

# **Professional Checklist**

**Rev: 4**

## **Operating Environment**

Operating Temp.	15-32°C
Humidity	40% to max. 70% , not condensing
Size of Room	min. 4,5m x 4m
Entry	Door width min. 2 meter
Floor stability	Minimum of 1400 kg (laser,chiller,exhaust,material,operator)
Air Pressure	1-10 bar, clean and dry, oil free
Forklift	It is easiest to use 2 pallette jacks to move the machine, but a forklift with a minimum 3500kg capacity with a minimum of 2,5m forks can also be used.

## **Power available at customer location**

Voltage	
Phases	
Frequency	
Fuses (Amps, characteristic)	

## **Laser Electrical Requirements**

Laser Power	65W	100W	200/240W
Voltage	230V, 1ph	230V, 1ph	380/400V, 3 ph
Fuse	2x16A slow	2x20A slow	3x25A slow
Frequency	50Hz	50Hz	60HZ
Phases	L, N, Ground (solid neutral is required)	L, L , N, Ground (solid neutral is required)	L1,L2,L3,N, Ground L1 - N: 220/230V L2 - N: 220/230V L3 - N: 220/230V and L1 - L2: 380/400V L2 - L3: 380/400V L3 - L1: 380/400V (solid neutral is
Min. Cable length from supply to laser	5m	5m	
Power consumption	1300W	2600W	
Required cable at customers location	3x1,5mm²	4x2,5mm²	

			required)
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### Chiller Electrical Requirements

Laser Power	65W	100W	200/240W
Voltage	230V, 1ph	230V, 1ph	230V, 1ph
Fuse	1x13A slow	2x13A slow	2 x 15A slow
Frequency	50 Hz	50 Hz	50 Hz
Phases	L, N, Ground	L, L, N, Ground	L, L, N, Ground
Power consumption	1250W	2000W	5045W
Water	deionised	deionised	deionised

### Exhaust Electrical Requirements (order exhaust with right frequency and voltage)

	Vent 2000	Vent 3000	Vent 4000
Voltage	230V, 1ph <b>or</b> 400V, 3ph	230V, 1ph or 400V, 3ph	230V, 3ph or 400V, 3 ph
Motorpower	0,75KW	1,5KW	3KW
Frequency	50HZ	50HZ	50HZ
Phases	L,L,N,Ground <b>or</b> L1,L2,L3;Ground	L,L,N,Ground <b>or</b> L1,L2,L3;Ground	L1,L2,L3;Ground
Plug-Type	Direct	Direct	Direct
Motor protection switch	0.55 – 2.2 KW	0.55 – 2.2 KW	3.00 – 5.5 KW
Start/Stop box	yes or no	yes or no	yes or no

### Exhaust Environment internal

Exhaust port diameter	Connector with 160 mm diameter - <b>fire resistant metal tubing</b>
Airflow rate	2000m³/h - 4000m³/h, recommended 3000m³/h
Pressure	1700 - 3300 Pa, recommended 2200m³/h
Laser with vacuum table	3000m³/h required for proper suction
Exhaust Intake size	160mm for Vent 2000 and 3000, 250mm for Vent 4000
Exhaust Outlet size	160mm for all Vent models

### Computer Requirements for customer PC

Minimum Computer Configuration
<ul style="list-style-type: none"> <li>• Pentium 1000 MHz or faster</li> <li>• 128 MB of RAM or more</li> <li>• 2 Gigabyte hard drive or bigger</li> <li>• 17 inch colorVGA monitor or larger</li> <li>• 3.5" floppy disk drive</li> <li>• CD-ROM Drive</li> <li>• Mouse or other pointing device</li> </ul>

- Microsoft Windows XP, 2000 or NT
- 600 DPI Optical Resolution Scanner (recommended)
- Serial Port RS 232 when working with Alphacam and/or iCut
- USB

**Optional: computer preinstalled with**

Trotec Job Control Software Trocarn Software Remote software (optional ) Windows XP Professional (English)	
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**Software recommendation**

CAD / CAM Graphics	Auto CAD 2002lt,2000lt,2005lt , Trocam Corel Draw 9 or higher
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**Power stabilisator**

**done from**

**Signature**

Tests of stability of Power before installation, to avoid damages of laser power supply; recommended. Customer is responsible for power loss		
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**Responsibilities of customer**

**organized**

**Signature**

Electrician on site available during installation  Standard installation material during installation		
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**Option: Pre-Installation Visit**

visit from a Trotec- Technician before Installation to go through all necessities of exhaust, electricity, etc.	On customers demand (will be charged)	
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**Application samples and material**

Forwarded to Trotec for testings		
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Materials and sample jobs are available for the training		
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Training	Names	Date
Installation and training from trotec technical support	Yes      No	<hr/> Date of training organized from customer service and technical support

#### Recommended Spare Parts

Lenses (2.5 or 5 in.) mirrors cleaning set		
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#### Remote maintenance

Line type Line Speed		
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Date , Signature Customer

Date , Signature Trotec Salesmanager