Printer Specifications

GS5000r General Printer Specifications

Purpose: Machine specifications should be used by customers and Field Service Engineers during initial phases of printer logistics planning.
Applies to: GS5000r
Number: VAB-00364 - K
Date: August 25, 2009

For general information and requirements that apply to all EFI-VUTEk printers regardless of model, please see EFI-VUTEk's *Customer Support Information Guide,* located online at http://www.vuteksupport.com/doc.php?doc=681 and the *Basic Printer Safety Guide*, online at http://www.vuteksupport.com/doc.php?doc=683.

Size and Weight

This section contains the uncrated specifications for the GS5000r printer. The standard unwinder and rewinder ship separately from the printer.

Uncrated

Table 1: Uncrated Printer Specifications

	SAE	Metric
Height	75.1"	190.75 cm
Length	342.35"	869.59 cm
Width	68"	172.7 cm
Weight	8,910 lbs.	4,042 kg

Palleted

Table 2: Palletized Printer Specifications

	SAE	Metric
Height	88"	246.4 cm
Length	348"	883.9 cm
Width	76"	193 cm
Weight	11,500 lbs.	5,217 kg

Palleted and Crated Printer

Table 3: Palletized and Crated Printer

	SAE	Metric
Height	95”	246.4 cm
Length	348”	883.9 cm
Width	76”	193 cm
Weight	12,815 lbs.	5,813 kg

Rear Unwinder

Table 4: Rear Unwinder Specifications

	SAE	Metric
Height	18”	45.7 cm
Length	236”	5.99 m
Width	33”	83.8 cm
Weight, uncrated	785 lbs.	356 kg
Weight, crated	1,575 lbs.	714.41 kg

Front Rewinder

Table 5: Front Rewinder Specifications

	SAE	Metric
Height	20”	50.8 cm
Length	238”	6.04 m
Width	30”	76.2 cm
Weight, uncrated	507 lbs.	231.3 kg
Weight, crated	1,032 lbs.	469 kg

Floor Space

The GS5000r requires adequate floor space to allow safe operation, including loading and unloading safely. The following table indicates the minimum floor space required for the GS5000r printer, as well as the additional space required for loading media and removing the printed media. Also see Recommended Printer Working Clearances.

Area

Table 6: Footprint and Additional Area Requirements

	SAE	Metric
Minimum	40.47’ x 24.85’	12.33 x 7.57
Additional Space	See Recommended Printer Working Clearances	

AC Power Specifications

Because of variances in local codes, a power cable is not included with the printer and must be supplied by the customer. Size shall be determined by local code requirements. A licensed electrician should ensure that your printer’s dedicated power source meets or exceeds the printer’s requirements.

Note: Measure Phase to phase and each phase to ground. The phase to phase voltage difference must be less than 10% and each phase to chassis ground voltage difference must be less than 10%.

Table 7: Electrical Power Requirements

Value	Requirement
VAC, 50/60 Hz, three-phase	200-230 VAC Delta, 60A 400-460 VAC, 30A
Peak rated current	60 Amps
Peak power consumption	21.4 KVA
Continuous power consumption	11 kw

Three Phase Configurations

The following figure outlines US and European 3-Phase electrical configurations.

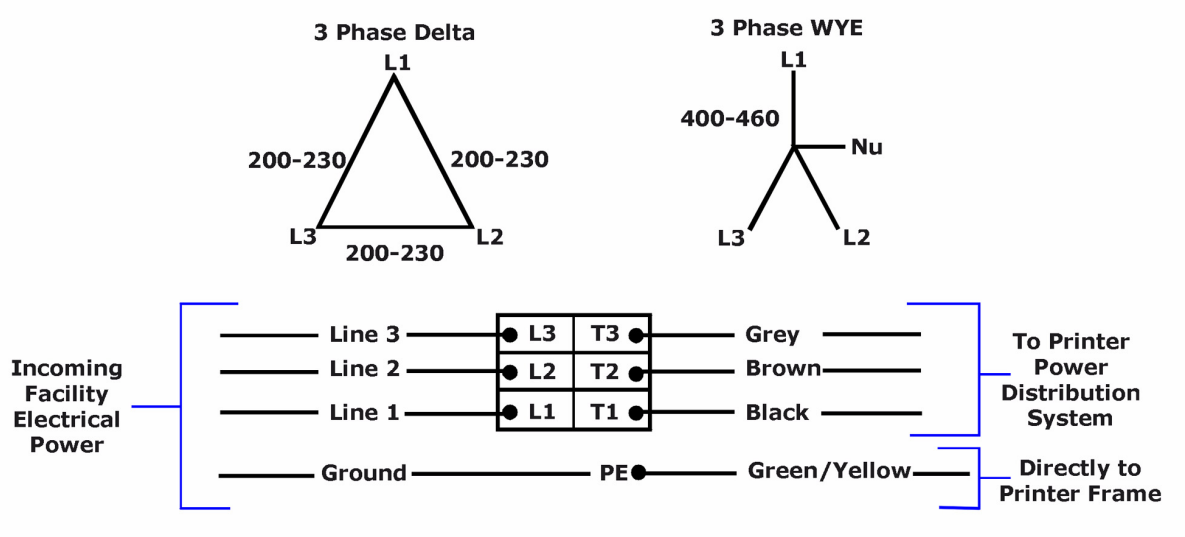

Figure 1-1: Three-phase electrical configuration

Compressed air

The following table outlines the minimum and maximum compressed air volume requirements.

Table 8: Compressed Air Volume Requirements

	SAE	Metric
Minimum	95 psi at 4 cf/m	6.7 kgf/cm^2
Maximum	150 psi	10.5 kgf/cm^2

For complete information about Compressed Air specifications, refer to the following document: http://www.vuteksupport.com/doc.php?doc=975.

Environmental

EFI-VUTEk does *not* supply a ventilation system for your digital printing system. However, EFI-VUTEk does require a ventilation system be installed for extracting ozone, ink particles, solvent fumes, and heat from the printing area.

Customers must maintain the following environmental conditions for the printer and the area in which it is installed.

Table 9: Environmental Specifications

Specification	SAE	Metric
Volume (at each of 3 exhaust collars)	500 cf/m	14.2 m3/min
Maximum under hood temperature	104° F	40° C
Ambient room temperature	68° F – 86° F	20° C – 30° C
Relative humidity (non-condensing)	30% – 80%	30% – 80%
Inches of water	1.5 – 2.0 inches	38 – 51 mm
Exhaust collar outside diameter (x3)	10.25 inches	26.0 cm

Emissions

The following emissions information assists your HVAC engineer when designing the printer's ventilation system.

VOC emissions

Table 10: VOC Emissions Information

Emission/Consumption	
Lbs. of VOC/liter of ink	Less than 0.1%
Lbs. of VOC/hour at maximum speed	Less than 0.1%
Particulate (mg per liter of ink)	15

Printer Dimensions - Front/Rear

This section contains photos and illustrations of the GS5000r showing its critical dimensions and an example of a typical GS5000r installation floor layout.

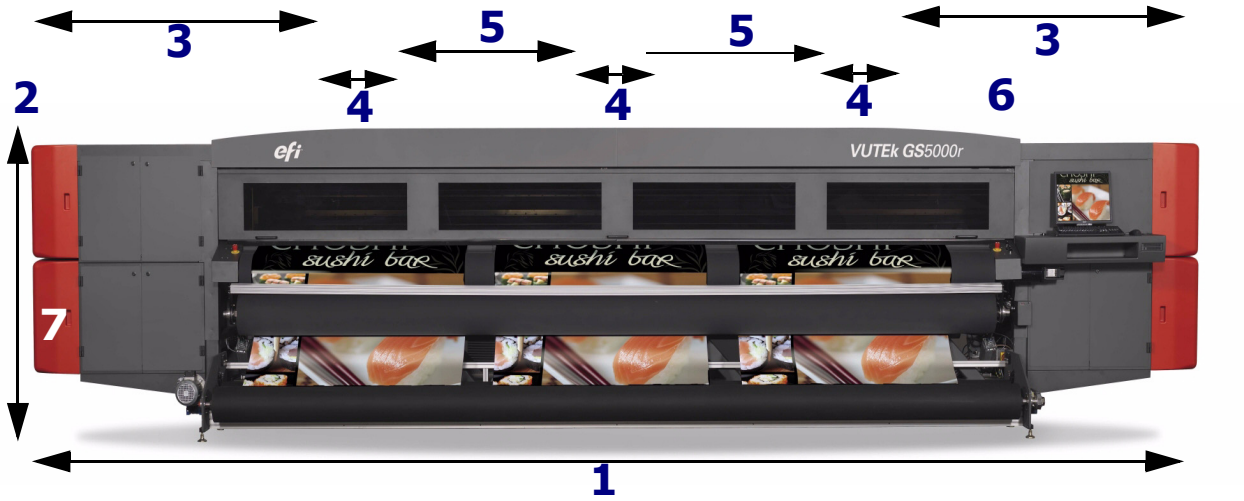

Figure 1-2: VUTEK GS5000r, Front view

Table 11: Printer Dimensions

Dimension - Front View	SAE	Metric
1-Overall Length	342.35”	869.6 cm
2-Height	78”	198.1 cm
3-Side to vent	85.175”	216.3 cm
4-Exhaust Vents Inside Diameter (3)	10”	25.4 cm
5-Between exhaust vents	71”	180.3 cm
6-Location of Incoming Electrical Power, top of printer, approximate		
7-Location of Incoming Compressed Air, behind end cover, approximate		

Printer Dimensions - Side

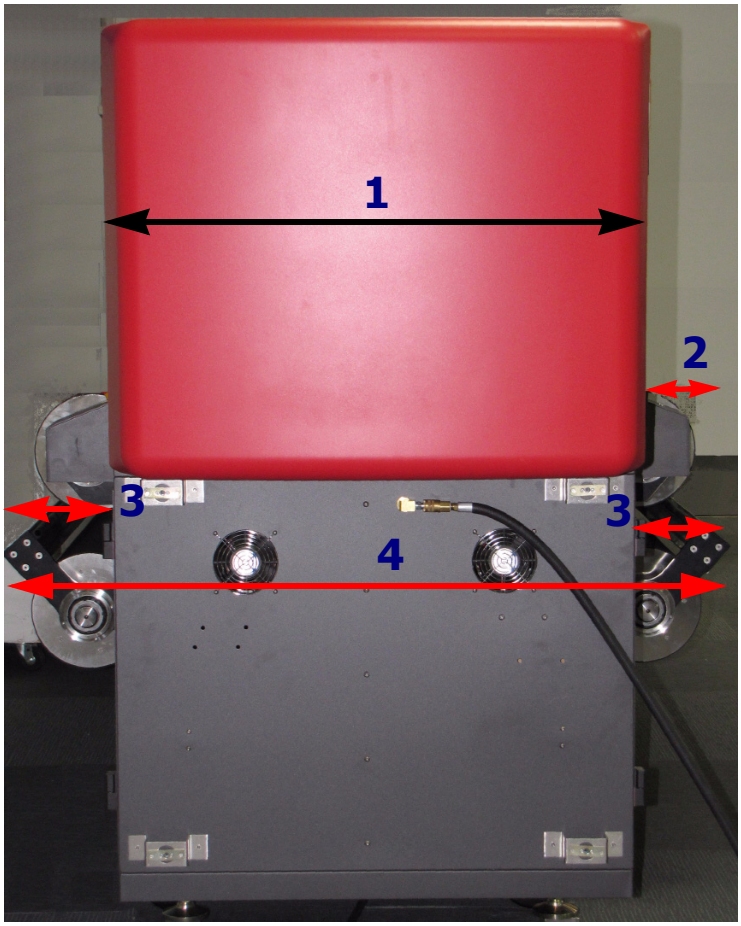

Figure 1-3: Printer end view, carriage side

Table 12: Printer Side View

Component	SAE	Metric
1-Depth, Chassis only	36.25”	92.1 cm
2-Monitor Shelf	14”	35.6 cm
3-Unwinder/Rewinder	15.0”	38.1 cm
4-Overall Depth	68”	172.7 cm

Facility Connections

The printer has several connections that must be made to your facility’s infrastructure: Power and Compressed Air.

Compressed Air

A source of incoming compressed air must be connected to the printer, shown next.

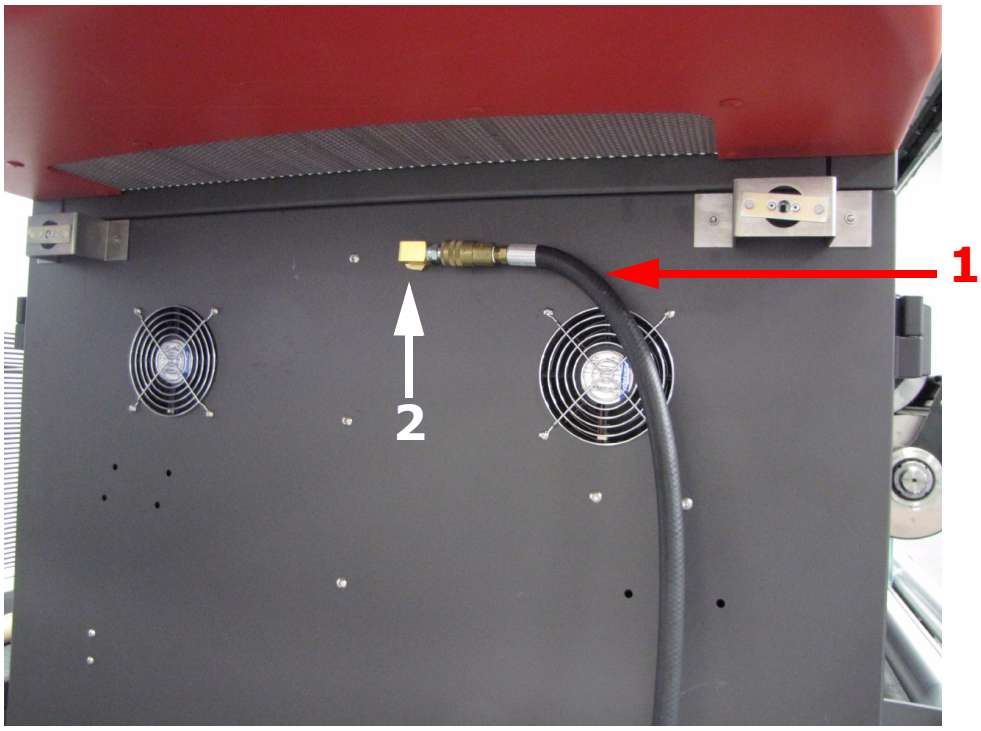

Figure 1-4: Compressed air connector, left side behind lower end panel

1	Customer supplied air line from facility air compressor
2	Air line connector, male fitting

Facility Electrical Power

A source of incoming compressed air must be connected to the printer, shown next.

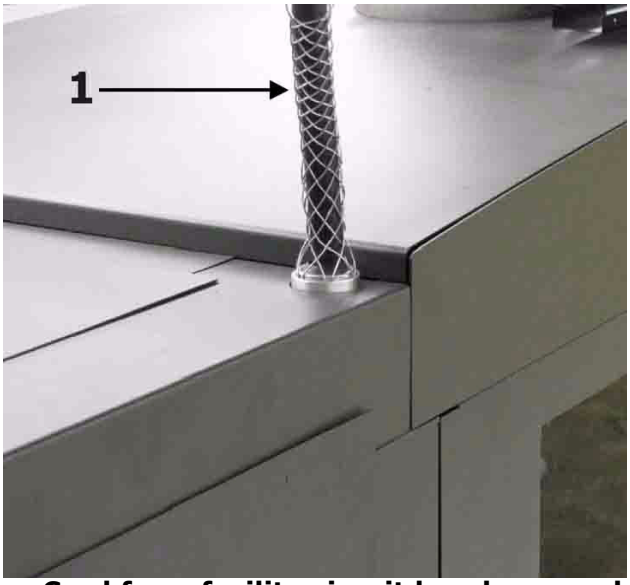

Figure 1-5: AC Power Cord from facility circuit breaker panel (1), top right rear

Recommended Printer Working Clearances

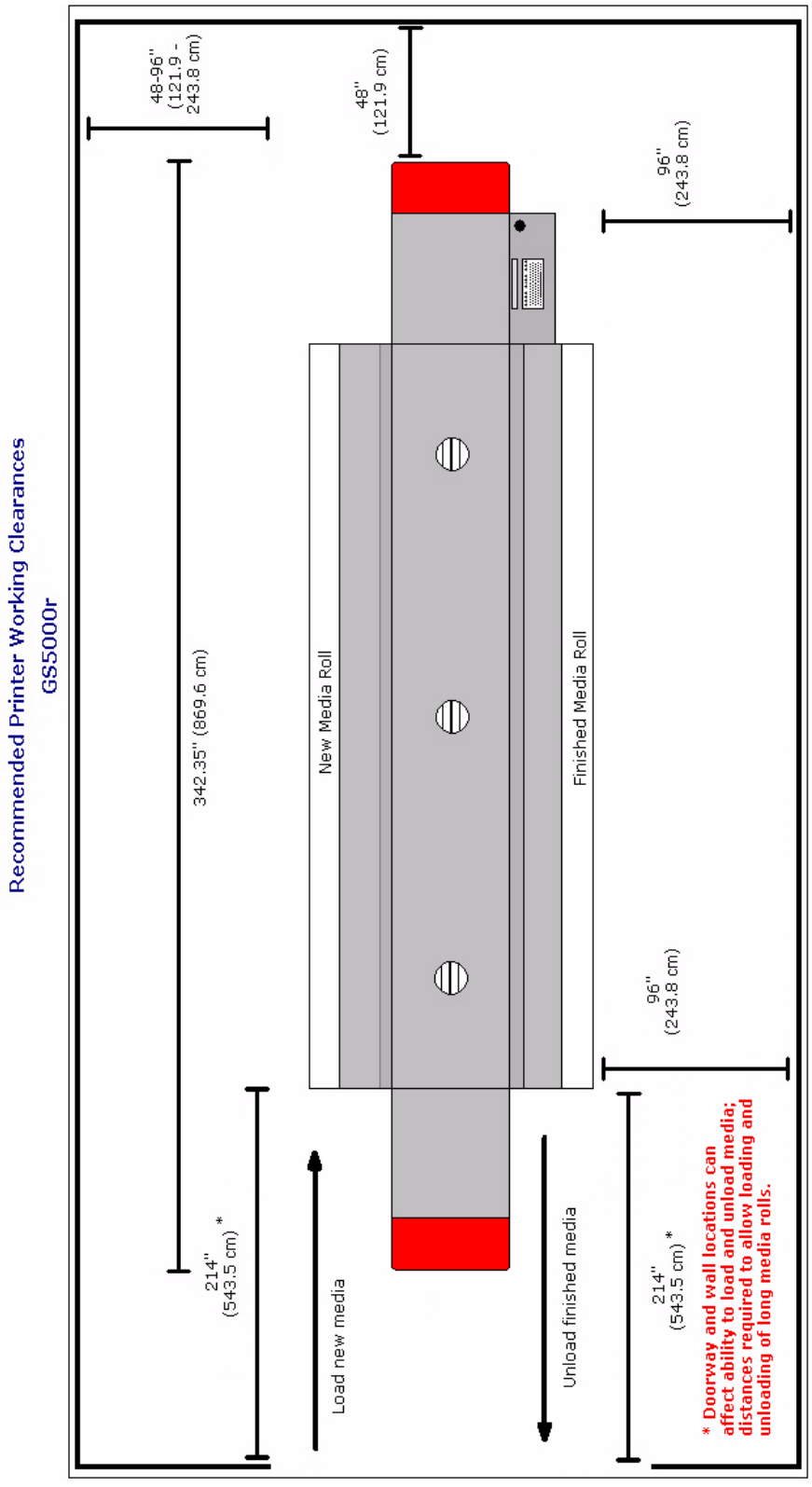

Figure 1-6: Printer Working Clearances

Specification Table

Table 13: General Specifications

Specification	All	SAE	Metric
Number of colors	8		
Print mode	Bidirectional		
Ink type	UV-based		
Print speed	Per hour	3100 ft^2	287.9 m^2
Maximum print width	3 roll setup	204”	5.2 m
Media			
Media Width	Min	40”	1.01 m
Media Width	Max	198”	5.02 m
Roll Weight	Max	882 lbs.	400 kg
Roll Diameter	Max	14”	35.56 cm
Print Gaps			
Linear Encoder gap		0.020”	
Print gap		0.060”	