Site Preparation Guidelines

English

Lotem 400 Family / Lotem 400 Quantum Family

707-00144A-EN

www.creo.com

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RE37,376	5,325,217	5,532,728	5,742,743	5,996,499	6,158,345	6,353,216
4,558,302	5,339,176	5,561,691	5,764,374	5,998,067	6,159,659	6,366,339
4,743,091	5,343,059	5,568,595	5,764,381	6,003,442	6,164,637	6,371,026
4,992,864	5,355,446	5,576,754	5,771,794	6,014,471	6,180,325	6,377,739
5,049,901	5,359,451	5,579,115	5,785,309	6,016,752	6,181,362	6,387,597
5,079,721	5,359,458	5,592,309	5,813,346	6,031,932	6,181,439	6,396,422
5,103,407	5,367,360	5,594,556	5,818,498	6,043,865	6,186,068	6,396,618
5,111,308	5,384,648	5,600,448	5,854,883	6,060,208	6,189,452	6,407,849
5,113,249	5,384,899	5,608,822	5,861,904	6,063,528	6,191,882	6,414,755
5,122,871	5,412,491	5,615,282	5,861,992	6,063,546	6,204,874	6,422,801
5,124,547	5,412,737	5,625,766	5,875,288	6,072,518	6,208,369	6,435,091
5,132,723	5,420,702	5,636,330	5,894,342	6,090,529	6,214,276	6,441,914
5,150,225	5,420,722	5,649,220	5,900,981	6,096,461	6,217,965	6,450,092
5,153,769	5,459,505	5,650,076	5,934,196	6,098,544	6,260,482	6,456,396
5,155,782	5,473,733	5,652,804	5,942,137	6,107,011	6,266,080	6,476,931
5,157,516	5,481,379	5,680,129	5,946,426	6,112,663	6,266,134	6,477,955
5,208,818	5,488,906	5,691,823	5,947,028	6,115,056	6,267,054	6,509,903
5,208,888	5,497,252	5,691,828	5,958,647	6,121,996	6,268,948	6,541,181
5,247,174	5,508,828	5,696,393	5,966,504	6,130,702	6,283,589	6,545,772
5,249,067	5,509,561	5,699,174	5,969,872	6,134,393	6,295,076	6,564,018
5,283,140	5,517,359	5,699,740	5,973,801	6,136,509	6,299,572	
5,291,273	5,519,852	5,708,736	5,986,819	6,137,580	6,318,266	
5,323,248	5,526,143	5,713,287	5,995,475	6,147,789	6,352,816	

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Lotem 400 Family / Lotem 400 Quantum Family Site Preparation Guidelines

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Dear Customer:

Please take a few moments to read through this document. This document provides guidelines for preparing your site for the Lotem 400 Family and Lotem 400 Quantum Family platesetter installation.

To achieve maximum reliability from your platesetter, please work together with your Creo service engineer to ensure that you have all the required details. Proper preparation of your site will help to prevent unnecessary problems and delays when installing any of the Lotem 400 platesetters.



This document refers to the Lotem 400 Family and Lotem 400 Quantum Family of platesetters.

The Lotem 400 Family includes: Lotem 400, Lotem 400 with MCU, Lotem 400 Processless Plates (chemistry free), and Lotem 400 Xpose.

The Lotem 400 Quantum Family includes: Lotem 400 Quantum and Lotem 400 Quantum with MCU.

***Lotem 400* refers to any of the above machines unless specified otherwise.**

When there are significant differences between the platesetters, the platesetter is mentioned separately.

The following topics are discussed:

- Pre-installation checklist; the checklist summarizes, in a table format, the various topics discussed in this document. Review this checklist to ensure that you have prepared and considered all the necessary requirements.
- Floor space requirements
- Platesetter site dimensions
- Weight requirements
- Electrical requirements
- UDRC Requirements
- Environmental conditions
- Other conditions
- Network/modem requirements
- Processor specifications

- Front End Requirements
- Plates
- Appendix A summarizes customer configuration requirements
- Appendix B airborne emission disclosure

A punch configuration order form is also provided in this kit:

- Punch and Plate Configuration Order form

Please be sure to fill in the form and return it to your Creo representative to ensure a quicker and more accurate installation.

Pre-installation Checklist

Before arrival of the Lotem 400 platesetter at your site, you should prepare a final layout of the installation site and make sure that all requirements are met. The following table lists the necessary pre-installation items.

	Requirement Item	**Done?**
1.	Adequate space according to customer configuration	
2.	Access to and operation of the platesetter	
3.	Fork lift to lift the packaging and platesetter	
4.	**Electrical requirements**	
5.	Voltage settings	
6.	Wall connectors for power cable	
7.	Power line disturbances	
8.	Grounding	
9.	Cable routing provisions, according to distances between the equipment at your site	
10.	**Environmental conditions**	
11.	Cleanliness	
12.	Static electricity	
13.	Humidity	
14.	Air conditioning	
15.	Yellow safe light (for Kodak green plate requiring preheating)	
16.	Thermometers and humidity meters/recorders - recommended	
17.	Air compressor	
18.	Cables for communication network	
19.	Telephone line	
20.	Operational processor/chemicals	
21.	Plates	
22.	Storage space for plates	
23.	Densitometer for plates/press sheet	

Floor Space Requirements

The minimum required floor space depends on the Lotem 400 configuration at your site, and on the specific platesetter model you have. For example,

- does the configuration include an on-line processor or
- is the platesetter connected to a plate stacker that collects the exposed plate.

Please ensure to provide enough space to situate and operate your platesetter.

The Lotem 400 with MCU is larger and requires additional space for the loader.



It is recommended that the site be prepared for the Lotem MCU for Lotem 400, even if the Lotem 400 is initially installed.

The floor space required for unpacking the platesetter needs to consider the shipping container size:

- Lotem 400 platesetter - length 1000 mm (39.37 in.) (loading tray - 450 mm, 17.72 in), width 1760 mm (69.29 in.), height 1350 mm (53.15 in.).
- MCU for of Lotem 400 - length 1600 mm (63 in.), width 1220 mm (48 in.), height 1350 mm (53.15 in.).
- Lotem 400 Quantum Universal Debris Removal Cabinet (UDRC)- length 600 mm (23.6 in), width 510 mm (20.1 in), height 900 mm (35.5 in).

Weight Requirements

- Lotem 400 / Lotem 400 Quantum platesetter – 750 kg (1650 lb.)
- MCU for the Lotem 400 – 650 kg (1430 lb).
- Lotem 400 / Lotem 400 Quantum and MCU – 1400 kg (3080 lb.)



The platesetter has four (4) symmetrically-placed legs and the automatic loader has four (4) wheels.

- A fork lift capable of lifting their weight is used to lift the platesetter and automatic loader packaging, and then to lift them from their shipping pallets.



The platesetter should be lifted from the shipping pallet **only** at the designated locations, clearly marked on the platesetter chassis.

- Floor should be able to support a point load of 50 kg/cm².

Electrical Requirements

General Considerations

The total power consumed by your system is determined by the selected system configuration. Remember to allow sufficient margin for system expansion when calculating the required electrical capacity.

Prior to connecting the electrical power supply, ensure that all voltage settings, fuses and cords are in full accordance with local standards.

Note: Make sure the electrical requirements are met as it is vital to ensure your platesetter functions properly. Correct power supply will ensure a quicker and more accurate installation. If you have any questions to the instructions provided, please call your Creo representative.

Power Line

- Line voltage at customer site should be a 2 phase supply in 120V 25A configuration, or 1 phase in 220V 25A supply.
- Supply voltage of 200-240 Vac ±10%.
- Supply frequency variation up to 50/60 Hz ±2%.
- The cable connector (male, 3-pin - 2 phase and ground) is supplied with the platesetter; the customer should supply the wall connector. The wall connector should be **32A 6h** (female 3-pin – 2 phase and ground).
- Three (3) power supply connections for Brisque, Brisque monitor and Lotem Controller monitor – 120V ±10% or 220V ±10%, 16A.
- An additional isolated single-phase outlet for service purposes.
- An additional isolated single phase 208V - 220V outlet is required for the Debris Removal Unit with a 25A fuse.
- Additional power is required when using the cooling system.
- Additional power is required for the **Processor**, **Pre-heat ovens**, **Baking ovens** and/or **Plate stacker**. Refer to vendor specifications, and to *Appendix A, Table 2*.

The Laser box - Brisque cable has a wide plug so you should allow at least 70 mm for cable routing.

Note: **Customers in North America must add a dedicated circuit breaker of 15A with a interrupting capacity of 5000 amp.**

Power Line Disturbances

The reliable operation of computer systems depends on the availability of relatively noise-free AC power.

Lighting, line faults, or power switching, commonly found in machinery or equipment in office or factory environments, can generate line transients which far exceed the peak value of the applied voltage. If not attenuated, these micro-second pulses can disrupt system operation.

Grounding

At 60 Hz sites, 208 Vac (between 2 phases of 120 Vac each) plus grounds tied by AWG #1 solid copper wire to the main power ground point of the building.

At 50 Hz sites, 380 Vac grounds, tied by 40^2 mm solid copper wire (7 mm in diameter) to the main power ground point of the building.

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.
- If a power stabilizer is used, it should be supplied by uninterrupted phase wires, and one uninterrupted copper ground wire, from the main building entry service panel. These should run in the same conduit and be at least equal in size to the phase wires.
- Neutral and ground are bonded together in the main building entry service panel, and a good earth ground at this point of not more than 2 Ohms impedance.

- 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.

Chained neutrals and grounds are not permitted.

Cable Protections

Preparation of proper cable protection for the cables connecting the platesetter and Lotem Controller monitor.

Maximum distance between the platesetter and Lotem Controller monitor – 4.5 meter (13.5 feet).

UDRC Requirements

Electrical & Power Requirements

- The appliance inlet is the AC mains disconnection point for the Universal Debris Removal Cabinet - 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	Required by Customer
UDRC power	IEC320, Type C20 appliance inlet (see Figure 2). Detachable 4.5 m (15 ft) power cord1 with IEC320 Type C19 connector at the device end and a L6-15P plug at the other end (see Figure 1).	Dedicated 15A, 200-240V branch circuit and L6-15R receptacle.

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

Cables	Supplied by Creo	Required by Customer
UDRC power	IEC320, Type C20 appliance inlet (see Figure 2). Detachable 4.5m (15 ft) power cord2 with IEC320 Type C19 connector at the device end and no plug3 at the other end (see Figure 2).	Dedicated 16A, 200-240V branch circuit with standard receptacle and mating plug for power cord.

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

Table 3: 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)

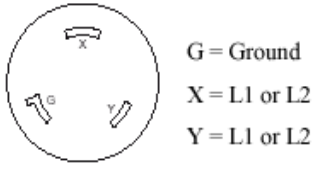


Figure 1. Figure 1: L6-15P plug



Figure 2. Figure 2: IEC320 Type C20 appliance inlet

Environmental Conditions

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.

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 platesetter 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

An industrial steam humidifier is required to sufficiently meet the humidity specified for the area in which the platesetter resides (relative humidity of 55% ±5%).

Note: All plates are sensitive to static electricity that may cause double feeding and jamming if the humidity is out of range.

UV Light

Some plates, such as Kodak DITP, are sensitive to UV light. When such plates are used or when the Lotem 400 platesetter 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 platesetter, **plus** all additional equipment residing in the system room, and an additional minimum 25% safety margin.

The platesetter requires a constant temperature of 20-25°C (68-77°F).

To calculate the air conditioning requirements for the Lotem 400 platesetter configuration at your site (in BTU/hour) see tables below.

Basic configuration:

Platesetter	12,000-16,000 BTU/hour
Host	2,500 BTU/hour
Other Misc.	1,500 BTU/hour
Safety margin (25% of above)	6,250 BTU/hour
Total	22,250-26,250 BTU/hour

Additional optional devices:

(fill in as required; see *Appendix A - Customer Configuration Requirements on page 18* for complete site configuration):

Pre-heat convection oven	BTU/hour
Plate processor	BTU/hour
Post-bake oven	BTU/hour
Bake conveyor	BTU/hour
Rinse/Gum unit	BTU/hour
Plate stacker	BTU/hour
Safety margin	BTU/hour
Total of Basic (previous)	22,250-26,250 BTU/hour
Total	BTU/hour

Note the following guidelines:

- It is recommended that the air flow in the system room be maintained above normal air pressure, in order to prevent dust from entering the room.
- 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.

Air Supply Requirements

A standard 1/2 " NPT female outlet connector is required. It should be mounted on the wall up to 5 m from the machine.

- **Pressure:** 6 bar Minimum.
- **Air Quality:** According to ISO 8573-1-CLASS4

  Dew Point: 3°C @ 8 bar [37.4°F @116psi]

  Max. Particle Size: 15 µm [0.006”]

  Max. Concentration of Solid Contamination: 8 mg/m³ [0.000216 oz/yd^3]
- **Max. Oil Content:** 5 mg/m³ [0.000135 oz/yd^3]

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

- **Min. Airflow Requirements**:

	Lotem 400	**Lotem 400 with MCU & Lotem 400 Quantum with MCU**
Airflow	3 Liter/sec (6.4 CFM)	7 Liter/sec (14.8 CFM)
Air Consumption	24 Liter/sec for 10 sec every 3 minutes	24 Liter/sec for 10 sec every 3 minutes

Compressor type has great influence on the size of the air reservoir. The following table gives preliminary information for reservoir size.

Compressor type		**Lotem 400 with & without MCU**	**Lotem 400 Quantum with & without MCU**
Piston (50% up time)	Air flow needed- l/s [SCFM]	15 [31.8]	10 [21.2]
	Max compressor pressure - bar [psi]	13 [188.5]	13 [188.5]
	Reservoir size - liters [gallon]	200 [53]	100 [26.5]

Screw (80% up time)	Air flow needed- l/s [SCFM]	15 [31.8]	10 [21.2]
	Max compressor pressure - bar [psi]	13 [188.5]	13 [188.5]
	Reservoir size - liters [gallon]	100 [26.5]	50 [13.2]



Use the above table figures as a guideline. Reservoir size value can vary significantly due to on-site parameters. Please consult your compressor vendor in order to define the proper reservoir size needed.

Network/Modem Requirements



It is recommended to connect the platesetter to workstation using point to point configuration.

- One network RJ-45 (twisted-pair) socket near the workstation and a twisted-pair cable (supplied by customer) for workstation network connectivity.
- A direct dedicated telephone line for remote support via modem (modem is supplied with workstation). The modem will serve the workstation and platesetter via T-switch.
- For improved system productivity, it is recommended that you prepare a 100BaseT network.

Front End Requirements

- For Prinergy: 22-0192B: direct connectivity software for Lotem 400 Quantum-includes a 15 meter cable, SCSI LVD board, and CD-ROM
- For Brisque: a 30 meter TSP cable is required.

Processor Specifications

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 platesetter supports 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.

Appendix A - Customer Configuration Requirements

The customer is fully responsible for contacting the vendors and obtaining all the necessary installation information.

Table 1 - Space Requirement

To calculate the total length requirements of your site, please fill out the Customer config. length column in the table below. This column should reflect the configuration of the devices that you are adding to the Lotem 400 platesetter configuration.

Mark here	**Device**	**Length** (for reference only)	**Customer config. length**
✓	Lotem 400 platesetter	1320 mm (52”)	1320 mm (52”)
✓	MCU for Lotem 400 platesetter	2370 mm (89”)	2370 mm (89”)
	UDRC	510 mm (20”)	510 mm (20”)
✓	Plate conveyor	900 mm (35”)	900 mm (35”)
	Pre-heat convection oven	See vendor’s specifications	
	Plate processor	See vendor’s specifications	
	Bake oven	See vendor’s specifications	
	Bake conveyor	See vendor’s specifications	
	Rinse/Gum unit	See vendor’s specifications	
	Plate stacker	See vendor’s specifications	
		Total	

Table 2 - Power Requirements

Table 2 is for reference purposes only. To prepare your site, please contact your vendor and obtain all the necessary information. Then fill in the necessary values in the customer config. columns.

Mark here	**Device**	**Power Requirement**		**Heat Dissipation (in BTU/hour)**	
		ref values	customer config.	ref values	customer config.
✓	Lotem 400 platesetter	220V, 1 phase 5 KVA		12,000 - 16,000	
✓	Workstation + Lotem Controller monitor	110V - 220V, one phase		2,500	
	UDRC				
	Pre-heat convection oven	See vendor's specifications		See vendor's specifications	
	Plate processor	See vendor's specifications		See vendor's specifications	
	Bake oven	See vendor's specifications		See vendor's specifications	
	Bake conveyor	See vendor's specifications		See vendor's specifications	
	Rinse/Gum unit	See vendor's specifications		See vendor's specifications	
	Plate stacker	See vendor's specifications		See vendor's specifications	
			Total		

Appendix B - 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 refer to 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, etc.); 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 (e.g., 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 (e.g., UDRC- BP), or it may trap dust and a number of gaseous by-products of the imaging process (e.g., 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 Output Device Site Preparations & 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, 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 & Safety regulations and guidelines in its work environment.