

# Rogue EM 180

Portable MIG/MAG and MMA welding package



Rogue EM 180

ESAB Rogue EM 180 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 full featured controls that allow the welder to fine tune arc characteristics based on the material they are welding.

With a weight of only 16.2 kg, 230V single-phase input and compatibility with 10 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
- Synergic Weld Programs – full range of welding parameters, 0.5 – 8.0 mm with single knob control
- Power Factor Correction (PFC) – ensures a stable arc, resistant to power fluctuations even while working on long extension cables up to 100 m
- Unique rugged industrial design – supporting multiple lift points and cable management
- Arc Dynamics – fine tune arc characteristics for a crisp/stiff arc for carbon steel or a smooth/soft arc for stainless steel
- Spool Gun Ready – Rogue automatically configures set up when spool gun is connected.
- IP23S rated for indoor/outdoor use

Visit [esab.com](http://esab.com) for more information.

## Industry

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



Control panel



Control panel

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Specifications	
Mains Voltage	230 VAC $\pm$ 10%, 1ph, 50/60 Hz
Energy Save Mode	20 W
MIG (GMAW) Welding Output	180 A / 23.0 V at 25% 116 A / 19.8 V at 60% 90 A / 18.5 V at 100%
MMA (SMAW) Welding Output	150 A / 26.0 V at 25% 97 A / 23.9 V at 60% 75 A / 23.0 V at 100%
Current Range	30 – 180 A
Voltage Range	12 – 26 V
Wire Dimensions Mild Steel & Stainless Steel Cored Wire & Aluminium	0.6 – 1.0 mm 0.8 – 1.0 mm
Wire Feed Speed	2.0 – 16.5 m/min
Max Spool Diameter	100 mm, 200 mm
Open Circuit Voltage	78 VDC
Efficiency at Max Current	82.7%
Power Factor at Max Current	0.8
Operating Temperature	-10 to +40°C
Protection Class	IP23S
Certification Mark (Standards)	CE
Dimensions L x W x H, incl. top handle	590 x 220 x 385 mm
Weight	16.2 kg

Ordering Information	
Description	Part Number
Rogue EM 180 Welding System	0700301091

**Delivery includes:** 180A MIG/MAG power source with mains cable 16 A plug 3 m, MXL 201 MIG Torch Euro 3 m, Return cable kit, OKC 35-50 16 mm<sup>2</sup>, 3 m, Gas Hose with quick connect/open 4.5 m, ESAB OK AristoRod 12.50 0.8 mm 1 kg, ESAB GoldRox Electrode, 2.5 x 350 mm, 1 kg. Feed rolls 0.6/0.8 mm V (fitted), 0.8/0.9 mm V and 0.8/0.9 mm VK, Safety instruction.

Options & Accessories	
Description	Part Number
Trolley 2-wheel with cylinder support	0460330881
MXL 201 Gas-cooled Torch with Euro Connection, 3 m	0700025220
MXL 201 Gas-cooled Torch with Euro Connection, 4 m	0700025221
Gas Hose, quick connect/open, 4.5 m	0349312105
Return cable kit, OKC 50, 3 m	0700006901
Electrode holder, Handy 200A, heavy duty 50 mm OKC, 3 m	0700006900
MMA 4 Analogue Remote Control incl. 10 m (33 ft) cable and 8-pin connector	0700500084
Tweco SGT250 Spool Gun 8 m	W4011250

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Wear & Spare Parts	
Feed Roll, 0.6/0.8 mm V	0367556001
Feed Roll, 0.8/1.0 mm V	0367556002
Feed Roll, 1.0/1.2 mm V	0367556003
Feed Roll, 0.9/1.2 mm VK	0349312497
Feed Roll, 1.0/1.2 mm U	0367556004
Guide, Inlet, Wire	0558102928
Guide, Outlet, Wire	0558102929
Key, Shaft, Motor, Drive	0558102930

Wear & Spare Parts	
MXL 201 MIG Torch	
Contact Tip M6 x 25, 0.6 mm	0700200063
Contact Tip M6 x 25, 0.8 mm	0700200064
Contact Tip M6 x 25, 0.9 mm	0700200065
Contact Tip M6 x 25, 1.0 mm	0700200066
Gas Nozzle, Conical, $\varnothing$ 12 mm	0700200054
Gas Nozzle, Tapered, $\varnothing$ 9.5 mm	0700200060
Gas Nozzle, Cylindrical, $\varnothing$ 16 mm	0700200057
Gas Nozzle, FCAW, $\varnothing$ 6.5 mm	0700200105
Nozzle Spring	0700200078
Conduit/Liner, MXL, steel	0700200085
Conduit/Liner, MXL, aluminum	0700200091
Conduit/Liner, MXL, stainless steel	0700025816

Wear & Spare Parts	
Tweco SGT250 Spool Gun	
Feed Roll, 0.9/1.0mm, U	W7007213
Tweco Contact Tip, 0.9 mm	OTW22/50
Tweco Contact Tip, 1.0 mm	OTW14/35
Tweco Nozzle, 13 mm	OTW14/40
Tweco Insulator	OTW32
Tweco Diffuser	OTW52



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