Hardware Installation Guide (with head pre-installed on device)

English

Lotem 800 II

731-00462A-EN

www.creo.com

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4,558,302	5,420,722	5,708,736	6,043,865	6,204,874	6,409,331	6,589,710
4,743,091	5,459,505	5,713,287	6,060,208	6,205,364	6,414,755	6,590,635
4,992,864	5,473,733	5,742,743	6,063,528	6,208,369	6,422,801	6,593,064
5,049,901	5,481,379	5,764,374	6,063,546	6,214,276	6,425,565	6,601,888
5,113,249	5,488,906	5,771,794	6,072,518	6,217,965	6,430,136	6,605,407
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5,323,248	5,615,282	5,946,426	6,136,509	6,299,572	6,503,691	6,648,468
5,325,217	5,625,397	5,947,028	6,137,580	6,318,266	6,509,903	6,652,088
5,339,176	5,625,766	5,958,647	6,147,789	6,328,408	6,511,163	6,654,147
5,343,059	5,636,330	5,966,504	6,158,345	6,336,708	6,520,084	6,660,997
5,355,446	5,649,220	5,969,872	6,159,659	6,340,817	6,530,317	6,661,561
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Unpacking the Platesetter

Handle all packing materials with care. These materials will be used again if you need to transport the platesetter in the future.

Use **only** the fork lift to lift the shipping container and place it at the unpacking site. Make sure that the container is lifted **only** from the front side, as indicated by the label on the packaging.

Before you begin unpacking the platesetter, ensure that the unpacking site is large enough to allow easy maneuvering of the platesetter.

For example, check the following:

- Available space for the fork lift to lower the platesetter from the shipping pallet.
- Doorway clearance for the platesetter and fork lift.

Checking for Damage

Check that the shipping container is undamaged. Do not proceed with the unpacking if it is damaged in any way and notify the shipping agent immediately. A label is located on shipping carton. It is also located on top of the platesetter above the wrapping nylon.

Precautions

Observe the following precautions before unpacking:

- Do not unpack the platesetter in extreme heat or cold (above 30°C or below 0°C).
- If there are any signs of ice on the machine, do not touch any of the mechanical parts. Wait 24 hours (preferably 48 hours) for the platesetter to gradually reach room temperature.
- Do not unpack the platesetter in a non-conditioned room in case the weather is very humid.

Parts Checklist

For parts list, see the PCL and GCL forms attached to the Lotem packaging.

Removing the Platesetter

A minimum of two (2) people and a fork lift are required to unpack and lower the platesetter from its shipping pallet.

Figure 1 on page 3 shows the unpacking process. Refer to this figure to identify the numbers appearing inside brackets in the following text.

1. Carefully cut the three (3) steel bands [1] surrounding the outer carton container [2].
2. Open the top flaps of the outer carton container [2].
3. Remove the staples that secure the carton [2] to the wooden shipping pallet [7] and to the wooden support struts [5].
4. Remove the entire carton container [2].
5. Remove all the parts that tied to the shipping pallet in back of the platesetter.
6. Remove the top wooden support struts [3] and the side wooden support struts [5].
7. The platesetter is secured to the shipping pallet by four (4) screws, brackets and washers [8]. Remove the screws, brackets and washers from underneath the pallet.
8. Using the fork lift, lift the platesetter from the shipping pallet so that the wheels are released from the pallet. Make sure the platesetter is lifted **only** at the designated locations, marked on the pallet chassis.
9. Lower the platesetter from the shipping pallet.
10. Remove the eight (8) protective rubber angles [4] at the machine corners and upper doors.
11. Remove the nylon wrapping from the platesetter
12. In order to move the platesetter, you need to lift its legs so that the machine can be rolled on its wheels. Close the nut of each leg by turning it counter-clockwise.
13. Roll the platesetter to its final location.
14. Lower the four legs of the platesetter by turning the nut of each leg clockwise.

To complete the installation, proceed from *Height Adjustment Procedure* on page 8. Handle all packing materials with care. These materials will be used again should you need to transport the platesetter in the future. For details on how to re-pack the platesetter refer to *Packing-up the Platesetter for Shipment* on page 37.

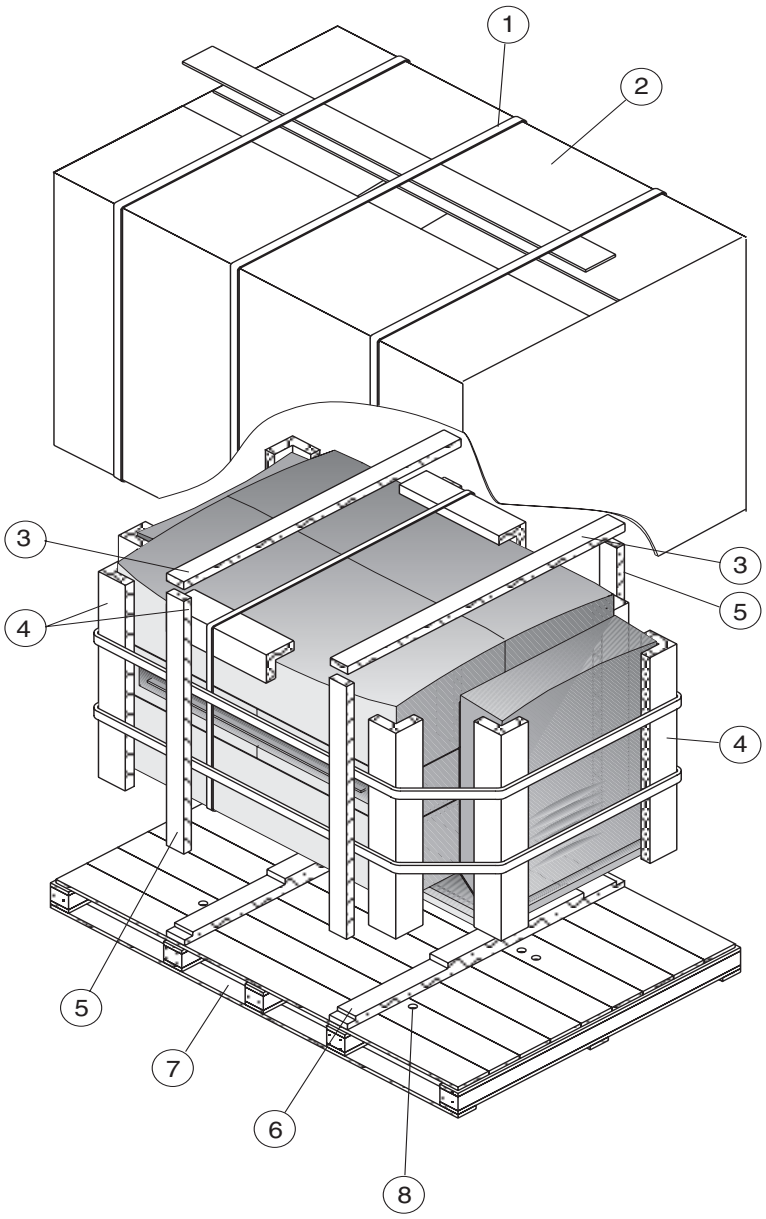


Figure 1: Unpacking the platesetter

Unpacking Loading Cassette Trolley

The loading cassette trolley packaging and the cassette packaging are supplied together. The sections, *Unpacking Trolley* on page 4 and *Trolley Assembly* on page 5, describe the trolley unpacking and assembly.
The section *Placing Cassette* on page 7, describes the cassette.

See the parts list attached to the trolley packaging.

Unpacking Trolley

The trolley is disassembled before packing, see *Trolley Assembly* on page 5, for trolley assembly instructions. One (1) technician is required to unpack the trolley.

1. Cut the bands to separate the trolley packaging (upper packaging) from the cassette packaging (bottom packaging).
2. Open the top flaps of the trolley packaging.
3. Remove the staples that connect the top wooden strut to the packaging.
4. Lift out the top wooden strut with the parts connected to it.
5. Disconnect the top trolley assembly that is connected to the wooden strut, using an 1/2 inch open-end wrench.
6. Remove the small plastic bag containing the bolts and plugs required for the trolley assembly.
7. Remove the staples that connect the bottom wooden strut to the packaging.
8. Lift out the wooden strut with the parts connected to it.
9. Disconnect the trolley parts connected to the wooden strut: the two side assemblies and the vertical assembly, using an 1/2 inch open-end wrench.

See *Trolley Assembly* on page 5, for trolley assembly instructions.

Trolley Assembly

The loading cassette trolley includes four assemblies. See *Figure 3: on page 6* (refer to numbers in brackets to identify the various parts):

- Top horizontal frame [1]
- Two identical side assemblies, each assembly has two wheels [2]
- Inner vertical frame [3]
- Screws and cups [4, 5, 6]

One technician is required to assemble the trolley, using a flat allen key.

Note: Do not tighten the bolts until all the bolts are inserted.

1. Attaching side assemblies to inner vertical frame:
   - Align the right side assembly with the right side of the inner vertical frame, matching the holes. Insert two bolts [4] and 2 spring washers to attach the vertical frame and the side assembly.
   - Repeat the above step to attach the left side assembly to the left side of the inner vertical frame.
2. Attaching top horizontal frame: carefully lift the top frame and place it on the side assemblies, with the handle facing upwards.
3. Align the top frame by matching the four threads of the top frame to the four holes of the side assemblies. Insert the four bolts [5] and spring washers (insert from the bottom side). Do not tighten the bolts.
4. The trolley height is pre-adjusted to 713 mm and there is no need to adjust this height. However, you need to check that the trolley stands securely on the floor, on all four wheels. Move the trolley to verify that all the wheels rotate properly. For example, if the floor is not straight, you may need to adjust the trolley leveling, by adding or removing washers to the bolts that connect the wheels.
5. When the trolley is properly leveled, first tighten the two bolts of each side assembly, and then tighten the four bolts of the top assembly (it is important to tighten the bolts in this order).
6. Insert four plugs [6] into each side assembly: two in vertical frame and two in top assembly.

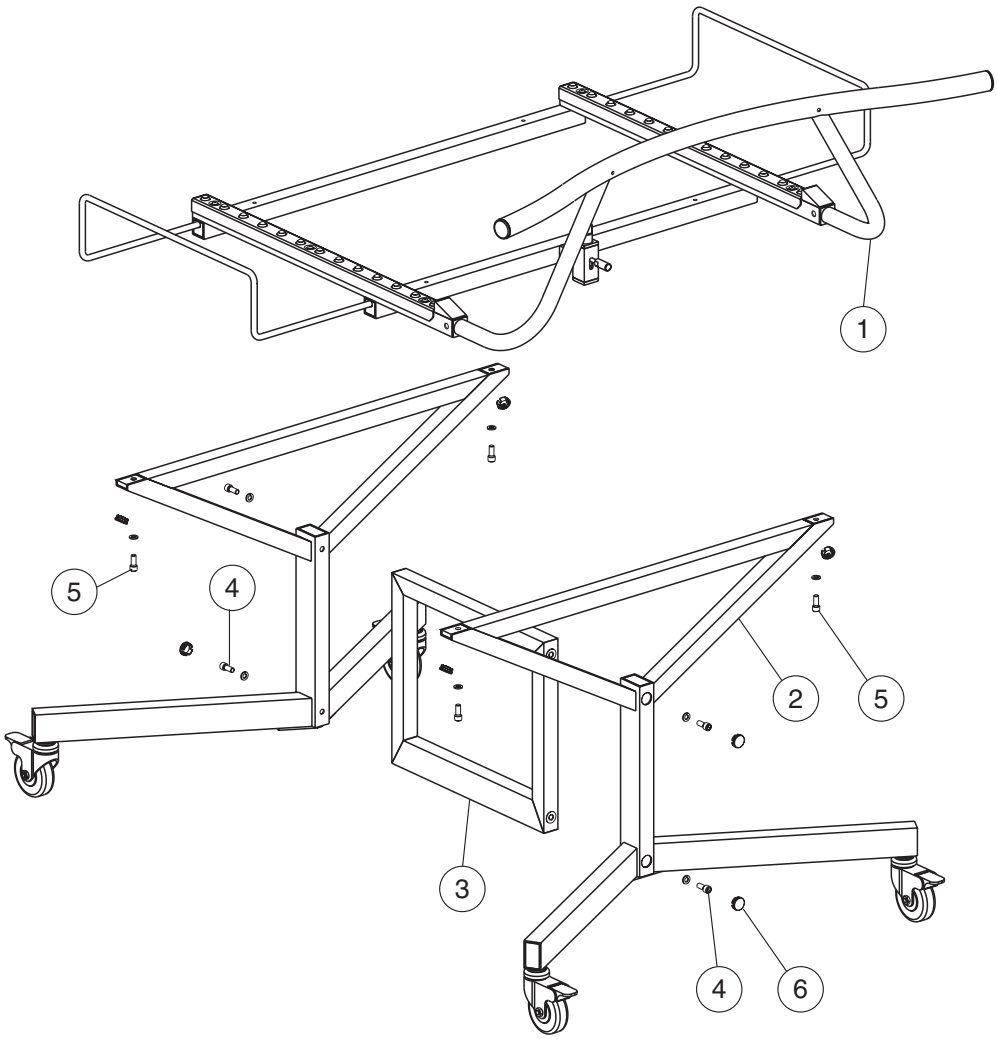


Figure 2: Loading cassette trolley assembly

Figure 4 shows the trolley after assembly.



Figure 3: Loading cassette trolley after assembly

Placing Cassette

The cassette is supplied together with the loading cassette trolley, but packaged in a separate carton (bottom carton). It is recommended that you unpack the cassette **after** the trolley is assembled, so that you can place it directly on the trolley.
See *Trolley Assembly* on page 5.

1. Open the top flaps of the cassette carton.
2. Lift out the cassette and place it on the Loading cassette trolley. Verify that the cassette is placed on the two rows of bearings. When the cassette is properly positioned it is automatically locked in place by the cassette lock.

Height Adjustment Procedure

Final leveling means that the platesetter is situated on a uniform horizontal plane at all four corners, and where the height of the platesetter is adjusted to enable smooth loading of the cassette into the cassette entrance of the platesetter. **The final platesetter height is set according to the height of the Loading cassette trolley with the cassette placed on it.**

1. Roll the loading cassette trolley with the cassette to the front side of the platesetter, opposite the cassette entrance (see *Figure 4: on page 8*).
2. Rotate the trolley so that it is positioned at an angle and push one corner into the cassette entrance - in this position it is easier to check the alignment. Check the alignment of the cassette with the cassette entrance. The cassette should be centered in the entrance.
3. Rotate the trolley until it is parallel to the platesetter and push the other corner into the entrance. Check the alignment. Note that the cassette should fit symmetrically in the opening, as shown in *Figure 4: on page 8*. The gap above and below the cassette should be 3 mm.

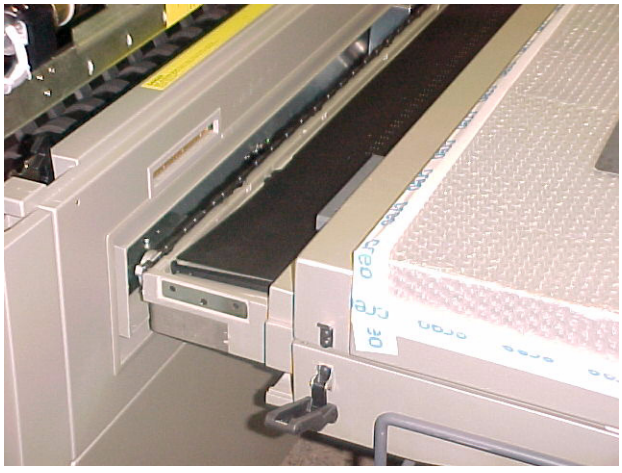
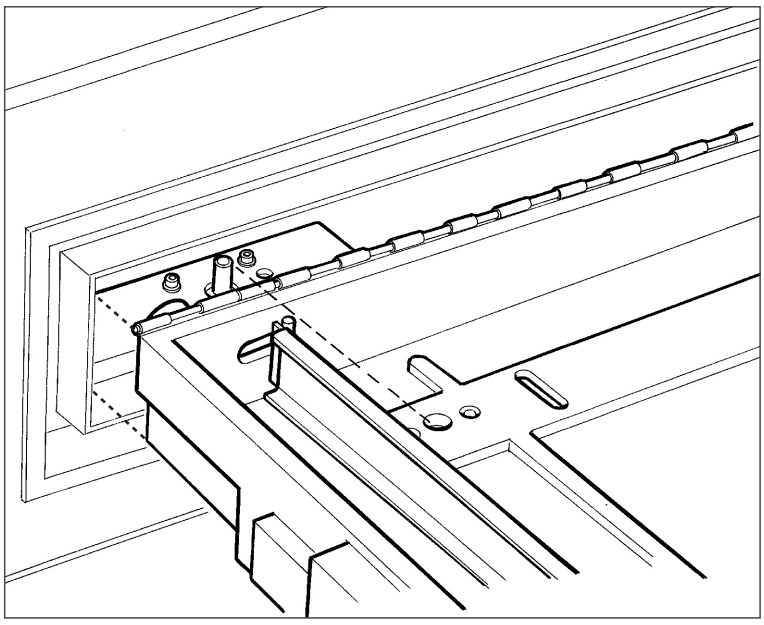


Figure 4: Aligning cassette

4. If necessary, adjust the platesetter legs. The front legs are adjusted according to the cassette, and the rear legs are adjusted so that the platesetter is parallel to the floor. Place a standard leveling instrument on the main frame side door, and verify that the front and back of the platesetter are parallel. If not, adjust the rear legs. Open or close the adjusting nut of the rear leg and turn it clockwise or counter-clockwise, and then tighten the locking nut (see *Figure 5: on page 9*).

Note: If the customer will be working with two cassettes, you need to check that both cassettes can be properly inserted.



1 - locking nut
2 - adjusting nut
3 - platesetter wheel (make sure all 4 wheels do not touch the floor)

Figure 5: Adjusting leg height

5. After the cassette and platesetter are properly aligned, tighten the legs by closing the locking nut of all four legs of the platesetter.

Removing Shipping Safeguards

The platesetter is shipped with several safeguards that prevent excessive movement of internal parts during transport.

The following topics are discussed below:

- Removing the securing ties that lock the loading system.
- Removing optomechanic to chassis locking devices.
- Removing carriage to optomech locking devices.

Opening Doors and Removing Securing Ties

To access the securing ties, you need to manually open the upper front and rear doors.

1. To open the upper front door: insert a screwdriver into the two (2) holes of the upper front cover. This releases the locking mechanism pins of the upper front door.
2. Remove the wide tapes that tape the tail gripper to the drum.

Optomechanic to Chassis Locking Devices

The special locking devices secure the optomechanic assembly to the main frame during transport. There are four such locking devices - two on the front side of the platesetter, and two on the rear side. The locking devices are red for easy identification. *Figure 6: on page 11* and *Figure 7: on page 11* show the locking devices and their locations.

1. Each locking device is secured with two screws. Use a 5/16 inch allen key to remove the screws. Then remove the red locking device.
2. Perform the above to remove the two front locking devices and the two rear locking devices.

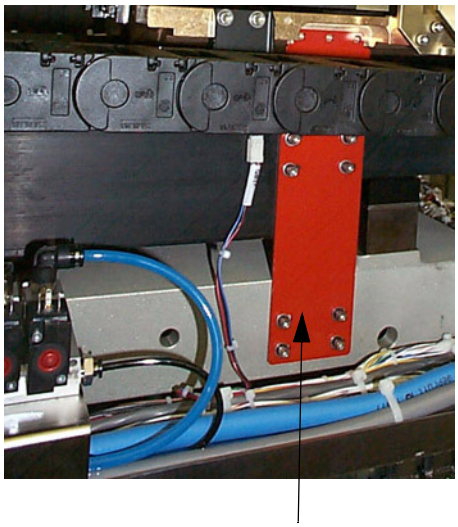
Carriage to Optomech Locking Devices

Two locking devices secure the carriage to the V block during transport. There are two such locking devices - one in front of the carriage and one behind the carriage. Both are accessed from the rear side of the platesetter. See *Figure 6: on page 11*.

1. The front locking device is secured with eight (8) screws. Use a 5/16 inch allen key to remove the screws, and then remove the locking device.
2. The rear locking device is secured with ten (10) screws. Use the allen key to remove the screws and then remove the locking device.

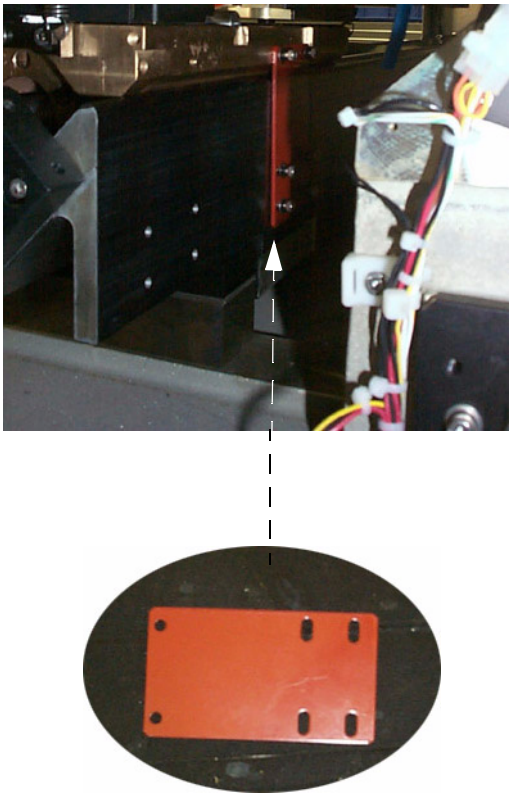


Note: After removing the locking devices, visually inspect the components inside the platesetter to verify that they are undamaged.



Front carriage to guide beam locking device

Figure 6: Carriage to optomech plates, platesetter rear view



Rear carriage to optomech locking device

Figure 7: Carriage to optomech plates, platesetter rear view

Removing the Head Transportation Brackets

1. Carefully remove the antistatic bag from the TH2:



Figure 8: Remove antistatic bag

2. Visually check to make sure that neither the cables or the head have been damaged during shipping.
3. Remove the desiccant bag from the head:



Figure 9: Remove desccant bag

4. On the right of the TH2 head, remove the seven (7) screws securing the head to the carriage:

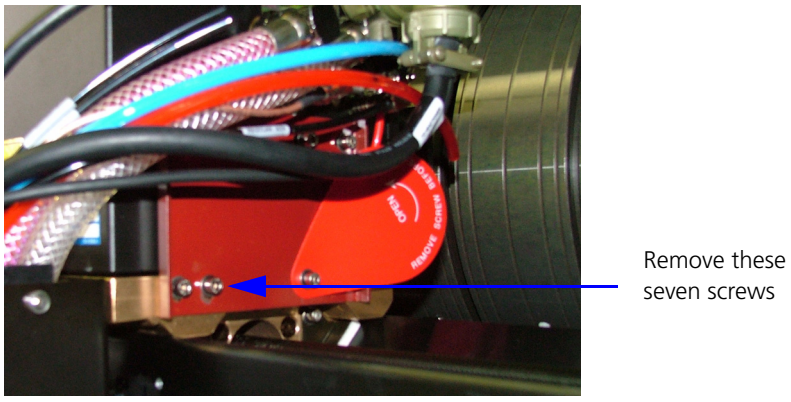


Figure 10: Remove the seven screws from the bracket

On the left side of the TH2 head, remove the eight (8) screws securing the head to the carriage. Make sure the three (3) spacers do not fall when you are removing the screws:

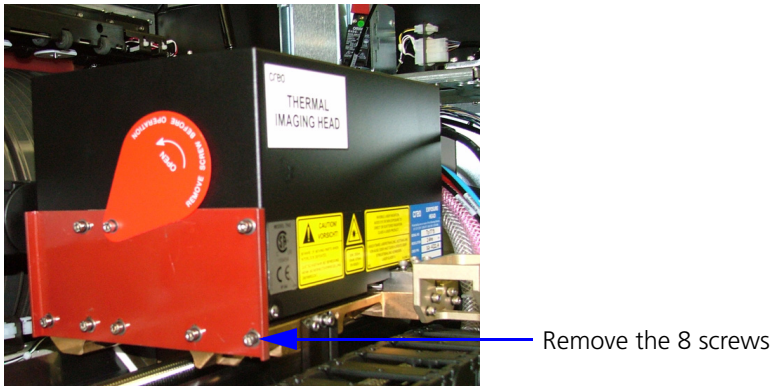


Figure 11: Remove eight screws from bracket. Make sure the spacers do not fall inside the platesetter.

Installing the Spring Holders

Included in the Accessory Kit are four spring holders and four springs.
This step describes how to secure the spring holders/springs to the head and carriage.
After removing the brackets:

- Two spring holders/springs will be installed on the left side.
- Two spring holders/springs will be installed on the right side.
- On both the left and right sides, one spring holder will be attached to the carriage and one spring holder will be attached to the head.

Note: Secure the springs and holders with the screws, spacers and spring washers removed in this step and the previous step.

Left side:

- Use two screws and two spacers to secure the spring holder to the head.
- Use two screws (without spacers) to secure the spring holder to the carriage:



Figure 12: Spring holders on left side of head/carriage.

Right side:

- Use two screws (without spacers) to secure the spring holder to the head.
- Use two screws (without spacers) to secure the spring holder to the carriage.

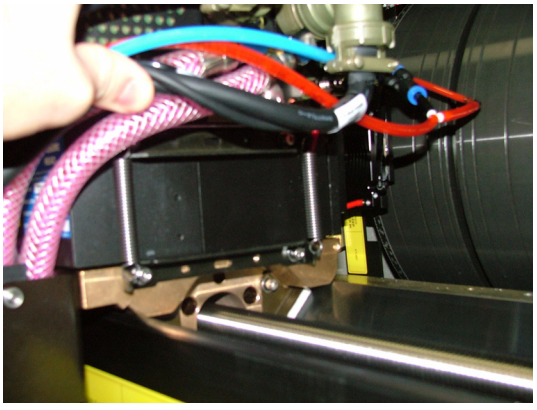


Figure 13: Spring holders on right side of head/carriage

Filling up Cooling Liquid

You must fill at least a gallon of cooling liquid into the container.The filling is performed in two stages:

- Start filling the container when the unit is still OFF, but the TH2 is already connected (as the head will fill up with some liquid too). Fill the container as much as possible.
- Leave the cap open and turn on the Lotem so that the pump begins to work. Continue to fill the container until you reach the Max level line.
- Make sure to completely close the cap.

If the cooling liquid does not arrive, you can use distilled water to begin the installation. You **cannot** continue the installation until you replace it with cooling liquid.

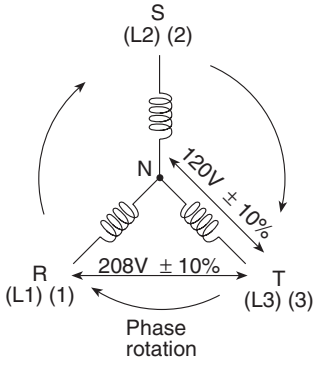
Power Connection

Connecting Main Power Cable

1. Manually open the upper front door (as described in *Opening Doors and Removing Securing Ties* on page 10).
2. Open the right side door.
3. Locate the main power cable (black cable), and pull it out through the cable opening at the bottom of the platesetter.

For customers with 110 VAC line power:

1. Connect the connector (a 5-pin connector - 3 phase R.S.T, Neutral & GND, 30A) to the main power cable.
2. Plug the main power cable to the main line voltage outlet.



For customers with 220 VAC line power (a step-down transformer is required):

1. Using a DVM, measure the actual line voltage.
2. Transformer wiring - the 3-phase RST wires in the transformer are preset to 230 VAC. However, the correct wiring should be to a value that is higher than the actual measured line voltage. For example, if the measured line voltage is 230 VAC, you need to rewire the RST wires to 240 VAC.
   See *Transformer wiring* on page 17.
3. Connect the connector (a 5-pin connector - 3 phase R.S.T, Neutral & GND, 16A) to the main power cable.
4. Connect main power cable connector to the transformer connector (supplied with the transformer).

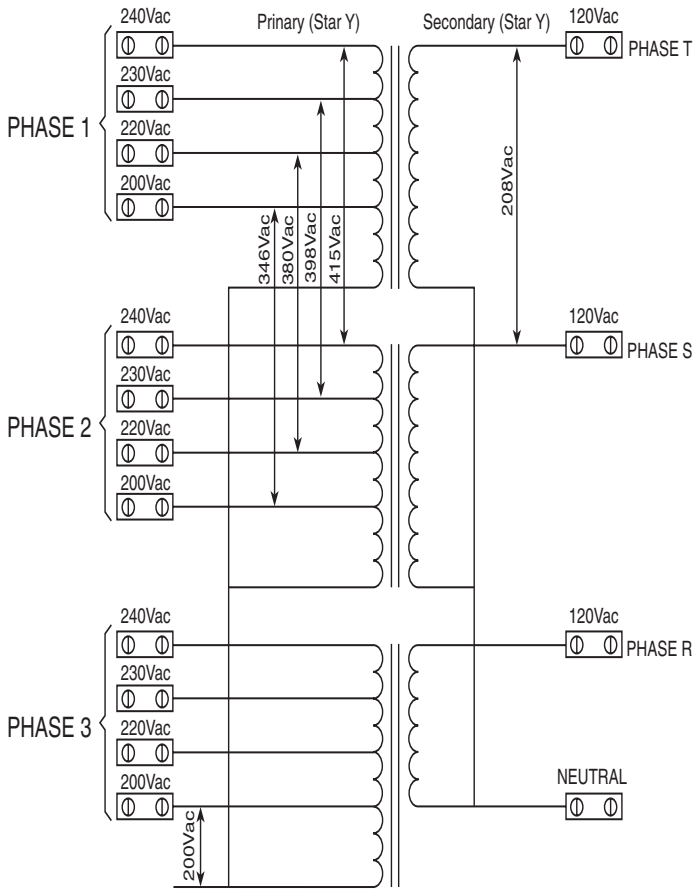


Figure 14: Transformer wiring

5. Connect the transformer cable to a connector appropriate to your wall outlet.
6. Plug the transformer cable into the wall outlet.

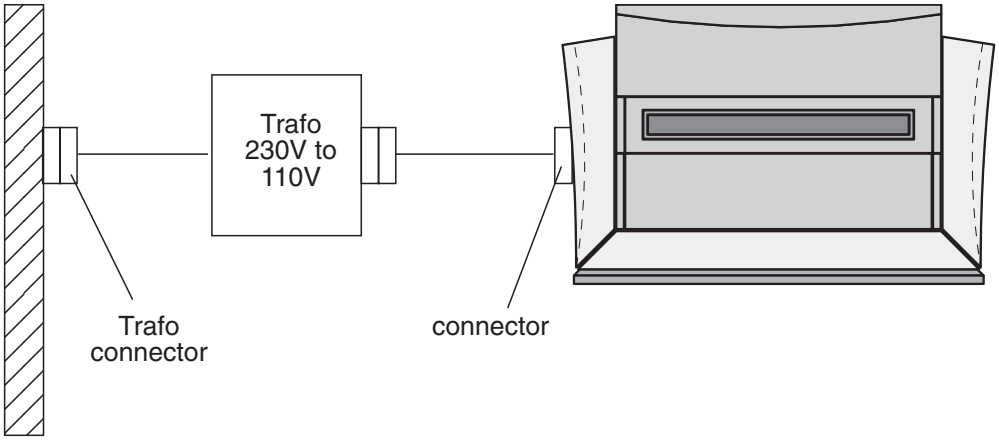


Figure 15: Platesetter - transformer connection

7. From the Lotem application, open the drum vacuum pump.
8. Operate it to check the phase order. If you did not connect the phase in the correct order, the pump will make a coughing noise.
9. Close the pump immediately and reconnect the phases.

UDRC (Unit Debris Removal Cabinet) Requirements

Electrical & Power Requirements

- The appliance inlet is the AC mains disconnection point for the UDRC (for servicing and in the event of fire).
- Ensure that the branch circuit breakers, power cords, and plug are in full compliance with the local Electrical Standards.

Cables, Hoses, Connectors and Receptacles

Hose and Data Cable

The UDRC is supplied with a 3 m flexible hose and a 3 m data cable. The UDRC must therefore be positioned within 3 m of the hose and cable attachment point on the rear of the output device.This attachment point is typically located near the lower left corner as viewed from the rear of the output device.

Power Cables and Receptacles

Table 1: Power requirements for North America and Japan

Cables	Supplied by Creo	Require by Customer
UDRC power	IEC320, type C20 appliance inlet. Detachable 4.5 m (15 ft) power chord with IEC320 Type C19 connector at the device end and a L6-15P plug at the other end.	Dedicated 15A, 200-240V branch circuit and L6-15R receptable.

Table 2: Power requirements for Europe, Australia and SE Asia

Cables	Supplied by Creo	Require by Customer
UDRC power	IEC320, type C20 appliance inlet. Detachable 4.5 m (15 ft) power chord with IEC320 Type C19 connector at the device end and no plug at the other end.	Dedicated 15A, 200-240V branch circuit and standard receptable and mating plug for power chord.



Note: The above specified input voltages require balanced power inputs (Line1 to Gnd = Line2 to Gnd or Line1 to Gnd = Line1 to N) with tolerance of +6% to -10%
The specification for frequency is 50/60 Hz +/- 1.5%

Power cord plug wiring installation guide

Wire Insulation Color	Branch Circuit/Plug Terminal
Brown	Line 1
Blue	Neutral or Line 2
Green/Yellow	Protective earth (ground)

Air Compressor Connection

1. Pull out the air pressure tube (a 5 m long, orange tube supplied with the platesetter) through the cable opening at the bottom of the platesetter (same opening as main power cable - see *Power Connection* on page 16).
2. Connect the air pressure regulator, which includes the air pressure filters and gauge, to the air pressure tube (the regulator with the filter are supplied with the platesetter).
3. Connect air pressure regulator to the air pressure outlet on the wall.
4. Set the gauge to 6 Bar (90 psi).

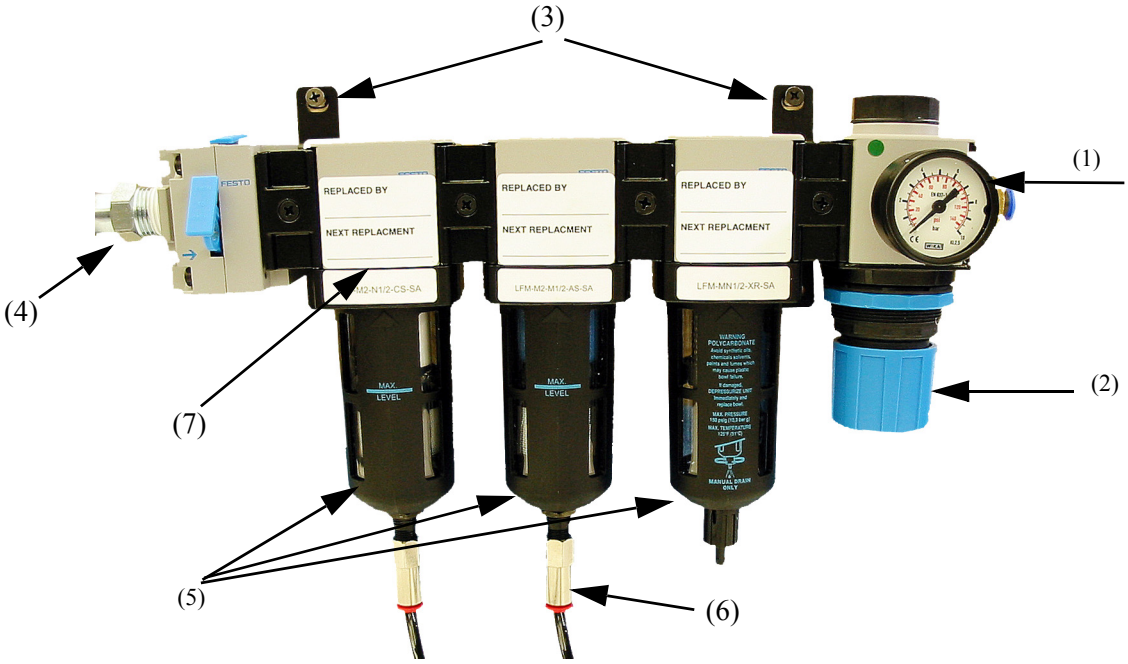


Figure 16: Air compressor connection

1. Air pressure gauge
2. Air pressure control (counter clockwise to open)
3. Two screws attached to wall.
4. Customer air outlet.
5. Three air filters
6. Water drainage.
7. Filter replacement label.

Head Connections

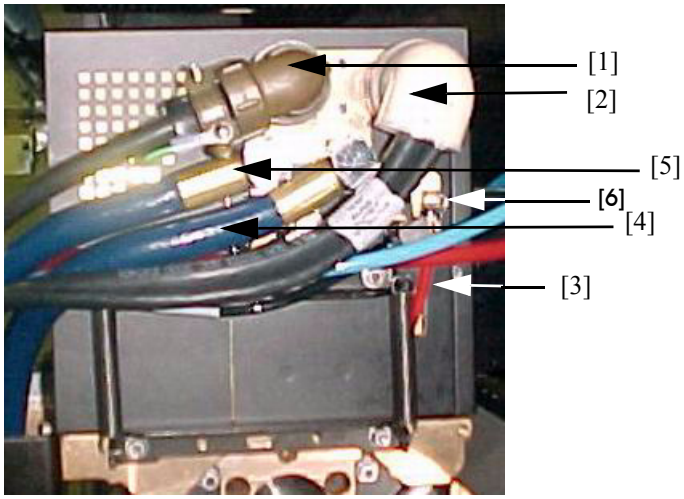


Figure 17: Cables in Imaging head.

1. Route cable 1 from the optic head to the TMCE to J-2.
   - Attach the ground cable to the connector lingula.
2. Route cable 2 from the optic head to the power supply.
   - Attach the ground cable to the connector lingula.
3. Route cable 3 from the optic head to the Air Valve.
4. Route cable 4 from the optic head to the Cooling system at the outlet.
5. Route cable 5 from the optic head to the Cooling system the inlet.
6. Route cable 6 from the optic head to the TMCE board to J-1.

Note: In case the platesetter is using internal cooling unit rout cable 4 to inlet and cable 5 to the outlet.

Routing the Universal Debris Removal Cabinet (UDRC)

1. Remove the lower rear upper cover.
2. Remove the rear lower cover.
3. Connect the UDRC air hose to the output device outlet.



Figure 18: Air hose

4. Connect the data cable connector to the UDRC (found in the Accessories Kit). The data cable is used to transfer data between the UDRC and the platesetter.



Figure 19: UDRC

Note: The data cable is 3 m (9.8 ft) long. It is used to transfer data between the UDRC and the platesetter.

5. Connect the other side of the cable (molex connector) to the ABL (ablation) unit hidden on the outside of the E-box wiring.

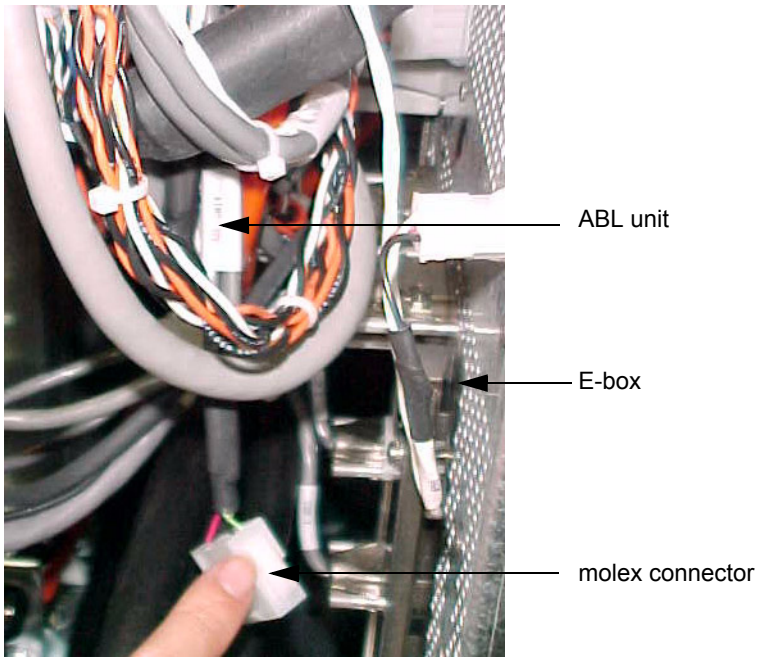


Figure 20: ABL unit

Note: The debris removal unit should be located within 3 meters from the machine.

6. Connect the UDRC power cable.

Connecting Plate Conveyor to Plate Processor

Plate Conveyor Assembly

The Plate conveyor is supplied in a separate package. It is recommended that two (2) people unpack and assemble the conveyor. Refer to the following figures; the numbers in brackets, in the instructions below, identify the various parts.

1. Open the packaging. The packaging includes the following parts (*Figure 21: on page 27*):
   - Upper assembly [4]; has two parts, front and back, where the back part can fold toward the front part.
   - Two identical leg assemblies [3].
   - Leg adjuster assembly [8].
   - Small bag with screws and washers.
2. Remove the two leg assemblies, the leg adjuster and the bag of screws and other accessories (the upper assembly should remain in the packaging).
3. Open the inner protection cover of the upper assembly so that the side facing you is exposed (the other parts are assembled to the upper assembly while it is in the packaging).
4. Refer to *Figure 22: on page 28* - connect the two leg assemblies to the Upper assembly: each leg assembly is connected with two shoulder screws [1]. The leg assembly orientation should be so that the slots in the leg assembly horizontal bar will enable inserting the leg adjuster screws [9]. Do not tighten the screws.



Note: If the leg assembly does not fit into the upper assembly, open the four screws that attach the leg assembly, make the necessary adjustment and tighten the screws.

5. Connect the leg adjuster [8] to the two leg assemblies:
   - Refer to *Figure 21: on page 27* - disconnect the two parts of the leg adjuster by releasing the set screws [2]. Note that one part has a ruler printed on it.
   - Refer to *Figure 22: on page 28* - connect the leg adjuster part with the ruler to the top bar of the front leg assembly. Use screw [9], spring washer [10] and adjuster washer [13]. Do not tighten the screw.
   - Refer to *Figure 22: on page 28* - connect the other part of the leg adjuster to the bottom bar of the rear leg assembly. Use screw [9], spring washer [10] and adjuster screw [13]. Do not tighten the screw.
   - Refer to *Conveyor - Processor Interface* on page 26 *Conveyor - Processor Interface*. Locate the name of the processor to be used in the customer's site, and the required leg adjuster height (value A in Conveyor - Processor Interface) for that processor.
   - Refer to *on page 29* - using the ruler printed on the leg adjuster, adjust the length according to the required height (above).
   - Tighten the two set screws [2] shown in *Figure 21: on page 27*.
6. Adjust the leg assemblies angle [3] to the upper assembly [4] (*Figure 21: on page 27* and *on page 29*):
   - There are sets of holes in the leg assembly and in the upper assembly. Rotating the leg assembly will engage holes in the fixed and mobile parts.



Note: It is important to adjust the front leg assembly first.

   - Locate the correct hole for the front leg - see value C in Conveyor - Processor Interface for your processor. Match it with the corresponding hole in the upper assembly, by rotating the leg.
   - Insert a screw [5], washer [7] and spring washer [6] into the two holes of the front leg. Tighten the screws.
   - Locate the correct hole for the rear leg - see value B in Conveyor - Processor Interface for your processor. Match it with the corresponding hole in the upper assembly, by rotating the leg.
   - Insert a screw [5], washer [7] and spring washer [6] into the two holes of the rear leg. Tighten the screws.
7. Tighten the shoulder screws [1] that connect the upper assembly with the leg assembly (a total of 4 screws, 2 for each leg).

8. Adjust the height of each leg assembly:
   - Refer to conveyor - Processor Interface for the required leg assembly height for your processor. For the rear leg - value D; for the front leg - value E.
   - Release both set screws [14] of each leg in the front leg assembly, and in the back leg assembly.
   - Using the ruler printed on the leg, adjust the length of the narrow part of each leg according to the above height.
   - Tighten the two set screws of the two legs of the front leg assembly, and the back leg assembly.
9. At both ends of the leg adjuster, tighten screw [9] that connects the leg adjuster to the leg assemblies.
10. Turn the conveyor over, face up, so that it stands on its legs (the back part should be folded on top of the front part).
11. Attach the conveyor to the platesetter, as described in *Attaching Plate Conveyor to Platesetter* on page 30.

Conveyor - Processor Interface

Processor Type	A	B	C	D	E	Remarks
Horsell	5.8 cm	3	2	39.5 cm	40.5 cm	Remove front tray of processor and connect the plate sensor to the upper part of the conveyor

A: length of leg adjuster ruler part.
B: Rear leg angle position.
C: Front leg angle position.
D: Length of rear leg ruler part.
E: Length of front leg ruler part



Note: This processor is only an example. Creo does not endorse any specific company's products.

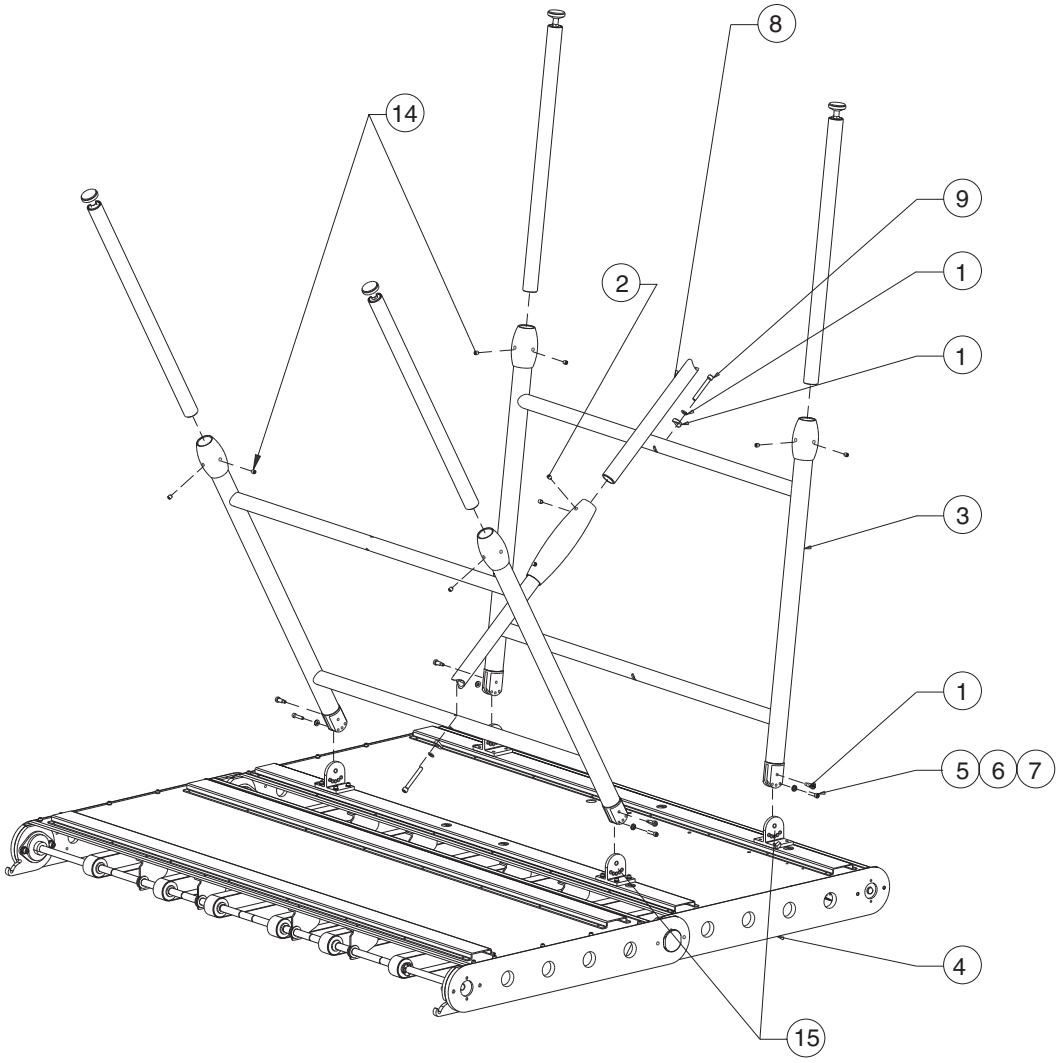


Figure 21: Plate conveyor assembly (1)

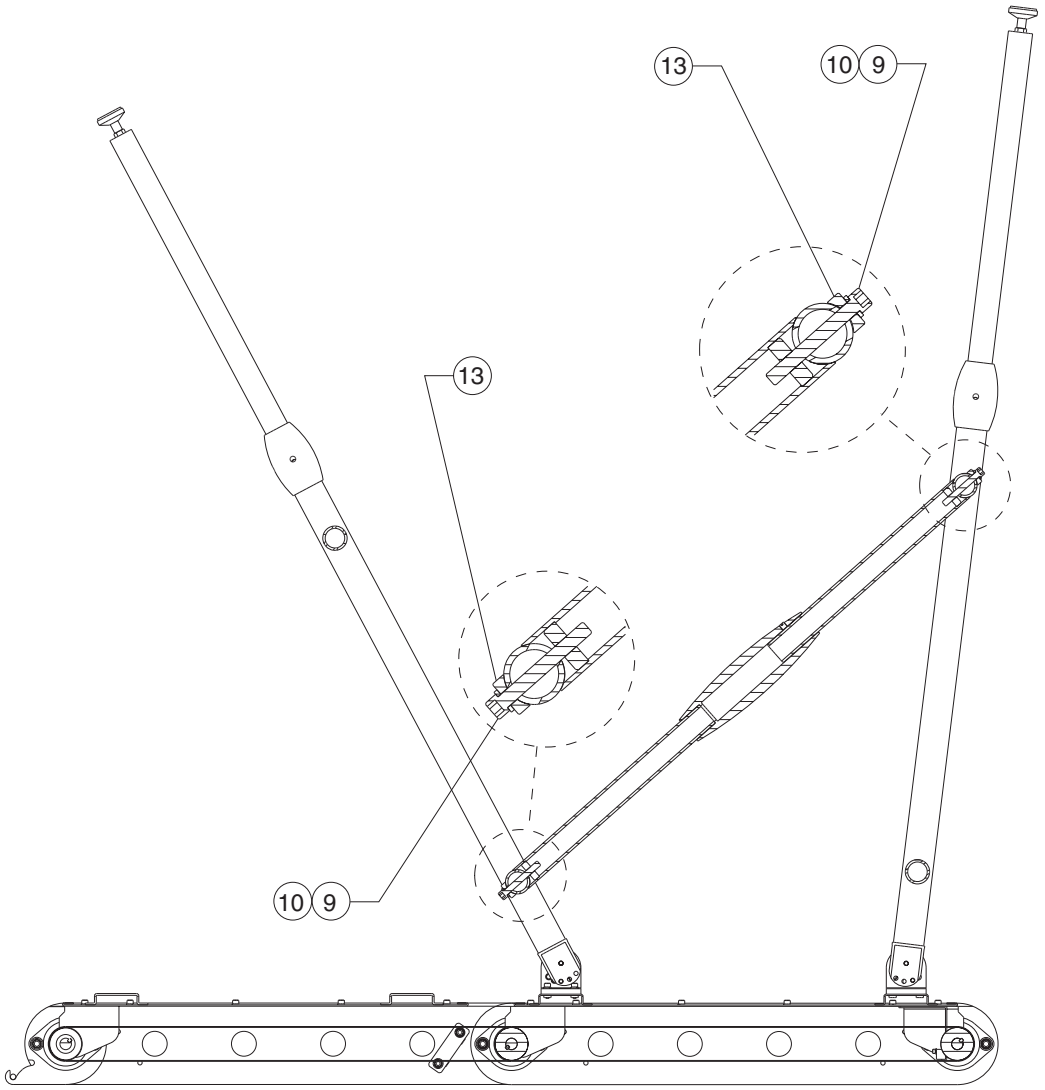


Figure 22: Plate conveyor assembly (2)

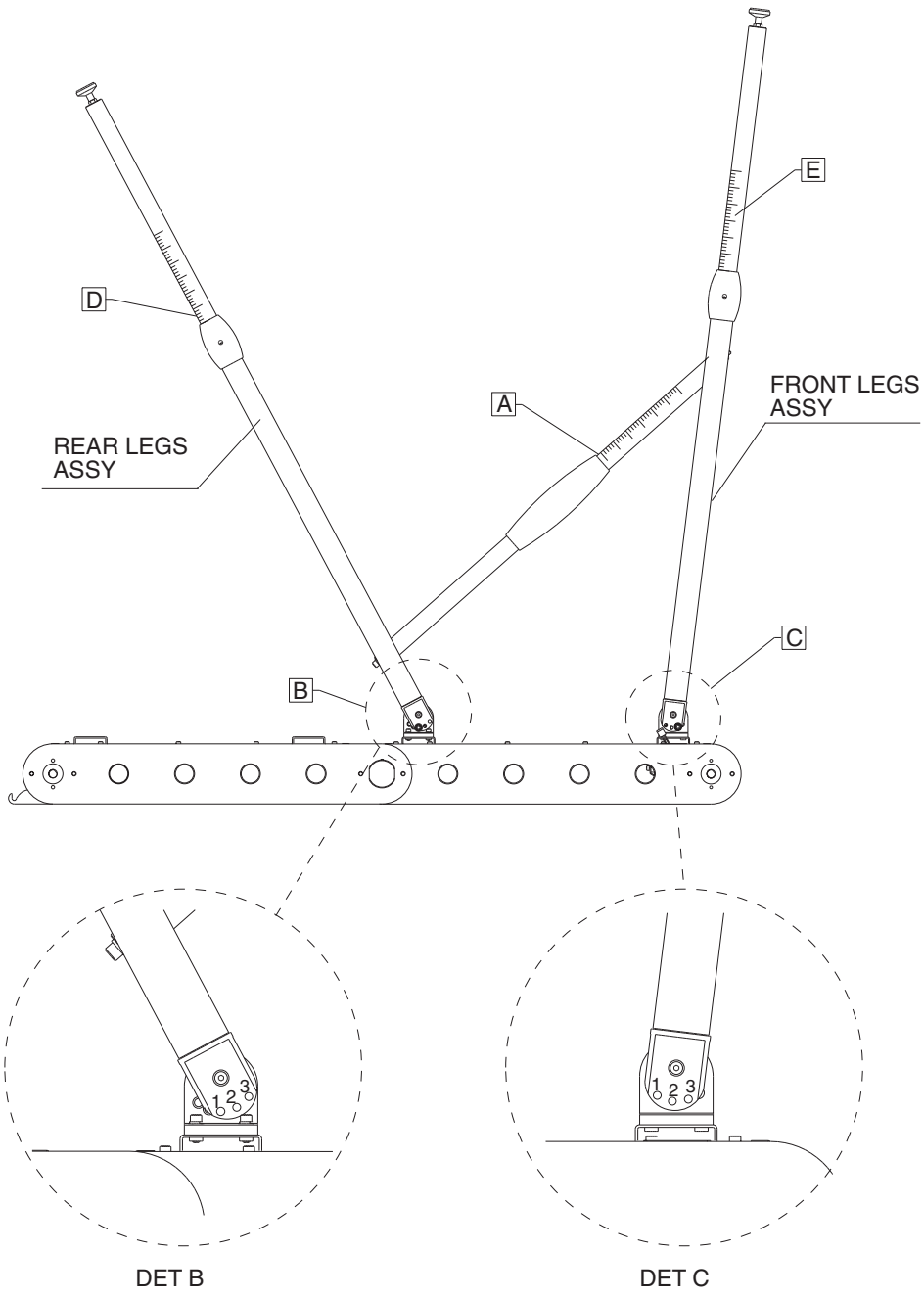


Plate conveyor assembly (3)

Attaching Plate Conveyor to Platesetter

The conveyor connects to the upper back panel of the platesetter.

1. Refer to *Figure 23: on page 31* and *Figure 24: on page 32* - attach the conveyor hooks [11, 12] to the upper back panel of the platesetter, using the two screws [16] and two spring washers [17]. Note that there is a left and right hook (in the figure, items [11] and [12] respectively).
2. Refer to *Figure 25: on page 33* - hang the front part of the upper assembly on the two hooks on the back panel of the platesetter.
3. Verify that the conveyor is stable in its place. If needed, fine-tune the height of the leg assemblies by adjusting the length of the ruler part of the leg.
4. Pull out the conveyor power cable from inside the platesetter (through the cable opening at the bottom).
5. Plug the conveyor power cable into the wiring plug adapter attached to the upper assembly.

Attaching Plate Conveyor to Processor

1. Place the processor near the conveyor, so that the plate entrance at the front side of the processor is close to the conveyor (several mm distance).
2. Adjust the processor height to the conveyor height: the plate entrance of the processor should be at the same level as the upper strip of the conveyor belts.
3. Some processors have plate sensors that can be connected to the conveyor. For these processors, connect the plate sensor to the appropriate opening in the front side of the upper assembly (see *Figure 26: on page 33*).

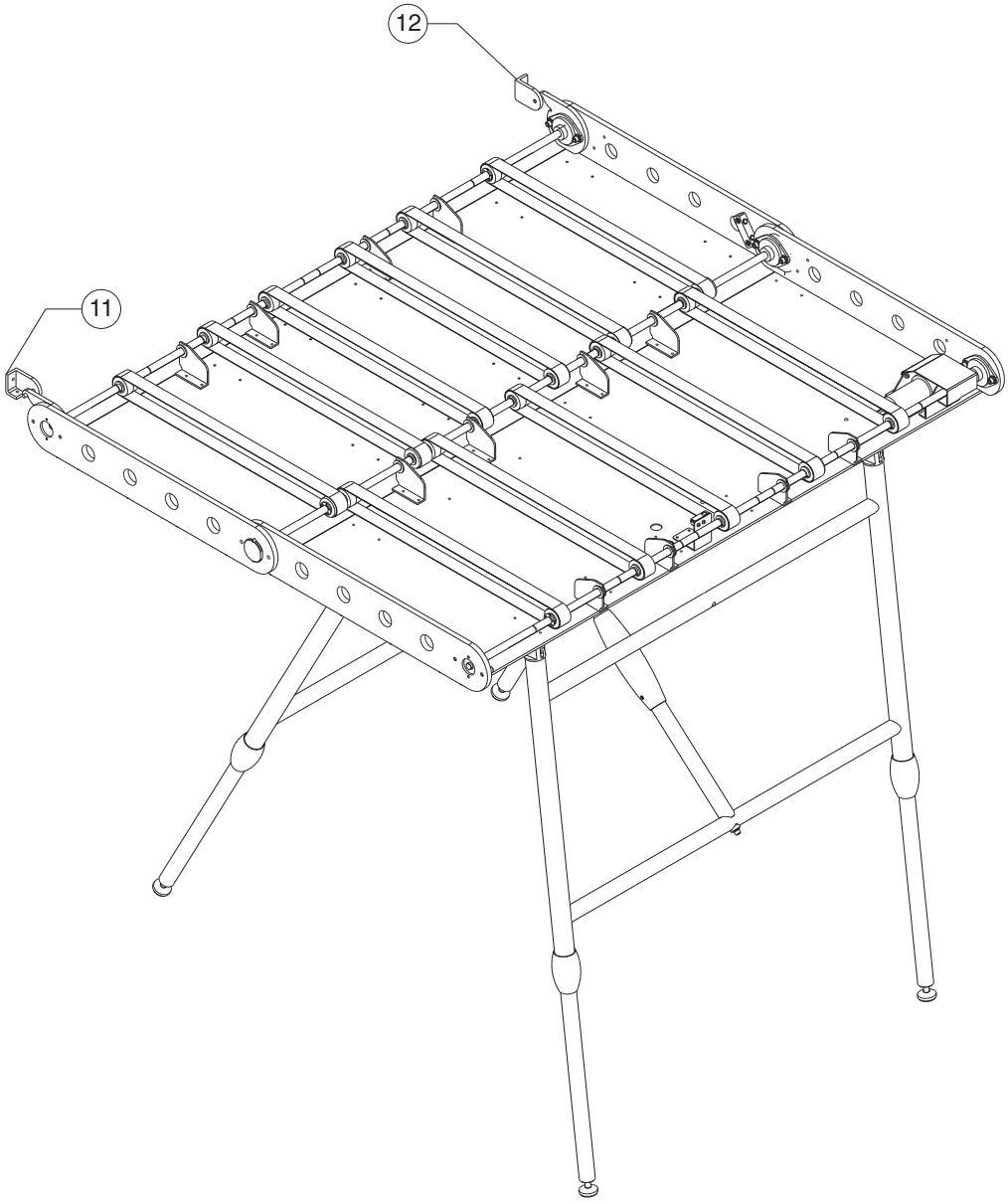


Figure 23: Attaching Plate conveyor to platesetter (1)

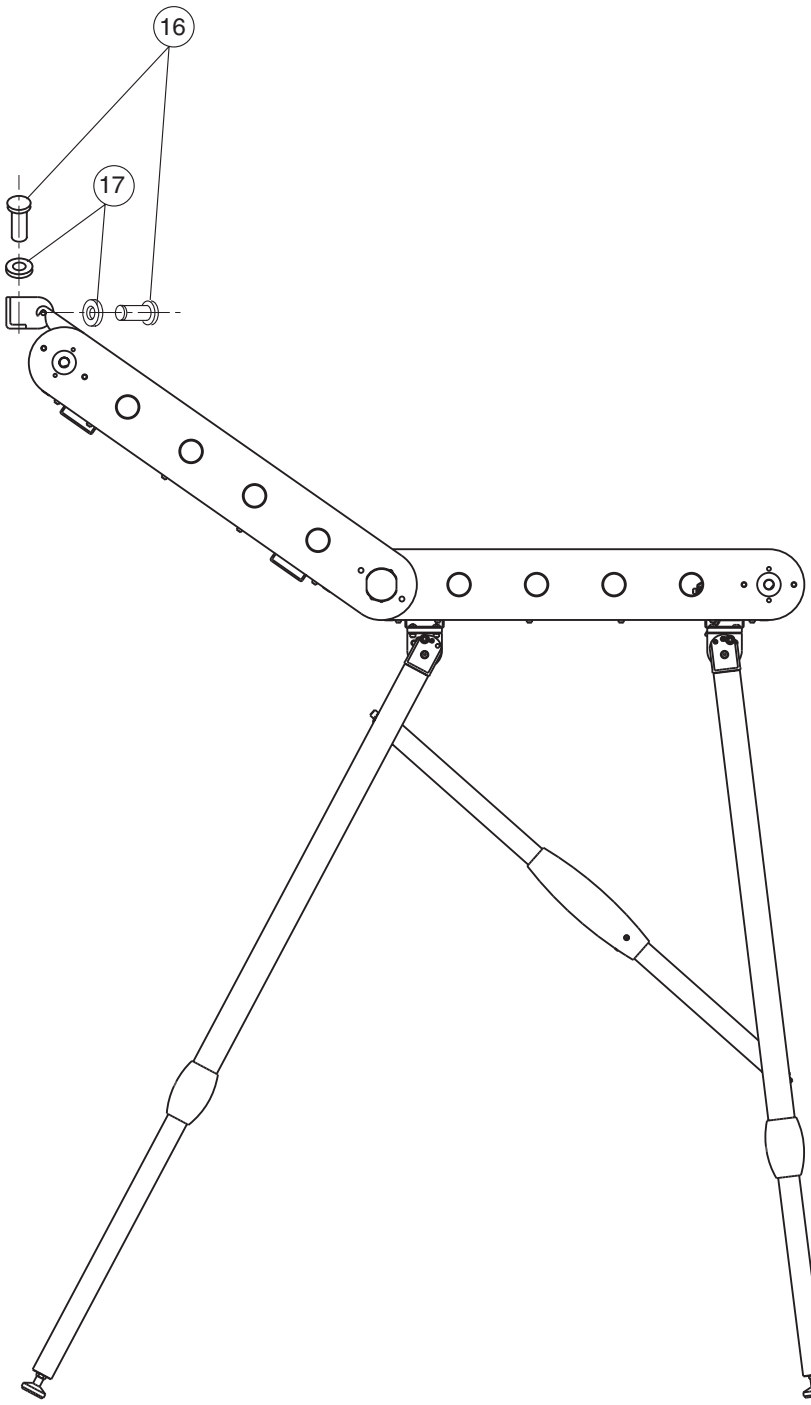


Figure 24: Attaching Plate conveyor to platesetter (2)

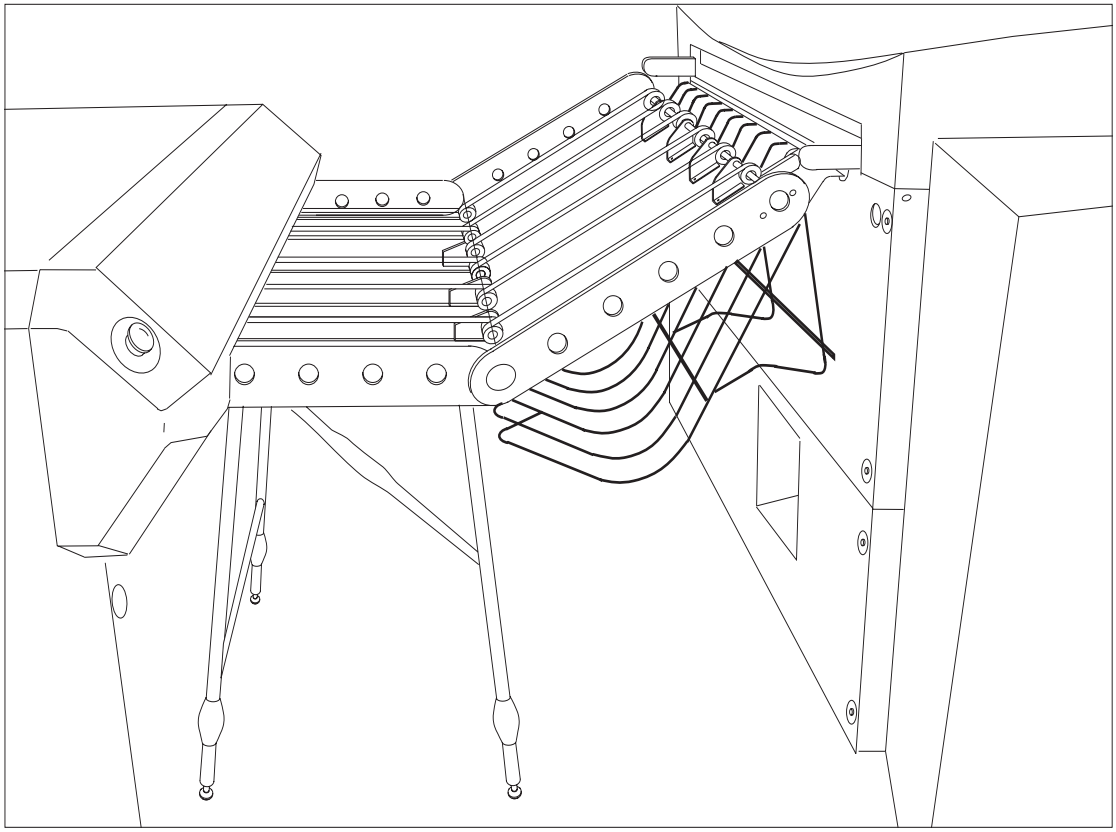


Figure 25: Attaching plate conveyor and Unloading basket to platesetter (3)

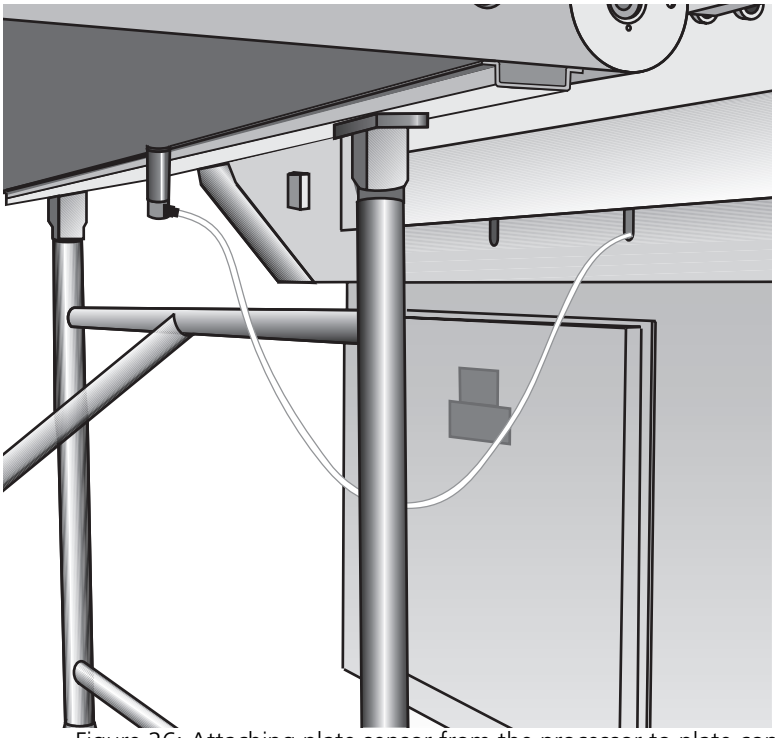


Figure 26: Attaching plate sensor from the processor to plate conveyor

Connecting Operation Monitor

1. Place the operation monitor, its keyboard and mouse on the designated monitor table.
2. Connect the cables from the operation monitor, keyboard and mouse to the E-box, as shown in the *Figure 27 on page 35*.
3. Connect the main power cable of the operation monitor to the wall line voltage.

E-Box Connections

The following figure shows the E-box connections.

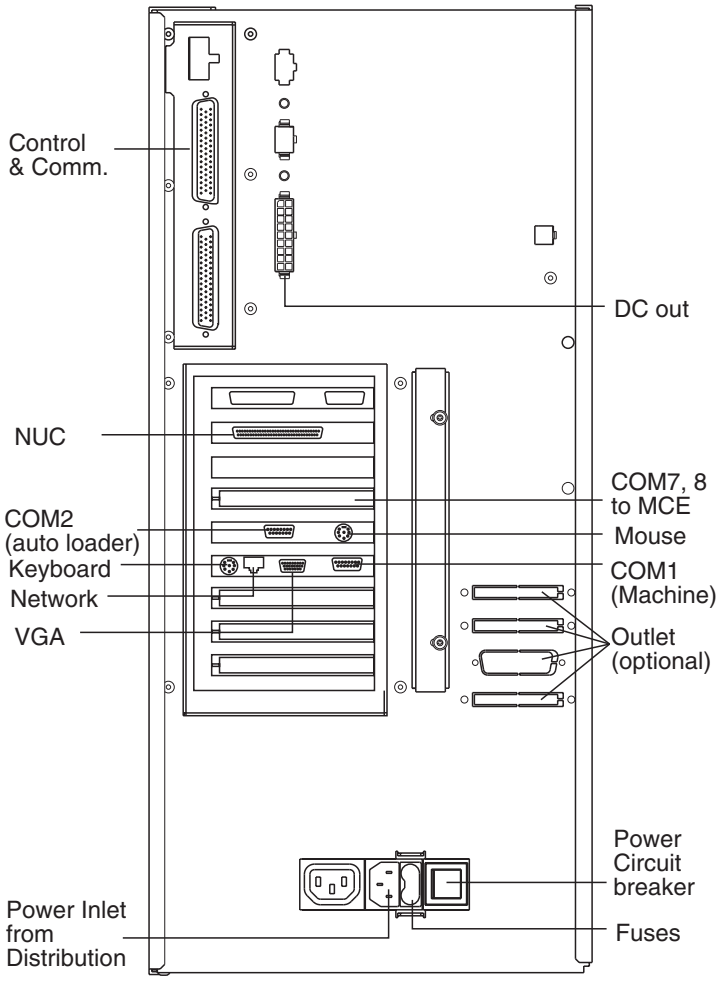


Figure 27: E-Box connections

Punch Installation

The installation of punches covers the procedure for installing or repositioning customer punches. The 2 Stop pins ensure that the plate is positioned parallel to the drum before punching.The 4 Plate supports with guide wheels guide the plate onto the drum after it has been punched.

Assembling Punch on Bar

Ten (10) customer punches can be installed on the machine. The pitch between punches is determined by the press system, such as a Heidelberg press or a custom punch configuration system.

1. Position punch on bar and place diamond nut into the T-slot on the punch bar.
2. Tighten the screw connecting the punch to the diamond nut. The diamond nut also turns until it comes into contact with the wall of the T-slot. Continue tightening the screw until the punch is secured firmly in place on the bar.
3. For example, in the punch installation for Heidelberg, where punch pitch is 780 mm (between centers), the following calculation is used: 780/2=390 mm.
4. Take all measurements from the ruler on the punch bar.
5. Locate 0 on the ruler (this is also the center of the drum). This measures to the outer side of the punch. The center of the punch housing is in fact 14 mm less - the inner side of the punch must be on the 376 mm ruler line (390 - 14 = 376).
6. Similarly, position the second punch on the other side of the 0 mark.
7. The inner of edge of each punch housing must be 376 mm from the 0 mark.
8. If a Stop pin or a Plate support interfere with the positioning of a punch, they can be moved by simply opening the retaining screw and moving them to the left or the right of the punch.
9. Connect the electrical cable and the earth cable from each punch to the cable attached to the punch bar. The plate support can move ±30 mm.

Packing-up the Platesetter for Shipment

A minimum of two (2) people and a Fork lift are required to pack-up and place the platesetter on its shipping pallet.

Figure 28: on page 38 shows the packing process. Refer to this figure to identify the numbers appearing inside brackets in the following text.

1. Disconnect all the electrical cables from the platesetter and remove the skirting boards from the sides, front and rear of the platesetter.
2. If the Fork lift cannot be moved to the platesetter location, you need to roll the platesetter to the shipping pallet. To do so, lower the wheels: close the nut of each leg by turning it counter-clockwise to maximum position. When the platesetter rests on its wheels, roll it to the shipping pallet.
3. Place the two (2) lower shipping beams [6] on the shipping pallet [7] above the main shock absorbing beams. Make sure to place the shipping beams in the correct orientation; the end of the beam with the shorter extension should face the front of the pallet (the front bracket securing hole is closer to the edge).
4. Using the fork lift, lift the machine and place it on the shipping beams of the shipping pallet, aligned according to the bracket securing holes.
5. Secure the machine to the shipping pallet using the four brackets, screws and washers [8].
6. After performing a final check to assure that the platesetter is positioned and secured properly, cover the platesetter with nylon wrapping.
7. Pack the skirting boards in bubbled nylon and place behind the platesetter. Secure with plastic tape [1].
8. Place six protective rubber angles [4] at each corner of the platesetter, and tape each angle with two plastic tapes [1].
9. Place two protective rubber angles [4] on the two upper doors. Tape the doors to the shipping pallet using two plastic tapes [1].
10. Staple the side wooden struts [5] to the shipping beams [6].
11. Staple the top wooden struts [3] to the side wooden struts [5].
12. Place an outer carton container [2] on the platesetter on the shipping pallet [7]. Insert staples to secure the outer carton to the shipping pallet and side wooden struts.
13. Close the top flaps of the outer carton.
14. Close the outer carton with plastic tape and with the two steel bands.

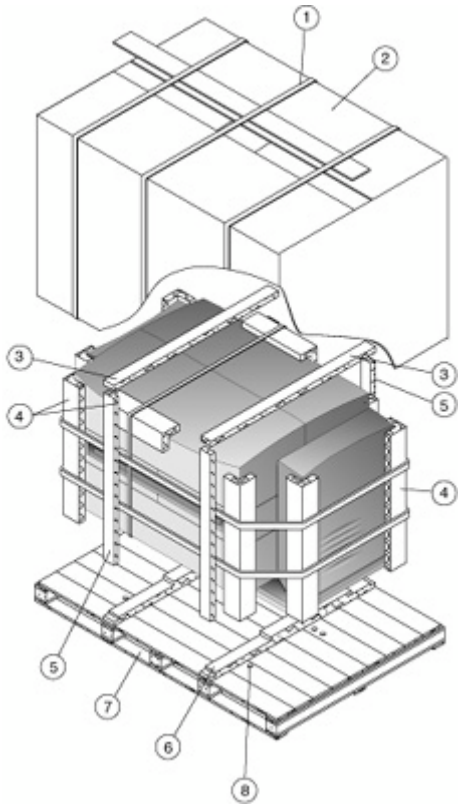


Figure 28: Packing-up the platesetter