

9 SuperMIG Specifications

This section contains SuperMIG electrical, gas and I/O requirements.

NOTE

GMAW power supply unit requirements must be added to the system electrical requirements in order to calculate the total electrical load.

Table 16: SuperMIG® WCM Specifications

Item	Specification
Power connection (power setting by manufacturer)	400/440/460 VAC 50/60Hz, 3 phases + neutral + GND - or - 208/230 50/60Hz, 3 phases + GND
Connection capacity	23 kVA @ 100 % duty cycle
Mains cable	5 x 10 mm ² , 5 meter length
Operating temperature range	41°F (5°C) to 113°F (45°C)
Storage temperature range	13°F (-10°C) to 131°F (55°C)
Welding gas pressure	7-8 bar (101.526 to 116.03 PSI)
Welding gas flow rate	<ul style="list-style-type: none"> Plasma Gas 1 - 7 LPM Shielding Gas 5 - 45 LPM Wire Gas 5 - 23 LPM (GMAW)
Welding gas type	Plasma Gas - Argon (welding grade) General/GMAW Shielding Gas – Customer Specified
Weight of SuperMIG® WCM	150 kg / 331 lbs.
Cooling Liquid Capacity	12 L (3.17 USG)
WCM external dimensions	Length: 1033mm, Width: 650 mm, Height: 1152 mm
WCM – Robot Cable	10 m / 32.8 ft. (see Figure 14, item 11) (open leads on “robot” side)
WCM – Hose Pack	10 m / 32.8 ft. (see Figure 14, item 4)
Protection standards	IP 54
Ambient temperature	<ul style="list-style-type: none"> Complete system during operation: 41°F (+5°C) to 113°F (45°C) Complete system during storage: 41°F (+5°C) to 131°F (55°C)
Relative humidity	<ul style="list-style-type: none"> Complete system, during operation: 10% to 90% at constant temperature 59°F (15°C), non-condensing Complete system, during storage: Maximum 90% at constant temperature 59°F (15°C), non-condensing
Electrode stand off	<ul style="list-style-type: none"> For 3.2 mm nozzle diameter, use 3.2 mm stand off from nozzle tip For 4 mm nozzle diameter, use 4 mm stand off from nozzle tip

NOTE

Custom-length cables are available by special order.