



Site Preparation Guide

English

Lotem 400 / Lotem 400 Quantum Family

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Lotem 400 / Lotem 400 Quantum Family Site Preparation Guide

Introduction

Please take a few moments to read through this document. It provides guidelines for preparing your site for the **Lotem 400 / Lotem 400 Quantum** platesetter installation.

Your Creo service engineer will help you to ensure that your site meets all the requirements. Proper preparation will help to prevent unnecessary problems and delays when installing the device.

The following topics are discussed:

- Device configuration
- Floor space requirements
- Device dimensions
- Weight requirements
- Electrical requirements
- Debris removal system requirements
- Environmental conditions
- Ventilation requirements
- Network/modem requirements
- Processor specifications

With your Creo service engineer, complete the *Site Inspection Checklist* in Appendix B.

Tools Needed

- Air Supply Gauge (92-0373A)—to check the pressure and flow of the site's compressed air supply. See *Air Supply Qualification Procedure* on page 14.
- Floor Level Gauge (92-0373A)—to check the pressure and flow of the sites' compressed air supply. See *Air Supply Qualification Procedure* on page 14.
- Tape measure—15 m (50 ft.)

Antivirus Software



Note: Creo supports and recommends that the customer purchase a copy of the latest version of Symantec Antivirus Corporate Edition software. They should install it on each of their Creo CTP Systems. Creo does not sell Symantec Antivirus software, nor do we install or directly support it. We recommend that the customer purchase the software from a retail vendor convenient to them. We will supply installation instructions to customers who have signed and returned the Antivirus Waiver to Creo. To find a copy of the Antivirus Waiver, the customer should log onto eCentral and select **Self Support > Product Documentation** and type word Antivirus in the search criteria.

See the *Installing Norton Antivirus* document on eCentral for installation details.

Equipment Overview



The device consists of the following standard components:

- Platesetter
- Universal debris removal system¹

1. The debris removal system consists of a vacuum pump and filtration system for removing debris from exposed media. See the *UDRC Site Preparation and Requirements* document (725-00089A).

Options

The Lotem 400 Family includes:

- Lotem 400 platesetter
- Lotem 400 platesetter with (multi-cassette unit) MCU
- Lotem 400 platesetter with processless plates (chemistry free)
- Lotem 400 Xpose platesetter

The Lotem 400 Quantum Family includes:

- Lotem 400 Quantum platesetter
- Lotem 400 Quantum platesetter with MCU

Size and Weight

Table 1 shows the maximum dimensions and weight of the Lotem 400 / Lotem 400 Quantum Family output devices and their components. The measurements are taken facing the Lotem 400 / Lotem 400 Quantum Family output devices, with the panels installed.

For measurements of the crates as shipped, see Table 6 on page 20.

Table 1: Size and weight of Lotem 400 / Lotem 400 Quantum Family platesetter and devices

Device	Width	Length	Height	Weight
Lotem 400 Lotem 400 Quantum platesetter	1750 mm (69 in.)	1450 mm (57 in.) [includes 508 mm (20 in.) loading tray]	1350 mm (53.15 in.)	750 kg (1650 lb.)
MCU for Lotem 400	1220 mm (48 in.)	1600 mm (63 in.)	1350 mm (53.15 in.)	650 kg (1430 lb.)
Loading tray		450 mm (17.72 in.)		
Debris removal cabinet	See the <i>UDRC Site Preparation and Requirements</i> document (725-00089A).			
Workstation	Varies with configuration			

Cables, Connectors, and Receptacles

Tables 2–4 list the supplied and required cables and connectors for the output devices. Table 5 on page 6 lists the power/air connections.



Note: Creo does not supply the connectors.

Table 2: Cables and Interconnects—North America

Cables	Supplied by Creo	Supplied by customer ^a
Output device main power	Yes	
Workstation power	Yes	
Debris removal cabinet power	See the <i>UDRC Site Preparation and Requirements</i> document (725-00089A).	
Telephone line	Modem and serial cable. Modem power supply can be plugged into UPS.	Dedicated telephone line and RJ-11 cable to plug into modem (must be long enough to reach workstation)

- a. The tolerances for input voltages are +6%, –10%. The specification for the frequency is 50/60Hz ±1.5%. Branch circuits should have time delay type circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see *Electrical* on page 10.

Table 3: Cables and Interconnects—Europe, Australia and S.E. Asia

Cables	Supplied by Creo	Supplied by customer ^a
Output device main power	IEC320, type C20 appliance inlet	Dedicated 16A, 200–240 V branch circuit with IEC 309 16 A receptacle
Workstation power	IEC320, type C14 inlet	IEC320, type C13 connector with 8 A cord Dedicated 8 A, 200–240 V branch circuit
Debris removal cabinet power	See the <i>UDRC Site Preparation and Requirements</i> document (725-00089A).	
Telephone line	Serial cable for modem	Modem, dedicated telephone line, and telephone cable long enough to reach workstation. Also requires separate AC power source (UPS provided only with IEC type 320 outlet receptacles).

- a. The tolerances for input voltages are +6%, –10%. The specification for the frequency is 50/60Hz ±1.5%. Branch circuits should have time delay type circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see *Electrical* on page 10.

Table 4: Cables and interconnects—Japan

Cables	Supplied by Creo	Supplied by customer ^a
Output device main power (attached to either the Single Cassette Unit or Multiple Cassette Unit)	IEC320, type C20 appliance inlet 2.5 m (8.2 ft.) power cord with IEC320 type C19 connector at equipment end and L6-20P connector at other end L6-20R receptacle	Dedicated 20 A, 200 V branch circuit with L6-20R receptacle
Workstation power	2.5 m (8.2 ft.) power cable with 5-15P connector	5-15R receptacle and dedicated 100V, 15A branch circuit
Debris removal cabinet power	See the <i>UDRC Site Preparation and Requirements</i> document (725-00089A).	
Telephone line	Serial cable for modem.	Modem, dedicated telephone line, and telephone cable long enough to reach workstation. Also requires separate AC power source (UPS provided only with 5-15R receptacles).

- a. The tolerances for input voltages are +6%, -10%. The specification for the frequency is 50/60Hz \pm 1.5%. Branch circuits should have time delay type circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see *Electrical* on page 10.

Table 5: Air and network connections

Other connections	Supplied by Creo	Supplied by customer ^a
Network connection (for connecting to the workflow)	Ethernet: 100 Base-T (RJ-45)	Network connection and cable long enough to reach workstation.
	FDDI: Duplex SC	
Shop air supply (dedicated branch recommended—see <i>Air Supply</i> on page 13)	0.5 in. national pipe thread (NPT) female fitting on the device	A flexible air line, 0.75 in. ID min., with 0.5 in. NPT fitting at the end for connecting to the Lotem 400 / Lotem 400 Quantum Family. The air line <i>must</i> be capable of delivering 20 SCFM @ 90 psi. Keep the air line as short as possible and free from restrictions. If the air line is longer than 6.1 m (20 ft.), use a larger ID airline.

- a. For the location of the air supply, see *Footprint and Working Area* on page 7. For further details, see *Air Supply* on page 13 and *Network* on page 17.

Site Requirements

Footprint and Working Area

Ask your service representative to see TechPlanet for the recommended work area and dimensions for your specific Lotem 400 / Lotem 400 Quantum configuration.

Allow a recommended minimum 1200 mm (47.24 in.) at the front of device, and 1000 mm (39.37 in.) at the sides of device for operator access:

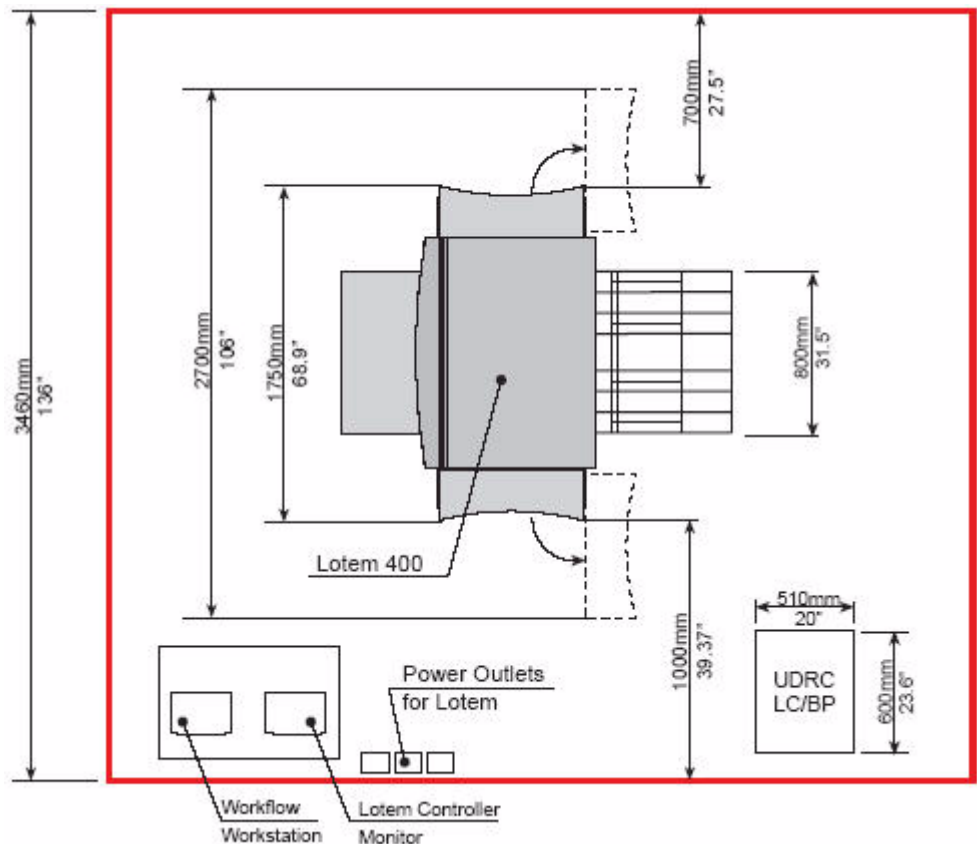


Figure 1: Footprint of Lotem 400/Lotem 400 Quantum with slider kit

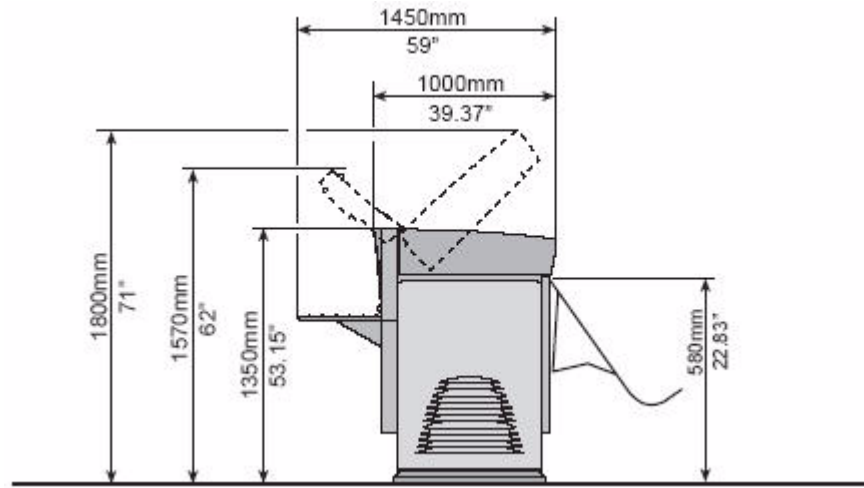


Figure 2: Footprint of Lotem 400/Lotem 400 Quantum platesetter

Provide an area close to the device for storing media (for immediate use), disks, paperwork, and so on.

Debris Removal Cabinet

Certain printing media (plates or film) may release airborne emissions during the imaging process. Creo output devices are supplied with—or may be able to be upgraded to—a debris removal system containing a collection nozzle located on the head and a filtration unit, such as the Universal Debris Removal Cabinet (UDRC).



WARNING: Emissions, either particulate or gaseous, that are not properly filtered can endanger your health. For a list of airborne emissions that pertain to the media you are using, see the media MSDS or contact the media manufacturer or distributor directly.

The debris removal system is designed to extract and filter the airborne emissions, thus contributing to a healthier working environment, consistent image quality, and general reliability and cleanliness of the imaging device. Some types of media typically release both particulate and gaseous emissions. Other types of media, under certain imaging conditions, may release largely particulate emissions.



WARNING: Filtration of airborne emissions is not 100% efficient and must be complemented by adequate outdoor air room ventilation. Failure to ensure adequate ventilation may result in exposure to airborne emissions in excess of applicable regulatory limits and in possible discomfort, illness, injury, and/or disability.

The UDRC configuration may include various filter options tailored to suit specific qualified media types. The configuration for a particular customer site is typically specified in a Creo proposal, sales agreement, order form, product specification, or equivalent document.

The cabinet must be located within the cable and hose limitations.

For more information on the debris removal cabinet, please see the *UDRC Site Preparation and Requirements* document (725-00089A).

Environmental Conditions

Install the device in a clean prepress area wherever possible. It is not advisable to install the device in a pressroom environment.

The operating environment for the Lotem 400 / Lotem 400 Quantum Family devices must be:

Temperature 20°—30°C (68°—86°F)

Humidity 55%—± 5% RH, non-condensing



Note: Some media types may restrict the operating environment of the Lotem 400 / Lotem 400 Quantum Family devices. Consult the media manufacturer for their recommended temperature and humidity ranges for plate operation and storage.

For the UDRC operating environment, please see the *UDRC Site Preparation and Requirements* document (725-00089A).

Floors

The floor must be level and not subject to high levels of vibration. If the customer site is close to heavy car or rail traffic routes, or is near an industrial site, the device may be exposed to high levels of vibration through the floor.

Electrical

The dedicated branch circuit for the following components must be supplied from the same AC supply panel to ensure that both branch circuits are at the same ground potential:

- Output device main power
- Workstation main power

Figure 3 shows the configuration of the receptacles used by the output devices and peripheral equipment.

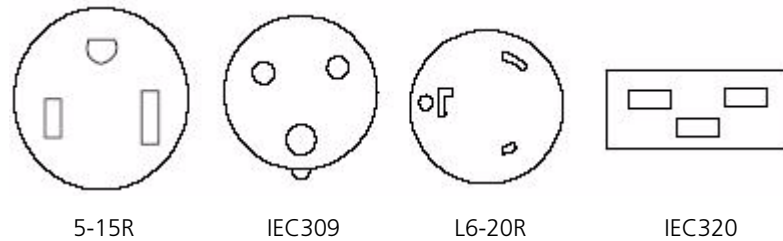


Figure 3: Receptacles used on output devices

Power Quality

Before installing the device, a power monitor should be placed at the site to measure power quality for one week¹. If the power quality at the customer site is outside Creo specifications (+6%/–10%), the customer should purchase a line conditioner, 3000 VA, for the Lotem 400 / Lotem 400 Quantum Family circuit from a local supplier.

If there are concerns about power quality (blackouts or brownouts) at the customer site, an online uninterruptible power supply (UPS) device can be ordered directly from a local supplier. A UPS is designed to allow the correct and complete shutdown of the device, as opposed to a line conditioner that is designed to allow the device to function for extended periods of time where the power conditions may be outside of the Lotem 400 / Lotem 400 Quantum specifications.

UPS specifications are available from the supplier.

Special Precautions

The plug(s) on the power cord(s) of the workstation are intended for each separate device. Therefore, the branch circuit receptacle(s) must be installed near the workstation and be easily accessible.

1. Creo America has a contract with Re Monitoring Services in Manchester, NH to provide power and environmental site surveys for the NAFTA region. The monitoring service includes voltage, current, temperature, humidity, dust and air pressure. Rx Monitoring Services will provide the equipment to be installed at the customer site for a maximum of 10 days. They will then monitor it and send a report via e-mail. Outside North America, contact your local product support specialist.

Heat Output

The nominal heat output of the output device itself is 22,250-26,250 BTU/hr.

For heat output of the UDRC, please see the *UDRC Site Preparation and Requirements* document (725-00089A).

Power Line Voltage/Frequency

Line voltage at the customer site must remain within +6%/–10% of the Lotem 400 / Lotem 400 Quantum Family output devices rated voltage of 200 V–240 V for

110 V countries, or between 180V and 254 V for 220 V countries.

The frequency is 50/60 Hz \pm 1.5%.

The electrician at the customer site should install the correct outlet to provide power to the device. The device must be powered from a different line than the workstation. Tolerances for the specified input voltages require balanced power inputs (L1–G=L2–G, or L1G=L1–N).

Power connectors must be of the locking type in North America and Industrial type B in Europe, due to the high leakage current of the equipment. Frequency is 50/60Hz \pm 1.5%. See “*Erratic performance of platesetter - Uninterruptable power supply (UPS)/power conditioner requirement*” document on eCentral.

Power Line Disturbances

The reliable operation of computer systems depends on the availability of relatively noise-free AC power. Lightning, line faults, or power switching commonly found in machinery, office equipment, and factory environments, can generate line transients that far exceed the peak value of the applied voltage. If not attenuated, these microsecond pulses can disrupt system operation. The power line to the machine should be run away from electrically noisy power cables. If power line disturbances are affecting the operation of the machine, the use of a power stabilizer is highly recommended.

Dips in power should not exceed 30% of nominal voltage, having maximal duration of 10 ms. Fast transient disturbances on the power line should not exceed 1.0 kV.

Grounding

At 60 Hz sites, 208 Vac (between 2 phases of 120 Vac each).

At 50 Hz sites, 380 Vac grounds.

Grounding requirements for platesetter – and all equipment communicating with it – should be observed to ensure trouble-free operation.

Grounding requires the following:

- Grounding wires that are insulated and at least equal in size to the phase conductors.
- Ground impedance less than 2 Ohms.
- A single point and dedicated ground.
- Each system load (such as platesetter, host) is fed through an isolated ground outlet and has a separate ground, as well as neutral and phase line of equal size wire.



Note: Chained neutrals and grounds are not permitted

Air Supply

The Lotem 400 / Lotem 400 Quantum output device requires a clean, dry, *oil-free, dust-free, and moisture-free* air supply at 7 bar (100 psi), of shop air according to the table that follows:

Configuration	Average air consumption*	Compressor air supply*
Lotem 400	10 SLPM (0.35 SCFM)	70 SLPM (2.47 SCFM)
Lotem 400 with MCU	90 SLPM (3.18 SCFM)	170 SLPM (6.0 SCFM)

*SLPM measured at 7 bar, SCFM measured at 100 psi

A standard 1/4" BSP port female outlet connector is required. It should be mounted on the wall up to 5 m from the device.

The air supply should conform to ISO class 4.

- Maximum particle size 15 μ (0.006 in.)
- Concentration of solid contaminants: 8 mg/m³ (0.000216 oz./yd.³)
- Maximum pressure dew point 3°C @ 8 bar [37.4°F @120 psi]
- Maximum oil content 5 mg/m³ (0.000135 oz./yd.³)



Note: Do not add lubricant.

Note: The temperature of the airline going from the drying device to the machine must be kept above 3° C.

Examples of typical compressed air systems that you may use:

For Lotem 400

Manufacturer	Kaeser	Atlas Copco
Compressor type	Piston	Piston
Compressor Model	Premium-Silant 130/10	LFx-1.0-T20
Air receiver (liter)	10	50
Dryer (230 V-AC)	TAH-4	FX1
Automatic Water Drainer	according to air receiver	according to air receiver

For Lotem 400 with MCU

Manufacturer	Kaeser	Atlas Copco
Compressor type	Screw	Screw
Compressor Model	SX-3	GX2-10 (50 Hz)
Air receiver (liter)	250 (or 280)	250
Dryer (230 V-AC)	TA-5	FX1
Automatic Water Drainer	ECO-21-PLUS	WD80

Air Supply Qualification Procedure

This procedure helps determine whether the customer's air supply is adequate for satisfactorily running the output device. It requires a measurement tool (92-0373A) made specifically to test the output device's air supply.

1. Mount the device to the end of the air hose or pipe that would normally be connected to the output device. A few extra adapter fittings and a roll of Teflon® tape have been included for this purpose.
2. Turn on the valve on the tool.
3. Record the results in Table on page 31.
4. Repeat this test two more times during the day at well-spaced intervals to confirm that the air supply is not being compromised by other machines, and so on.

The gauge must never fall below 90 psi at any time during the tests. If the air supply fails to maintain this pressure at a minimum, it is below specifications for the output device.

Cleanliness

Filters in the air conditioning system should be able to block 60% of all 10 micron dust particles.

Clean air is vital as an unclean environment can cause hotspots on your plates as well as machine malfunction.

According to IEC-721-3-3,7

Name: Mechanically active substances

Class: 3S2, 7S1

Severity: Sand 30 mg/m³

- Dust (suspension) 0.2 mg/m³
- Dust (sedimentation) 1.5 mg / (m² X h)

Static Electricity

- Humidity must be 55% ±5% to reduce the static electricity with the plates. See *Humidity* below.
- Use of floor carpeting is not recommended in the Lotem 400 / Lotem 400 Quantum output device area. If carpets are used, only anti-static carpets should be installed at the site. Carpet thickness should be up to 0.5 inch (12 mm).

Humidity

The output device requires relative humidity of 55% \pm 5%.
An industrial steam humidifier can be used to meet specified humidity.

UV Light

Some plates, such as Kodak DITP, are sensitive to UV light. When such plates are used or when the Lotem 400 / Lotem 400 Quantum output device is directly connected to a plate stacker, you need an appropriate safe light.

Air Conditioning

Sufficient air conditioning should be present to provide heat dissipation for the output device, **plus** all additional equipment residing in the system room, and an additional minimum 25% safety margin. Ensure that the ventilation system can circulate the entire volume of air in the room 16 times per hour.

The output device requires a constant temperature of 23 \times C \pm 2 \times C (73.5 \times F \pm 3 \times F).

The calculated air conditioning requirements for the output device (in BTU/hour) are shown in below table.

Platesetter	12,000-16,000 BTU/hour
Host	2,500 BTU/hour
Debris removal system	4,800 BTU/hour
Other misc.	1,500 BTU/hour
Safety margin (25% of above)	6,250 BTU/hour
Total	27,050-31,050 BTU/hour

Please note the following guidelines:

- The system room should ideally contain both a thermometer and a hygrometer, permanently mounted in a central location.
- In addition, it is highly recommended that you have a humidity and temperature recorder.

Ventilation

No filtration can be 100% efficient (for example, carbon monoxide is not captured by Creo filters). That is why outdoor air ventilation is required with the debris removal system. Air exhaust vents (where air is drawn out of the room) should be located as close to the debris removal cabinet and output device as possible.

The Lotem 400 / Lotem 400 Quantum Family output devices require a minimum of 1.1 m³/min (40 cfm)¹ outdoor air ventilation. This air ventilation prevents the accumulation of airborne emissions that may be released when certain media are imaged.²

Outdoor air ventilation must not be confused with air circulation in the room that results from temperature control or humidity control. Outdoor air ventilation may be roughly estimated to be 10% to 30% of the air circulation rate in the room. To achieve adequate air mixing, Creo recommends at least 3 ACH (air changes per hour).

These recommendations apply to a single device with no other equipment in the room. Other imaging equipment, processors, ovens, HVAC systems, and so on, may contribute additional emissions to the work environment, increasing the amount of outdoor air ventilation required.

The customer is responsible for assessing the level of airborne emissions in the room to ensure that, upon installation of the Lotem 400 / Lotem 400 Quantum Family, the requirements of local, state, provincial, regional, and national regulations for occupational health and safety are satisfied. In the event of any uncertainty about the levels of airborne emissions, the customer should arrange for an indoor air quality assessment to be conducted by a qualified industrial hygienist.

1. This is a default value. Certain media may require higher ventilation; to check the recommended value for specific media, please see CTP Media Imaging Performance Database (available from your Creo representative), where it will be specified if different from default.

2. Information on the hazardous compounds released by a particular media during imaging should be available from the media manufacturer's Material Safety Data Sheet or equivalent document.

Telephone Link

The customer must maintain a “direct dial” analog telephone line that is dedicated to the workstation (no other devices sharing this line) for use with Creo dial-in support. See Tables 2–4 for the required phone jack connector. The customer should also provide a separate voice phone line to the output device location for communication with Creo service representatives during dial-in support.



Note: Remote dial-in support to the output device is dependent upon a dedicated, direct dial-in telephone line. Creo can only offer remote support to machines that do not share telephone lines with other equipment.

Network

A total of four TCP/IP addresses must be provided for each Lotem 400 / Lotem 400 Quantum device:

- One Local Area Network (LAN) connection to the output device for supplying files from the workstation.
- Three consecutive static TCP/IP addresses for the output device to workstation PC connection.
 - One for the workstation end of the PPP connection.
 - One for the MCE (master control electronics) end of the PPP connection.
 - One for the RAS (remote access services) connection.



Important: The customer must ensure that these three addresses are removed from the available addresses in the DHCP pool.

Media and Processor(s)

The processor specifications may vary and depend on the specific processor used at the customer’s site. The processor vendor should provide the relevant information.

Plates

- The Lotem 400 / Lotem 400 Quantum output devices support thermal plates, that are sensitive to IR 830 nm wavelength.
- Storage room for plates; please consult the plate vendor for the recommended humidity and temperature ranges in which the plates should be stored.
- Consult your vendor regarding a plate densitometer that is adequate for thermal media.

Plate Registration

For optimal registration, the reference points used by the output device should also be used by plate bending and punching equipment. See Figure 4 for the plate registration points.

The customer is responsible for satisfying the requirements for achieving optimal plate registration on press.

For further assistance with specifying punches and benders to be used with the Lotem 400 / Lotem 400 Quantum Family output device, contact a Creo customer service representative.

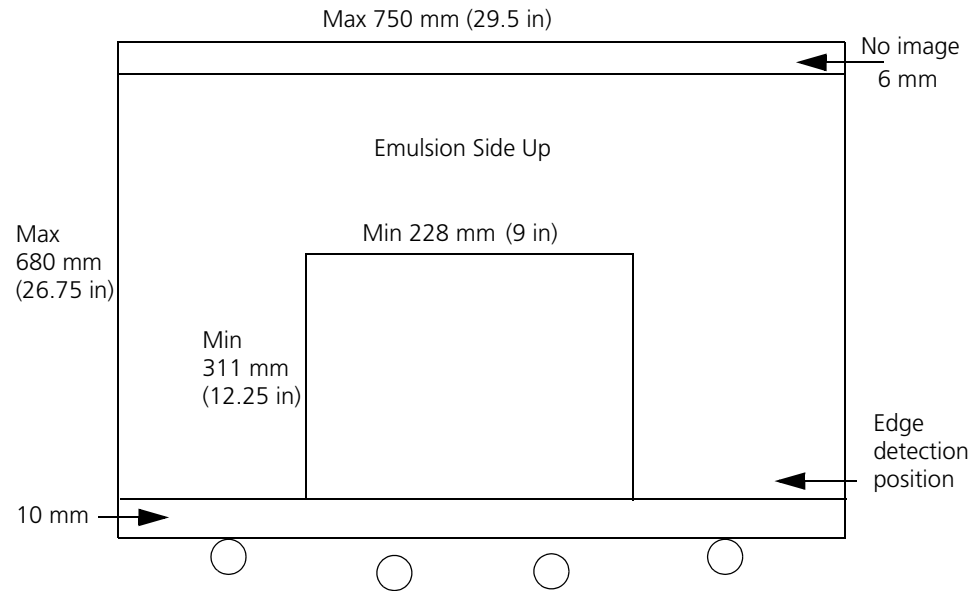


Figure 4: Plate registration points

Shipment and Delivery

Customer Responsibilities

It is the customer's responsibility to provide Creo with delivery instructions. The customer is responsible for transporting the shipping crates to the installation location and unloading them, however, the customer must not unpack the shipping crates. Creo recommends that the customer use professional riggers to unload the crates. Dock level is required (a vertical distance from ground to dock of 1.2- m (4 ft.)), and the ability to handle a 15.9-m (53 ft.) trailer.

Creo engineers will unpack the shipping crates and install the device.

Forklift

The customer must provide a forklift or crane with a minimum 1,365kg (3,000 lb) capacity for unloading the equipment. The width of the forks must not exceed 15cm (6 in.) and the span should be 51cm (20 in.).

Doors and Hallways

The customer must provide free access through doors and hallways from the entrance to the device location so that the whole pallets can be transported to the installation location. Creo recommends that the customer furnish a drawing of the route. See *Shipping Crates* for maximum crate dimensions.



Note: The service engineer must walk the entire route from the loading dock to the installation area. Measure all doorways, openings and aisles to ensure that there is adequate space to move all of the components safely.

Shipping Crates

The output device is normally shipped in 1–3 crates, depending on the options ordered. Table 6 lists the individual dimensions (L x W x H) and weights of the crates.

Table 6: Dimensions and weights of crates

Crate Contents	Length	Width	Height	Weight
Lotem 400 / Lotem 400 Quantum Family platesetters	2065 mm (81.3 in.)	1145 mm (45.08 in.)	1600 mm (63 in.)	750 kg (1650 lb.)
MCU	1830 mm (72.05 in)	1400 mm (55.12 in)	1470 mm (57.87 in)	650 kg (1430 lb.)
Workstation	Varies with configuration			
Debris removal cabinet	See the <i>UDRC Site Preparation and Requirements</i> document (725-00089A).			



Notice

The imaging of some media may result in airborne emissions. This notice is intended to provide general information relating to these emissions only. For information specific to particular media, please see the media manufacturer's MSDS or other documentation.

The by-products of the imaging of printing media may include one or more of: aldehydes (formaldehyde, acetaldehyde); oxides (nitrogen dioxide, nitric oxide, carbon monoxide); volatile organic compounds and olefins (benzene, 1,3-butadiene); other gaseous compounds (hydrogen cyanide, and so on); and particulate matter (dust). This list is not comprehensive, and other compounds may be present in the emissions, depending on particular media.

To help prevent contamination and to improve reliability of imaging, the Creo output device may include a debris removal system containing a filtration unit, either internal or external (for example, a universal debris removal cabinet), corresponding to qualified media used at a particular site. Depending on the configuration of the filtration unit, the unit may trap dust only (for example, UDRC-BP), or it may trap dust and a number of gaseous by-products of the imaging process (for example, UDRC-LC). It is critical to change the filters in the filtration unit on a regular basis.

Not all emissions can be efficiently captured by filtration. Sufficient outdoor air ventilation must be provided in rooms where Creo output devices and filtration units are located. The requirements to ventilation rate are contained in either the output device *Site Preparations and Requirements* document or another applicable document.

Creo cannot assure occupational safety under all operational conditions because of factors that are outside the control or knowledge of Creo. These factors include, but are not limited to:

- Inadequate air ventilation or poor air mixing in the imaging room, which may cause higher than expected emissions concentrations in all or parts of the room
- Imaging of media that were not qualified or pre-approved by Creo; in particular, media not qualified for use with a debris removal system or a filtration unit specified in the Creo Sales Agreement, Customer Agreement, Order Form, Service Agreement, Output Device Configuration, or similar applicable document
- Changes to the qualified printing media formulation or manufacturing process made by the media manufacturer after qualification, resulting in emissions changes (this may cause different or greater emissions than expected)
- Incorrect or incomplete specification of potential emissions to Creo by the media manufacturer, which may cause different or greater emissions than expected
- Combined action of airborne emissions from multiple compounds, which may—through cumulative or synergistic effects—cause greater than expected effects on human health
- Airborne emissions from other sources combining with the imaging system's emissions to exceed occupational health regulations or having cumulative effects on human health greater than those expected for individual emissions
- Variation in individual sensitivity to airborne emissions that may cause greater effects in susceptible individuals
- Tampering with, misuse of, or incorrect maintenance of imaging equipment or emissions safety systems, which may cause additional emissions to occur
- Non-compliance with instructions in user guides, warning labels, site preparation, or other Creo documents, which may cause excessive emissions levels
- Changes in occupational health regulations or industrial hygiene practices that may result in a system that is considered safe upon original installation, but is found to be unsafe at a later date.

Because of variables such as those listed above, many of which are in the control of the end user or the media manufacturers, Creo cannot warrant that, under all imaging system installations and operating conditions, including the use of a filtration unit, and with all media types, media will not release emissions while being imaged that an operator or other persons may find objectionable or may claim to be injurious. CREO'S ONLY WARRANTY AND LIABILITY, IF ANY, SHALL BE AS PROVIDED UNDER ITS STANDARD TERMS OF SALE OR CUSTOMER AGREEMENT, AS APPLICABLE. Neither this notice nor the *Site Preparations and Requirements* document or other similar document is a promise or guarantee of a particular level of performance, and neither this notice nor the *Site Preparations and Requirements* document or other similar document is a warranty of any kind whatsoever. It is the end user's responsibility to ensure continuing compliance with all Occupational Health and Safety regulations and guidelines in its work environment.



Site Inspection Checklist

Full completion of this checklist will greatly assist in building, delivering, and installing the Lotem 400/ Lotem 400 Quantum and all its accessories.

Site Information

Company name: _____

Site address:

Shipping address:

Contact Information

Contact name: _____

Position: _____

Telephone/fax: _____

E-mail: _____

Prepress manager: _____

Maintenance manager: _____

Network manager: _____



Note: All operators must be capable of running a personal computer with a Microsoft® Windows® operating system. If there are more than four operators to be trained, an extra day will be required after the installation.

Machine Usage

Number of shifts per day: _____
 Shift 1 hours: _____
 Shift 2 hours: _____
 Shift 3 hours: _____
 Shift 4 hours: _____

Media Supported

List all plate types and sizes to be used for each device.

Measurements are in:

mm in.

Media type ^{a, b}	Plate size	Average # of plates per day	Average length of press run	Type of work (4-color; spot color; halftones; Staccato [®] ; text only)

- a. Creo-approved media only. Imaging speed can be affected if media sensitivity or processing is inconsistent with Creo’s qualification testing. See your Creo representative for specific media information.
- b. Some plates may restrict the operating environment of the system. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operation and storage.

Is a plate punch to be used?

Yes No

Punch name and model: _____
 Installation date: _____

Comments on punch condition:

Is a plate bender to be used?

Yes No

Plate bender name
and model: _____

Are the registration points of the plate bender and punch the same as those of the device?

Yes No

Comments:

Press(es) Supported

Press name and
model: _____

Processor Supported

Processor name
and model: _____

Delivery date: _____

Has the customer met the power and plumbing requirements for the processor?

Yes No

Comments:

Other Creo Equipment On Site

Are any other Creo products already installed?

Yes No

Comments:

Will Creo be installing other new equipment during the installation of the Lotem 400/ Lotem 400 Quantum?

Yes No

If yes, what will be installed?	When?	Who at Creo is doing the install?

Configuration

Which autoloader options were ordered?

Single-cassette unit Multiple-cassette unit

Extra cassettes ordered? Yes No
 (SCU only)

If yes, how many? _____

Cassette will be docked on the Left Right

Site Requirements



Note: Install the device in a clean prepress area.

1. Is there sufficient area for the device? Measure the available space at the site location.

Yes No

Comments:

2. Is the working area free from support beams or other obstacles?

Yes No

Comments:

3. Is the customer aware that they are responsible for transport of shipping crates from their shipping dock to the installation area?

Yes No

4. Does the forklift to be used meet requirements? (See *Forklift* on page 19.)

Yes No

5. Do the doors and hallways between the shipping dock and the installation have sufficient area to allow passage of the shipping crates? (See *Doors and Hallways* on page 19.)

Yes No

Comments:

6. Can the receiving area accommodate a typical air ride truck—that is, does it have dock level? (See *Shipment and Delivery* on page 19.)

Yes No

Comments:

7. Will the room's temperature control system be able to handle the heat load generated by the device and the processor line? (See *Heat Output* on page 11.)

Yes No

Comments:

8. Will the room's humidity control system be able to handle the moisture load generated by the processor line?

Yes No

Comments:

9. Is the installation area flat to the required specification? (See *Floors* on page 9.)

Yes No

Comments:

10. Does the floor meet the maximum peak loading specification? (See *Floors* on page 9.)

Yes No

Comments:

11. What are the AC mains voltages?

AC mains voltage for workstation: _____

AC mains voltage for device: _____

12. Is power conditioning required?

Yes No

If yes, has a line conditioner been ordered?

Yes No

13. Is UPS required?

Yes No

If yes, has the UPS been ordered?

Yes No

14. Is a 20 A service (16 A in Europe) with a slow-blow fuse or breaker installed, and a dedicated ground for the device?

Yes No

Comments:

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15. Is the AC service for the workstation installed and originating from the same supply panel as the device AC service?

Yes No

Comments:

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16. Does the air supply flow (tested using air supply gauge 92-0373A) meet specifications? (See the *Air Supply Qualification Procedure* on page 14.)

Yes No

Record the test results in the following table.

Air supply qualification test results

Part number of measurement tool: _____

First Test		Second Test		Third Test	
Time on	Pressure	Time on	Pressure	Time on	Pressure
10 Sec	_____	10 Sec	_____	10 Sec	_____
20 Sec	_____	20 Sec	_____	20 Sec	_____
30 Sec	_____	30 Sec	_____	30 Sec	_____
40 Sec	_____	40 Sec	_____	40 Sec	_____
50 Sec	_____	50 Sec	_____	50 Sec	_____
60 Sec	_____	60 Sec	_____	60 Sec	_____

17. Is the air supply filtered and dried as per specification? (See *Air Supply* on page 13.).

Yes No Prefilter ordered

Comments:

18. Are the voice and data telephone lines installed?

Yes No Modem number: _____

Comments:

19. What type of network connection is used?

Follow Up

Is follow-up required?

No The location described in this document meets all criteria for a timely and successful installation of the Lotem 400 / Lotem 400 Quantum.

Yes Some follow-up is required to ensure that the site requirements are met **prior** to the installation of the device.

The outstanding items from the Site Requirements list are:

Name of customer contact: _____

Telephone/fax: _____

E-mail: _____

Date of next follow-up contact: _____

Site Inspection Completed

The presite inspection was performed on _____ by a representative of Creo and witnessed by at least one representative of the customer.

Creo representative: _____

Signature: _____

The Customer understands and hereby agrees to the requirements outlined in the *Lotem 400 / Lotem 400 Quantum Family Site Preparation Guide*, including any appendix attached thereto, as acknowledged by the Customer's signature herein or, alternatively, by the customer's signature on a Creo Sales Agreement, Customer Agreement, Service Agreement, Order Form, or similar applicable document.

Customer representative: _____

Signature: _____

