

Rogue EM 125

Portable MIG/MAG 120 V welding package



Rogue EM 125

ESAB Rogue EM 125 is an inverter-based MIG welding system designed to address all your welding project needs, from light fabrication to repair and maintenance. The system features industrial-grade arc performance and controls that allow the welder to fine tune arc characteristics based on the material they are welding.

With a weight of only 12.6 kg (27.7 lbs), single voltage 120V single-phase input and compatibility with 6 kVA generators, this system provides maximum flexibility and portability, both in the shop and in the field.

- Large 14 Segment Display – instantaneous feedback for both voltage and wire feed speed for clear viewing
- Unique rugged industrial design – supporting multiple lift points and cable management.
- IP23S rated for indoor/outdoor use

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Industry

- Automotive
- Automotive Bodies
- Civil Construction
- Mechanical Contractors
- Repair and Maintenance
- Light Fabrication
- Hobbyist



Control panel

Rogue EM 125

Specifications			
Mains Voltage	120 VAC \pm 10%, 1ph, 50/60 Hz		
Energy Save Mode	< 50 W		
MIG (GMAW) Welding Output	90 A / 18.5 V at 30%	64 A / 17.2 V at 60%	49 A / 16.5 V at 100%
Current Range	30 – 125 A		
Voltage Range	12 – 22 V		
Wire Dimensions, Mild Steel & Stainless Steel	0.6 – 0.9 mm (0.023 – 0.035 in)		
Wire Dimensions, Cored Wire (FCAW)	0.8 – 0.9 mm (0.030 – 0.035 in)		
Wire Feed Speed	2.0 – 11.4 m/min (75 – 450 ipm)		
Max Spool Diameter	100 mm (4 in), 200 mm (8 in)		
Open Circuit Voltage	50 VDC		
Efficiency at Max Current	> 80%		
Power Factor at Max Current	0.81		
Operating Temperature	-10 to +40°C (+14 to 104 °F)		
Protection Class	IP23S		
Certification Mark (Standards)	cETLus		
Dimensions L x W x H, incl. top handle	590 x 220 x 385 mm (23.2 x 8.7 x 15.2 in)		
Weight	12.6 kg (27.7 lbs.)		

Ordering Information	
Description	Part Number
Rogue EM 125 Welding System	0700301081

Delivery includes: 125A MIG/MAG power source, Integrated MIG Gun 3 m (10 ft), Contact tips 1 ea. 0.6 & 0.8 mm (0.023/0.030 in), Return cable kit, OKC 25 heavy duty, 3 m (10 ft), Gas hose with 5/8 in 18 RH fittings 3 m (10 ft), Feed rolls 0.6/0.8 mm (0.023/0.030/0.035 in) V/K, Instruction manual.

Accessories	
Description	Part Number
Return cable kit, OKC 25, 3 m (10 ft)	1444-1186
Gas hose with 5/8 in 18 RH fittings, 3m (10 ft)	0700400858
MIG Gun, 3m (10 ft)	1444-1178
Basic Utility Cart (Single cylinder)	1444-0900
Trolley 2-wheel with cylinder support	0460330881
Victor Argon Flow Gauge Regulator GF-250-50-580	0781-9411
Feed Roll, 0.6/0.8 mm (0.023/0.030 in) V	1444-1180
Feed Roll, 0.8/0.8 mm (0.030/0.030 in) V	1444-1181
Nozzle, 12 mm (1/2 in)	1444-1182
Contact Tip, M6X25, 0.9 mm (0.035 in)	1444-1183
Contact Tip, M6X25, 0.8 mm (0.030 in)	1444-1184
Contact Tip, M6X25, 0.6 mm (0.023 in)	1444-1185



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