

# Rogue EM 210 PRO

## Portable MIG/MAG dual voltage welding package



reddot winner 2024



Rogue EM 210 PRO

### Industry

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



Control panel

ESAB Rogue EM 210 PRO 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 16.9 kg (37.3 lbs), dual voltage 120/230V single-phase input 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, Manual MIG, MIG Brazing, Flux-Cored
- Intuitive 5.0 in TFT screen offers clear views with direct interaction
- Synergic Weld Programs – full range of welding parameters, 0.5 – 8.0 mm (0.020 – 0.30 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 (Spool gun sold separately)
- 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](http://esab.com) for more information.

# Rogue EM 210 PRO

Specifications		
Primary Voltage	120 VAC +/- 10% 1ph, 50/60 Hz	230 VAC +/- 10% 1ph, 50/60 Hz
Primary Current $I_{max}$	20 A	27 A
Primary Current $I_{eff}$	10 A	13.5 A
Energy Save Mode	< 50 W	
Mains Cable	14/2, 3 m (10 ft)	
Supply Plug	NEMA 6-50P	
Rated kVA	2.4 kVA	6.2 kVA
Generator Requirements	6.0 kW	10 kW
MIG/MAG Welding Output	100 A / 19.0 V at 25% 82 A / 18.1 V at 60% 63 A / 17.2 V at 100%	210 A / 24.5 V at 25% 136 A / 20.8 V at 60% 105 A / 19.2 V at 100%
Open Circuit Voltage	78 VDC	
Power Factor at Max Current	0.99	
Efficiency at Max Current	80 %	
Current Range	10 – 210 A	
Voltage Range	10.4 – 27.2 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.)	
Wire Spool Size	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	548 x 229 x 406 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 210 PRO Welding System	0700301084

**Delivery includes:** Rogue EM 210 PRO MIG/MAG power source, 3 m (10 ft) Tweco Fusion 180A MIG Gun, Tweco Velocity contact tips 1 ea 0.6/0.8/0.9 mm (0.023/0.030/0.035 in.), feed rolls 0.6/0.8 mm (0.023/0.030 in.) V, 0.8/0.9 mm (0.030/0.035 in.) V and 0.8/0.9 mm (0.030 /0.035 in.) VK, 3 m (10 ft) work clamp leadset with heavy duty 50mm OKC connection, Victor Ar/CO2 regulator/flow gauge, 3 m (10 ft) Gas hose, 3 m (10 ft) mains cable with NEMA 6-50P plug, Power Adapter – NEMA 6-50R to NEMA 5-15P, ESAB OK AristoRod 12.50 1 kg (2.2 lbs) in 0.8 mm (0.030 in.) wire.

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<b>Accessories</b>	
<b>Description</b>	<b>Part Number</b>
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, 3 m (10 ft)	0700400858
Tweco Fusion 180A MIG Gun, 3 m (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
Power Adapter, 230 V to 120 V, 15 A	W4014000

<b>Wear Parts –Tweco Fusion MIG Gun</b>	
<b>Description</b>	<b>Part Number</b>
Velocity2 Contact Tip, 0.6 mm (0.023 in) Tweco Fusion 180A	1110-1308
Velocity2 Contact Tip, 0.8 mm (0.030 in) Tweco Fusion 180A	1110-1309
Velocity2 Contact Tip, 0.9 mm (0.035 in) Tweco Fusion 180A	1110-1310
Velocity2 Contact Tip, 1.2 mm (0.045 in.) Tweco Fusion 180A	1110-1312
Velocity2 Nozzle, 3/8 in. ID, Tweco Fusion 180A	1220-1206
Velocity2 Nozzle, 1/2 in. ID, Tweco Fusion 180A	1220-1201
Velocity2 Nozzle, 5/8 in. ID, Tweco Fusion 180A	1220-1203
Velocity2 FCAW Tip Holder	1220-1207
Velocity2 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

<b>Wear Parts</b>	
<b>Description</b>	<b>Part Number</b>
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, Aluminum	0558103096
Key, Shaft, Motor, Drive	0558102930

# Rogue EM 210 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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