

Site Requirements for the Matan Spot36 printer

Installation and Training Timetable



We recommend that you allow sufficient time after the completion of the training process, to allow your operator to get acquainted with the Spot, prior to scheduling demonstrations or committing to production.

Installation and training are scheduled for three (3) working days and divided into three parts:

Basic installation and adjustment (One working day):

This part will include unpacking, site installation and various connections such as power and air, as well as adjusting the printer. Matan's service engineers will carry out this work.

Basic training (One working day):

This part will include basic instruction in operation and in routine maintenance of the printer. This part will be carried out together with the customer's Spot operator.

Practice (One working day):

During this period, the operators will train in the operation of the Spot under the supervision of Matan's Service engineers.

Site Preparation:

Environmental Requirements

The delivery area

- An empty receiving area of 10 sqm (108 sq/ft) is required in order to lift the printer from the delivery truck and rotate it for transporting to the site.
- Net printer dimensions: width-164 cm (416 in), length-153cm (388 in), height-101cm (256 in), weight-660kg
- Gross printer Dimensions: width-190cm (482 in), length-190cm (482 in), height-145cm (368 in), weight-815kg.

The site area

- You will need an electrical screwdriver with a Philips head (recommended), Allen key #6 & #4 in order to remove the printer from its box/crate.
- The site should be equipped with a PC, chiller, vacuum cleaner & a compressor – these units are NOT provided with the printer (details of which are to be found later in this chapter).
- The room must be free of dust, dirt and powder of any kind. Specifically: metal or wooden scraps and pieces. Please make sure that the printer is not placed near cutting machines of any sort, grinding machines, sawing machines or any dust

making machines. A dusty environment can cause damage to the print heads by creating scratches. Matan will not be held responsible for damage to the printing heads as a result of a dusty environment.



Keep the box, all the nuts, bolts, washers and spot washers - for future transportation, or for moving the printer !

Floor Requirements

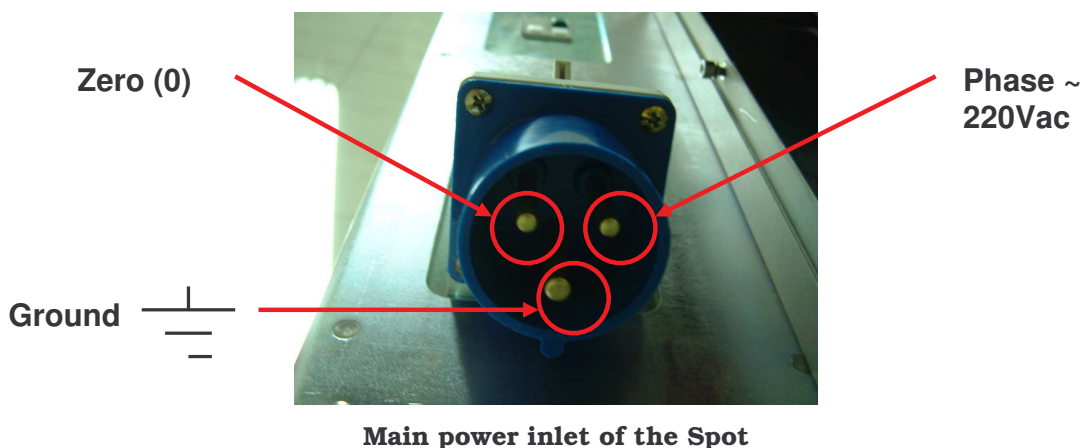
It is recommended that the floor ***should not be made of wood*** and should be covered with an anti-static carpet.

Preliminary Site Preparation for the Spot

Power Connection:

The site should be equipped with the following electrical requirements:

- **Power Consumption:** 24A (Max.)
- **Electrical Input:** 220-230 VAC, 50/60 Hz, Single phase!!!



- **Circuit Breaker:** The printer electrical input should be protected by a 25A circuit breaker.

Remark: Countries using 110Vac should use a transformer to convert the main power to 220Vac. **Using 2 phases of 110Vac instead of one phase of 220Vac will disable all safety components and could be dangerous!!!**

For questions and comments you may contact our tech. Support dept. at: support@matanprinters.com

- **Power Connection:** the printer is supplied with a male power connector as shown in the picture below:



- The female connection (supplied with the printer, inside the tool box, and shown below) should be connected to the power box by an authorized technician:



Air Pressure Requirements

The site should be equipped with an air compressor and air dryer as per the following specification:

Air pressure	Dry air, 5.5 - 10 Bar (87-174psi)
Air supply flow rate	50 ltr/min (13.2 gllon/min)

- The site should be equipped also with an air service unit.

Example of the air service unit and the connection diagram is detailed below:



Air service unit

- The air must be clean, dry and at the correct pressure. It's recommended to install an air dryer between the compressor and the Spot printer in order to prevent water/liquid from going into the pressure system.
- The air compressor and the air dryer should be connected to a separate phase from the printer.
- The humidity in the room should be between: 50% to 70%.
- The room temperature must be between 21c to 28c (68-83F), using air conditioning if needed.



Air service units are available from Matan at an additional cost. See your local dealer for pricing & delivery.

Vacuum Requirements:

The site should be equipped with a vacuum pump (High flow) with the following specification:

Vacuum level	48in/ Water (120 mbar)
Vacuum flow	46CFM (78m³H)
Max. power	1500W

Temperature Control System (TCS) Requirements:

The site should be equipped with a chiller. The Temperature Control System, TCS, (liquid) maintains the temperature of the Print Heads within a preset range of +/- 2°C (+/- 35°F) during the printing process.

Temperature Control System:

Below are the specifications for implementing a chiller:

- Cooling capacity: 5,000 BTU/Hr min
- Liquid Outlet temperature: 15°C (59°F)
- Liquid desired: distilled water.
- Flow rate: 5 – 10 GPM
- Max. Liquid Flow Rate Input: 3bar/ 44psi
- Chiller location: Indoor 3-5M (10-16 feet) from the Printer.

Connection requirements (tubes):

- Inlet: flexible tube - Outside Diameter 8mm (0.31in), Inside Diameter 6mm (0.23in)
- Outlet: flexible tube - Outside Diameter 8mm (0.31in), Inside Diameter 6mm (0.23in)



- We recommend that you consult with your local chiller provider for the above requirements. You may see more information at: <http://www.liquidchillers.com>

PC Requirements:

The site should be equipped with a PC / Laptop in order to control the printer as per the following min. specification:

- Window XP.
- Pentium 4, 3GHz.
- H.D. 40G, 7200rpm.
- Support USB 2.0.
- RAM memory – 512MB /DDR.
- CD drive – Min. x 52
- Network card – recommended.
- Video card - recommended.
- Antivirus software – recommended.

Site area:

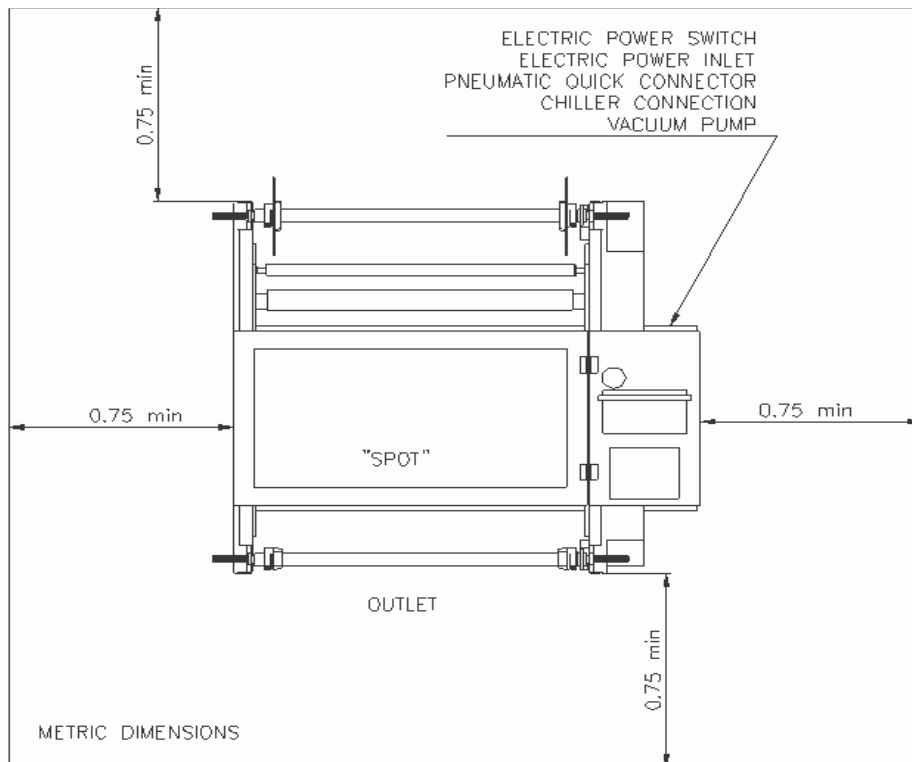


Figure 1: Spot Site Location

Consumables:

Each printer is delivered with the following Starter Kit:

- 2 resin ribbons, spot color – 300m (984 feet)
- 1 rolls of media – 50m (162 feet).

In addition, each site must prepare an appropriate consumable stock of both ribbons and media

Site Preparation - End user statement

Dear customer, Thank you for reading Matan's Site Requirements for the Spot printer. We would like you to fill in this document and email it (or fax it) to your local distributor and to Matan at: support@matanprinters.com, Fax: +972-3-9002721.

Please be aware that Matan's technical staff will not be able to arrive on site for installation & training until this form is sent back to Matan for our approval.

Please note that the specifications are according to the user manual and Site Requirements docs of the Spot printer	Have it on site?	
	Yes	No
Availability of a Forklift (for unpacking the printer from its box).	<input type="checkbox"/>	<input type="checkbox"/>
Receiving area – empty space of at least 10 sqm (108 sq/ft) for the printer and the installation - according the spec.	<input type="checkbox"/>	<input type="checkbox"/>
Clean and leveled ground, Static-proof and dust-proof floor	<input type="checkbox"/>	<input type="checkbox"/>
The temperature & humidity at the installation site are: Temperature: 21-28 C° (68-83 F) Humidity: 50%-70% (not condensing)	<input type="checkbox"/>	<input type="checkbox"/>
Power output, Electrical input & Power connection on site should are: 230± 10V AC, Single phase / 24A	<input type="checkbox"/>	<input type="checkbox"/>
Air pressure on site: Air Pressure: Dry air, 5.5 - 10 Bar (87-174psi), Max: 120 PSI (8.4 kg/cm2) Air supply flow rate: 50 ltr/min (13.2 gallon/min)	<input type="checkbox"/>	<input type="checkbox"/>
The site equipped with a PC / Laptop with the above Min. specification	<input type="checkbox"/>	<input type="checkbox"/>
The site equipped with a vacuum cleaner with the spec. above	<input type="checkbox"/>	<input type="checkbox"/>
The site equipped with a Chiller according to the spec. above	<input type="checkbox"/>	<input type="checkbox"/>
I know that the training is in the English Language.	<input type="checkbox"/>	<input type="checkbox"/>
Someone who speaks & reads English fluently will be present during training & installation.	<input type="checkbox"/>	<input type="checkbox"/>
Does the operator have experience with inkjet/thermal printers? Please specify which ones? _____	<input type="checkbox"/>	<input type="checkbox"/>
Does the operator have knowledge about RIP software? Please specify which ones? _____	<input type="checkbox"/>	<input type="checkbox"/>
Does the operator have knowledge of any graphics & design software? Please specify which ones? _____	<input type="checkbox"/>	<input type="checkbox"/>
Please specify types (brand & model) of substrates you will use on the Spot printer: Media types? _____	<input type="checkbox"/>	<input type="checkbox"/>

Customer info

Company name: _____ Full Name: _____
 Full address: _____
 Phone No.: _____ Fax No.: _____ Email: _____
 Date: ____/____/____ Signature: _____