Kodak

Magnus 400 II Quantum

Platesetter

Hardware Installation Guide

English

731-01208A-EN Rev A

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Introduction

This describes how to unpack and install a Kodak® Magnus™ 400 II Quantum platesetter at a customer site.

Before you begin to unpack and install the platesetter, verify that the site has fulfilled the prerequisites in the *Magnus 400 II and Magnus 400 II Quantum Site Preparation Guide (*731-01214A*)*.

Unpacking the Platesetter

Important: Read this entire section before you unpack the platesetter.

Throughout the unpacking process, handle packing material with care. You will use these materials in the future to transport the platesetter.

Requirements

- Two people
- Forklift
- Hex key set
- Wrench

Before Unpacking

Before you unpack the platesetter, verify the following conditions:

- The shipping container is not damaged.

  Important: If the container is damaged in any way, notify the shipping agent immediately and do not unpack the platesetter.

- The temperature where you are unpacking the platesetter is not less than 0°C and not more than 30°C.
- The room is air-conditioned (in case of very humid weather).
- There is ample space to easily maneuver the platesetter.
  - ❒ There is space for the forklift to lower the platesetter from the shipping pallet.
  - ❒ The doorway clearance is adequate for the platesetter and forklift..



WARNING: Do not unpack the platesetter if these conditions are not met.

Device	Width	Length	Height	Weight
Platesetter	1750 mm (68.9 in.)	940 mm (37.0 in.)	1340 mm (52.75 in.)	750 kg (1650 lb)
Platesetter with loading tray installed	Not applicable	1450 mm (57.09 in.)	Not applicable	
Universal Debris Removal Cabinet (UDRC)	See the *Universal Debris Removal Cabinet (UDRC) Site Preparation Guide* (725-00089A)			
Workflow	Varies with configuration			

Device	Width	Length	Height	Weight
Optional Equipment				
MCU II	1210 mm (47.63 in.)	1580 mm (62.20 in.)	1340 mm (52.75 in.)	650 kg (1431 lb)
Platesetter with MCU II/SCU II	Not applicable	2410 mm (94.88 in.)	Not applicable	1400 kg (3080 lb)
Plate Conveyor	860 mm (33.86 in.)	730 mm (28.74 in.)	980 mm (38.58 in.)	
Platesetter with plate conveyor	Not applicable	2180 mm (85.83 in.)	Not applicable	
Punch conveyor	1010 mm (39.76 in.)	1170 mm (46.06 in.)	1020 mm (40.16 in)	60 kg (132.3 lb)
Platesetter with loading tray and punch conveyor	2120 mm (83.46 in.)	2920 mm 114.96 in.)	2360 mm (92.91 in.)	810 kg (1785.7 lb)

Removing the Platesetter from the Packaging

At least two people and a forklift are required to unpack and lower the platesetter from its shipping pallet. The unpacking process is illustrated in Figure 1 on page 4. The numbers (in parentheses) in the following instructions correspond to the item numbers that appear in Figure 1.

1. Using the forklift, lift the shipping container, and place it at the unpacking site.

   Important: See the label on the shipping container to make sure that you lift the container from the correct side.

2. Carefully cut the steel bands [1] that surround the carton [2].
3. Open the top flaps of the carton.
4. Remove the staples that secure the carton to the shipping pallet [7] and to the side support struts [5].
5. Remove the entire carton.
6. Remove all the parts that are tied to the shipping pallet at the rear of the platesetter.
7. Remove the top support struts [3] and the side support struts [5].

   Important: If signs of ice appear on the platesetter, do not touch any of the mechanical parts. Wait at least 24 hours (preferably 48 hours) for the platesetter to reach room temperature.

8. The platesetter is secured to the shipping pallet with four screws, brackets, and washers [8]. Remove the screws, brackets, and washers from beneath the shipping pallet.
9. Using the forklift, lift the platesetter from the shipping pallet. Make sure to lift the platesetter *only* at the designated locations, marked on the pallet frame.

10. Lower the platesetter from the shipping pallet.
11. Remove the nylon wrapping from the platesetter.

    Note: When you remove the nylon wrapping, be careful not to scratch the platesetter.

12. To move the platesetter, lift its legs (so that it can be rolled on its wheels), and then close the nut on each leg by turning it counterclockwise.
13. Roll the platesetter to its final location.
14. Lower the four legs of the platesetter by turning the nut clockwise on each leg.

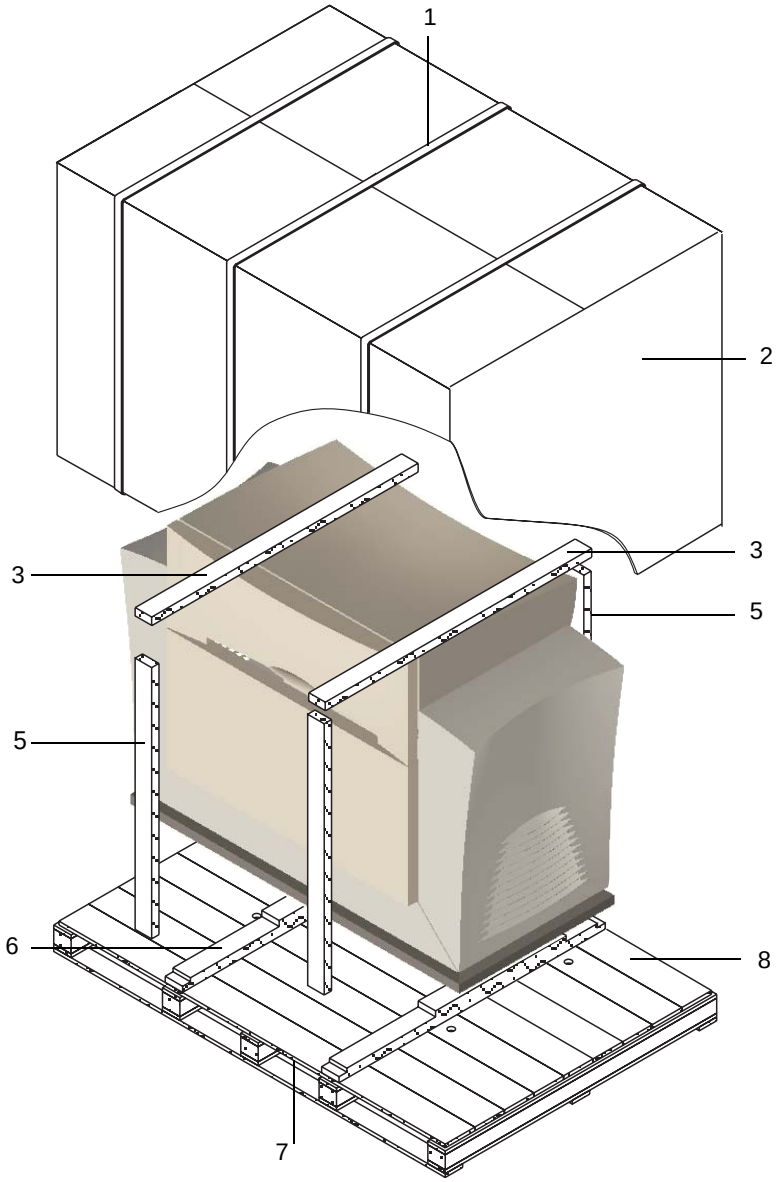


Figure 1: Unpacking the platesetter

Parts Checklist

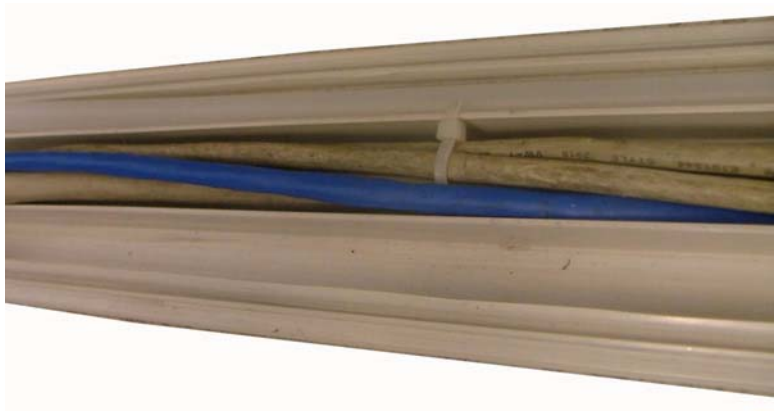
For a parts list, see the *GCL* forms attached to the platesetter packaging.

Accessory Kits

A gray cable protector (part number 203C10685) has been added to the accessory kits for the Magnus 400 and Magnus 400 II platesetters.



Cable protector covering cables



Cables exposed

Accessory Kit	Description
518-01004A	Magnus 400 accessory kit
518-01005A	Magnus 400 MCU accessory kit
518-01007A	Magnus 400 Quantum accessory kit

Opening Doors and Removing Panels

1. To open the rear door, on the left side of the rear panel, insert a 5/32-in. hex key at least 6 cm (2.5 in.) into the hole, and turn the key to the left. On the right side, insert the hex key into the hole, and turn the key to the right.



Figure 2: Inserting a hex key to open the rear door

2. To open the side doors, press the spring latch for each door. The latch is located on the side door near the front of the platesetter.

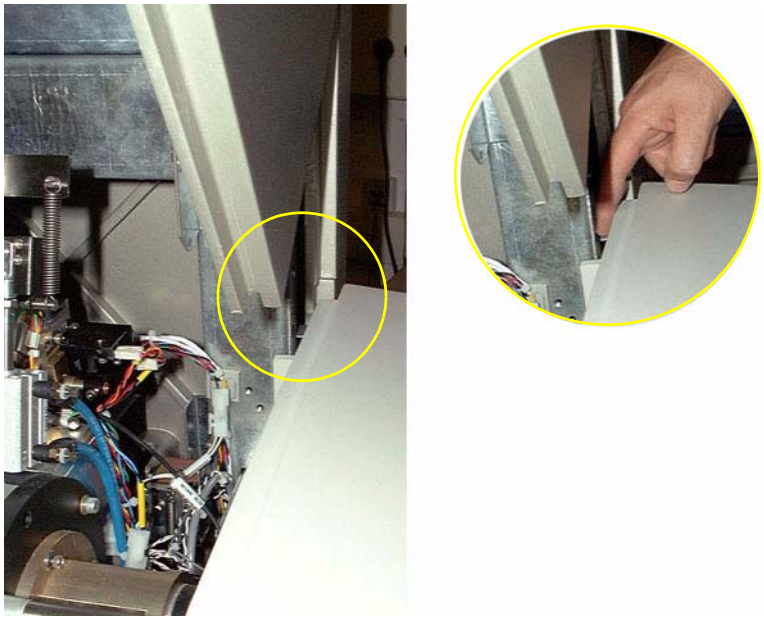


Figure 3: Opening the side doors

3. On both sides of the platesetter, remove the panels.

4. To open the front door, on both sides of the platesetter, push the hook up twice. You can then fully open the front door.



Figure 4: Opening the front door

5. To remove the rear panel, with the front door open, remove the two screws on each side of the panel that secure the panel to the mainframe.

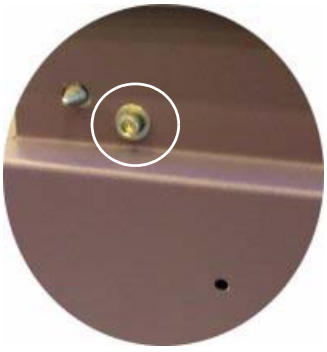




Figure 5: Removing the rear panel

6. To remove the rear trapezoid, with the two side doors open, remove the two screws that secure the rear trapezoid to the mainframe, and lift the trapezoid off.

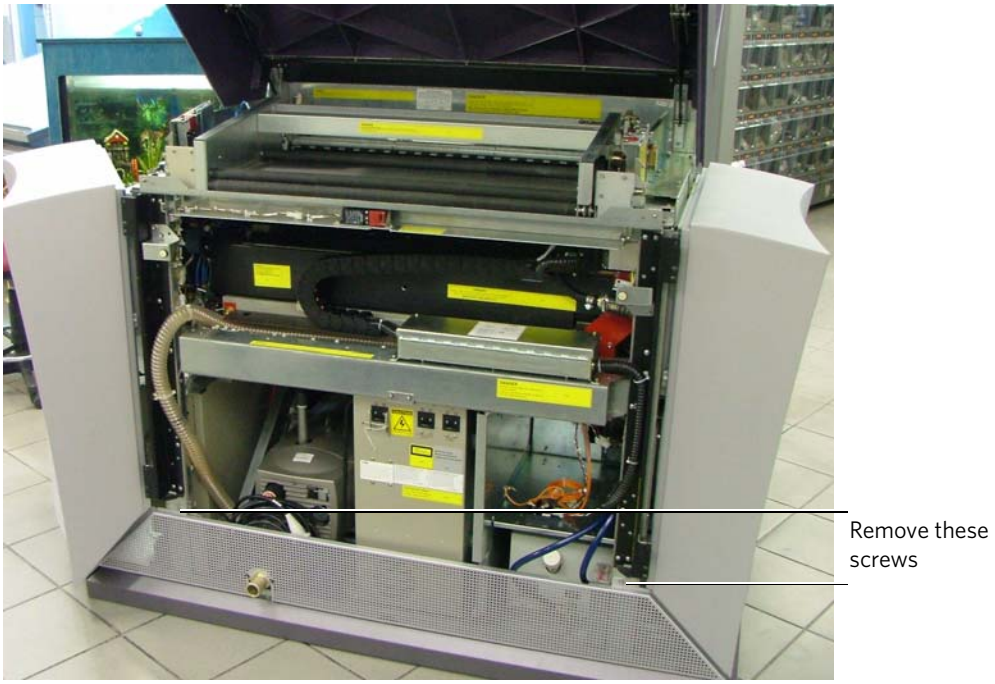


Figure 6: Removing the rear trapezoid

7. To remove the front panel, remove the screws (on each side of the panel) that secure the front panel to the mainframe.

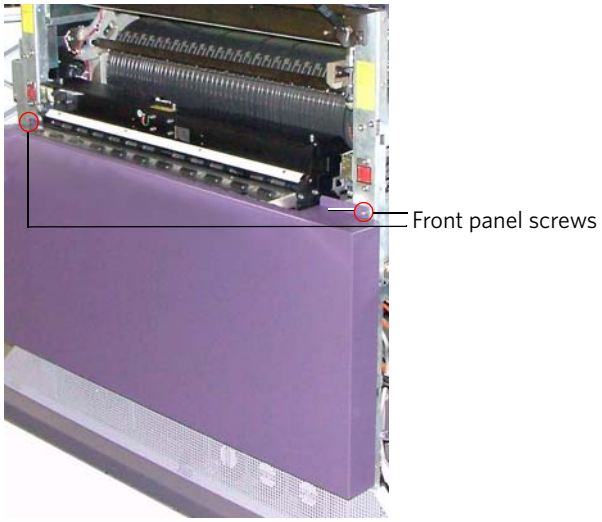


Figure 7: Removing the front panel

8. To remove the front trapezoid, remove the two screws that secure the front trapezoid to the mainframe and lift the trapezoid off. See step 6.

Removing Shipping Safeguards

The platesetter is shipped with safeguards that prevent excessive movement of internal parts during transport. The safeguards are red for easy identification. This section describes how to remove these safeguards

Assembly	Quantity	Location
Unload tray	1	rear
Optomechanic-to-chassis	4	2 rear, 1 left, 1 right
Carriage-to-optomechanic	2	1 front, 1 rear
Head to Carriage	2	1 left, 1 right

Removing Unload Tray Safeguards

1. At the rear of the platesetter, cut the cable ties that secure the unload rollers.
2. Remove the tape from the tail grippers, and then move the tail grippers to pre-load position.

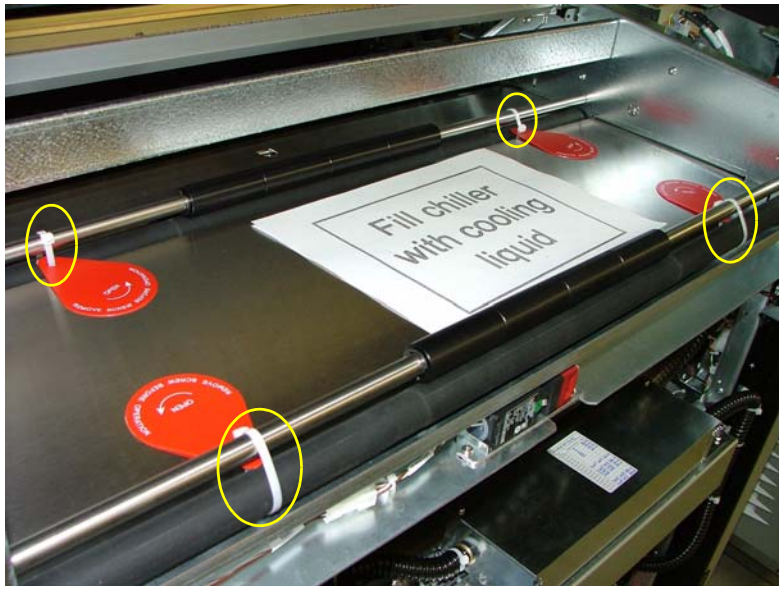


Figure 8: Removing the cable ties from the unload rollers

Removing Optomechanic-to-Chassis Safeguards

Special safeguards secure the optomechanic assembly to the chassis during transport. There are four safeguards—two in the rear of the platesetter, one on the left side, and one on the right.

➢ Using a 5/16-in. hex key, remove the screws that secure each safeguard, and then remove the safeguard.



Figure 9: Optomech to chassis safeguards, rear view

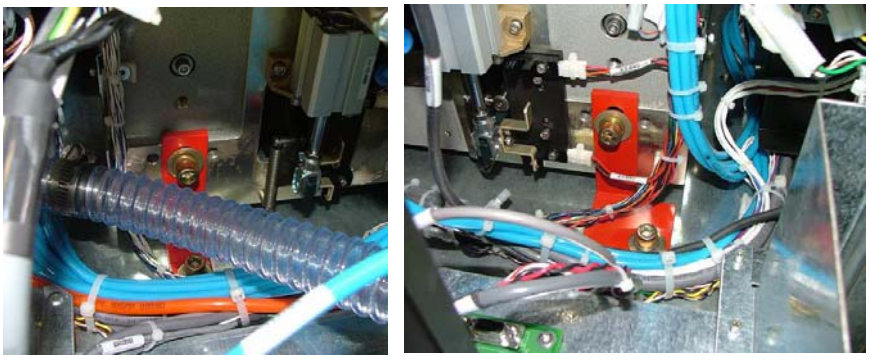


Figure 10: Optomechanic-to-chassis safeguards, left side and right side view

Removing Carriage-to-Optomechanic Safeguards

Two safeguards secure the carriage to the V block during transport: one in front of the carriage, and one behind the carriage.

Attention: Before you remove the safeguards, you must remove both the unloading tray and the Local3 board.

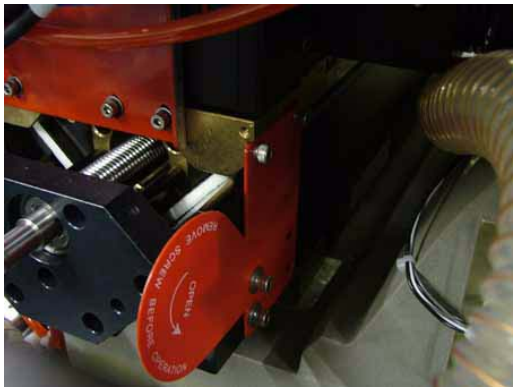
Note: Magnus 400 II Quantum platesetters are shipped with the thermal imaging head already installed. The photographs in this section show the safeguards with and without the thermal imaging head installed.

1. At the rear of the platesetter, use a 5/32-in. hex key to remove the screws from the safeguard in front of the carriage, and then remove the safeguard.
2. At the left side door, use the hex key to remove the screws from the safeguard behind the carriage, and then remove the safeguard.

   Note: After you remove the safeguard, verify that the components inside the platesetter are not damaged.

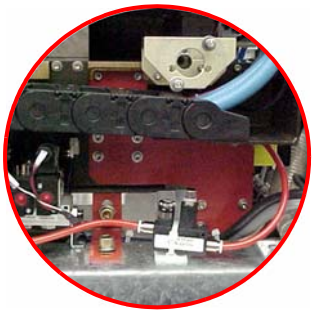


In front of carriage

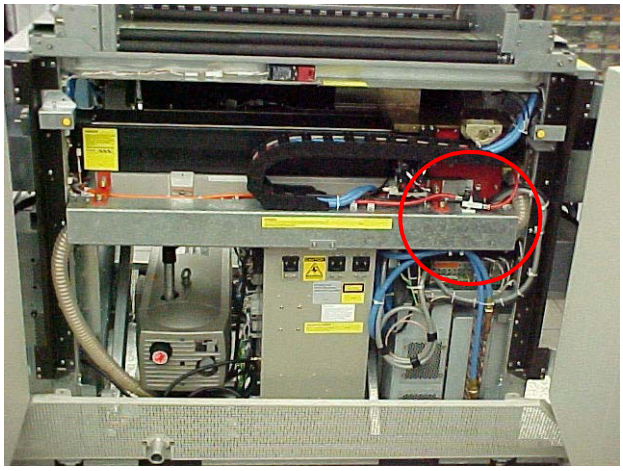


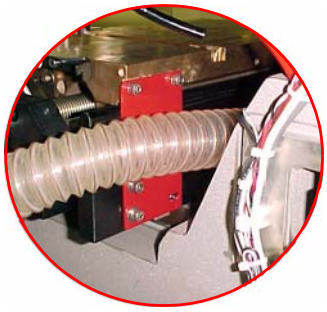
Behind carriage

Figure 11: Carriage to V block safeguards in device with head installed



In front of carriage





Behind carriage,
access from left side door

Figure 12: Carriage to V block safeguards in device without head installed

Removing Head-to-Carriage Safeguards

Two safeguards secure the head to the carriage during transport: one on the left side of the thermal imaging head, and one on the right side.

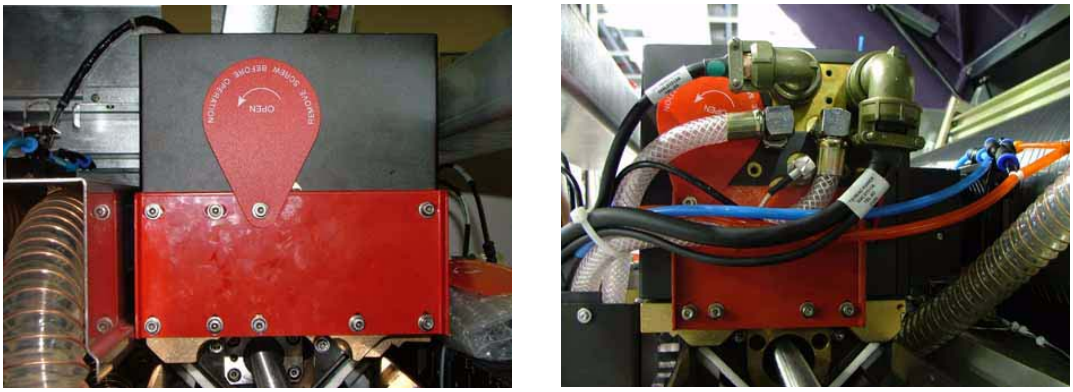


Figure 13: Head-to-carriage safeguards, left and right

Assembling the Loading Tray

1. Position the left [1] and right [2] brackets as shown in Figure 14. Using a 10-mm (0.4 in.) wrench, secure each bracket with three head screws [3]. Do not tighten the screws.

   Important: The right bracket has wiring holes. When installing the right bracket, make sure not to damage the wire that extends from the platesetter.

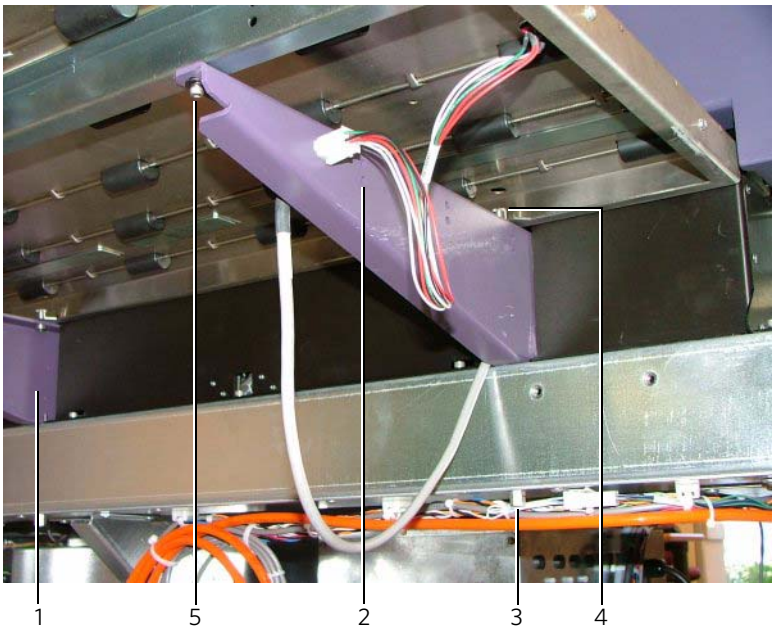


Figure 14: Loading tray assembly

2. Place the loading tray on the brackets and secure it to each bracket with two hex screws. Do not tighten the screws.
3. Tighten the six head screws [3], and then tighten the four hex screws.
4. Tighten the two spring screws [4] located on the upper part of the tray near the mainframe of the platesetter.
5. Tighten the two cross-head screws [5] located at the front of each bracket.
6. Route the harness that extends from the platesetter to the right bracket and secure it with ties.
7. Insert the harness Molex® connector into the slot on the right bracket.
8. Connect the push-button Molex connector on the loading tray to the harness Molex connector.

Filling the Coolant Container

WARNING: Do not operate the platesetter without coolant.

➢ Pour at least one gallon of coolant into the coolant container, and then close the cap on the container.

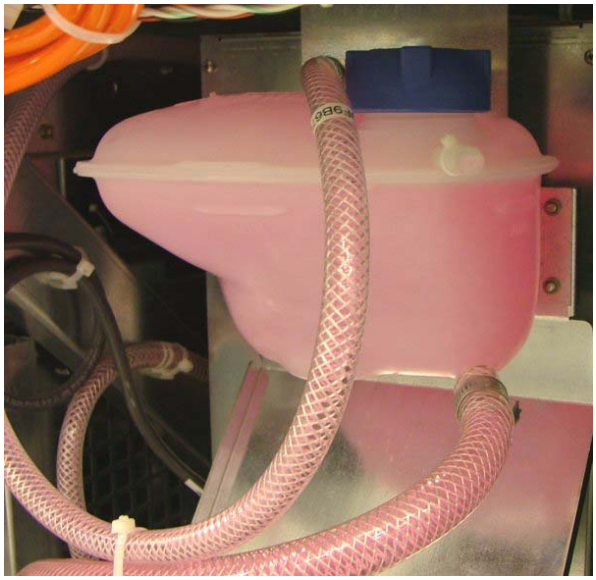


Figure 15: Coolant container

Important: If you do not have the appropriate coolant, fill the container temporarily with distilled water and continue the installation, but do not start ordinary operation until you have replaced the distilled water with coolant.

Connecting External Components and Power

This section contains the following subsections:

- *Before You Start* on page 15
- *Connecting the Monitor, Mouse, and Keyboard* on page 16
- *Connecting the Air Pressure* on page 17
- *Connecting the Main Power Cable* on page 18

Before You Start

Before you connect the platesetter to its external components and to the power supply, ensure that your site meets the electrical requirements described in the *Magnus 400 II and Magnus 400 II Quantum Site Preparation Guide (731-01214A),* and verify that all voltage settings, fuses, and cords fully comply with local standards.

Device Voltage	Power Supply Voltage	Phases	Transformer Required
208/220	110/120 or 220/230	1	no

- Line voltage: 2-phase supply in a 120-V 25-A configuration, or single-phase supply in a 220-V 25-A configuration
- Supply voltage: 200–240 Vac ±10%
- Supply frequency variation: Up to 50/60 Hz ±2%
- Cable connector: male, 6h 3-pin 2-phase; grounding is supplied with the platesetter
- Wall connector: 32-A 6h (female 3-pin 2-phase and grounding)
- Power supply connections: three connections—120 V ±10% or 220 V ±10%, 16-A, for the Kodak Brisque® workstation and monitor, and the Magnus Controller monitor
- One additional isolated single-phase outlet for service purposes
- One additional isolated single phase 208 V or 220 V outlet with a 25-A fuse for the debris removal unit
- Additional power is required for the processor, preheat ovens, baking ovens and/or plate stacker. See vendor specifications.
- For North American customers only—dedicated circuit breaker of 15 A with an interrupting capacity of 5000 A

Note: For more information, see the *Magnus 400 II and Magnus 400 II Quantum Site Preparation Guide* (731-01214A).

Connecting the Monitor, Mouse, and Keyboard

1. Place the Magnus monitor, mouse, and keyboard on the designated workstation table.
2. Connect the cables from the Magnus monitor, keyboard and mouse to their corresponding ports on the PC.

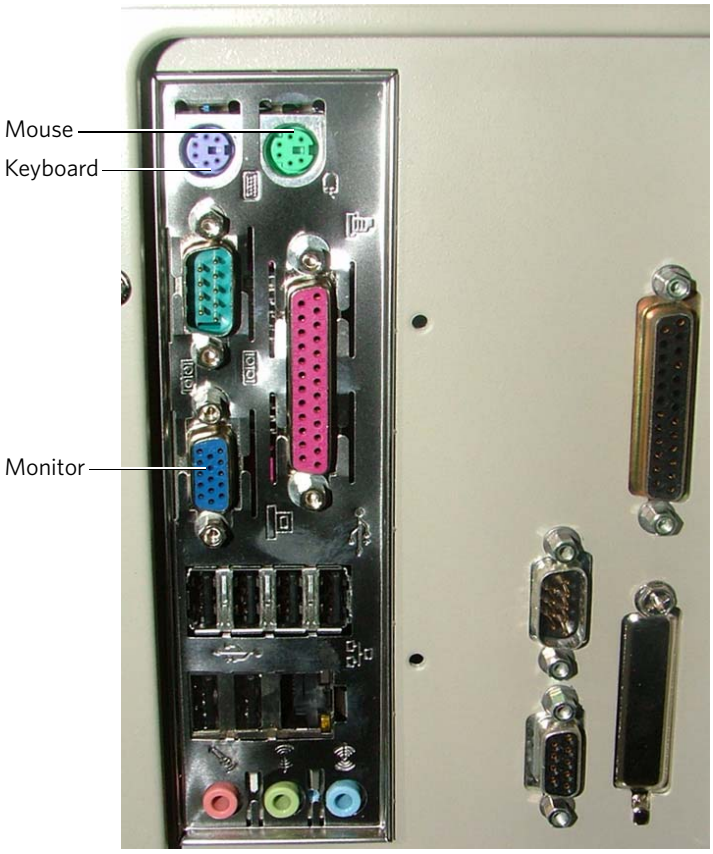
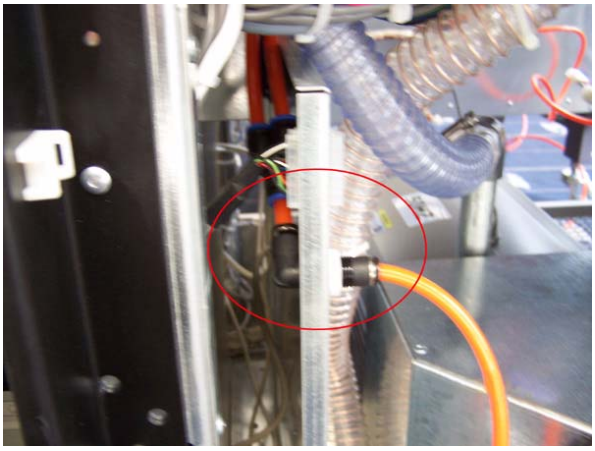


Figure 16: Workstation connections

3. Connect the Magnus monitor main power cable to the wall socket.

Connecting the Air Pressure

1. Connect the 5-m orange air pressure tube to the air plug near the cable opening at the lower rear side of the platesetter. The air pressure tube is supplied with the platesetter.



2. Carefully pull the tube through the cable opening. Make sure that the tube does not crack when you route it out of the platesetter.
3. Connect the other end of the air pressure tube to the air pressure regulator next to the gauge, as shown. The air pressure regulator and filters are supplied with the platesetter.

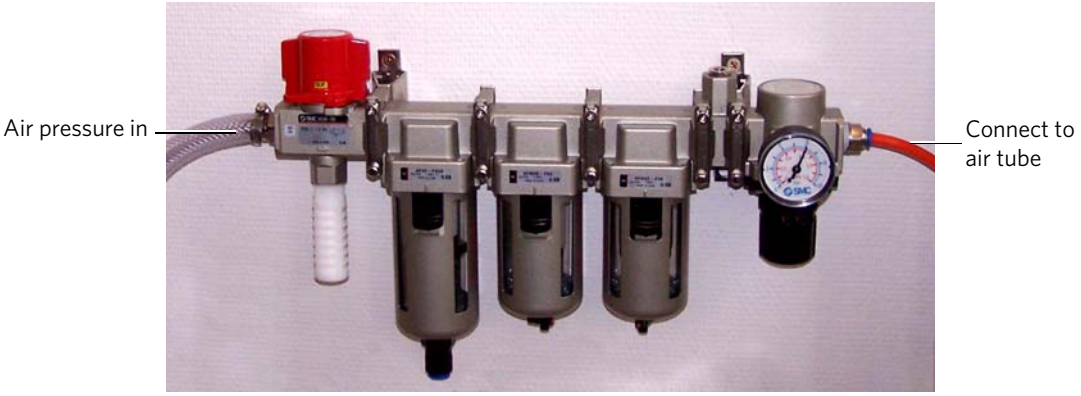


Figure 17: Air pressure regulator connections

4. Connect the air pressure regulator to the air pressure outlet on the wall. See the air compressor specifications in the *Magnus 400 II and Magnus 400 II Quantum Site Preparation Guide* (731-01214A).
5. Set the gauge to 6 ATM (90 psi).

Connecting the Main Power Cable

Before you start this procedure, verify that the doors are open and panels removed. See *Opening Doors and Removing Panels* on page 6.

1. Locate the main power cable (black cable), and pull it out through the cable opening in the trapezoid panel at the lower rear of the platesetter.

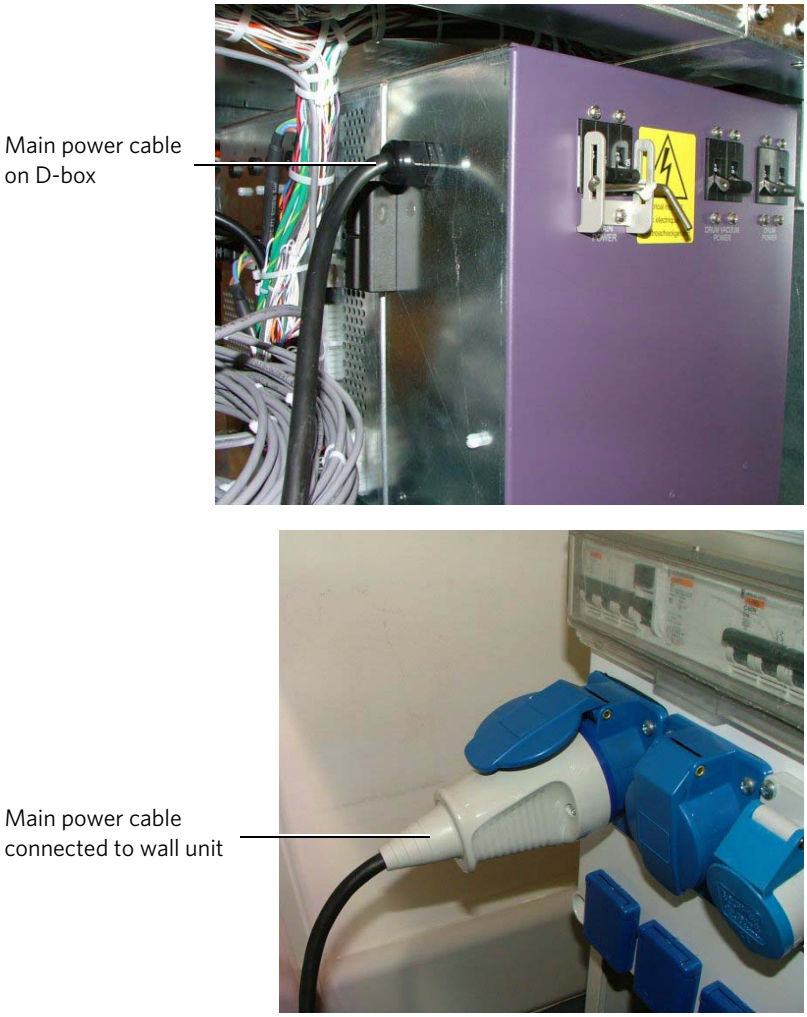


Figure 18: Main power cable

Note: Use a standard plug that is compatible with the geographical region. See the *Magnus 400 II and Magnus 400 II Quantum Site Preparation Guide*.

2. Connect the male 3-pin 6h 2-phase and grounding cable connector to the main power cable.

3. At the rear of the platesetter, remove the safety pin that protects the D-box switches.

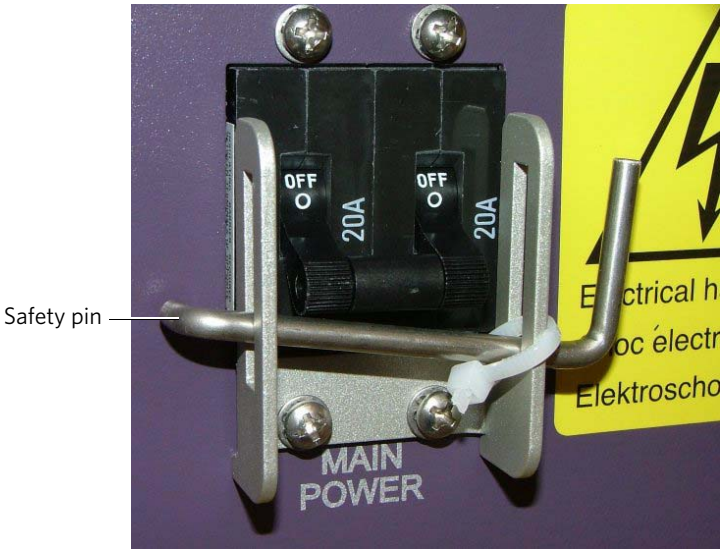


Figure 19: Removing the safety pin from the D-box switches

Connecting the Network Communication Cables

To connect the network communication cables on Magnus 400 II Quantum platesetters with Kodak Prinergy® or Kodak Prinergy Evo™ software:

1. On the platesetter, open the electronics panel.

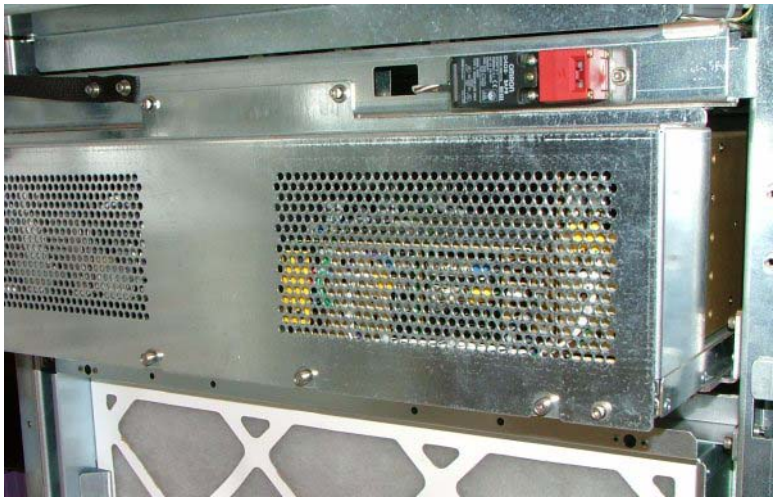


Figure 20: Opening the electronics panel

2. Connect the appropriate SCSI cable to the TMCE board.
   - SCSI-3 cable, 50 ft (part number 16-4527)
   - SCSI-3 cable, 25 ft (part number 16-3503)

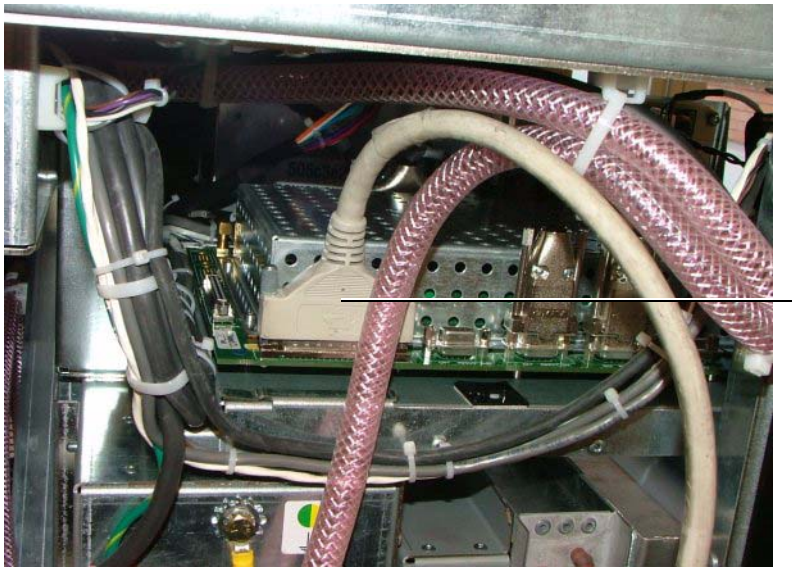


Figure 21: Connecting the SCSI cable to the TMCE board

3. Connect a standard Ethernet J45 cable for direct TCP/IP connection.

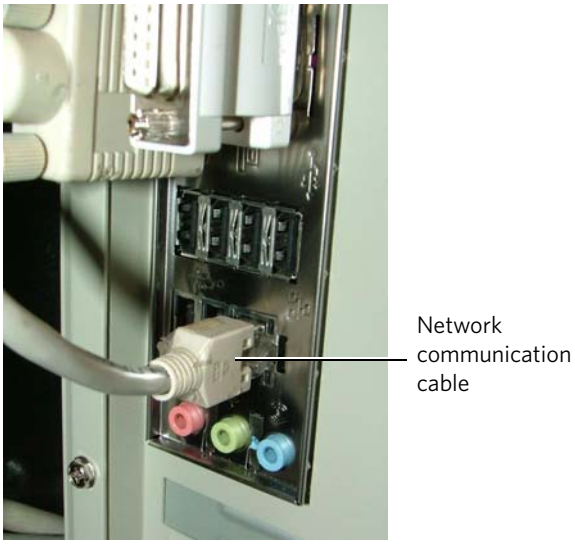


Figure 22: Network cable connection on Magnus 400 II Quantum

To set up the TCP/IP connection:

➢ Connect both the workflow solution workstation and the platesetter to the site's network infrastructure, and then connect the network port in the computer to the communication network switching hub.

Note: Do not to use the point-to-point connection method (connecting the workflow solution workstation directly to the Magnus 400 II Quantum platesetter), because it does not enable remote support.

(Optional) To connect the modem:

➢ Connect the modem cable to the modem connector on the PC.

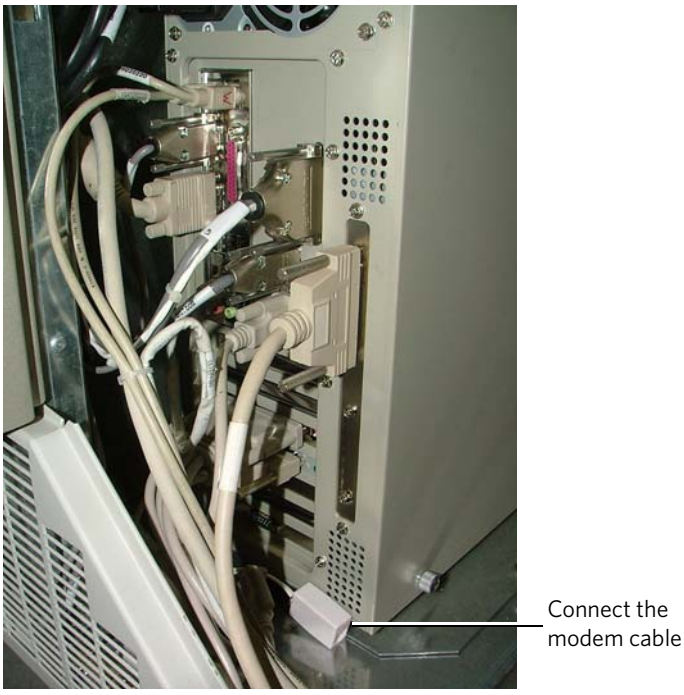


Figure 23: Modem cable connection on the PC

Leveling the Platesetter

Level the platesetter so that it is positioned on a uniform horizontal plane at all four corners, with all four wheels raised above the floor. Levelling helps to ensure smooth plate loading.

1. Place a standard leveling instrument on the main frame side door, and verify that the front and rear of the platesetter are level.
2. If the front and rear are not level, adjust the rear legs. Turn the adjusting nut of one of the rear legs clockwise to increase height, or counterclockwise to reduce height, as required.

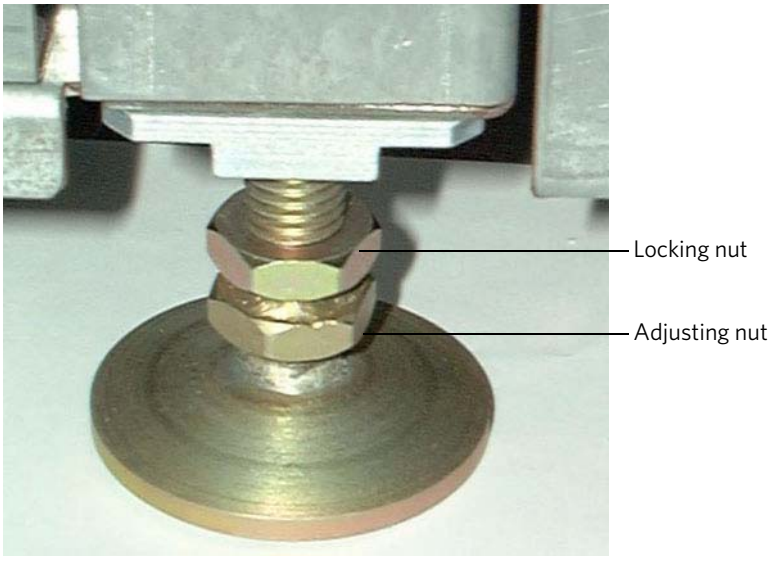


Figure 24: Adjusting leg height

3. After the platesetter is properly aligned, tighten the legs by closing the locking nut on all four legs.

Connecting the Universal Debris Removal Cabinet

1. Position the Universal Debris Removal Cabinet (UDRC) BP as close as possible to the rear of the platesetter.
2. Attach the 1.5-in. vacuum hose from the adaptor to the rear of the UDRC.
3. Connect the UDRC power cable to the power cable outlet at the rear of the UDRC.
4. At the rear of the platesetter, connect the UDRC hose to the platesetter.

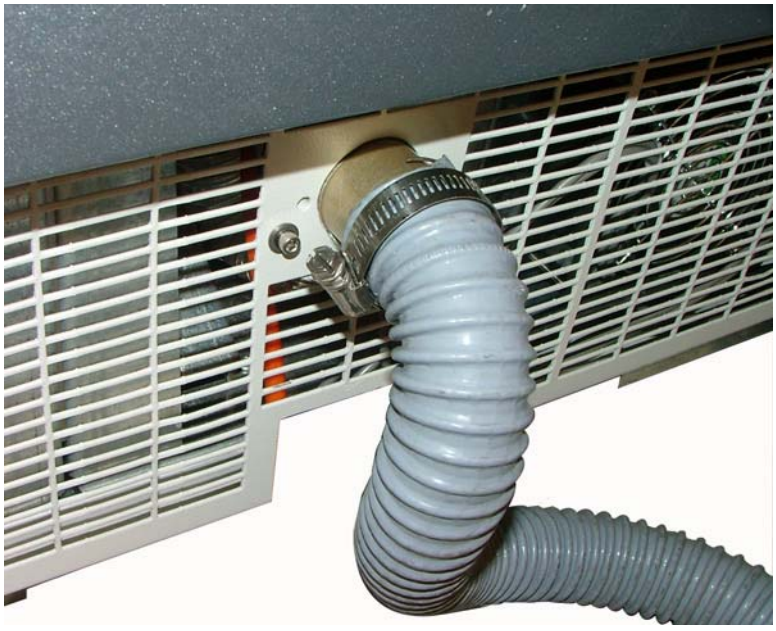


Figure 25: Connecting the UDRC hose to the platesetter

(Optional) Connecting the Plate Conveyor or Punch Conveyor to the Platesetter

To connect the plate conveyor to the platesetter, see Appendix B, *Assembling the Plate Conveyor* on page 35.

To connect the punch conveyor to the platesetter, see the Punch Conveyor Hardware and Software Installation Guide.

Setting Customer Media Definitions

After the platesetter is assembled, you must set the customer media definitions in the software.

1. In the Magnus 400 Controller software, select **Settings > Media Definitions**.
2. In the Media Definitions dialog box, click **New** to clear the media definitions boxes.
3. Set the relevant definitions for the customer's media, and then click **Save**.

Parameter	Setting
Class	Plate
Name	Select the relevant name
Manufacturer	Select the relevant manufacturer
Type	Select the relevant plate type
Height	Select the relevant height
Width	Select the relevant width
Focus Value	In the *Database Parameters* document (653-01177A) included in the installation kit, find the correct focus value according to the media type. If required, calibrate the focus value as described in the Focus Calibration Test procedure in TechPlanet.
Sensitivity	According to media
Res/Int Table	Select the relevant value according to the type of media used.
Res Mtr Table	ResMotor Table

Note: For more information, see the CTP Media Imaging Performance Database document.

Testing and Checklist

This section describes the tests you must perform, and provides a final checklist of procedures to explain to the customer.

Important: After every installation, open the Magnus Output Devices Installation Report Tool and submit the Installation Report. The Installation Report Tool enables you to provide installation feedback, including cutomer details and device details, as well as specific information that is unique to each installation.

Note: Before you begin the tests, attach all translated labels (attached to the platesetter) in the language required.

Checking the Platesetter Function

1. Load and unload several plates sizes that the customer uses, and verify that the process progresses smoothly.
2. Perform laser calibration.
3. Perform the following calibration tests:
   - Focus
   - Intensity
   - Resolution
   - Delay
4. Expose the ITP file and make sure that the image position and quality are satisfactory.
5. Check the punch configuration and make sure that it matches the cutomer's reference plate.

Customer Onsite Training Check List

Explain the following basic operations to the customer, using the Magnus 400 II and Magnus 400 II Quantum Visual Reference Guide and Magnus 400 Help as references where appropriate. See the Magnus 400 II Quantum Installation Test Procedure Checklist.

Before leaving the site, verify that the customer understands and can perform these operations:

- Adhering to safety precautions
- Operating the Magnus 400 Controller software
- Loading and unloading plates
- Exposing and media definition setup
- Performing preventive maintenance (PM)
- Using remote support tools (Files Collector, Backup and Restore, and so on)
- Troubleshooting common customer-level problems

Equipment Supplied by Customer

Verify that the customer has supplied, or will supply, the following equipment:

- Plate measure tool
- Plates
- Desk for monitor
- Humidity and temperature gauges

Appendix A: Packing the Platesetter for Shipment

Packing the Platesetter

At least two people and a forklift are required to pack the platesetter and place it on the shipping pallet. Pack the platesetter as illustrated in Figure 26 on page 31.

The numbers (in parentheses) in the following procedure refer to the item numbers shown in Figure 26.

1. Disconnect all the electrical cables from the platesetter, and remove the skirting boards from the front, rear, and sides.
2. Disassemble the loading tray and brackets.
3. If the forklift cannot be moved to the platesetter location, roll the platesetter to the shipping pallet. To do so, on each leg, turn the nut counterclockwise to its maximum position until the wheels touch the floor, and then roll the platesetter to the shipping pallet.
4. Place the two lower shipping beams [6] on the shipping pallet [7] above the main shock-absorbing beams.
5. Using the forklift, lift the machine onto the shipping beams and align it according to the securing bracket holes.
6. Secure the machine to the shipping pallet using the four brackets, screws, and washers [8].
7. After confirming that the platesetter is positioned and secured properly, cover the platesetter with nylon wrapping.
8. Pack the skirting boards in bubbled nylon and place them behind the platesetter. Secure them with plastic tape.
9. Staple the side wooden struts [5] to the shipping beams [6].
10. Staple the top wooden struts [3] to the side wooden struts [5].
11. Place an outer carton container [2] on the platesetter. Use staples to secure the outer carton to the shipping pallet [7] and side wooden struts.
12. Close the top flaps of the outer carton.
13. Close the outer carton with plastic tape and with two steel bands.

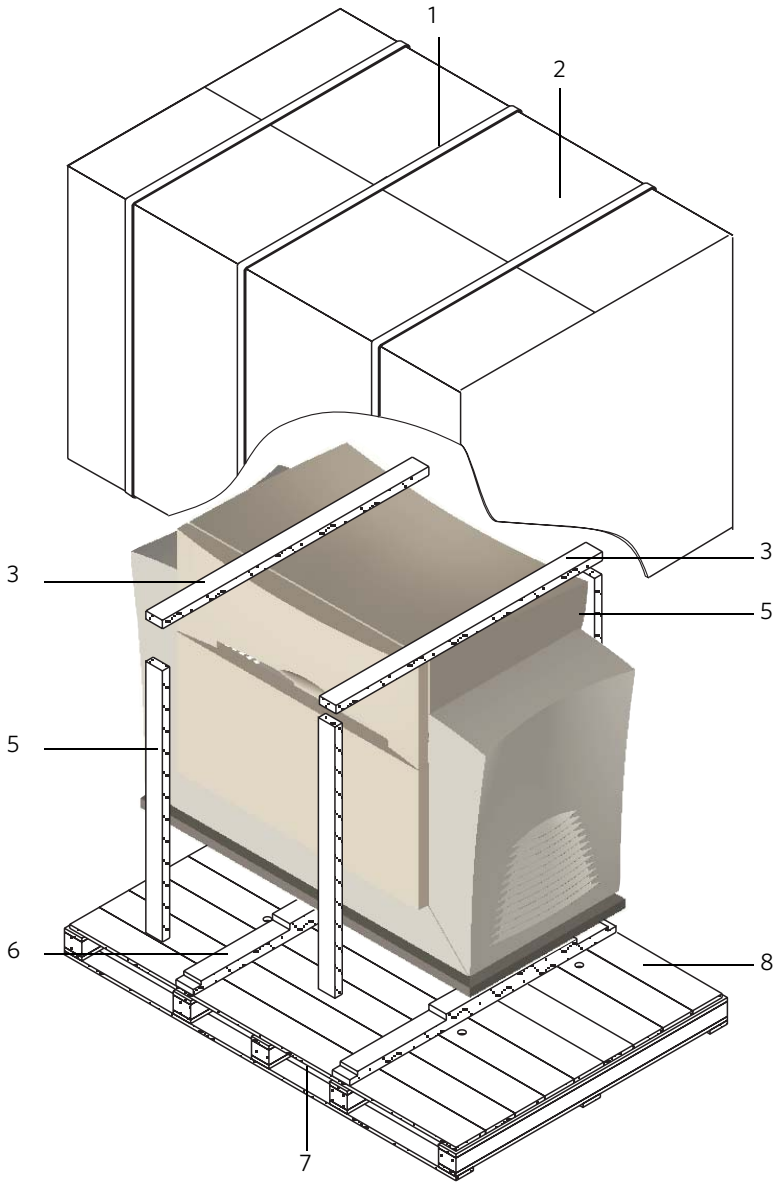


Figure 26: Packing the platesetter for shipment

Appendix B: Assembling the Plate Conveyor

Assembling the Conveyor Legs 34
Assembling the Conveyor 35

The round belt plate conveyor is supplied in a separate package. Two people should unpack and assemble the conveyor.

Assembling the Conveyor Legs

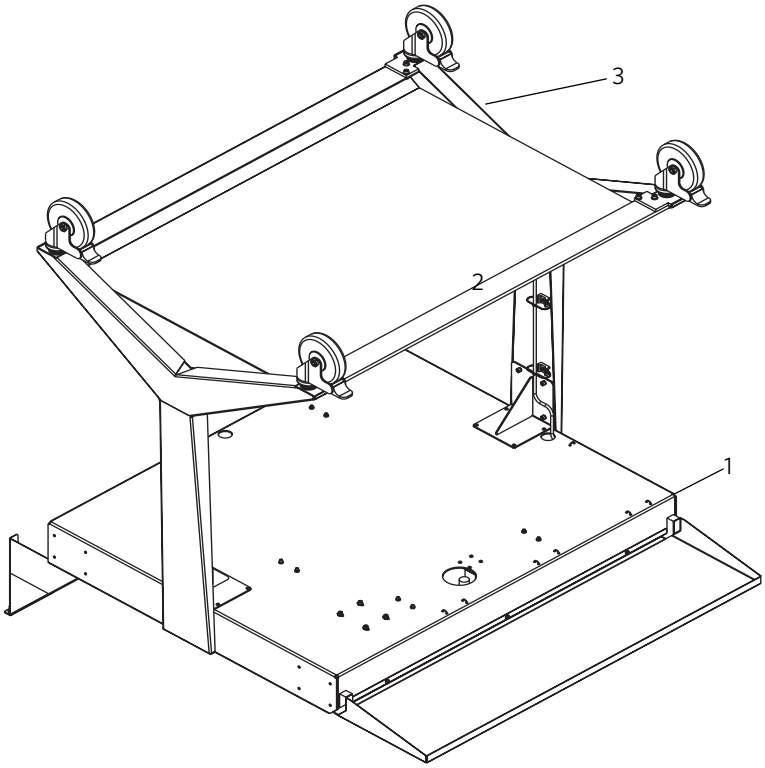


Figure 27: Round belt conveyor assembly (1)

In the following procedure, the numbers in brackets identify the parts shown in Figure 27.

1. For each leg, insert four screws [1]. Use the higher set of holes set for Agfa® processors and the lower set of holes for non-Agfa processors. Do *not* tighten the screws.
2. To secure the bottom tray [2], insert two screws [3] with Loctite® 242 adhesive into each of the four wheels, and then tighten the eight wheel-screws.
3. Tighten the four leg-screws [1].

Assembling the Conveyor

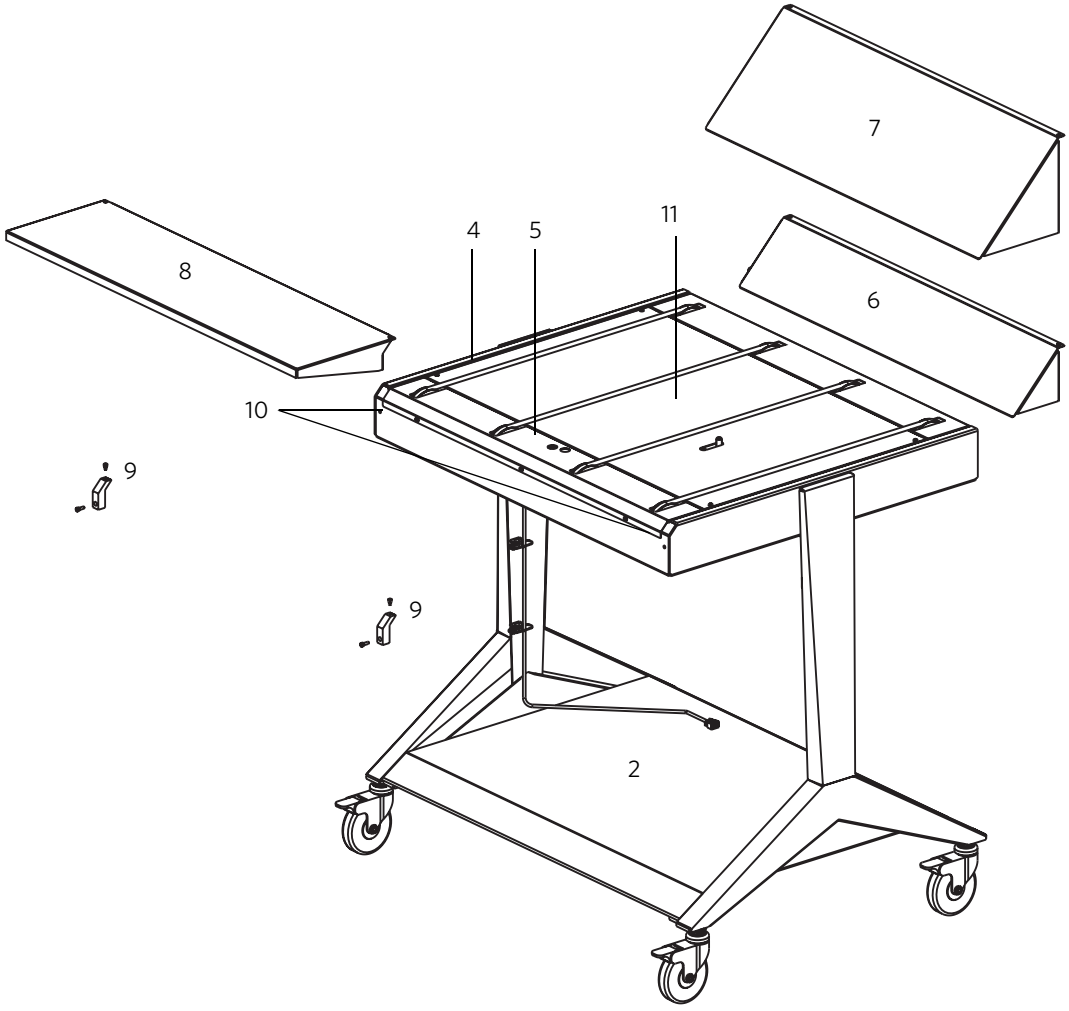


Figure 28: Round belt conveyor assembly (2)

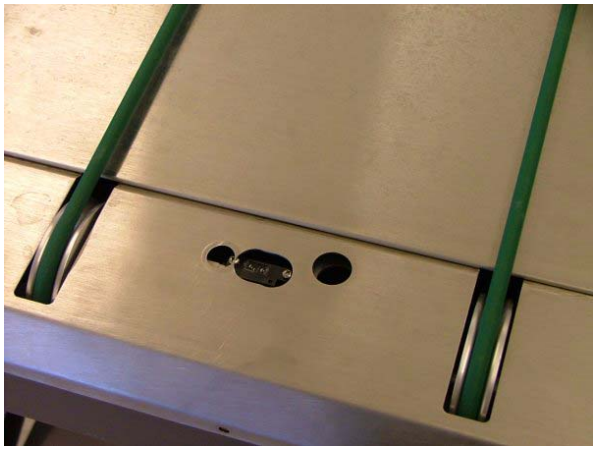
In the following procedure, the numbers in brackets identify the parts shown in Figure 28.

1. Connect the conveyor cable to the platesetter through the hole at the rear trapezoid.
2. Remove the top cover [11].
3. Remove the side cover [5] (the cover with the hole for connecting the processor detector—see step 8).

4. Connect the processor detector to the conveyor, as shown in Figure 29.



Processor detector exposed



Processor detector installed

Figure 29: Processor detector installed on conveyor

5. Route the processor detector cable through the hole located under the detector and secure it with cable ties.
6. Assemble the top and side covers.
7. Attach the plate tray between the platesetter to conveyor. For an Agfa processor, use tray [6]; for all others use tray [7]. Place the top of the tray so that the two screws at the sides of the platesetter fit the two holes of the tray.

8. For a Horsell processor, you need to attach an additional plate tray from conveyor to processor [8]. Before attaching it, connect the bracket [9] to the conveyor at location [10] using two screws. Attach the bracket at both sides. Then attach the plate tray [8] to brackets. Place the top of the tray so that the two screws at the sides of the conveyor fit the two holes of the tray.



Figure 30: Conveyor connected to platesetter

Note: Figure 30 shows the conveyor connected to the platesetter. The additional plate tray connected for the Horsell processor is now shown.

9. At the rear of the platesetter, connect the conveyor cable to the conveyor plug.



Figure 31: Connecting the plate conveyor cable

10. To configure the conveyor in the registry, do the following:
    a. Quit the Magnus 400 Controller software.
    b. In the registry, go to **IO Objects/Local3/Detectors/Plate Out of Conveyor Detector** and change the **Open** value from 0 to **1**.
    c. In the registry, go to **IO Objects/Local3/DC Motors/Unload Conveyor Motor** and change the **Open** value from 0 to **1.**
    d. Restart the Magnus 400 Controller software.