UNC3 X 1.5 BLK	
all	13	15G207	HEXLIGHTLOKNUT 3/8-16 18-8SS N	
all	14	15K171B	HEXCAPSCR 1/2-13X1+3/4 GR8 ZIN	
all	15	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	16	15G230	HXNUT 1/2-13UNC2B SAE ZINC GR2	
all	17	15N141	RDMACSCR 10-24NCX3/4 SLOTTED S	
all	18	15G126	HXLOCKNUT NYLON 10-24 UNC SS N	
A	20	W4 22263	SIDE SLIDER -LF	
B	20	W4 22248	SIDE SLIDER -LF	
A	21	W4 22263A	SIDE SLIDER -RT	
B	21	W4 22248A	SIDE SLIDER -RT	
all	22	04 22243	MAIN SLIDER ADJ ANGLE	
all	23	04 22245	UPPER BED SLIDER ADJ ANGLE	
all	24	X4 23391	TRACK SLIDER UHMW BAR	
all	25	ALC50155	BED LIFT GUIDE WHEEL ASSY	
all	26	X4 23326	BED SLIDE UHMW PAD	
all	27	02 19283	NUT=1/2-13UNCX1+1/2SQ SPEC	
all	28	15K153H	INDHEXFLGSCR1/2-13X1+1/4GR8ZN W/LOCTITE	
all	30	W4 23308	UPPER BED SLIDER WLMT (COLOR=AZURE BLUE)	
all	31	04 23322	UPPER BED SLIDER PAD	
all	32	15K105	HXCAPSCR 3/8-16UNC2A1.25 GR5 P	
all	33	15G218	HXLOKNUT NYL 3/8-16 STL/ZNC	
all	34	15U200	FLATWASHER(USS STD) 5/16"ZNC P	
all	35	27B2100G0L	SPCRROLL.39ID.562L.048T STLZNC	
all	36	27B25002SZ	SPCRROLL.39ID.125L.048T STLZNC	
all	37	04 23304	TOP BED MTG 15DEG-LF	
all	38	04 23304B	TOP BED MTG 15DEG-RT	
all	39	15K065	HEXCAPSCR 5/16-18UNC2AX1 GR5 Z	
all	40	15G196	HXFLGNUT 5/16-18 ZINC	
all	41	09R012STDG	* 09R012 +MOUNTING HDWRE+INST	

Bed Stop Targets and Switches

COLFM111/112, COLFP111/112, COLFQ111/112
COSHM111/112, COSHP111/112, COSHQ111/112





View A-A: (Bottom View)

Bed Stop Targets and Switches

COLFM111/112, COLFP111/112, COLFQ111/112
COSHM111/112, COSHP111/112, COSHQ111/112

Parts List

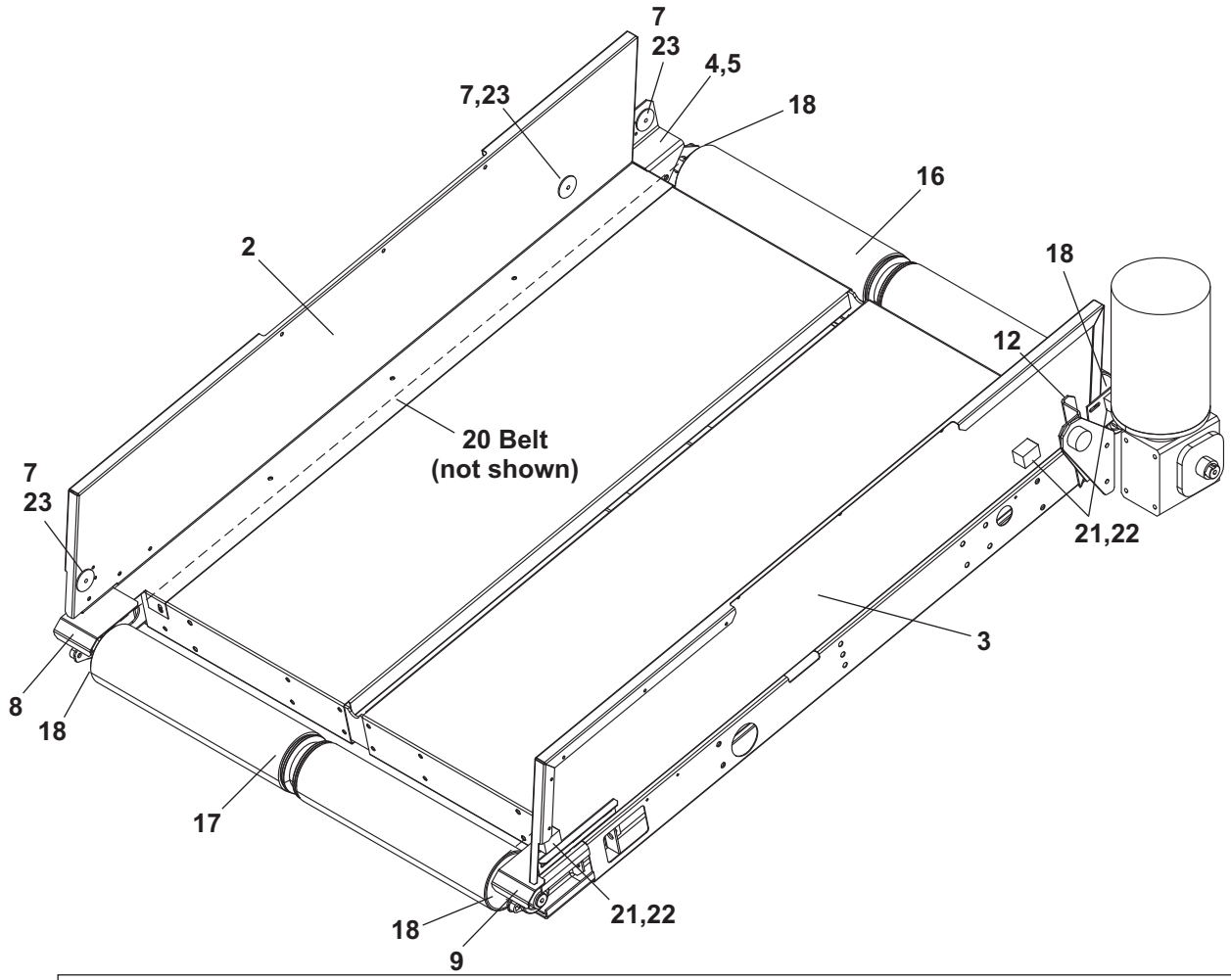
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	ALC50079	LOAD TARGET ASSY-COSHM	REFERENCE
	B	ALC50080	DISCHARGE TARGET ASSY-COSHM	REFERENCE
	C	ES112PXA	FEST/PROX/COUNTER ASSY	REFERENCE
			----------COMPONENTS----------	
all	1	04 23344	BED STOP TARGET-LOAD	
all	2	04 23344A	BED STOP TARGET-DISC	
all	3	04 23360	BED STOP SW MTG	
all	4	09RPM18ADU	PRXSW QD CONN 18M NO-DC UNSHLD	
all	5	09RPMCD902	CONN.90-DEG FEMLE DC 3A300V 2M	
all	6	09RPMCD905	CONN 90-DEG FEMLE DC 3A300V 5M	
all	7	15K047	HXCAPSCR 1/4-20UNCX2+1/2 ZINC	
all	8	15U180	LOCKWASHER MEDIUM 1/4 ZINCPL	
all	9	15U185	FLATWASHER(USS STD) 1/4" ZNC P	
all	10	17N058	HEXRIVNUT 1/4-20 UNC-2B #2520-	
all	11	17M010	#8-32X3/8" FPHMSUC ZINC	
all	12	15U210	LOKWASHER MEDIUM 5/16 ZINCPL	
all	13	15G100	HXMACHSCRNUT 8-32UNC2B ZINC GR	
all	14	15K038C	1/4-20X 3/4 HEXFLANGE SCRW SS	
all	15	15G178	1/4"-20 HEXFLANGE NUT ZINC	

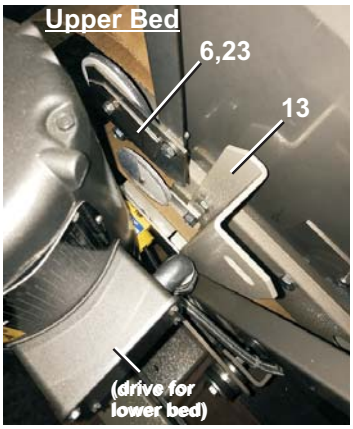
Single Bed or Upper Bed 44 x 62

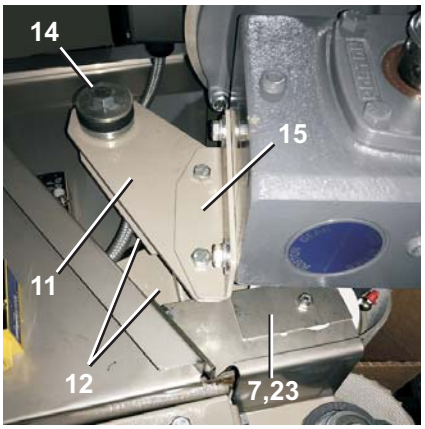
COLFM111, COLFM112, COSHM111, COSHM112

Figure 2: Single Bed or Upper Bed (44” x 62”)



N1	To order gear reducers, supply the parts department with your gear reducer’s serial number and gear ratio. See the gear reducer’s nameplate.

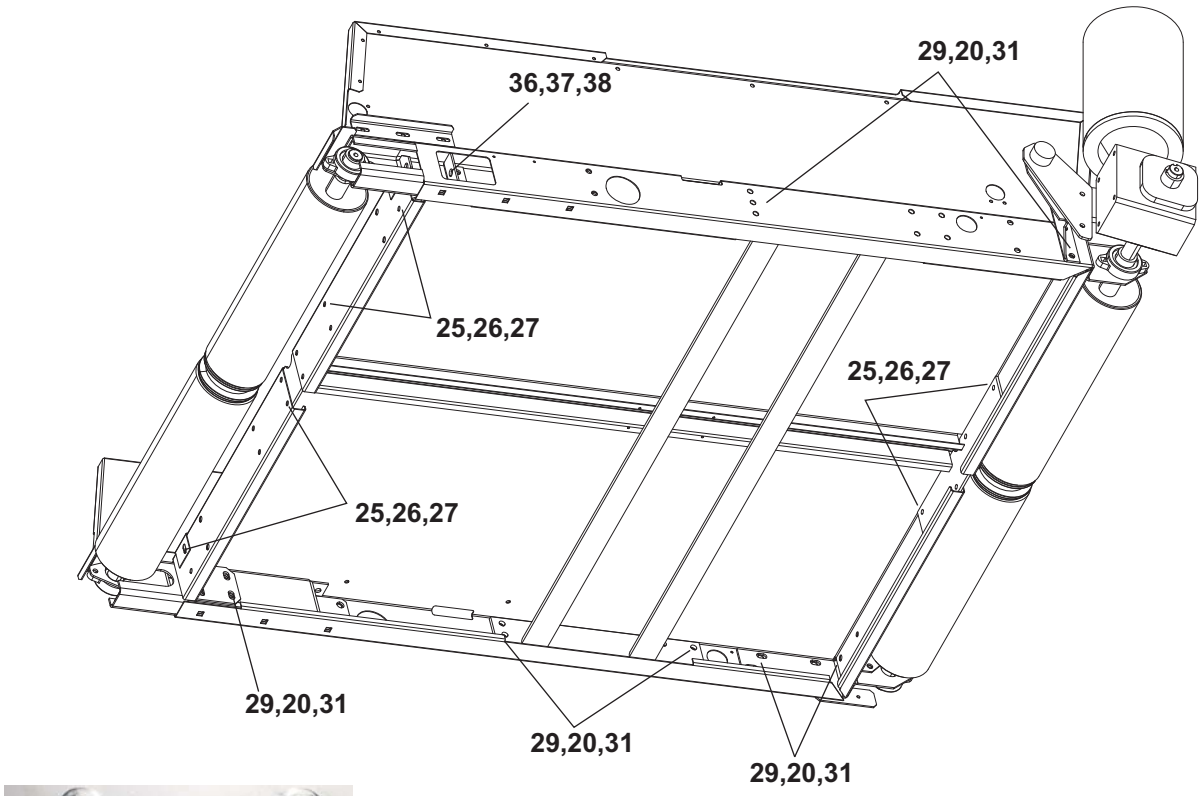


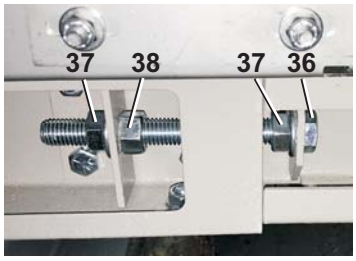


Single Bed or Upper Bed 44 x 62

COLFM111, COLFM112, COSHM111, COSHM112

Figure 2: Typical Hardware





Single Bed or Upper Bed 44 x 62

COLFM111, COLFM112, COSHM111, COSHM112

Parts List

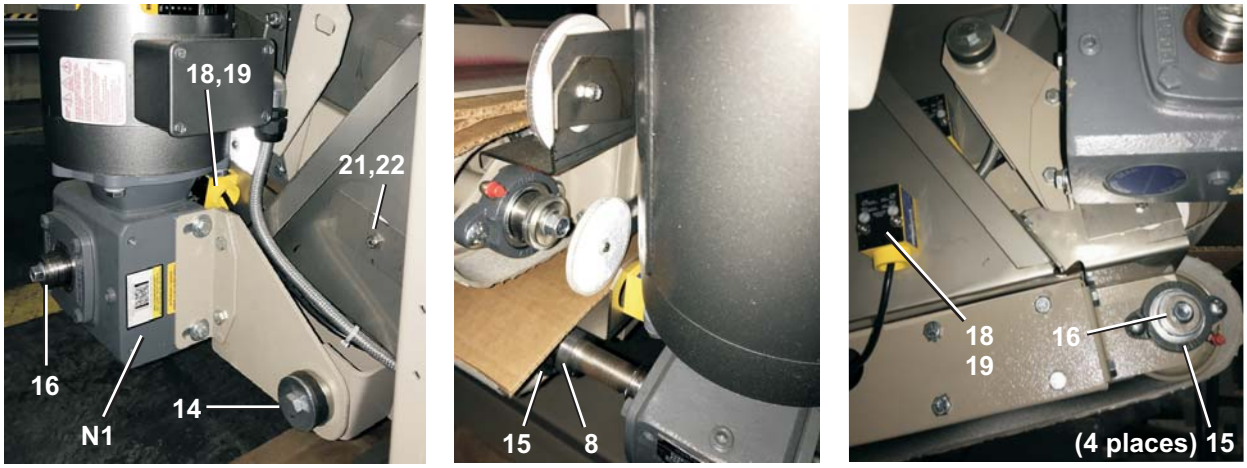
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A	ALC50066	BED ASSY 44WX62LG-COSHM112	
			COMPONENTS	
all	1	ALC50081	BED FRAME 44WX62LG ASSEMBLY	
all	2	04 22256	SIDE UPPER 62L BED-RT	
all	3	04 22256A	SIDE UPPER 62L BED-LF	
all	4	04 22283	UNLOAD BRNG COVER 44W-RT	
all	5	04 22283A	UNLOAD BRNG COVER 44W-LF	
all	6	04 22287	REFLECTOR MOUNTING PLATE	
all	7	09RPE001A	REFLECTOR 3"DIA CLEAR	
all	8	04 22285	ROLLER BRNG COVER 44W BED-RT	
all	9	04 22285A	ROLLER BRNG COVER 44W BED-LF	
all	10	54JH11000A	SHAFTCOLLAR 1" CLPTYPE CFG#16A	
all	11	04 22258	TORQARM-12DEG UPPER BED-RT	
all	12	04 22259A	TORQARM BRKT UPPER BED-LF	
all	13	04 22259	TORQARM BRKT UPPER BED-RT	
all	14	ALC420063	TORQUE ARM BUSHING ASSEMBLY	
all	15	04 22260B	TORQARM ADP ANGLE-SF718	
all	16	Y4 20832E	DRVROLLER 4.50D X 53" OAL	
all	17	Y4 20832G	IDLER ROLLER 4.50D X 44.5" OAL	
all	18	54AF10001	FLG BRG 1" BROWN#VF2S-116M (2BOLT FLG)	
all	20	ALC50164	BELT+LACING FOR 'M' BED	
all	21	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	
all	22	03 BL1X2V	BRKT:Q40 SERIES PHOTOEYE MNT	
all	23	03 BF2X4W	MOUNT PLT=PHOTO REFLECTOR	
all	25	15K065	HEXCAPSCR 5/16-18UNC2AX1 GR5 Z	
all	26	15U210	LOKWASHER MEDIUM 5/16 ZINCPL	
all	27	15G185	HXNUT 5/16-18UNC2B SAE ZINC GR	
all	28	15A008C	CARRBOLT 5/16-18NCX1"ZINC GR-	
all	29	15K095	HXCPSCR 3/8-16UNC2AX1 GR5 ZINC	
all	30	15U255	LOCKWASHER MEDIUM 3/8 ZINCPL	
all	31	15G205	HXNUT 3/8-16UNC2B ZINC GR2	
all	32	15K091H	HEXFLGSCR 3/8-16X3/4 ZN GRD.5	
all	33	15U245A	FLTWASH 25/64IDX1.25ODX3/32 S/	
all	34	15U241MB	FLAT WASHER-1.50D 1+1/32ID 10G	
all	35	15U343	FLATWASH 1X25/64X1/8 ZINC	
all	36	15K203	HXTAPSCR TFL 1/2-13X5 GR5 ZINC	
all	37	15G230	HXNUT 1/2-13UNC2B SAE ZINC GR2	
all	38	15G222B	HEXFLGNUT 1/2-13 ZINC SERRATED	

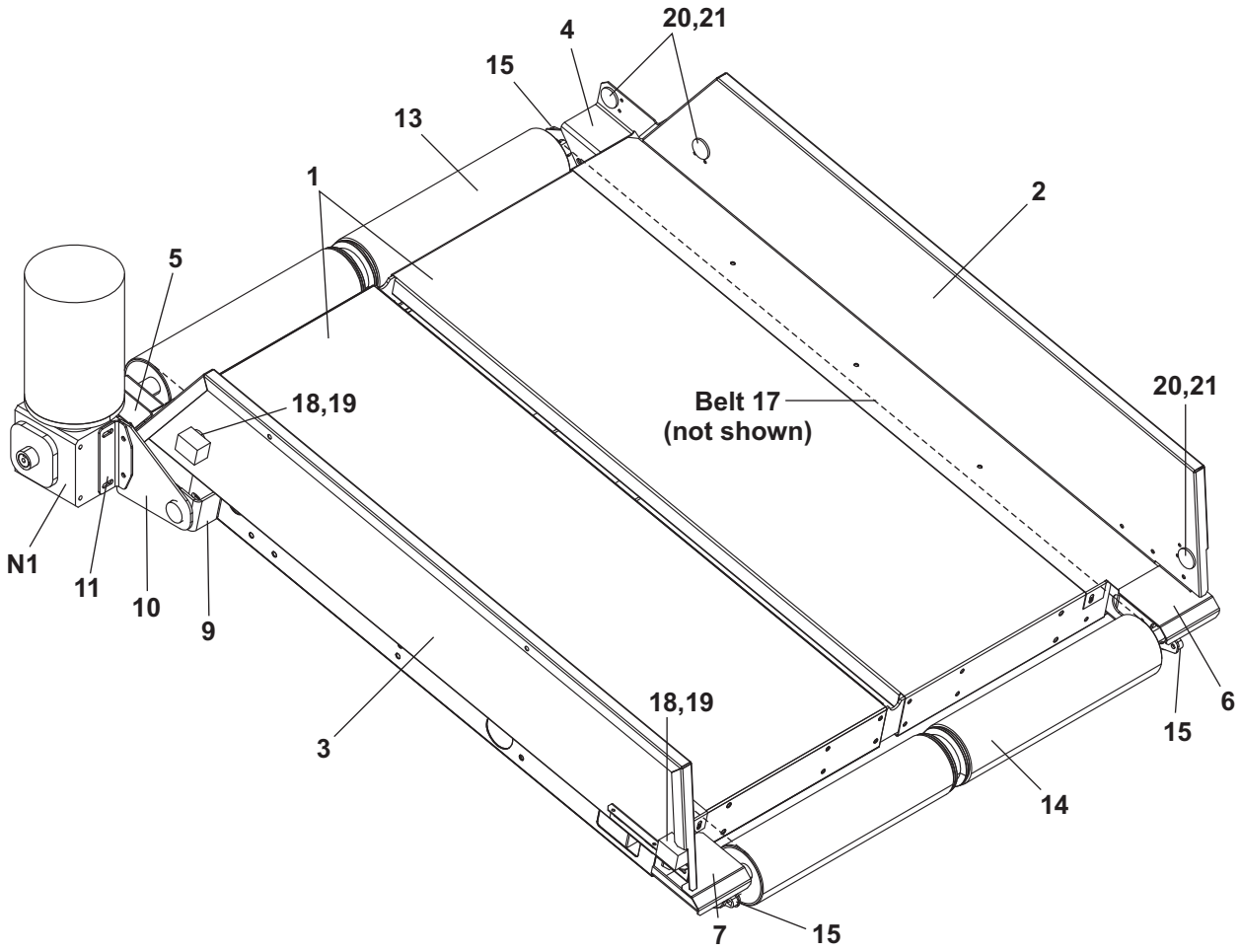
Lower Bed 48 x 62

COLFM112, COSHM112

Figure 1: Lower Bed (48" x 62")



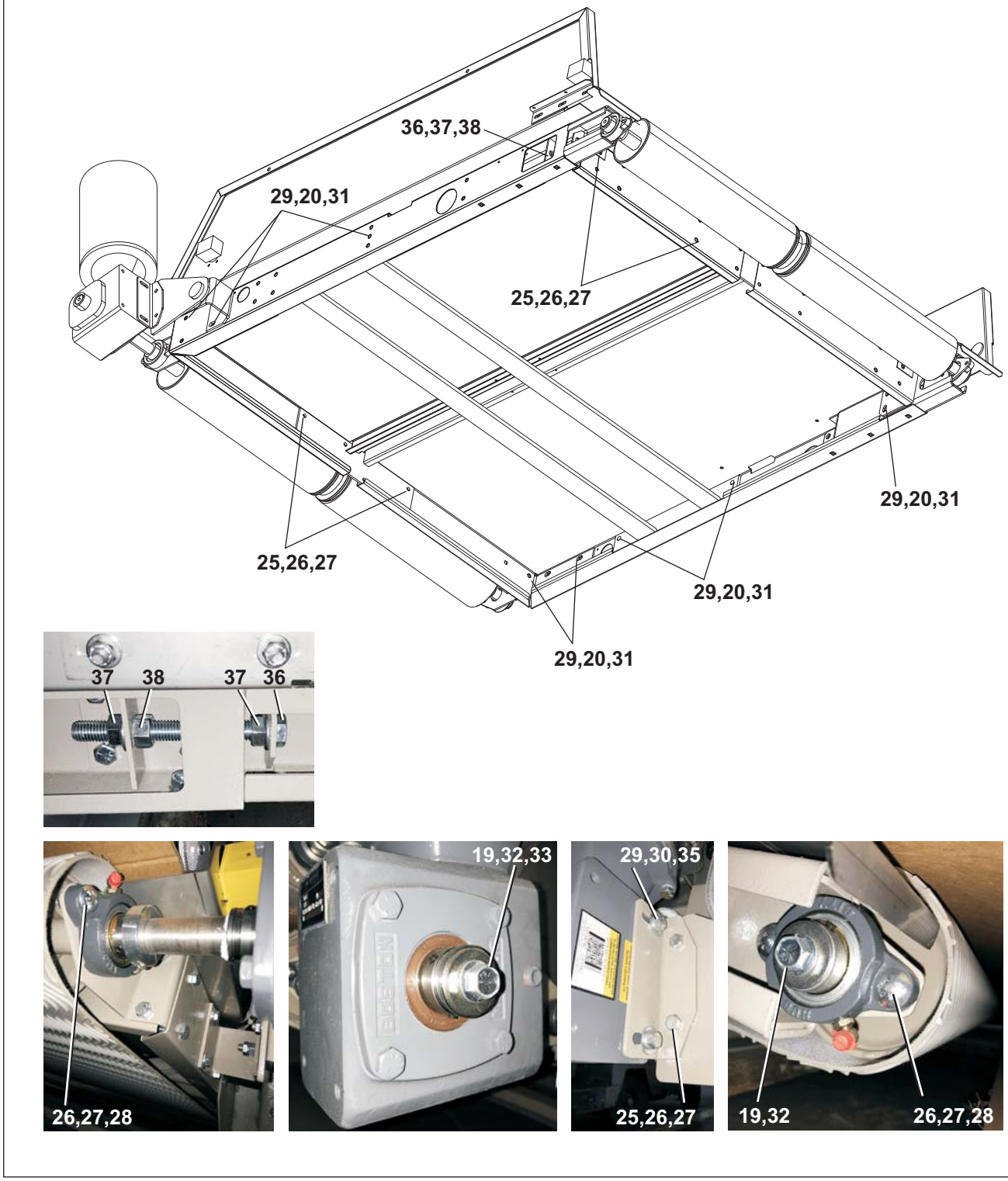
N1	To order gear reducers, supply the parts department with your gear reducer's serial number and gear ratio. See the gear reducer's nameplate.



Lower Bed 48 x 62

COLFM112, COSHM112

Figure 2: Typical Hardware



Lower Bed 48 x 62

COLFM112, COSHM112

Parts List

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

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	ALC50067	BED ASSY 48WX62LG-COSHM112	
			----------COMPONENTS----------	
all	1	ALC50081	BED FRAME 44WX62LG ASSEMBLY	
all	2	04 22257	SIDE LOWER 62L BED-RT	
all	3	04 22257A	SIDE LOWER 62L BED-LF	
all	4	04 22282	UNLOAD BRNG COVER 48W-RT	
all	5	04 22282A	UNLOAD BRNG COVER 48W-LF	
all	6	04 22286	ROLLER BRNG COVER 48W BED-RT	
all	7	04 22286A	ROLLER BRNG COVER 48W BED-LF	
all	8	54JH11000A	SHAFTCOLLAR 1" CLPTYPE CFG#16A	
all	9	04 22233	TORQUE ARM GROMET MTG BRKT	
all	10	04 22260	TORQARM-12DEG LOWER BED	
all	11	04 22260B	TORQARM ADP ANGLE-SF718	
all	12	ALC420063	TORQUE ARM BUSHING ASSEMBLY	
all	13	Y4 20832E	DRVROLLER 4.50D X 53" OAL	
all	14	Y4 20832G	IDLER ROLLER 4.50D X 44.5" OAL	
all	15	54AF10001	FLG BRG 1" BROWN#VF2S-116M (2BOLT FLG)	
all	17	ALC50164	BELT+LACING FOR 'M' BED	
all	18	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	
all	19	03 BL1X2V	BRKT:Q40 SERIES PHOTOEYE MNT	
all	20	09RPE001A	REFLECTOR 3"DIA CLEAR	
all	21	03 BF2X4W	MOUNT PLT=PHOTO REFLECTOR	
all	25	15K065	HEXCAPSCR 5/16-18UNC2AX1 GR5 Z	
all	26	15U210	LOKWASHER MEDIUM 5/16 ZINCPL	
all	27	15G185	HXNUT 5/16-18UNC2B SAE ZINC GR	
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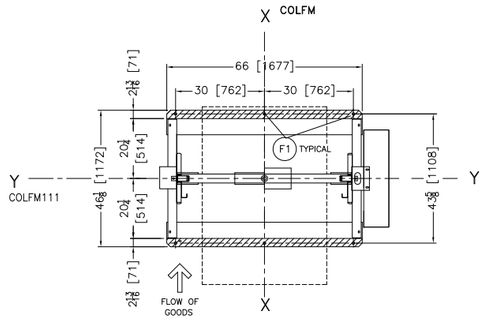
all	31	15G205	HXNUT 3/8-16UNC2B ZINC GR2	
all	32	15K091H	HEXFLGSCR 3/8-16X3/4 ZN GRD.5	
all	33	15U245A	FLTWASH 25/64IDX1.25ODX3/32 S/	
all	34	15U241MB	FLAT WASHER-1.50D 1+1/32ID 10G	
all	35	15U343	FLATWASH 1X25/64X1/8 ZINC	
all	36	15K203	HXTAPSCR TFL 1/2-13X5 GR5 ZINC	
all	37	15G230	HXNUT 1/2-13UNC2B SAE ZINC GR2	
all	38	15G222B	HEXFLGNUT 1/2-13 ZINC SERRATED	

Dimensional Drawings

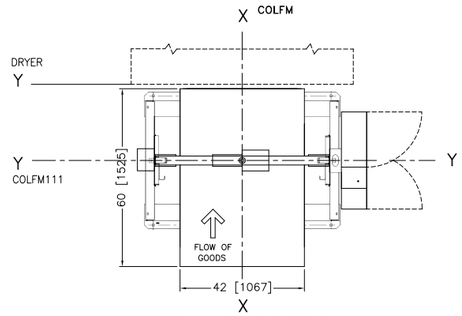
4

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER		COLFM111 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" @5858,@5880 7676,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"											
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–			−10 1/2	267	0	0	27	686	119 1/2	3035	63	1600	57	1449	57 1/2	1460			58 1/2	1486	59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	30 1/2	775	123	3124	66 1/2	1689	60 1/2	1537	61	1549			62	1575	62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	37 1/2	953	130	3302	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	41	1041	133 1/2	3391	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	44 1/2	1130	137	3480	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	48	1219	140 1/2	3569	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032
3 1/2	89	10 1/2	267	7	178	14	356	24 1/2	622	51 1/2	1308	144	3658	87 1/2	2223	81 1/2	2070	82	2083	82 1/2	2096	83	2108	83 1/2	2121
10 1/2	267	17 1/2	445	14	356	21	533	31 1/2	800	58 1/2	1486	151	3835	94 1/2	2400	88 1/2	2248	89	2261	89 1/2	2273	90	2286	90 1/2	2299
17 1/2	445	24 1/2	622	21	533	28	711	38 1/2	978	65 1/2	1664	158	4013	101 1/2	2578	95 1/2	2426	96	2438	96 1/2	2451	97	2464	97 1/2	2477
21	533	28	711	24 1/2	622	31 1/2	800	42	1067	69	1753	161 1/2	4102	105	2667	99	2515	99 1/2	2527	100	2540	100 1/2	2553	101	2565

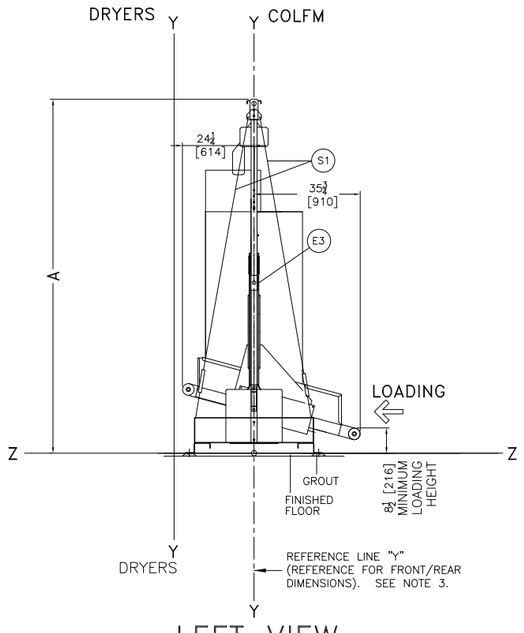
@ = OBSOLETE MODEL INCLUDED ON THIS DRAWING FOR REFERENCE



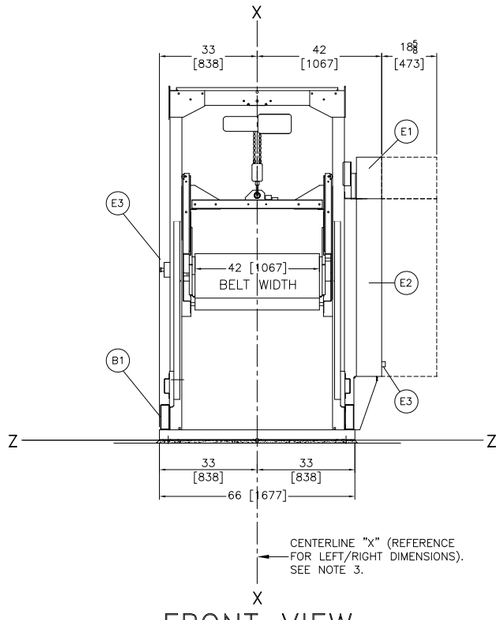
FOUNDATION PLAN



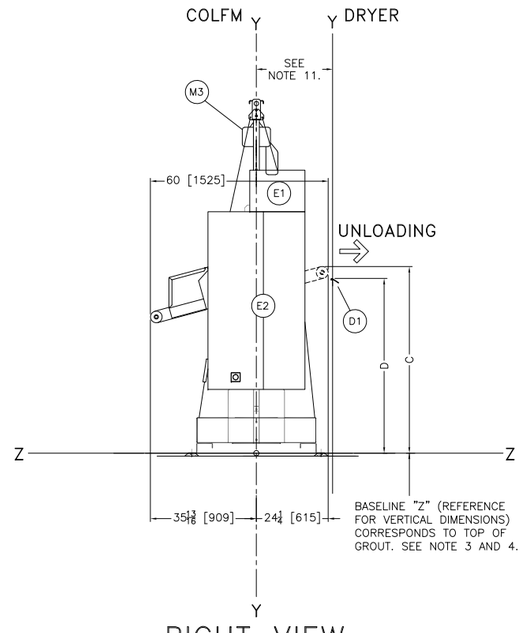
PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
S1	TIE RODS, SUPPLIED ONLY FOR SHUTTLES WITH 48"
	[1624] EXTENDERS OR LONGER.
M3	HOIST MOTOR AND WINCH.
M2	BELT MOTORS, ALTERNATES LEFT/RIGHT PER LEVEL.
M1	DRIVE MOTOR, UNDER CART FRAME, NOT VISIBLE.
F1	ANCHOR BOLT HOLE 7/8" [22] DIAMETER, 6 PLACES
E3	EMERGENCY STOP BUTTON
E2	CONTROL BOX
E1	MICROPROCESSOR BOX
D1	DRYER LOAD SHELF
B1	COLF STAND

NOTES

11 FOR THE DIMENSION FROM "Y" OF THE SHUTTLE TO "Y" OF THE DRYER, SEE THE DRYER DIMENSIONAL DRAWING.

10 THE 6458 DRYER AT "ZERO PEDESTAL" HAS A 41"[1041] HIGH BASE. THE DRYER MAY BE ORDERED TO INCREASE OR DECREASE THE MACHINE HEIGHT, THEREFORE, NEGATIVE PEDESTAL HEIGHTS ARE POSSIBLE. CONSULT MILNOR FACTORY.

9 DIMENSION VARIES WITH HEIGHT OF EXTENDERS WHEN ADDED.

8 EMERGENCY STOPS ARE REQUIRED ON BOTH LEFT AND RIGHT SIDES OF THE COLF. ONE IS INSTALLED INTO THE DOOR OF THE COLF CONTROL BOX.

7 AFTER MACHINE HAS BEEN COMMISSIONED, BELT MAY STRETCH SLIGHTLY REQUIRING ADJUSTMENT OF BELT ROLLERS AND SLIGHT LENGTHENING OF CONVEYOR.

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.

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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.

COLFM111 (60K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFM1AE
2023313D

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

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER COLFM112		COLFM112 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" 7676 DRYERS LOAD HEIGHT		DIMENSION "D" @5858,@5880,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"													
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–	–	–	−10 1/2	267	0	0	48	1219	140 1/2	3569	63	1600	57	1449	57 1/2	1460			58 1/2	1486			59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	51 1/2	1308	144	3658	66 1/2	1689	60 1/2	1537	61	1549			62	1575			62 1/2	1588
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–	–	3 1/2	89	0	0	7	178	17 1/2	445	65 1/2	1664	158	4013	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	69	1753	161 1/2	4102	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032	80	2032
3 1/2	89	10 1/2	267	7	178	14	356	24 1/2	622	72 1/2	1842	165	4191	87 1/2	2222	81 1/2	2070	82	2083	82 1/2	2096	83	2108	83 1/2	2121	83 1/2	2121
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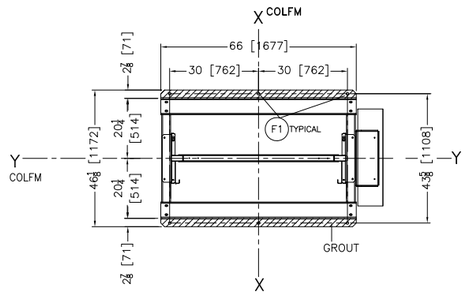
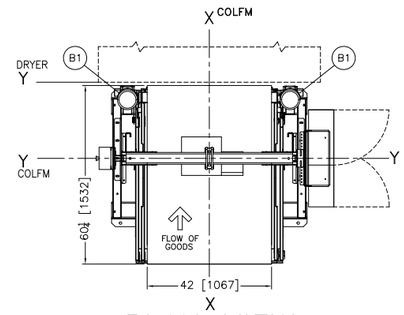
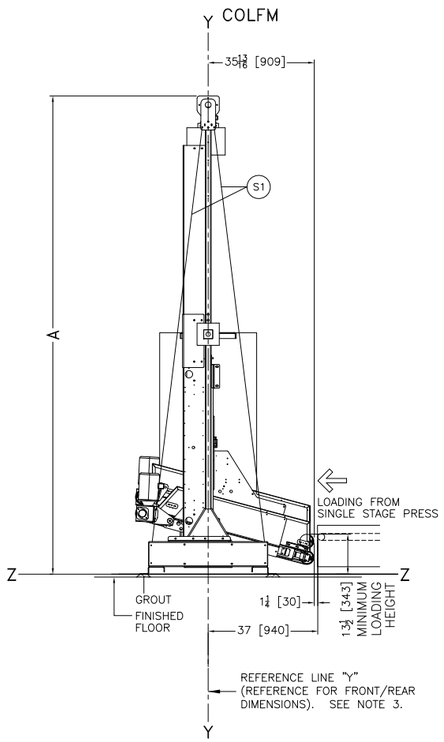


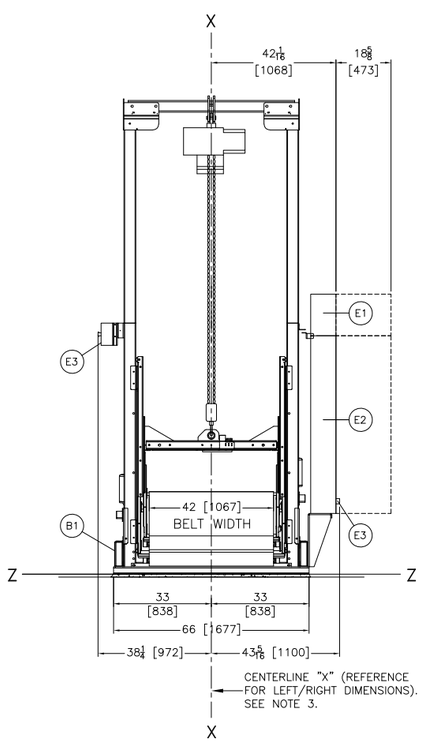
FOUNDATION PLAN



PLAN VIEW



LEFT VIEW



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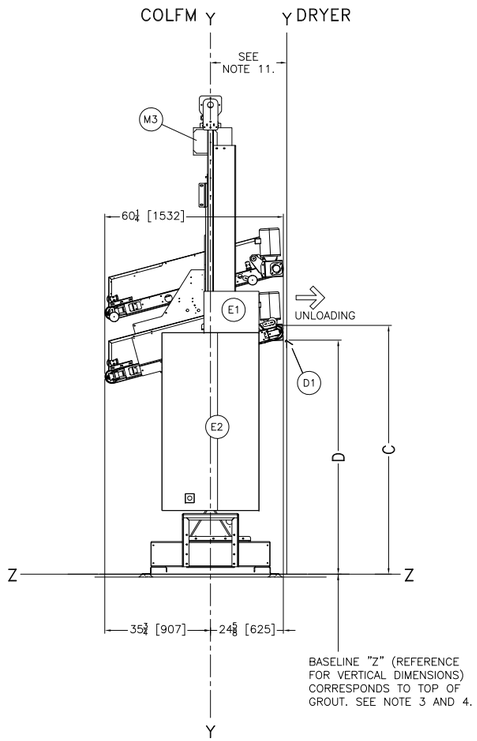

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COLFM112 (60K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFM2AE 2023313D

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

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER COLFN112		COLFN112 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" 7676 DRYERS LOAD HEIGHT		DIMENSION "D" @5858,@5880,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"													
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–	–	–	−10 1/2	267	0	0	48	1219	140 1/2	3569	63	1600	57	1449	57 1/2	1460			58 1/2	1486			59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	51 1/2	1308	144	3658	66 1/2	1689	60 1/2	1537	61	1549			62	1575			62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	58 1/2	1486	151	3835	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	62	1575	154 1/2	3924	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	65 1/2	1664	158	4013	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	69	1753	161 1/2	4102	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032	80	2032
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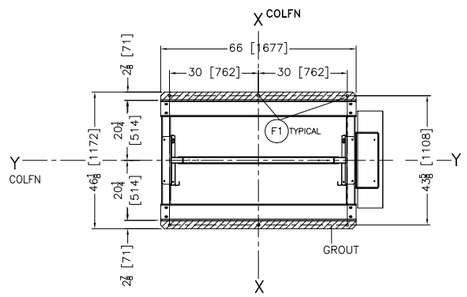
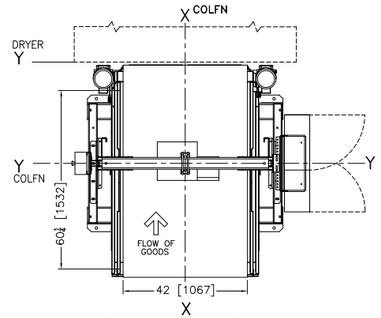
10 1/2	267	17 1/2	445	14	356	21	533	31 1/2	800	79 1/2	2019	172	4369	94 1/2	2400	88 1/2	2248	89	2261	89 1/2	2273	90	2286	90 1/2	2299	90 1/2	2299
17 1/2	445	24 1/2	622	21	533	28	711	38 1/2	978	86 1/2	2197	179	4547	101 1/2	2578	95 1/2	2426	96	2438	96 1/2	2451	97	2464	97 1/2	2477	97 1/2	2477
21	533	28	711	24 1/2	622	31 1/2	800	42	1067	90	2286	182 1/2	4636	105	2667	99	2515	99 1/2	2527	100	2540	100 1/2	2553	104 1/2	2654	101	2565

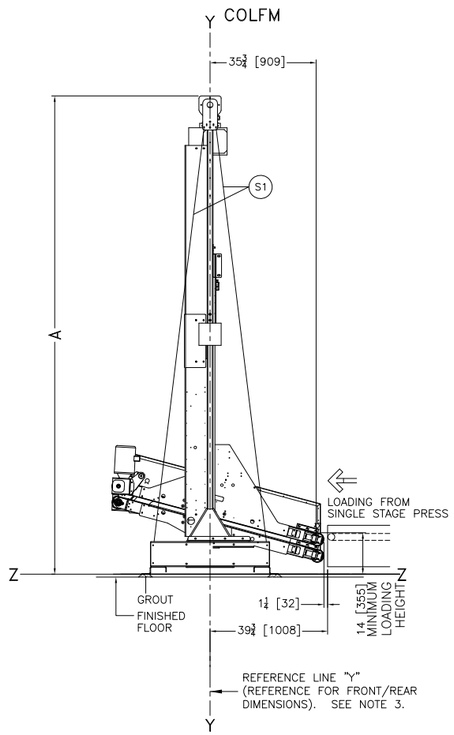
@ = OBSOLETE MODEL INCLUDED ON THIS DRAWING FOR REFERENCE



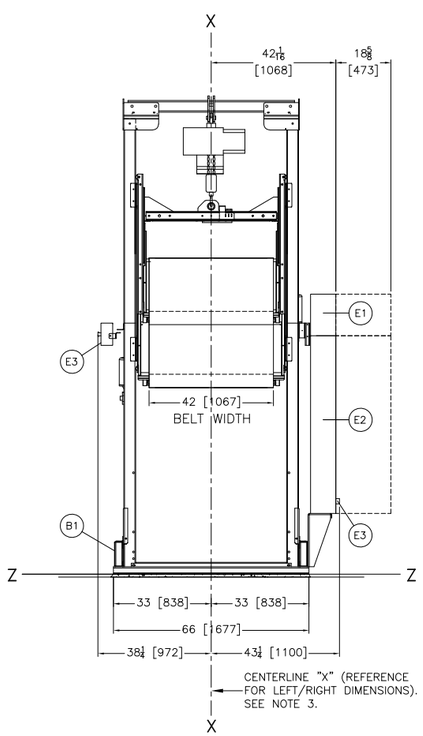
FOUNDATION PLAN



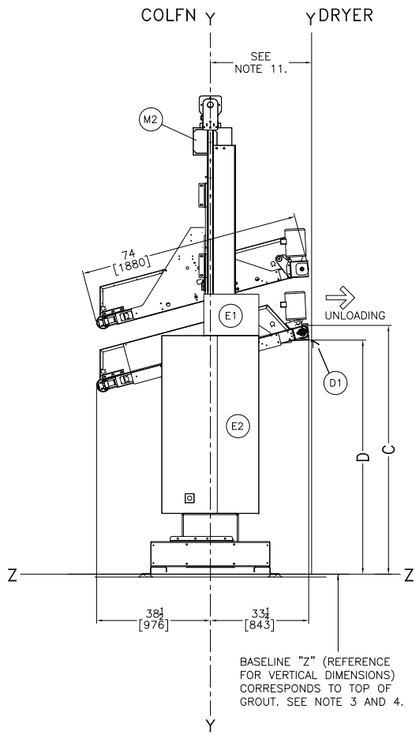
PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
B1	COLF STAND
D1	DRYER LOAD SHELF
E1	MICROPROCESSOR BOX
E2	CONTROL BOX
E3	EMERGENCY STOP BUTTON
F1	ANCHOR BOLT HOLE 7/8" [22] DIAMETER, 6 PLACES
M1	DRIVE MOTOR, UNDER CART FRAME, NOT VISIBLE.
M2	BELT MOTORS, ALTERNATES LEFT/RIGHT PER LEVEL.
M3	HOIST MOTOR AND WINCH.
S1	TIE RODS, SUPPLIED ONLY FOR SHUTTLES WITH 48" [1624] EXTENDERS OR LONGER.

NOTES

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9 DIMENSION VARIES WITH HEIGHT OF EXTENDERS WHEN ADDED.

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COLFN112 (68K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFN2AE 2023303D

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

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER		COLFP111 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" @5858,@5880 7676,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"											
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–			−10 1/2	267	0	0	27	686	119 1/2	3035	63	1600	57	1449	57 1/2	1460			58 1/2	1486	59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	30 1/2	775	123	3124	66 1/2	1689	60 1/2	1537	61	1549			62	1575	62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	37 1/2	953	130	3302	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	41	1041	133 1/2	3391	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	44 1/2	1130	137	3480	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	48	1219	140 1/2	3569	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032
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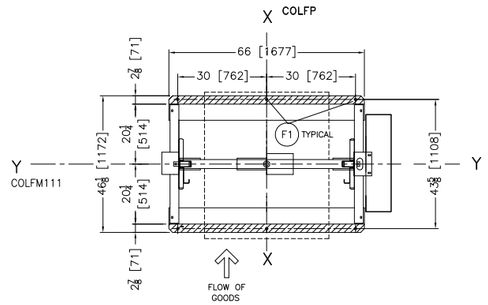
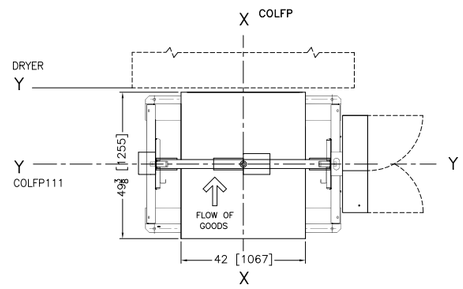
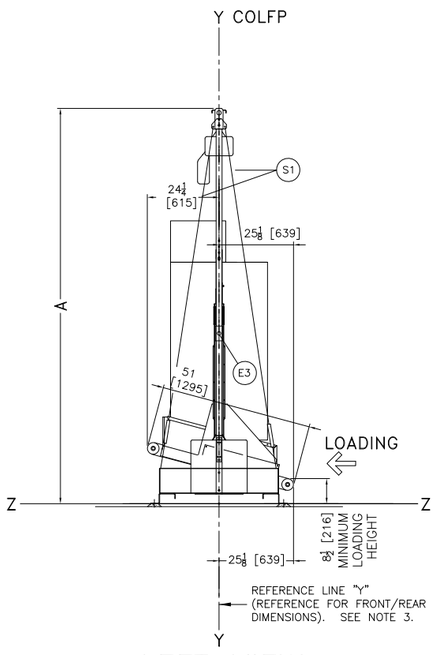


FOUNDATION PLAN



PLAN VIEW



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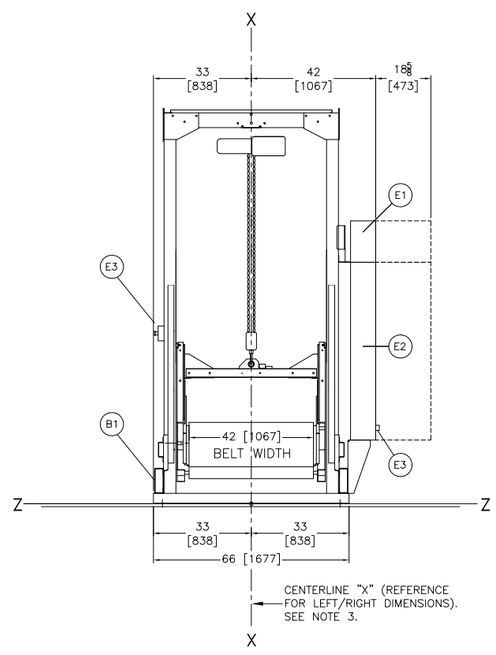

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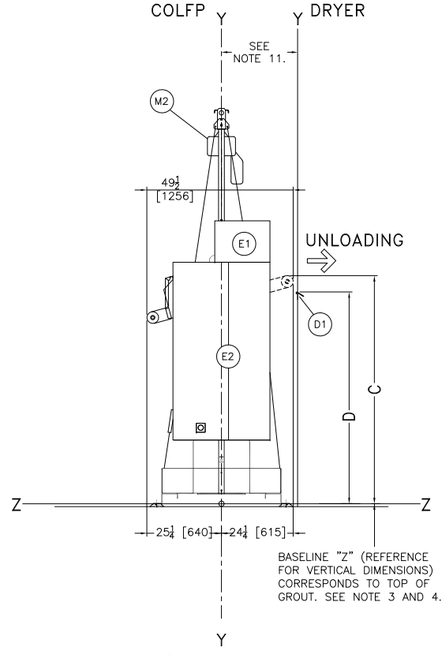

RIGHT VIEW

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COLFP111 (60K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFP1AE 2023313D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Telex ITT 460124/PELM UI, Cable PELMILNOR

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER COLFP112		COLFP112 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" 7676 DRYERS LOAD HEIGHT		DIMENSION "D" @5858,@5880,8282 LOAD HEIGHT	
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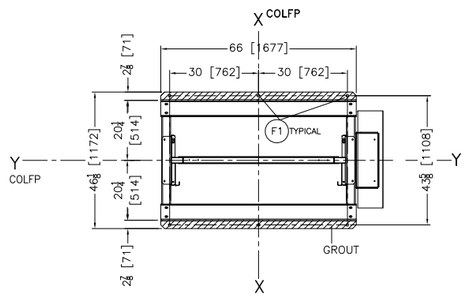
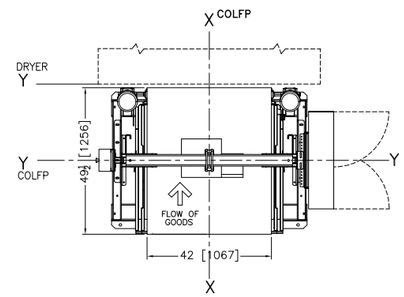
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–	–	–	−10 1/2	267	0	0	48	1219	140 1/2	3569	63	1600	57	1449	57 1/2	1460			58 1/2	1486			59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	51 1/2	1308	144	3658	66 1/2	1689	60 1/2	1537	61	1549			62	1575			62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	58 1/2	1486	151	3835	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	62	1575	154 1/2	3924	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	65 1/2	1664	158	4013	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	69	1753	161 1/2	4102	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032	80	2032
3 1/2	89	10 1/2	267	7	178	14	356	24 1/2	622	72 1/2	1842	165	4191	87 1/2	2222	81 1/2	2070	82	2083	82 1/2	2096	83	2108	83 1/2	2121	83 1/2	2121
10 1/2	267	17 1/2	445	14	356	21	533	31 1/2	800	79 1/2	2019	172	4369	94 1/2	2400	88 1/2	2248	89	2261	89 1/2	2273	90	2286	90 1/2	2299	90 1/2	2299
17 1/2	445	24 1/2	622	21	533	28	711	38 1/2	978	86 1/2	2197	179	4547	101 1/2	2578	95 1/2	2426	96	2438	96 1/2	2451	97	2464	97 1/2	2477	97 1/2	2477
21	533	28	711	24 1/2	622	31 1/2	800	42	1067	90	2286	182 1/2	4636	105	2667	99	2515	99 1/2	2527	100	2540	100 1/2	2553	104 1/2	2654	101	2565

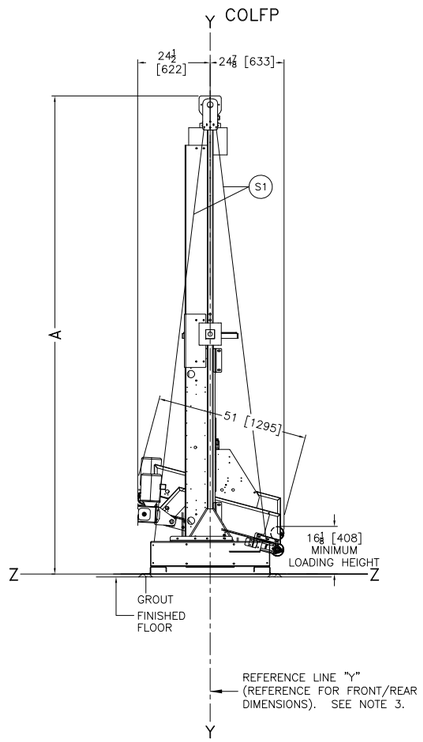
@ = OBSOLETE MODEL INCLUDED ON THIS DRAWING FOR REFERENCE



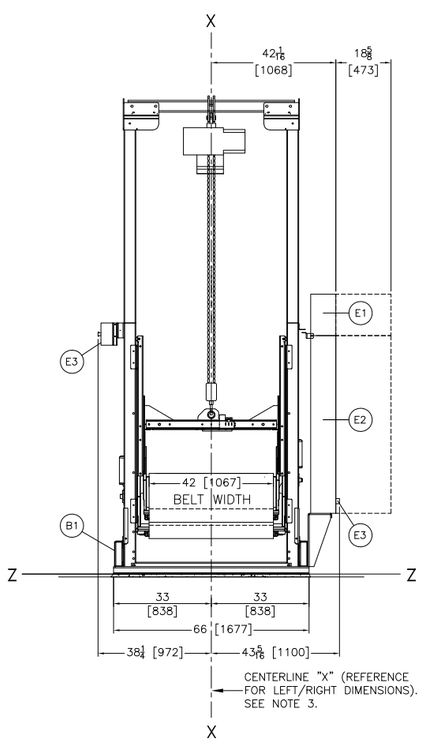
FOUNDATION PLAN



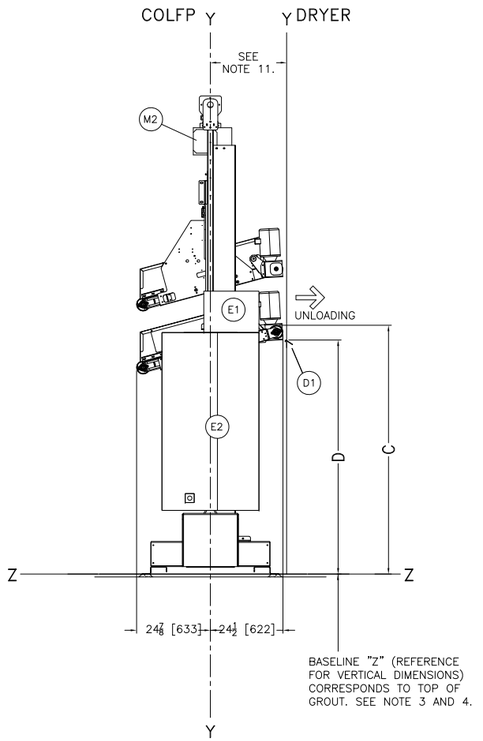
PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
S1	TIE RODS, SUPPLIED ONLY FOR SHUTTLES WITH 48"
	[1624] EXTENDERS OR LONGER.
M3	HOIST MOTOR AND WINCH.
M2	BELT MOTORS, ALTERNATES LEFT/RIGHT PER LEVEL.
M1	DRIVE MOTOR, UNDER CART FRAME, NOT VISIBLE.
F1	ANCHOR BOLT HOLE 7/8" [22] DIAMETER, 6 PLACES
E3	EMERGENCY STOP BUTTON
E2	CONTROL BOX
E1	MICROPROCESSOR BOX
D1	DRYER LOAD SHELF
B1	COLF STAND

NOTES

11 FOR THE DIMENSION FROM "Y" OF THE SHUTTLE TO "Y" OF THE DRYER, SEE THE DRYER DIMENSIONAL DRAWING.

10 THE 6458 DRYER AT "ZERO PEDESTAL" HAS A 41"[1041] HIGH BASE. THE DRYER MAY BE ORDERED TO INCREASE OR DECREASE THE MACHINE HEIGHT, THEREFORE, NEGATIVE PEDESTAL HEIGHTS ARE POSSIBLE. CONSULT MILNOR FACTORY.

9 DIMENSION VARIES WITH HEIGHT OF EXTENDERS WHEN ADDED.

8 EMERGENCY STOPS ARE REQUIRED ON BOTH LEFT AND RIGHT SIDES OF THE COLF. ONE IS INSTALLED INTO THE DOOR OF THE COLF CONTROL BOX.

7 AFTER MACHINE HAS BEEN COMMISSIONED, BELT MAY STRETCH SLIGHTLY REQUIRING ADJUSTMENT OF BELT ROLLERS AND SLIGHT LENGTHENING OF CONVEYOR.

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

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

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

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ATTENTION

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

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.

COLFP112 (50K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFP2AE
2024065D

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

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER		COLFQ111 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" @5858,@5880 7676,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"											
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–			−10 1/2	267	0	0	27	686	119 1/2	3035	63	1600	57	1449	57 1/2	1460			58 1/2	1486	59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	30 1/2	775	123	3124	66 1/2	1689	60 1/2	1537	61	1549			62	1575	62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	37 1/2	953	130	3302	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	41	1041	133 1/2	3391	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	44 1/2	1130	137	3480	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	48	1219	140 1/2	3569	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032
3 1/2	89	10 1/2	267	7	178	14	356	24 1/2	622	51 1/2	1308	144	3658	87 1/2	2223	81 1/2	2070	82	2083	82 1/2	2096	83	2108	83 1/2	2121
10 1/2	267	17 1/2	445	14	356	21	533	31 1/2	800	58 1/2	1486	151	3835	94 1/2	2400	88 1/2	2248	89	2261	89 1/2	2273	90	2286	90 1/2	2299
17 1/2	445	24 1/2	622	21	533	28	711	38 1/2	978	65 1/2	1664	158	4013	101 1/2	2578	95 1/2	2426	96	2438	96 1/2	2451	97	2464	97 1/2	2477
21	533	28	711	24 1/2	622	31 1/2	800	42	1067	69	1753	161 1/2	4102	105	2667	99	2515	99 1/2	2527	100	2540	100 1/2	2553	101	2565

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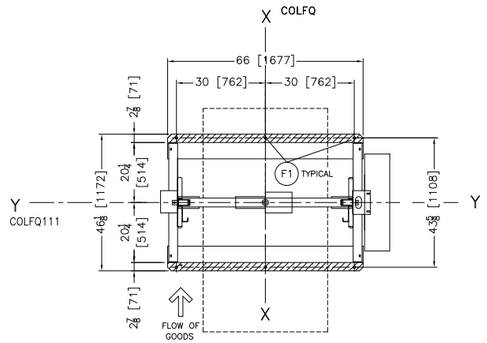
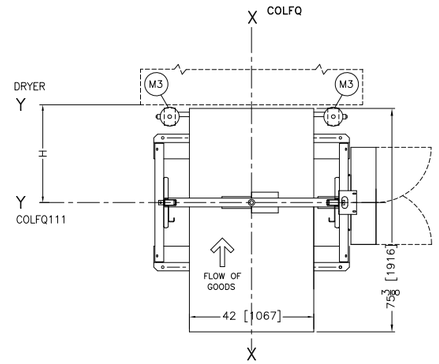
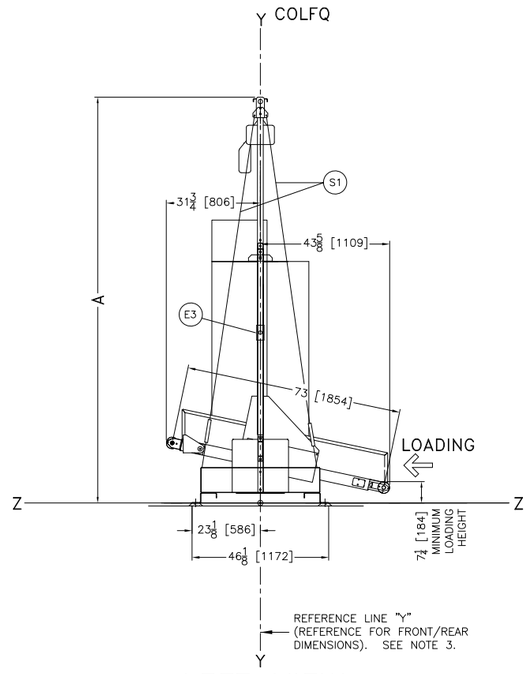


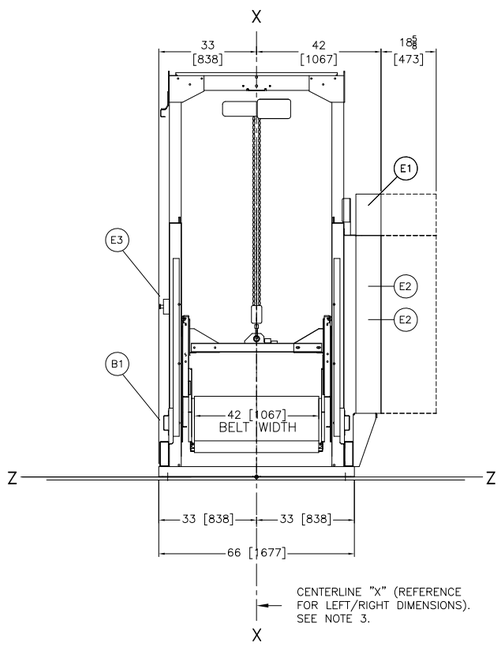
FOUNDATION PLAN



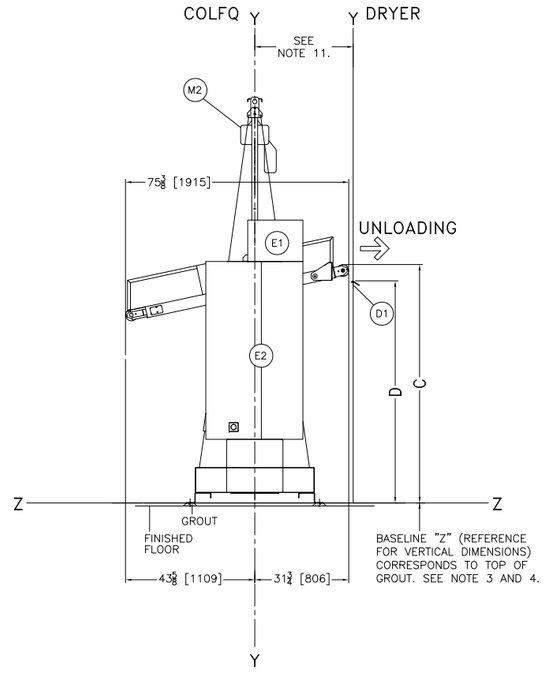
PLAN VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ITEM	LEGEND
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COLFQ111 (60K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFQ1AE 2023313D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/469-1849, Telex ITT 460124/PELM UI, Cable PELMILNOR

WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5880,8282		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5858		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @7272,7676		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER 6450,6458,6464		WHEN THIS DRYER PEDESTAL EXTENDER IS USED WITH DRYER @5840,@5040,5050		USE THIS SIDE RAIL EXTENDER COLFQ112		COLFQ112 DIMENSIONS				DIMENSION "D" 6450 DRYERS LOAD HEIGHT		DIMENSION "D" @5840,@5040,@7272 LOAD HEIGHT		DIMENSION "D" 6458,6464 LOAD HEIGHT		DIMENSION "D" 5050 LOAD HEIGHT		DIMENSION "D" 7676 DRYERS LOAD HEIGHT		DIMENSION "D" @5858,@5880,8282 LOAD HEIGHT	
												DIMENSION "A"		DIMENSION "C"													
INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
–	–	–	–	–	–	−10 1/2	267	0	0	48	1219	140 1/2	3569	63	1600	57	1449	57 1/2	1460			58 1/2	1486			59	1499
–	–	–	–	–	–	−7	−178	3 1/2	89	51 1/2	1308	144	3658	66 1/2	1689	60 1/2	1537	61	1549			62	1575			62 1/2	1588
–	–	–	–	−7	−178	0	0	10 1/2	267	58 1/2	1486	151	3835	73 1/2	1867	67 1/2	1715	68	1727	68 1/2	1740	69	1753	69 1/2	1765	69 1/2	1765
–	–	0	0	−3 1/2	−89	3 1/2	89	14	356	62	1575	154 1/2	3924	77	1956	71	1803	71 1/2	1816	72	1829	72 1/2	1842	73	1854	73	1854
–	–	3 1/2	89	0	0	7	178	17 1/2	445	65 1/2	1664	158	4013	80 1/2	2045	74 1/2	1892	75	1905	75 1/2	1918	76	1930	76 1/2	1943	76 1/2	1943
0	0	7	178	3 1/2	89	10 1/2	267	21	533	69	1753	161 1/2	4102	84	2134	78	1981	78 1/2	1994	79	2007	79 1/2	2019	80	2032	80	2032
3 1/2	89	10 1/2	267	7	178	14	356	24 1/2	622	72 1/2	1842	165	4191	87 1/2	2222	81 1/2	2070	82	2083	82 1/2	2096	83	2108	83 1/2	2121	83 1/2	2121
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17 1/2	445	24 1/2	622	21	533	28	711	38 1/2	978	86 1/2	2197	179	4547	101 1/2	2578	95 1/2	2426	96	2438	96 1/2	2451	97	2464	97 1/2	2477	97 1/2	2477
21	533	28	711	24 1/2	622	31 1/2	800	42	1067	90	2286	182 1/2	4636	105	2667	99	2515	99 1/2	2527	100	2540	100 1/2	2553	104 1/2	2654	101	2565

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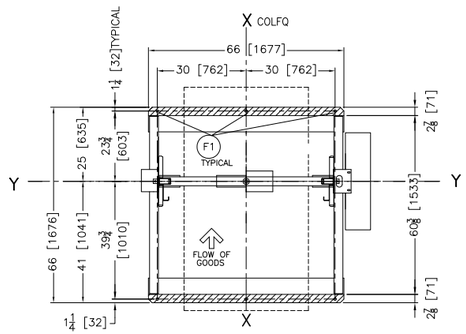
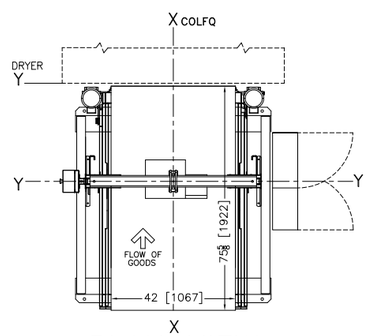
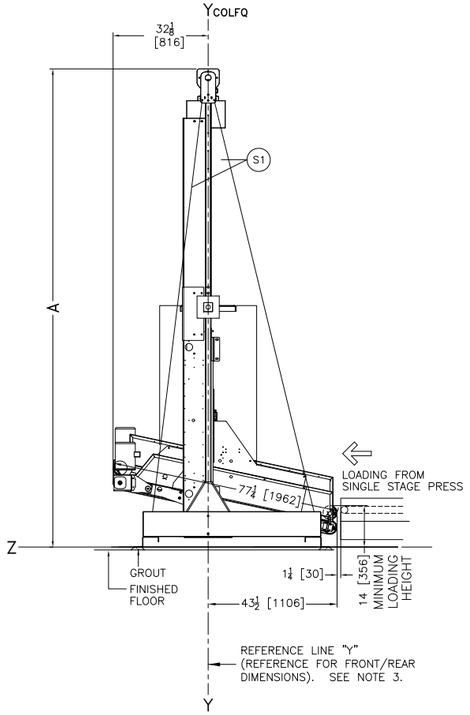


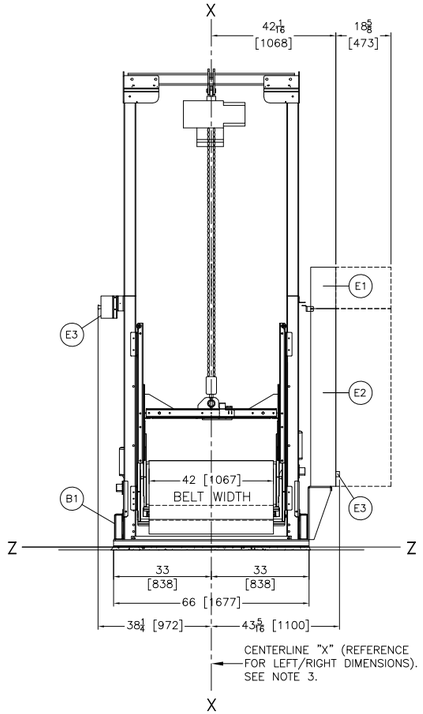
FOUNDATION PLAN



PLAN VIEW



LEFT VIEW



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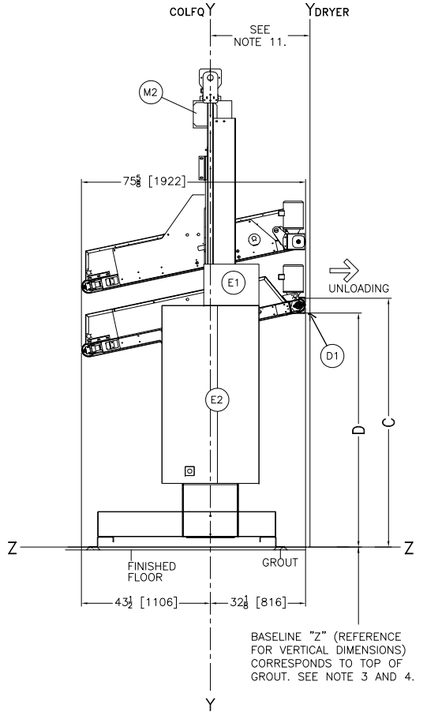

RIGHT VIEW

ITEM	LEGEND
B1	COLF STAND
D1	DRYER LOAD SHELF
E1	MICROPROCESSOR BOX
E2	CONTROL BOX
E3	EMERGENCY STOP BUTTON
F1	ANCHOR BOLT HOLE 7/8" [22] DIAMETER, 6 PLACES
M1	DRIVE MOTOR, UNDER CART FRAME, NOT VISIBLE.
M2	BELT MOTORS, ALTERNATES LEFT/RIGHT PER LEVEL.
M3	HOIST MOTOR AND WINCH.
S1	TIE RODS, SUPPLIED ONLY FOR SHUTTLES WITH 48" [1624] EXTENDERS OR LONGER.

NOTES

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CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

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

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

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

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

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

ATTENTION

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

ATTENTION

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

COLFQ112 (68K CAKES)

DM 0 0.5M
INCHES 0 12 24

DWG# BDCOLFQ2AE 2023313D

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