

Rogue EM 190 PRO

Portable MIG/MAG 230 V welding package



Rogue EM 190 PRO

Industry

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



Control panel

ESAB Rogue EM 190 PRO is an inverter-based MIG/MAG 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 16.9 kg (37.3 lbs), single voltage input, 230V single-phase and compatibility with 10 kVA (9.9 kW) generators, this system provides maximum flexibility and portability, both in the shop and in the field.

- Full feature MIG/MAG machine for Synergic MIG/MAG, Manual MIG/MAG, MIG Brazing, Flux-Cored
- Intuitive 5.0 in TFT screen offers clear views with direct interaction
- Synergic Weld Programs (27) – full range of welding parameters, 0.5 – 10.0 mm (0.020 – 0.375 in) 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 (328 ft)
- 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
- Jobs – 10 memory save/recall function
- Spool Gun Ready – Rogue automatically configures set up when spool gun is connected
- Multi-language display – configure the display to 1 of 29 languages
- Energy Save Mode – after 2 minutes of inactivity the unit will enter this state to reduce power consumption.
- IP23S rated for indoor/outdoor use

Visit esab.com for more information.

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Specifications	
Mains Voltage	230 VAC \pm 10%, 1ph, 50/60 Hz
Energy Save Mode	<50 W
MIG (GMAW) Welding Output	145 A / 21.25 V at 30% 102 A / 19.1 V at 60% 79 A / 17.95 V at 100%
Current Range	30 – 190 A
Voltage Range	12 – 26 V
Wire Dimensions Mild Steel & Stainless Steel Cored Wire (FCAW) & Aluminum	0.6 – 0.9 mm (0.023 – 0.035 in) 0.8 – 0.9 mm (0.030 – 0.035 in)
Wire Feed Speed	2.0 – 16.5 m/min (75 – 650 ipm)
Max Spool Diameter	100 mm (4 in), 200 mm (8 in)
Open Circuit Voltage	78 VDC
Efficiency at Max Current	> 82%
Power Factor at Max Current	0.99
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	16.9 kg (37.3 lbs.)

Ordering Information	
Description	Part Number
Rogue EM 190 PRO MIG Welding System	0700301083

Delivery includes: 190A MIG/MAG power source, Tweco Fusion 180 MIG/MAG Torch 3 m (10 ft), Victor Gas Regulator/Flow gauge, Return cable kit, 16 mm², OKC 50, 3 m (10 ft), Gas Hose 3 m (10 ft), ESAB OK AristoRod 12.50 0.8 mm (0.030) 1 kg (2.2 lbs), Feed rolls 0.6/0.8 mm (0.023/0.030 in.) V (fitted), 0.8/0.9 mm (0.030/0.035 in.) V and 0.8/0.9 mm (0.030/0.035 in.) VK, Contact Tips 0.6, 0.8, 0.9 mm (0.023, 0.030, 0.035 in), Instruction manuals.

Accessories	
Description	Part Number
Basic Utility Cart (Single cylinder)	1444-0900
Trolley 2-wheel with cylinder support	0460330881
Victor GF-250-50-580, Flow Gauge Regulator, for Ar/CO2	0781-9411
Victor GRF400-320 Flowmeter Regulator, for CO2	0781-2703
Gas hose with 5/8 in 18 RH fittings, 3m (10 ft)	0700400858
Tweco Fusion 180A MIG Gun, 3m (10 ft)	1017-1338
Return cable kit, 16 mm ² , OKC 50, 3 m (10 ft)	0700006901
Tweco Spool Gun 160A 3.5 m (12 ft)	1027-1397

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Wear & Spare Parts	
Feed Roll, 0.6/0.8 mm (0.023/0.030 in) V	7977036
Feed Roll, 0.8/0.9 mm (0.030/0.035 in) V	0558103014
Feed Roll, 0.9/1.2 mm (0.035/0.045 in) V	7977660
Feed Roll, 0.8/0.9 mm (0.030/0.035 in) VK	7977732
Feed Roll, 0.9/1.2 mm (0.035/0.045 in) VK	0349312497
Feed Roll, 0.8/0.9 mm (0.030/0.035 in) U	7977731
Feed Roll, 1.0/1.2 mm (0.040/0.045 in) U	7977264
Guide, Inlet, Wire	0558102928
Guide, Outlet, Wire	0558102929
Key, Shaft, Motor, Drive	0558102930

Wear & Spare Parts	
Tweco Fusion MIG Gun	
Velocity Contact Tip, 0.6 mm (0.023 in) Tweco Fusion 180A	1110-1308
Velocity Contact Tip, 0.8 mm (0.030 in) Tweco Fusion 180A	1110-1309
Velocity Contact Tip, 0.9 mm (0.035 in) Tweco Fusion 180A	1110-1310
Velocity Contact Tip, 1.2 mm (0.045 in.) Tweco Fusion 180A	1110-1312
Velocity Nozzle, 3/8 in ID, Tweco Fusion 180A	1220-1206
Velocity Nozzle, 1/2 in ID, Tweco Fusion 180A	1220-1201
Velocity Nozzle, 5/8 in ID, Tweco Fusion 180A	1220-1203
Velocity FCAW Tip Holder	1220-1207
Velocity FCAW Tip Holder Insulator	1220-1208
Conduit / Liner, Tweco Fusion 180A, 0.8/0.9 mm (0.030/0.035 in), Hard	1420-1140
Conduit / Liner, Tweco Fusion 180A, 1.0/1.2 mm (0.040/0.045 in), Hard	1420-1123
Conduit / Liner, Tweco Fusion 180A, 0.8/1.2 mm (0.030/0.045 in), Soft	1420-1003

Wear & Spare Parts	
Tweco Spool Gun	
Standard Contact Tip, 0.6 mm (0.023 in)	1110-1100
Standard Contact Tip, 0.8 mm (0.030 in)	1110-1101
Standard Contact Tip, 0.9 mm (0.035 in)	1110-1102
Standard Nozzle, 3/8 in ID	1210-1100
Standard Nozzle, 1/2 in ID	1210-1110
Standard Nozzle, 5/8 in ID	1210-1120
Conduit / Liner, Tweco Spool Gun	2031-2107
Gas Diffuser, Tweco Spool Gun	1510-1101



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