

# Rogue EM 190 PRO

## Portable MIG/MAG 230 V welding package



reddot winner 2024



*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 11 kVA (10 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.

# Rogue EM 190 PRO

Specifications	
Primary Voltage	230 VAC +/- 10% 1ph, 50/60 Hz
Primary Current	16 A
Primary Current $I_{eff}$	8.8 A
Energy Save Mode	< 20 W
Mains Cable	14/2, 3 m (10 ft.)
Supply Plug	NEMA 6-50P
Rated kVA	11.0 kVA
Generator Requirements	10 kW
MIG/MAG Welding Output	145 A / 21.25 V at 30% 102 A / 19.1 V at 60% 79 A / 17.95 V at 100%
Open Circuit Voltage	78 VDC
Power Factor at Max Current	0.99
Efficiency at Max Current	82 %
Current Range	30 - 190 A
Voltage Range	12.0 – 26.0 V
Wire Feed Speed	2.0 – 16.5 m/min (75 – 650 ipm)
Maximum Plate Thickness	9.5 mm (3/8 in.)
Wire Diameter Range: Mild Steel Stainless Steel Aluminum Flux Cored	0.6 – 1.0 mm (0.023-0.035 in.) 0.8 – 1.0 mm (0.030-0.035 in.) 0.8 – 1.2 mm (0.030-0.045 in.) 0.8 – 1.2 mm (0.030-0.045 in.)
Max Spool Diameter	100 mm (4 in), 200 mm (8 in)
Approvals	cETLus
Protection Class	IP23S
Operating Temperature	-10 to +40°C (+14 to 104 °F)
Power Source Dimensions, L x W x H	590 x 220 x 385 mm (23.2 x 8.7 x 15.2 in.)
Power Source 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 mm<sup>2</sup>, 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.

# Rogue EM 190 PRO

## Accessories

Description	Part Number
Basic Utility Cart (Single cylinder)	1444-0900
Trolley 2-wheel with cylinder support	0460330882
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
Work Clamp Leadset, 3 m (10 ft), 16 mm <sup>2</sup> , 35-50 OKC	0700006901
Tweco Spool Gun 160A, 3.6 m (12 ft)	1027-1397
Tweco Spool Gun 200A, 3.6 m (12 ft)	1027-1398

## Wear Parts – Tweco Fusion MIG Gun

Description	Part Number
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 Parts

Description	Part Number
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, Steel	0558102928
Guide, Outlet, Wire, Steel	0558102929
Guide, Inlet, Wire, Aluminium	0558103096
Key, Shaft, Motor, Drive	0558102930

# Rogue EM 190 PRO

Wear Parts - Tweco Spool Gun	
Description	Part Number
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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