

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 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 mm², 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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