

# Rogue EMP 210 PRO

## Portable multi-process dual voltage welding package



reddot winner 2024



Rogue EMP 210 PRO

### Industry

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



Control panel

ESAB Rogue EMP 210 PRO is an inverter-based multi-process 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.

- True multi-process with Synergic MIG, Manual MIG, MIG Brazing, Flux-Cored, Lift TIG, and Stick (including 6010)
- Intuitive 5.0 in TFT screen offers clear views with direct interaction
- Synergic Weld Programs – 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 (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 EMP 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	14/2, 3 m (10 ft)	
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%
SMAW Welding Output	80 A / 23.2 V at 25% 52 A / 22.1 V at 60% 40 A / 21.6 V at 100%	180 A / 27.2 V at 25% 116 A / 24.6 V at 60% 90 A / 23.6 V at 100%
TIG Welding Output	125 A / 15.0 V at 25% 81 A / 13.2 V at 60% 63 A / 12.5 V at 100%	210 A / 18.4 V at 25% 136 A / 15.4 V at 60% 105 A / 14.2 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	1.5 – 16.5 m/min (75 - 650 ipm)	
Maximum Plate Thickness	9.5 mm (3/8 in.)	
Wire Diameter Range:		
Mild Steel	0.6 – 1.0 mm (0.023-0.035 in.)	
Stainless Steel	0.8 – 1.0 mm (0.030-0.035 in.)	
Aluminum	0.8 – 1.2 mm (0.030-0.045 in.)	
Flux Cored	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, Lx 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 EMP 210 PRO Welding System	0700301085

**Delivery includes:** Rogue EMP 210 PRO multi-process 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, 3 m (10 ft) Electrode holder 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, SR - 17V, 4 m (12.5 ft) TIG torch and accessories, ESAB OK AristoRod 12.50 1 kg ( 2.2 lbs) in 0.8 mm (0.030 in.) wire.

# Rogue EMP 210 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, 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
Tweco Spool Gun 200A, 3.6 m (12 ft)	1027-1398
Power Adapter, 230 V to 120 V, 15 A	W4014000
Electrode Holder Leadset, 3 m (10 ft), 16 mm <sup>2</sup> , 35-50 OKC	0700400852
MMA 4 Analogue Remote-Control incl. 10 m (33 ft) cable and 8-pin connector	0700500084
TIG Foot Control, 4.5 m (15 ft) cable and 8-pin connector	W4014450
SR-17V, 4 m, gas cooled, OKC 50, Rmt.8, gas hose 3.8 m, 5/8-18	0700026630
SR-17V, 8 m, gas cooled, OKC 50, Rmt.8, gas hose 3.8 m, 5/8-18	0700026631
SR-26V, 4 m, gas cooled, OKC 50, Rmt.8, gas hose 3.8 m, 5/8-18	0700026632
SR-26V, 8 m, gas cooled, OKC 50, Rmt.8, gas hose 3.8 m, 5/8-18	0700026633

## 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, Aluminum	0558103096
Key, Shaft, Motor, Drive	0558102930

## 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

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## Wear Parts – Tweco Fusion MIG Gun (cont.)

Description	Part Number
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 – 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

## Wear Parts – TIG Torches

Description	Part Number
Kit, Accessory, Torch, 17/26	0700026638
Back cap Long	0157123029
Back cap Medium	0588000591
Back cap Short	0157123028
Heat shield	0366960016
Collet std. Ø 1.6 mm (1/16 in.)	0157123011
Collet std. Ø 2.4 mm (3/32 in.)	0157123012
Collet body std. Ø 1.6 mm (1/16 in.)	0157123016
Collet body std. Ø 2.4 mm (3/32 in.)	0157123017
Gas Nozzle (no. 5)	0157123053
Gas Nozzle (no. 6)	0157123054
Gas Nozzle (no. 7)	0157123055
Gas Nozzle (no. 8)	0157123056



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