Site Preparation Guide

English

Trendsetter Autoloader Spectrum

707-00307A-EN Rev D

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Trendsetter Autoloader Spectrum Site Preparation Guide

Introduction

Please take a few moments to read through this document. It provides guidelines for preparing your site for the *Kodak Trendsetter* Autoloader Spectrum installation.

Your 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.

This document provides information about the following topics:

- 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 service engineer, complete the “Site Inspection Checklist” in Appendix B.

Tools Needed

- Air supply gauge (part number 92-0401A)—to check the pressure and flow of the site’s compressed air supply. See “Air Supply Pressure Qualification Procedure” on page 17.
- Measuring tape—15 m (50 ft.)
- Voltmeter

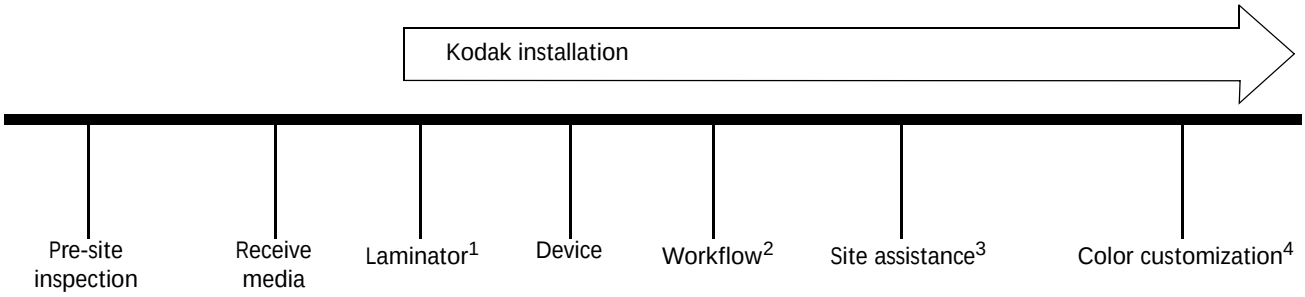
Equipment Overview

The device consists of the following standard components:

- Plate-recording output device
- Digital halftone proofing film imaging system
- Workstation
- Debris removal system[1]

Overview of Installation Process

Figure 1 illustrates the typical steps involved in the installation of a *Trendsetter* or *Proofsetter Spectrum* output device.



Notes:

1. Laminator installation and Color set-up are performed by the proofing media vendor.
2. Workflow installation will be performed by the Workflow vendor.
3. Kodak Site Assistance only applies when the workflow is a Kodak workflow
4. Color customization is performed by the proofing media partner after the device and workflow are tested.

Figure 1: Typical Spectrum system installation steps

Requirements

The customer is responsible for preparation of the site to fulfill the requirements of the Spectrum output device as outlined in this document. In addition, the customer will require the following equipment for use with the Spectrum output device:

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

One of the following proofing media spectrodensitometers with density and dot area (Murray-Davies) functions:

- X-Rite 508
- X-Rite 518
- X-Rite 520
- X-Rite 528
- X-Rite 530
- X-Rite 938
- [Optional, for *Trendsetter Spectrum*s only] Centurfax CCDot dot measuring device for use on plates with AM screens below 200 lpi. (The X-Rite spectrodensitomers will work on such plates, but not as well. For plates with FM (stochastic) screens, or screens above 200 lpi, the X-Rite spectrodensitometers are superior to the CCDot device.)

Size and Weight

Table 1 shows the maximum dimensions and weight of the *Trendsetter* Autoloader Spectrum components. The measurements are taken facing the *Trendsetter s*ystem, with the panels installed. Width is in the x-axis direction. Depth is in the y-axis direction.

For measurements of the crates as shipped, see Table 6 on page 23 (air) and Table 7 on page 23 (ground).

Table 1: Size and weight of Trendsetter Autoloader Spectrum device

Component	Width	Depth	Height	Weight
Trendsetter Autoloader Spectrum (no rotator)	283 cm (111.4 in.)	124.8 cm (49.1 in.)	180.5 cm (71 in.)	796 kg (1780 lb.)
Trendsetter Autoloader Spectrum (rotator)	283 cm (111.4 in.)	183.4 cm (72.2 in.)[a]	211 cm (83 in.)[b]	796 kg (1780 lb.)
Debris removal cabinet	See the UDRC Site Preparation Guide (part number 725-00089A).			
Workstation	Varies with configuration			

a. The depth is specified with front panel closed/media cassette installed.
b. The height is specified to the top of the unload table in the raised position.

The sizes of the Spectrum proofing cassettes are:

- 4-up size: 40 in. L x 25 in. W x 2 in. H
- 8-up size: 40 in. L x 43 in. W x 2 in. H

Cables, Connectors, and Receptacles

Tables 2–4 list the supplied and required cables and connectors for the output device. Table 5 on page 7 lists the power/air connections.

Table 2: Cables and Interconnects—North America

Cables	Supplied by Kodak	Required by Customer[a]
Output device main power	Attached 4.5 m (15 ft.) power cord with L6-20P[b] plug	Dedicated 20 A, 200–240 V branch circuit with L6-20R receptacle. The circuit breaker must be 20 A time-delay type.
Workstation main power	Detachable 2.5 m (8.2 ft.) power cable with 5-15P plug	Dedicated 15 A, 120 V branch circuit and 5-15R receptacle
Telephone line or broadband Internet connection	Modem and 7.6 m (25 ft.) serial cable. The modem power supply can be plugged into a UPS.	Modem, dedicated telephone line, or broadband Internet connection; telephone or network cable long enough to reach the workstation; and separate AC power source (A UPS is provided only with 5-15R outlet receptacles.)
Debris removal system (UDRC)	See the UDRC Site Preparation Guide (part number 725-00089A).	
Optional Equipment		
Extended length workstation SCSI and serial cables	Note: The standard SCSI and RS-232 serial cables supplied by Kodak are 7.6 m (25 ft.) long. If the workstation needs to be farther away from the output device, the following optional configurations are available: • 15.2 m (50 ft.) cables and a SCSI booster(see Figure 2 on page 6) • 30.4 m (100 ft.) cables and SCSI boosters (see Figure 3 on page 7)	

a. The tolerances for input voltages are +6%, -10%. The specification for the frequency is 60 Hz ±1.5%. Branch circuits should have time-delay circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see “Electrical” on page 13.

b. Locking-type Industrial Type B plugs and receptacles are required and relied on for safety due to high leakage current. A ground connection is essential before connecting the power supply.

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

Cables	Supplied by Kodak	Required by Customer[a]
Output device main power 16 A European branch circuit	Attached 4.5 m (15 ft.) power cord with IEC309[b] 16 A Type B plug	Dedicated 16 A, 200-240 V branch circuit with IEC309[b] Industrial Type B receptacle. The circuit breaker must be 16 A time-delay type.
Workstation	IEC320, Type C14 appliance inlet	IEC320, Type C13 connector with 8 A cord. Dedicated 8 A, 200–240 V branch circuit.
Telephone line or broadband Internet connection	Serial cable for modem	Modem, dedicated telephone line, or broadband Internet connection; telephone or network cable long enough to reach the workstation; and separate AC power source (A UPS is provided only with 5-15R outlet receptacles.)
Debris removal system (UDRC)	See the UDRC Site Preparation Guide (part number 725-00089A).	
Optional Equipment		
Extended length workstation SCSI and serial cables	Note: The standard SCSI and RS-232 serial cables supplied by Kodak are 7.6 m (25 ft.) long. If the workstation needs to be farther away from the output device, the following optional configurations are available: • 15.2 m (50 ft.) cables and a SCSI booster(see Figure 2 on page 6) • 30.4 m (100 ft.) cables and SCSI boosters (see Figure 3 on page 7)	

a. The tolerances for input voltages are +6%, -10%. The specification for the frequency is 50/60 Hz ±1.5%. Branch circuits should have time-delay circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see “Electrical” on page 13.

b. IEC309 Industrial Type B plugs and receptacles are required and relied on for safety due to high leakage current. A ground connection is essential before connecting the power supply.

Table 4: Cables and interconnects—Japan

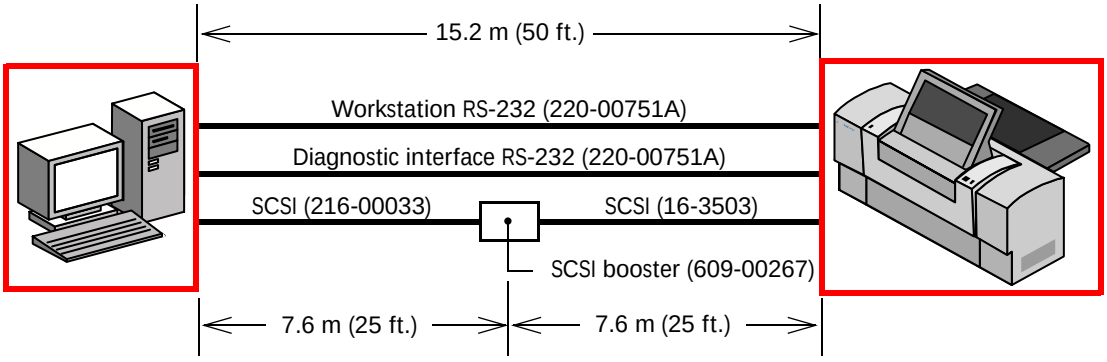
Cables	Supplied by Kodak	Required by Customer[a]
Output device main power	Attached 4.5 m (15 ft.) power cord with L6-20P[b] plug and L6-20 receptacle	Dedicated 20 A, 200–240 V branch circuit with L6-20R receptacle. The circuit breaker must be 20 A time-delay type.
Workstation	Detachable 2.5 m (8.2 ft.) power cable with 5-15P plug	Dedicated 15 A, 100 V branch circuit and 5-15R receptacle

Table 4: Cables and interconnects—Japan (Continued)

Cables	Supplied by Kodak	Required by Customer[a]
Telephone line or broadband Internet connection	Serial cable for modem	Modem, dedicated telephone line, or broadband Internet connection; telephone or network cable long enough to reach the workstation; and separate AC power source (A UPS is provided only with 5-15R outlet receptacles.)
Debris removal system (UDRC)	See the UDRC Site Preparation Guide (part number 725-00089A).	
Optional Equipment		
Extended length workstation SCSI and serial cables	Note: The standard SCSI and RS-232 serial cables supplied by Kodak are 7.6 m (25 ft.) long. If the workstation needs to be farther away from the output device, the following optional configurations are available: • 15.2 m (50 ft.) cables and a SCSI booster(see Figure 2 on page 6) • 30.4 m (100 ft.) cables and SCSI boosters (see Figure 3 on page 7)	

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 circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see “Electrical” on page 13.

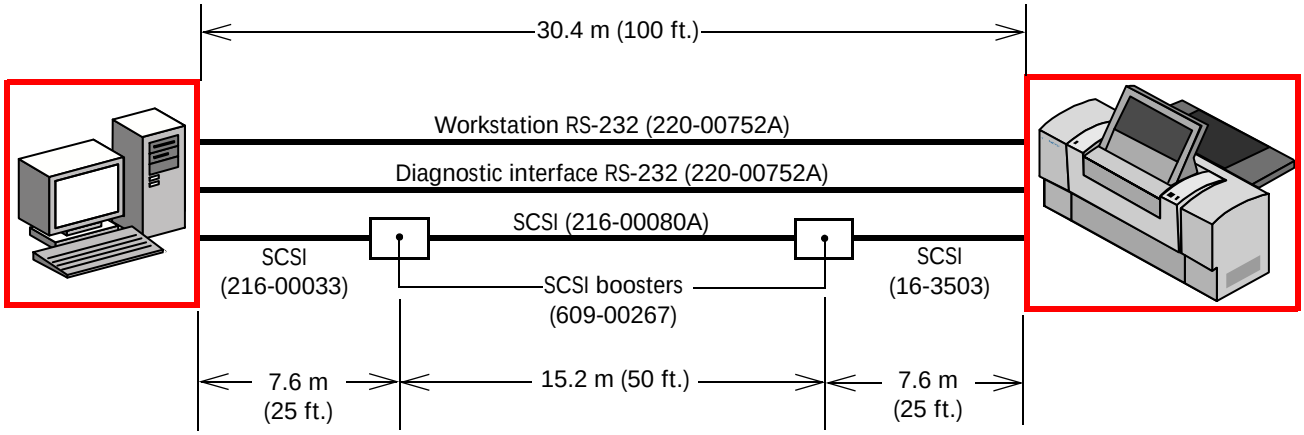
b. Locking-type Industrial Type B plugs and receptacles are required and relied on for safety due to high leakage current. A ground connection is essential before connecting the power supply.



Kit 518-00740A contains:

- Two 15.2 m (50 ft.) RS-232 serial cables (220-00751A)—one for the workstation and one for the diagnostic interface
- One 7.6 m (25 ft.) SCSI ultrawide-to-ultrawide cable (16-3503)
  Note: The 7.6 m narrow-to-ultrawide SCSI cable (216-00033) shown in the diagram is not included in the kit, because it comes with the output device.
- One SCSI booster (609-00267)

Figure 2: Optional 15.2 m (50 ft.) SCSI and serial cable configuration (518-00740A)



Kit 518-00742A contains:

- Two 30.4 m (100 ft.) RS-232 serial cables (220-00752A)—one for the workstation and one for the diagnostic interface
- One 15.2 m (50 ft.) SCSI ultrawide-to-ultrawide cable (216-00080A)
- One 7.6 m (25 ft.) SCSI ultrawide-to-ultrawide cable (16-3503)
  Note: The 7.6 narrow-to-ultrawide SCSI cable (216-00033) shown in the diagram is not included in the kit, because it comes with the output device.
- Two SCSI boosters (609-00267)

Figure 3: Optional 30.4 m (100 ft.) SCSI and serial cable configuration (518-00742A)

Table 5: Air and network connections

Other Connections	Supplied by Kodak	Required by Customer
Network connection	Ethernet: 100 Base-T (RJ-45) or 1000 Base-TX FDDI: Duplex SC	Network connection and cable long enough to reach the workstation Three consecutive static IP addresses for the device/workstation/remote access connections and one IP address for the network adapter card on the workstation (to connect to the customer's local area network[a])
Shop air supply (dedicated branch recommended—see "Air Supply Pressure Qualification Procedure" on page 17)	12.7 mm (0.5 in.) national pipe thread (NPT) female fitting on the device	9.5 mm (3/8 in.) minimum (inside diameter) air line with 12.7 mm (0.5 in.) NPT fitting

a. For specific information on connectivity, see the configuration information at http://techplanet.creo.com/output/service_tools/service_shell/nav/v2-x/proced.htm.

Site Requirements

Footprint and Working Area

See Figures 4–8 for the recommended work area and dimensions. For operator access, leave at least 183 cm (72 in.) clearance at the front of the device and 91 cm (36 in.) clearance at the sides of the *Trendsetter* Autoloader Spectrum device.

The customer should provide an area close to the device for storing imaging media (for immediate use), disks, paperwork, and so on. Plates should be stored vertically if unpacked and uncrated.

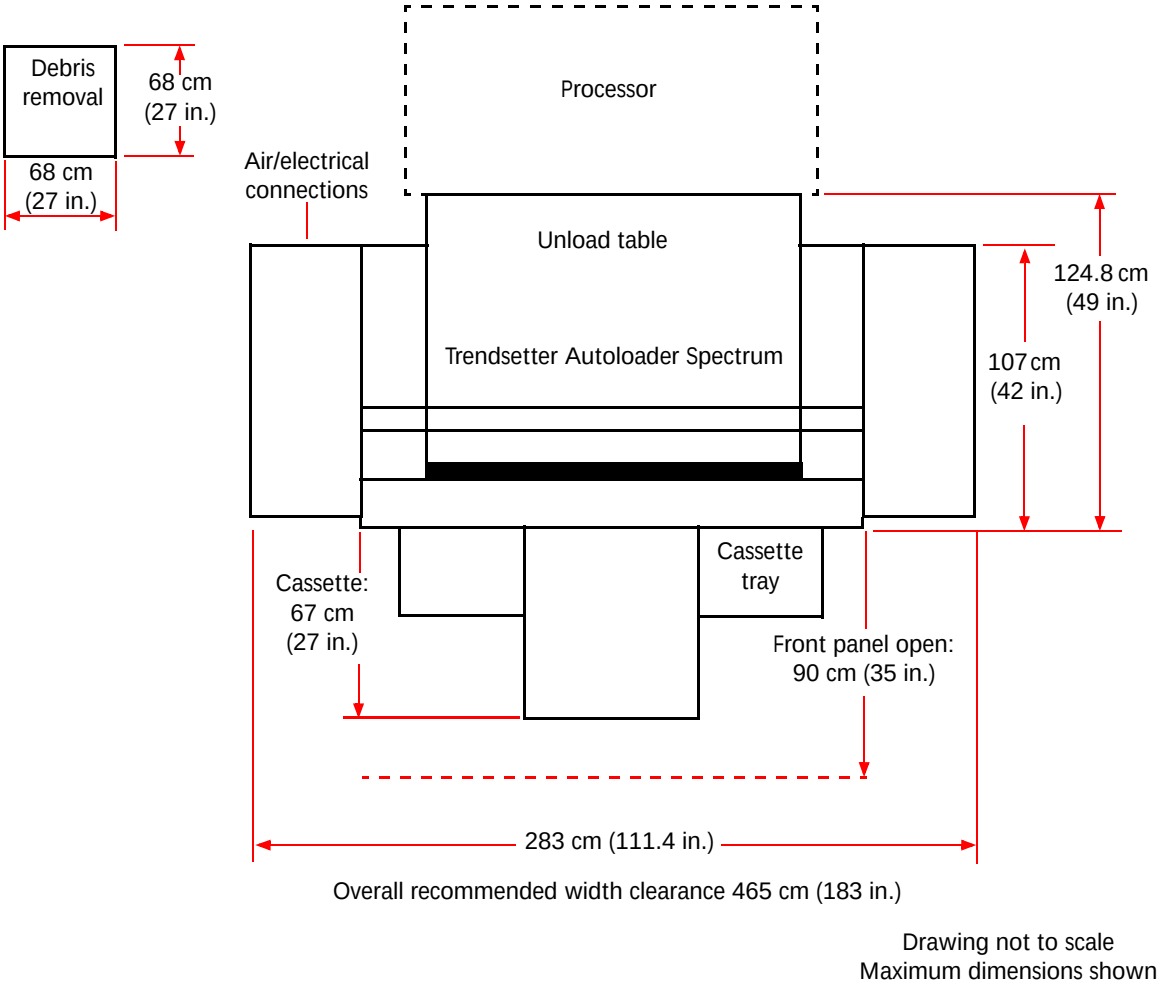
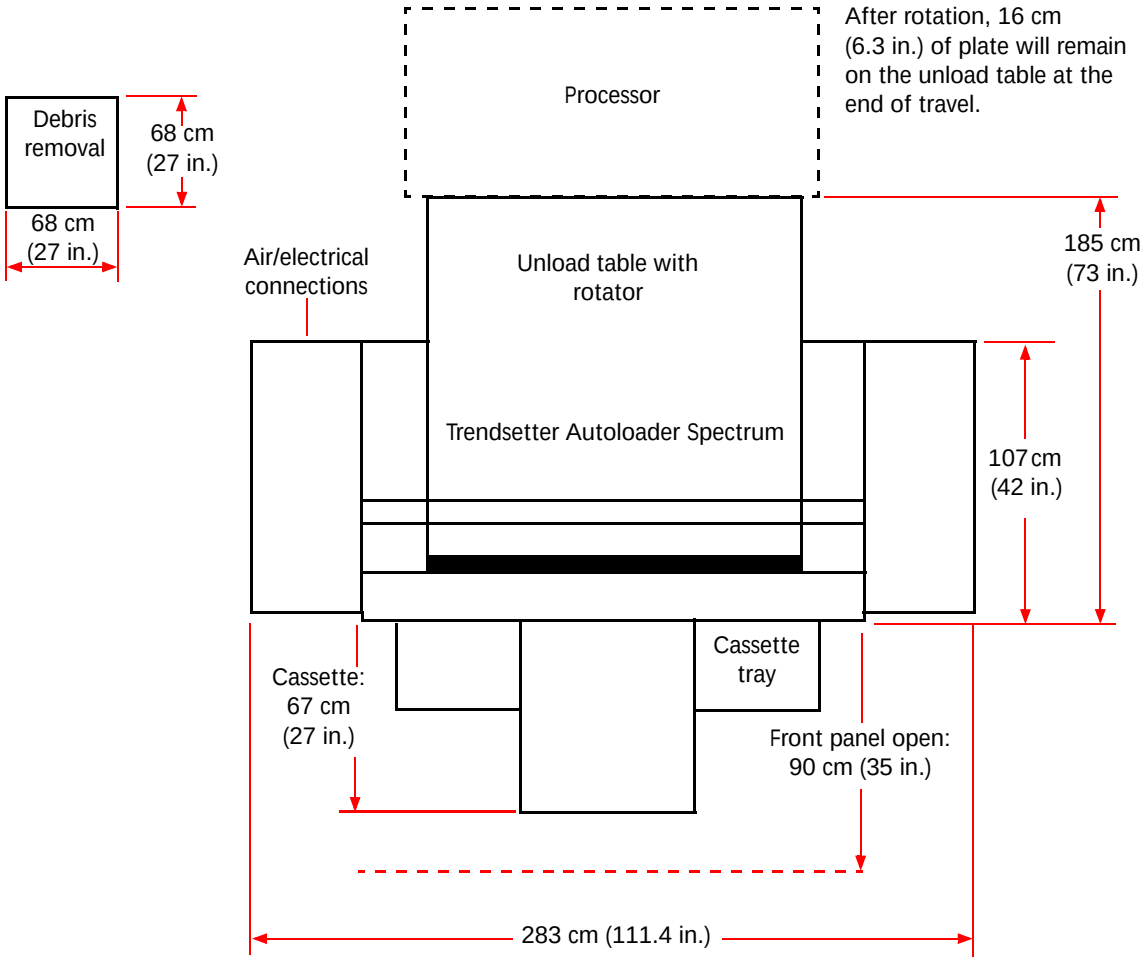


Figure 4: Trendsetter Autoloader Spectrum without rotator—top view of work area



Drawing not to scale
Maximum dimensions shown

Figure 5: Trendsetter Autoloader Spectrum with rotator—top view of work area

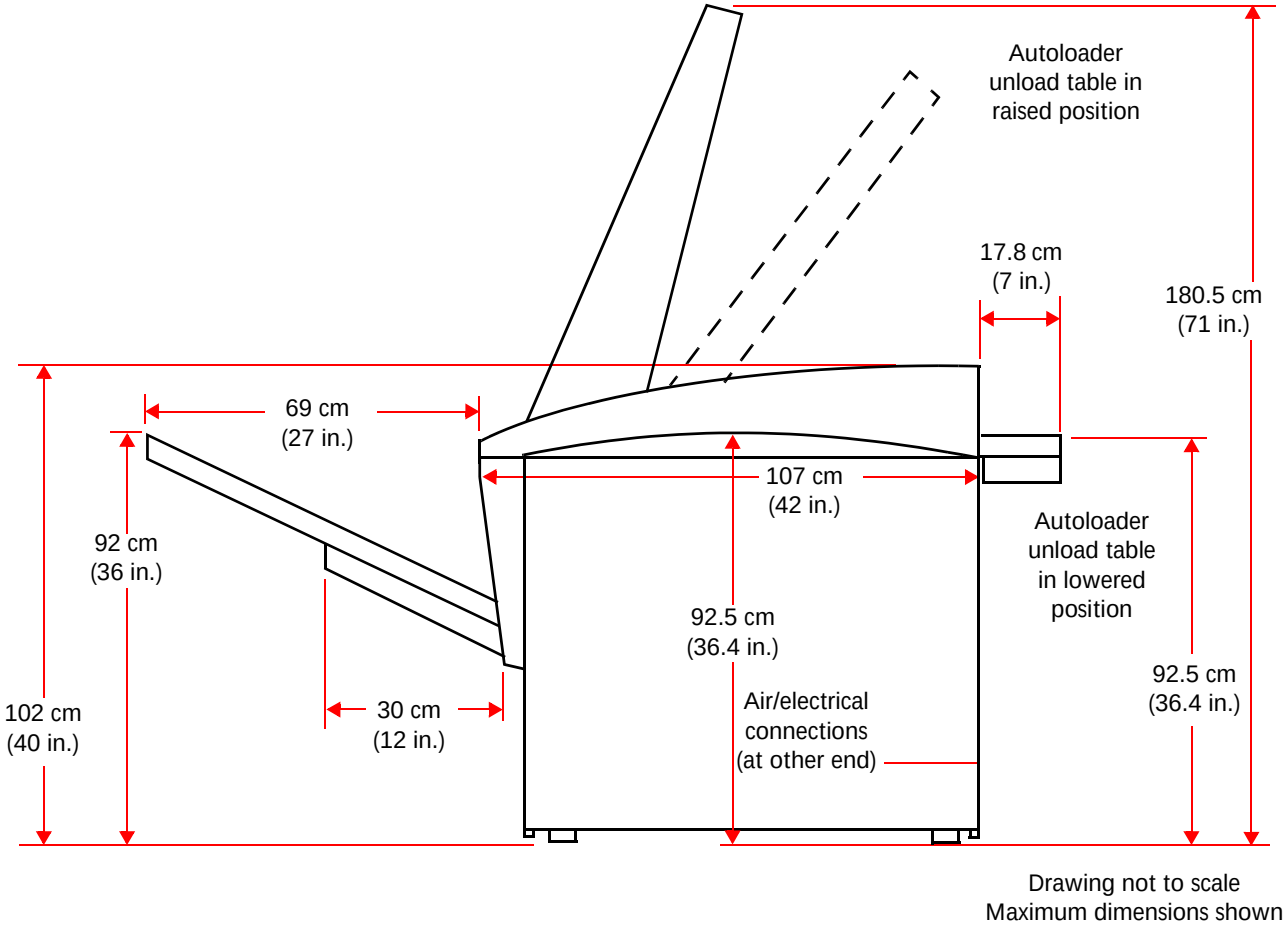


Figure 6: Side view of Trendsetter Autoloader Spectrum without rotator—work area and maximum dimensions

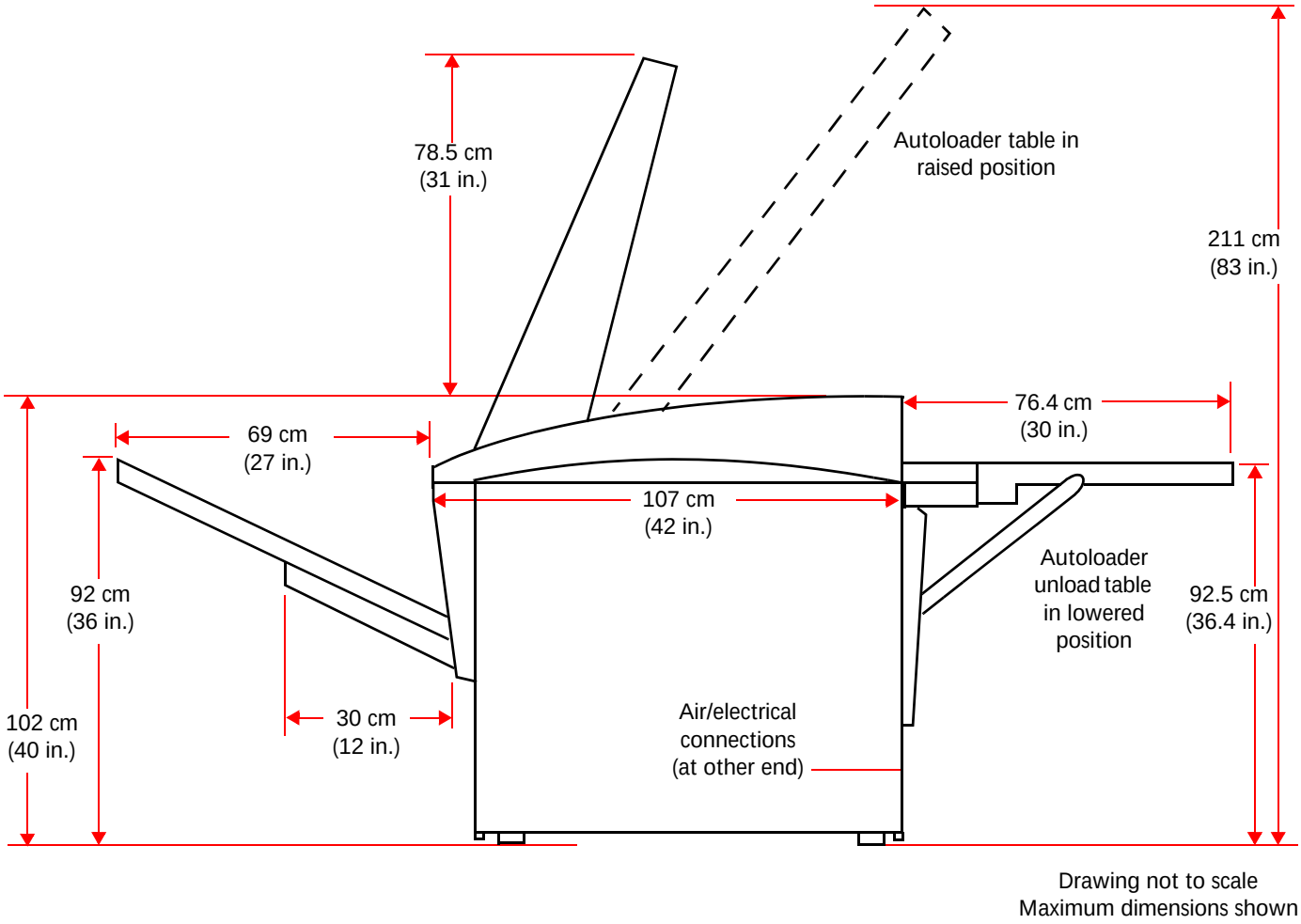


Figure 7: Side view of Trendsetter Autoloader Spectrum with rotator—work area and maximum dimensions

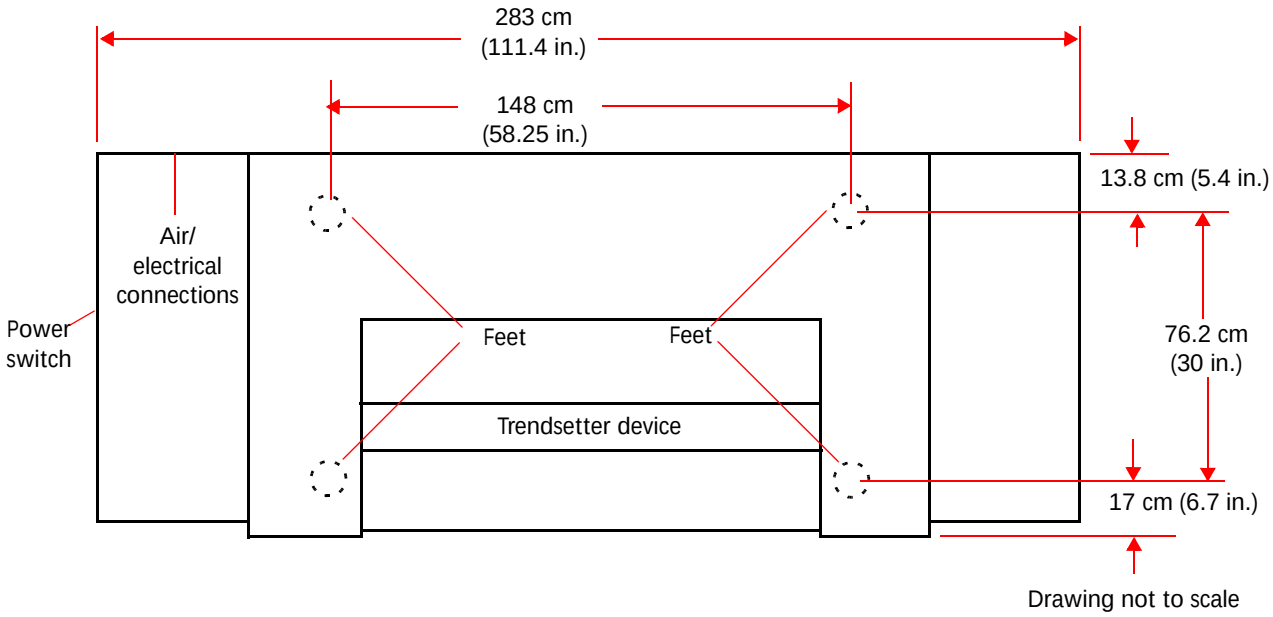


Figure 8: Trendsetter foot layout—top view

Debris Removal Cabinet

Certain printing media (plates or film) may release airborne emissions during the imaging process. Kodak output devices are supplied with—or may be able to be upgraded to—a debris removal system containing a collection nozzle located on the thermal imaging 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 Kodak 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, see the UDRC Site Preparation Guide (part number 725-00089A).

Environmental Conditions

Install the *Trendsetter* device in a clean pre-press area wherever possible to ensure the highest quality output. If you must install the *Trendsetter* device in a pressroom environment, an enclosed room is mandatory.

Operating environment for the *Trendsetter* device:

Temperature	17^{o} C –30^{o} C (63^{o} F –86^{o} F)
Humidity	20%–70% RH, non-condensing



Note: Some media types may restrict the operating environment of the *Trendsetter* system. Consult the media manufacturer for their recommended temperature and humidity ranges for media use and storage.

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

Floors

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

The floor must be level within ±6.35 mm (±0.25 in.) across the footprint of the *Trendsetter* device. The floor must be sturdy and preferably made of concrete. In cases where there is a raised floor on top of a concrete base, the feet of the device should be situated on supports that are in contact with the concrete base.

Electrical

The dedicated branch circuit for the output device main power, debris removal system main power, and workstation main power must be supplied from the same AC supply panel to ensure that all branch circuits are at the same ground potential.

See Figure 9 for the location of the electrical connection on the device. Figure 10 shows the configuration of the receptacles used by the *Trendsetter* and peripheral equipment. See the UDRC Site Preparation Guide (part number 725-00089A) for information on UDRC electrical connections.

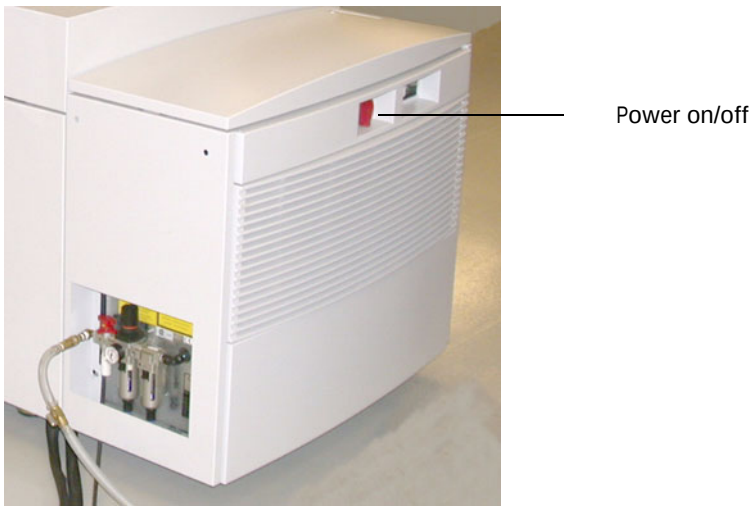
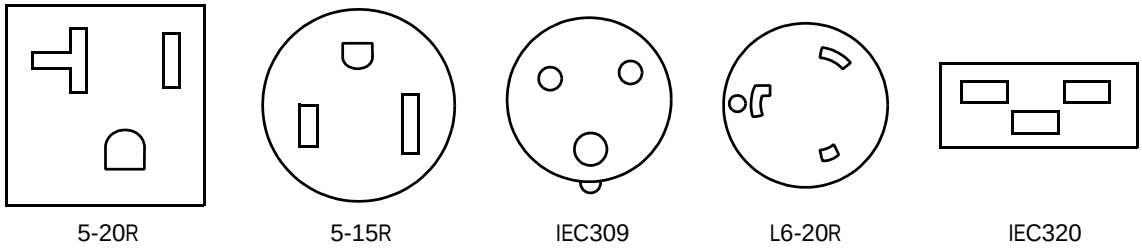


Figure 9: Electrical connection



Drawings not to scale

Figure 10: Electrical connectors used on Trendsetter output devices

Power Quality

If you suspect that there are problems with the power supply, a power monitor should be installed to measure power quality. If the power supply is unreliable, a line conditioner may be required. If power in the local area is suspect, check with the local service.

If the power quality at the customer site is outside of Kodak device specifications (+6%/-10%), the customer should purchase a line conditioner for the *Trendsetter* device circuit.

If there are concerns about power quality (blackouts or brownouts) at the customer site, an online UPS can be purchased from a local supplier. A UPS allows a correct, complete shut-down of the device. (A line conditioner allows the device to function for extended periods of time when the power conditions are outside of the *Trendsetter* Autoloader Spectrum specifications.)



Note: A UPS does NOT provide adequate line conditioning.

UPS specifications are available from the supplier.

Special Precautions

The plug on the power cord(s) of the *Trendsetter* Autoloader Spectrum output device is intended to be the disconnect device. Therefore, the branch circuit receptacle(s) must be installed near the *Trendsetter* output device and must be easily accessible.

Heat Output

The nominal heat output of the *Trendsetter* device is 2,600 W (8,870 BTU/hr.) of heat.

For heat output of the debris cabinet, see UDRC Site Preparation Guide (part number 725-00089A).

Power Consumption

The maximum power consumption when the output device is in standby mode is approximately 0.6 kWh. During imaging, the maximum power consumption increases to approximately 1.1 kWh.

Power Line Voltage/Frequency

Line voltage at the customer site must remain within +6%/-10% of the *Trendsetter* device rated voltage of 200 V–240 V or between 180 V and 254 V. The frequency is 50/60 Hz ± 2%.

The electrician at the customer site should install the correct outlet to provide power to the *Trendsetter* output device. The output device must be powered from a different line than the workstation.

Power connectors must be the locking type in North America and Industrial Type B in Europe, due to the high leakage current of the equipment.

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 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 microsecond pulses can disrupt system operation. The power line to the device should be run away from electrically noisy power cables. If power line disturbances are affecting the operation of the device, the use of a power stabilizer is highly recommended.

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

Air Supply

The Spectrum output device requires a clean, dry air supply of 280 L/min. @ 620 kPA (10 SCFM @ 90 psi) of shop air[1]. A 3 HP compressor with a minimum 30 gallon reservoir and a refrigerator air dryer with filter would typically provide a suitable air supply.



Note: The air supply flow and pressure requirements must be met for *each Trendsetter* Autoloader Spectrum output device. If the site has other devices using the same air supply, the compressor horsepower, reservoir capacity, and/or air line diameters must be adjusted accordingly.

If more than one output device will be hooked up to the air supply from one compressor, multiply the minimum required compressor horsepower and reservoir capacity by 1.5 for each additional output device. For example, if 2 additional devices are added to one air supply (for a total of 3 devices), the required compressor HP and reservoir capacity would be:

- 3 HP x 1.5 x 2 devices = 9 HP
- 30 gallons x 1.5 x 2 devices = 90 gallons

A screw type or scroll type compressor is preferred. The air supply should conform to ISO class 4:

- Maximum particle size 15 µ (0.006 in.)
- Concentration of solid contaminants: 8 mg/m^3 (0.000216 oz./$yd.^3$)
- Maximum pressure dew point 3° C (37.4° F)
- Maximum oil content 5 mg/m^3 (0.000135 oz./$yd.^3$)



Note: Do not add lubricant.

1. Guidelines for achieving these specifications for air cleanliness, volume and pressure are provided in Air Compressors for Creo Output Devices (part number 750-00006A).

Air temperature should not exceed 52° C (125° F). See Figure 11 for the location of the air intake.

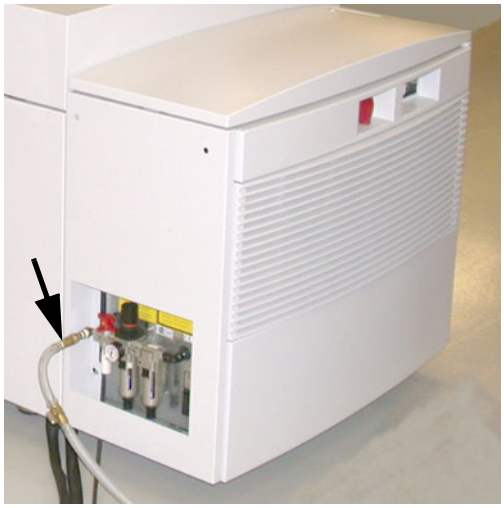


Figure 11: Compressed air supply connection

Air Supply Pressure Qualification Procedure

This procedure helps determine whether the customer's air supply pressure is adequate for satisfactorily running the *Trendsetter* device. It requires a measurement tool (92-0401A) 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 are included for this purpose.
2. Turn on the valve on the tool.
3. Record the results in "Air supply qualification test results" on page 40.
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.

The gauge must never fall below 100 PSI at any time during the tests. If the air supply fails to maintain this minimum pressure, the air supply is below specifications for the output device.

Ventilation

No filtration can be 100% efficient (for example, carbon monoxide is not captured by Kodak 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 *Trendsetter* device requires 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, Kodak 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 *Trendsetter* device, 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.

Telephone or Broadband Internet Link

The customer must maintain either a “direct dial” analog telephone line that is dedicated to the workstation (no other devices sharing this line) or a broadband Internet connection for use with remote support. See Table 2, Table 3, or Table 4 for the required connectors. The customer should also provide a separate voice telephone line to the *Trendsetter* location for communication with service engineers during remote support.



Note: Remote dial-in support to the *Trendsetter* system is dependent upon a dedicated, direct dial-in telephone line. Kodak can only offer remote support to devices that do not share telephone lines with other equipment or are accessible by a broadband Internet connection.

1. This is a default value. Certain media may require higher ventilation; to check the recommended value for specific media, see the CTP Media Imaging Performance Database document (available from your service representative).
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 an equivalent document.

Network

A total of four TCP/IP addresses must be provided for each *Trendsetter* device:

- One local area network (LAN) connection to the output device for supplying files from the workstation. See Table 5 on page 7 for supported network interfaces.
- Three consecutive static TCP/IP addresses for the output device-workstation 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 the three addresses are removed from the available addresses in the dynamic host configuration protocol (DHCP) pool.

Media and Processors

The customer must provide an appropriate supply of media and processors with an adequate supply of development chemistry, water, and drain/electrical connections, as specified by the manufacturer.

The customer must provide a list of all media sizes and types to be used.

The unload table on the *Trendsetter* Autoloader Spectrumdevice is adjustable from 91–98.5 cm (36–39 in.) from the floor to accommodate different plate processors. The entry size for the plate processor should be identified prior to installation of the device.

Proof Laminator

The customer is responsible for supplying the proof laminator with electrical connections as specified by the media manufacturer.

The laminator should be located close to the Spectrum output device and the work area arranged to flow from cassette loading to imaging to laminating with a minimum of motion to produce the highest quality proofs.

Proofing Media Storage

A multiple-drawer metal plan file—61 x 91cm (24 in. x 36 in.) for 4-up or 91 x 122cm (36 in. x 48 in.) for 8-up—is required to store proofing media (and plates, if applicable). A separate drawer is required for each size of color donor, receiver or intermediate, carrier, and (if applicable) paper stocks and prelaminate sheets. A table or suitable flat surface is necessary for loading of the proofing media cassette(s). It should be located as close as possible to the Spectrum output device to prevent dust contamination of the 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 12 for the plate registration points.

For further assistance with specifying punches and benders to be used with the *Trendsetter* output device, contact a service representative.

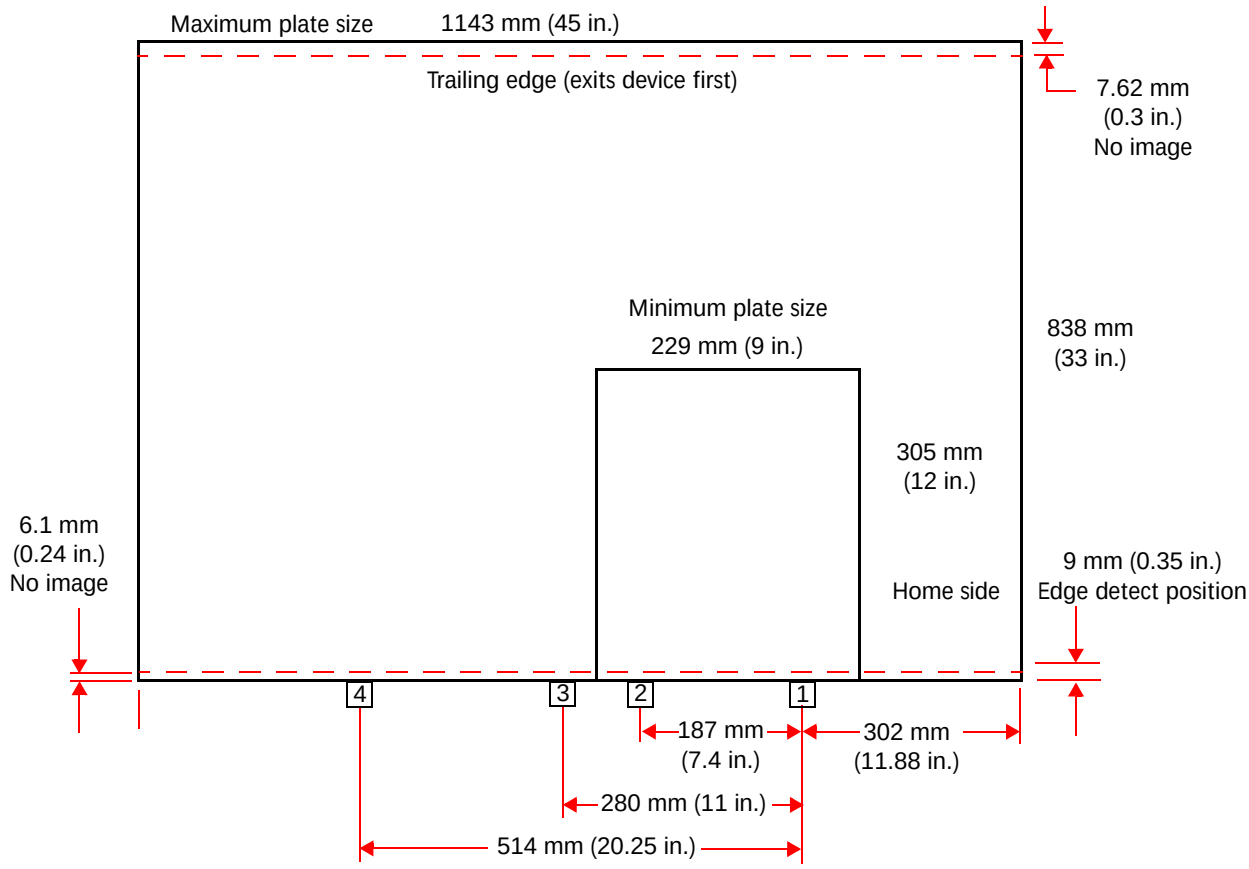


Figure 12: Plate registration points

For further assistance with specifying punches and benders to be used with the *Trendsetter* output device, contact a service representative.

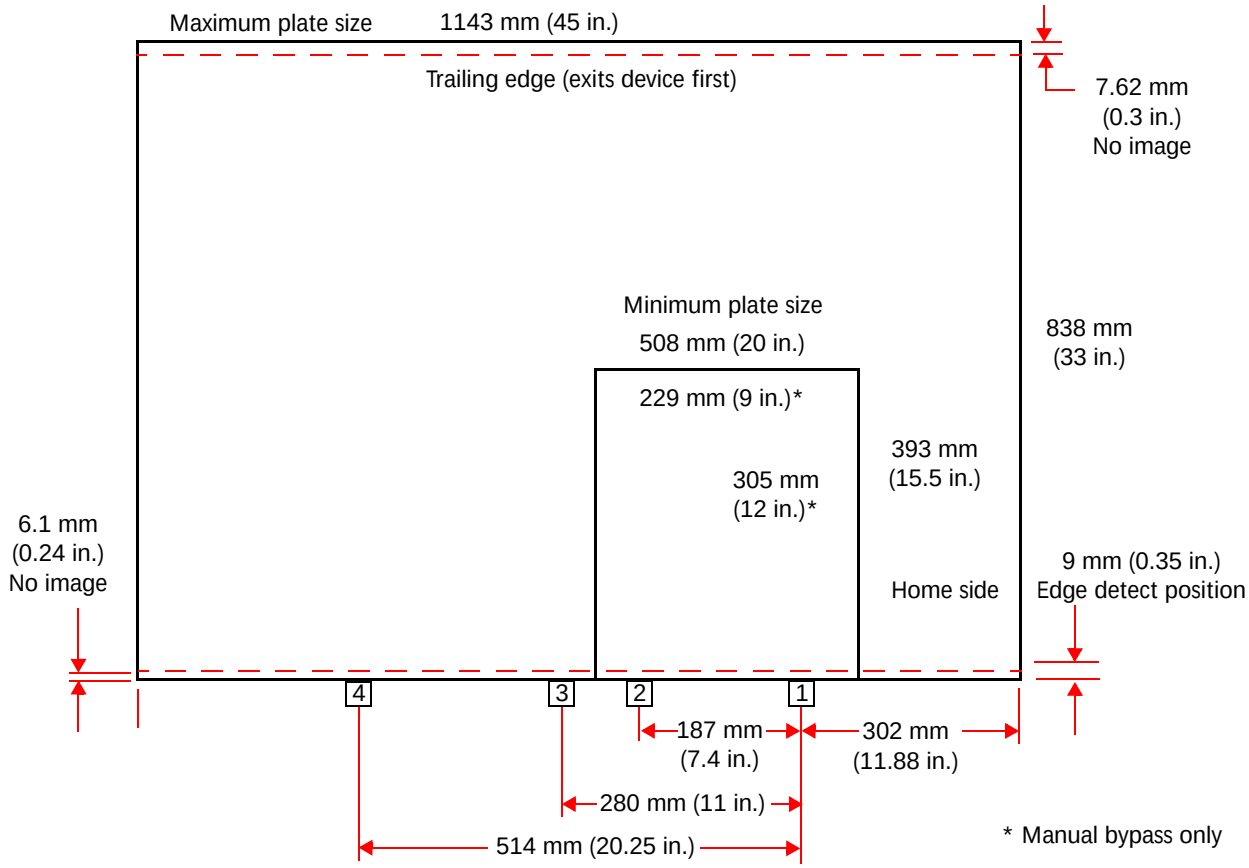


Figure 13: Plate registration points

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

Shipment and Delivery

Responsibilities

The customer must provide Kodak with delivery instructions and the customer must transport all of the shipping crates to the installation location and unload the shipping crates. However, the customer must not unpack the shipping crates. Kodak recommends that the customer use professional riggers to unload the crates. Dock level (a vertical distance from ground to dock of 1.2 m (4 ft.)) and the ability to accommodate a 15.9 m (53 ft.) trailer are required.

Kodak engineers will unpack the shipping crates and install the *Trendsetter* Autoloader Spectrum device.

Forklift

The customer must provide a forklift or crane with a minimum 1,365 kg (3,000 lb.) capacity for unloading the equipment. The width of the forks must not exceed 15 cm (6 in.) and the span must be 51 cm (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. Kodak recommends that the customer furnish a drawing of the route. See “Shipping Crates” on page 23 for maximum crate dimensions.

Once the components are uncrated, they may be moved through smaller doorways. See Table 1 on page 3 for the dimensions of individual components.



Note: 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 number of crates shipped with the output device varies, depending on the options ordered. Table 6 lists the individual dimensions (L x W x H) and weights of air-shipped crates. Table 7 lists the individual dimensions (L x W x H) and weights of ground-shipped crates.



Note: Output devices are shipped via ground from the factory to customer sites only in North America. The output devices are secured to wooden pallets, and wrapped in plastic and cardboard. Full wooden crates are used only for air shipments.

Table 6: Dimensions and weights of crates (air shipment)

Crate Contents	Length	Width	Height	Weight
Trendsetter Autoloader Spectrum (no rotator)	300cm (118 in.)	130cm (51 in.)	203 cm (80 in.)	1028 kg (2266 lb.)
Trendsetter Autoloader Spectrum (rotator)	300cm (118 in.)	130cm (51 in.)	236 cm (93 in.)	1078 kg (2377 lb.)
Workstation	Varies with configuration			
Debris removal cabinet	See the UDRC Site Preparation Guide (part number 725-00089A).			

Table 7: Dimensions and weights of crates (ground shipment)

Crate Contents	Length	Width	Height	Weight
Trendsetter Autoloader Spectrum (no rotator)[a]	289 cm (114 in.)	127 cm (50 in.)	180 cm (71 in.)	934 kg (2059 lb.)
Trendsetter Autoloader Spectrum (rotator)a	289 cm (114 in.)	127 cm (50 in.)	231 cm (91 in.)	984 kg (2169 lb.)
Workstation	Varies with configuration			
Debris removal cabinet	See the UDRC Site Preparation Guide (part number 725-00089A).			

a. Compact shipping option is also available. See the next section.

Compact Shipping Option

The compact shipping option is available for situations when the standard shipping crate for the *Trendsetter* Autoloader Spectrum output device is too tall to fit through a low point of entry to the customer site. When this option is ordered, the output device is crated at the factory with the unload table in the down position and the autoloader laid flat on top of the unload table. For output devices with a rotator, the rotator and unload table extension are removed and shipped in a separate crate.

Table 8 lists the crate dimensions and weights for the compact shipping option, and Figures 14 and 15 show the dimensions of the output device, with and without a rotator, after being uncrated but before being installed.

Table 8: Dimensions and weights of crates for compact shipping option

Crate Contents	Length	Width	Height	Weight
Trendsetter Autoloader Spectrum without rotator	289 cm (114 in.)	143 cm (56 in.)	180 cm (71 in.)	818 kg (1803 lb.)
Trendsetter Autoloader Spectrum with rotator	289 cm (114 in.)	201 cm (79 in.)	152 cm (60 in.)	868 kg (1913 lb.)
Additional parts	159 cm (62.6 in.)	88 cm (34.6 in.)	99 cm (39 in.)	113 kg (249 lb.)

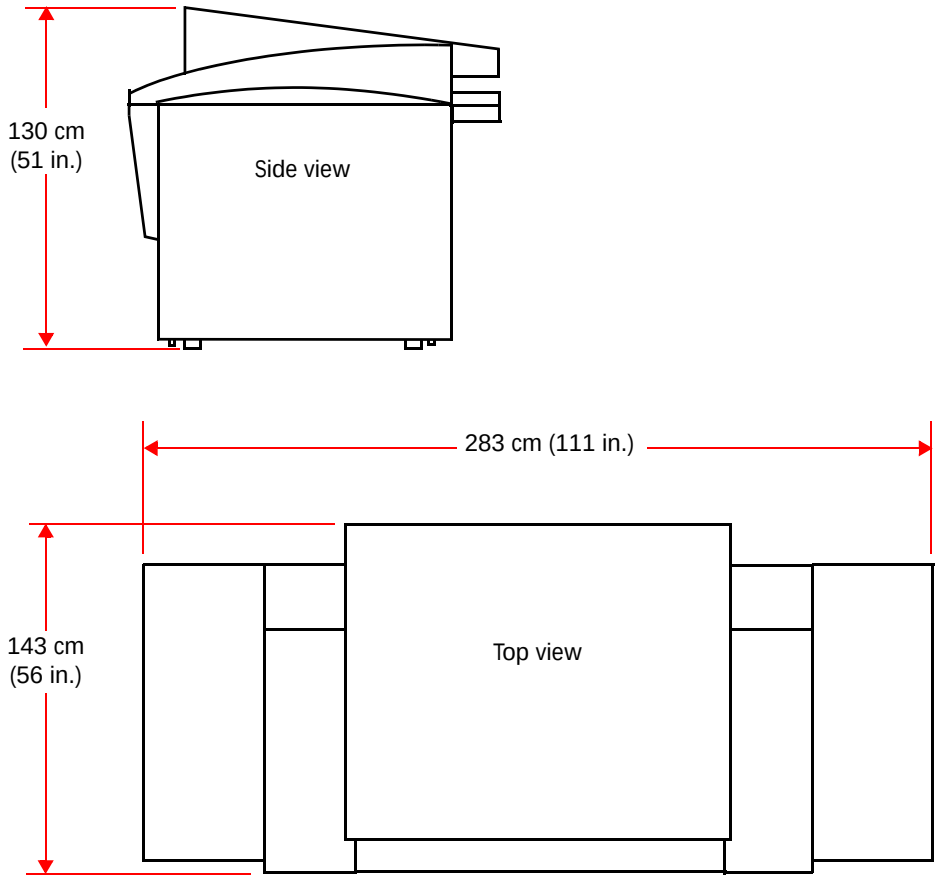


Figure 14: Trendsetter Autoloader Spectrum (no rotator)—uncrated compact shipping dimensions

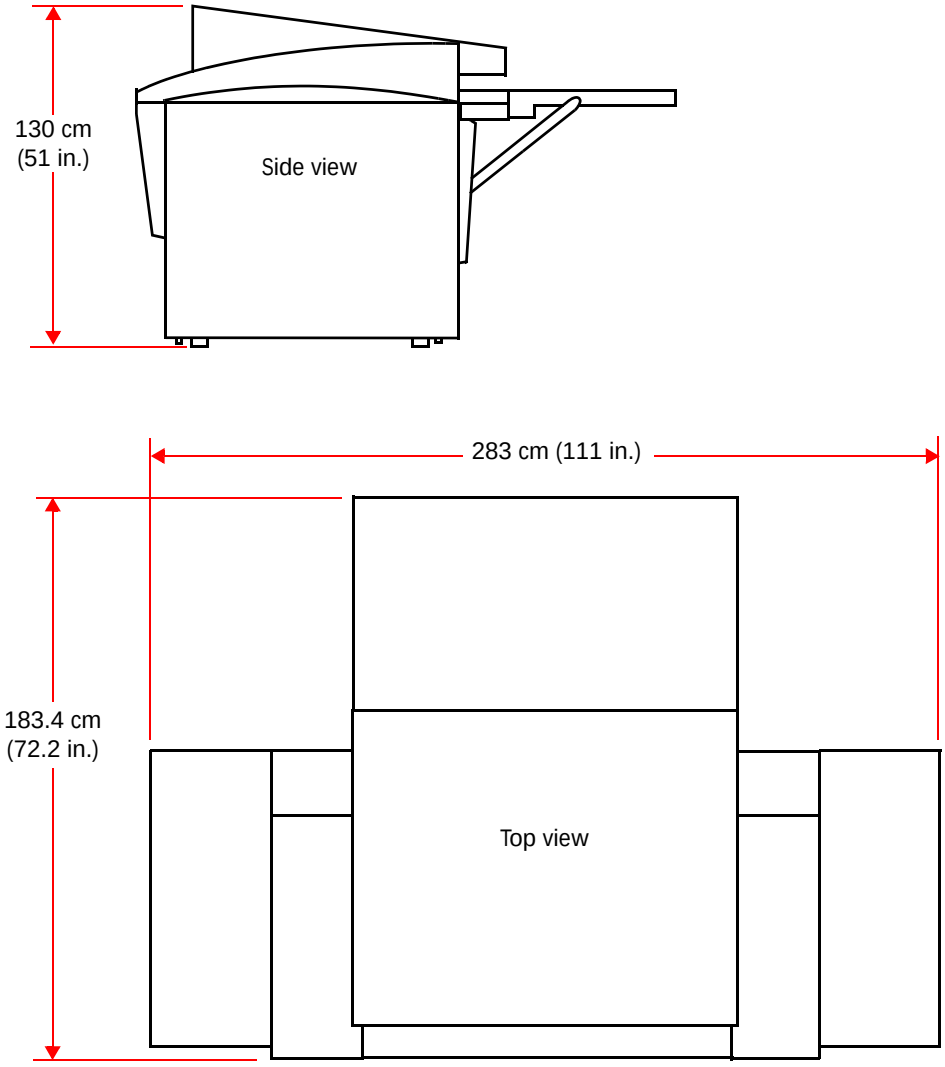


Figure 15: Trendsetter Autoloader Spectrum (rotator)—uncrated compact shipping dimensions

A

Notice—Airborne Emissions

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 a particular media, 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.



WARNING: Unauthorized repairs and modifications made to the UDRC may result in electrical shock and/or exposure to airborne emissions in excess of applicable regulatory limits, which in turn, could result in possible discomfort, illness, injury, and/or disability.

To help prevent contamination and to improve reliability of imaging, the Kodak 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 Kodak output devices and filtration units are located. The requirements to ventilation rate are contained in either the output device Site Preparation Guide or another applicable document.

Kodak cannot assure occupational safety under all operational conditions because of factors that are outside the control or knowledge of Kodak. 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 Kodak; in particular, media not qualified for use with a debris removal system or a filtration unit specified in the 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 Kodak 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 Kodak 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, Kodak 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. KODAK'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 preparation guide or other similar document is a promise or guarantee of a particular level of performance, and neither this notice nor the site preparation guide 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.

B

Site Inspection Checklist

Full completion of this checklist will greatly assist in building, delivering, and installing the *Trendsetter* Autoloader Spectrum system.

Site Information

Company name: _____

Site address:

Shipping address:

Directions to site:

Nearest airport:

Local hotels:

Local restaurants:

Contact Information

Primary contact name: _____

Position: _____

Telephone/fax: _____

E-mail: _____

Secondary contact name: _____

Position: _____

Telephone/fax: _____

E-mail: _____

Prepress manager: _____

Maintenance manager: _____

Network manager: _____

Device operators: _____

_____

_____

_____

General background and computer skills of operators:



Note: All operators must be capable of running a personal computer with a *Microsoft Windows* operating system. If there more than three operators must 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: _____

Plates Supported

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

Measurements are in:

☐ mm ☐ in.

Media manufacturer[a, b]	Media name	Press type	Plate size (width, height, and thickness)	Portrait or landscape	Average # of plates per day	Average length of press run	Type of work (4-color; spot color; AM halftones; *Kodak Staccato*; text only)

a. Kodak-approved media only. Imaging speed can be affected if media sensitivity or processing is inconsistent with Kodak qualification testing. See your service 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.

What is the current proofing workflow?

Will a plate punch be used?

☐ Yes ☐ No

Is the punch sharp and in good condition?

☐ Yes ☐ No

Are there any burrs or oil on the punch?

☐ Yes ☐ No

Punch name and model: _____

Installation date: _____

Comments on punch condition:

Will a plate bender be used?

☐ Yes ☐ No

Plate bender name and model: _____

Installation date: _____

What is the registration method for the punch/bender?

☐ Optical ☐ Edge ☐ Other

If an optical punch/bender will be used, are the targets positioned in the imaging area of the plate?

☐ Yes ☐ No

If an edge or hole punch/bender will be used, are the targets positioned in the imaging area of the plate?

☐ Yes ☐ No

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

☐ Yes ☐ No (explain below)

Comments:

Will pre-punched plates be used?

☐ Yes ☐ No

Do the pre-punched plates have any oil or other debris on them?

☐ Yes ☐ No

If yes, send digital photos to your local product support specialist for advice on quality and suitability.

Press(es) Supported

Press manufacturer name and model: _____

Processor Supported

Processor name and model: _____

Delivery date: _____

Entry size of processor _____

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

☐ Yes ☐ No

Comments:

Other Kodak Equipment on Site

Are any other Kodak products already installed?

☐ Yes ☐ No

Comments:

Will Kodak install other new equipment during the output device installation?

☐ Yes ☐ No

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

Non-Kodak Equipment in Prepress room

Are any non-Kodak products already installed in the prepress room?

☐ Yes ☐ No

Comments:

Planned Installations Nearby

Will any other new equipment be installed in the vicinity of the device (for example, a processing line)?

☐ Yes ☐ No

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

Output Device Configuration

Model of *Trendsetter Spectrum* Autoloader output device (check all that apply):

☐ 400 II ☐ 800 II ☐ Quantum

☐ S ☐ F ☐ V

☐ Rotator ☐ Chemistry-free

Type of workstation ordered: _____

Type of workflow ordered: _____

Site Requirements



Note: Install the device in a clean prepress area.

1. Is there sufficient space for the device? Measure the available space at the site location. (See “Footprint and Working Area” on page 8.)

   ☐ Yes ☐ No

   Comments:

2. Will the workstation be situated next to the output device?

   ☐ Yes ☐ No

   Comments:

3. If the workstation will be situated farther away from the device than 7.6 m (25 ft.), has the customer ordered the appropriate extended-length cables (see “Cables, Connectors, and Receptacles” on page 4)?

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

   Comments:

5. Does the customer know that they are responsible for transporting shipping crates from their shipping dock to the installation area?

   ☐ Yes ☐ No

6. Does the forklift to be used meet requirements? (See “Forklift” on page 22.)

   ☐ Yes ☐ No

7. Will the doors and hallways between the shipping dock and the installation allow passage of the shipping crates? (See “Doors and Hallways” on page 22.)

   ☐ Yes ☐ No

   Comments:

8. Can the receiving area accommodate a typical air-ride truck—that is, does it have dock level? (See “Shipment and Delivery” on page 22.)

   ☐ Yes ☐ No

   Comments:

9. What is the expected temperature range in which the device will be used?

   Temperature range: _____

10. Can the room’s temperature control system handle the heat load generated by the device and processor line? (See “Heat Output” on page 15.)

    ☐ Yes ☐ No

Comments:

11. What is the expected humidity range in which the device will be used?

    Humidity range: _____

12. Can the room's humidity control system handle the moisture load generated by the processor line?

    ☐ Yes ☐ No

    Comments:

13. Is the installation area flat to the required specification? (See "Floors" on page 13.)

    ☐ Yes ☐ No

    Comments:

14. Is there large machinery or a forklift throughway inside the site, or any traffic or industry near the site that may transmit vibration to the device?

    ☐ Yes ☐ No

Comments:

15. What are the AC mains voltages?

AC mains voltage for workstation: _____

AC mains voltage for device: _____

16. Does the site's power supply experience brown-outs or voltage spikes?

☐ Yes ☐ No

Comments:

17. Is power conditioning required?

☐ Yes ☐ No

If yes, has a line conditioner been ordered?

☐ Yes ☐ No

18. Is a UPS required?

☐ Yes ☐ No

If yes, has the UPS been ordered?

☐ Yes ☐ No

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

☐ Yes ☐ No

Comments:

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

☐ Yes ☐ No

Comments:

21. Does the air supply flow, (tested using air supply gauge (92-0401A) , meet specifications? (See “Air Supply Pressure Qualification Procedure” on page 17.)

☐ Yes ☐ No

Record the test results below.

Air supply qualification test results

Part number of measurement tool: _____

First Test	
Time on	Pressure
10 sec.	
20 sec.	
30 sec.	
40 sec.	
50 sec.	
60 sec.	

Second Test	
Time on	Pressure
10 sec.	
20 sec.	
30 sec.	
40 sec.	
50 sec.	
60 sec.	

Third Test	
Time on	Pressure
10 sec.	
20 sec.	
30 sec.	
40 sec.	
50 sec.	
60 sec.	

22. Is the air supply filtered and dried as per specification? (See “Air Supply Pressure Qualification Procedure” on page 17.).

☐ Yes ☐ No ☐ Prefilter ordered

Comments:

23. Are the voice and data telephone or broadband Internet connection lines installed?

☐ Yes ☐ No Modem number: _____

Comments:

24. What type of network connection is used?

_____

25. What three consecutive TCP/IP addresses will be used for the device MCE/workstation/RAS connection? (See “Network” on page 19.)

1. _____
2. _____
3. _____

Follow-up

Is follow-up required?

☐ No The location described in this document meets all criteria for a timely and successful installation of the *Trendsetter* Autoloader Spectrum device.

☐ 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 site preparation inspection was performed on _____ by a representative of Kodak and witnessed by at least one representative of the customer.

Kodak representative: _____

Signature: _____

☐ The Customer understands and hereby agrees to the requirements outlined in the Universal Debris Removal Cabinet Site Preparations and Requirements document (part number 725-00089A), including any appendix attached thereto, as acknowledged by the Customer's signature herein or, alternatively, by the customer's signature on a Sales Agreement, Customer Agreement, Service Agreement, Order Form, or similar applicable document.

Customer representative: _____

Signature: _____

Mail a copy of the completed and signed Site Inspection Checklist to:

North America

Sales Order Management

Kodak

3700 Gilmore Way

Burnaby, B.C.

V5G 4M1