

# Rogue EM 140

Portable MIG/MAG 120 V welding package



*Rogue EM 140*

## Industry

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

ESAB Rogue EM 140 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 13 kg (28.8 lbs), single voltage 120V single-phase input and compatibility with 6 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
- Unique rugged industrial design – supporting multiple lift points and cable management
- Arc Dynamics - fine tune arc characteristics based on the material being welded
- Advanced control features – adjustable pre- and post-flow, burn back control, creep start and 2T/4T trigger latch
- Spool Gun Ready – Rogue automatically configures set up when spool gun is connected
- Weld material thicknesses up to 6 mm (1/4 in.)
- IP23S rated for indoor/outdoor use

Visit [esab.com](http://esab.com) for more information.



*Control panel*

# Rogue EM 140

Specifications	
Mains Voltage	120 VAC $\pm$ 10%, 1ph, 50/60 Hz
Energy Save Mode	20 W
MIG (GMAW) Welding Output	90 A / 18.5 V at 30% 64 A / 17.2 V at 60% 49 A / 16.5 V at 100%
Current Range	30 – 140 A
Voltage Range	12 – 22 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 – 11.4 m/min (75 – 450 ipm)
Max Spool Diameter	100 mm (4 in.), 200 mm (8 in.)
Open Circuit Voltage	50 VDC
Efficiency at Max Current	82.7%
Power Factor at Max Current	0.80
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	13.1 kg (28.8 lbs)

Ordering Information	
Description	Part Number
Rogue EM 140 Welding System	0700301082

**Delivery includes:** 140A MIG/MAG power source, Tweco Fusion 180 MIG Torch 3 m (10 ft), Victor Gas Regulator/Flow gauge, Return cable kit, OKC 35-50 16 mm<sup>2</sup>, 3 m (10 ft), Gas Hose 3 m (10 ft), ESAB OK AristoRod 12.50 0.8 mm (0.030 in.) 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, Instruction manual.

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

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Wear & Spare Parts	
Feed Roll, 0.6/0.8 mm (0.023/0.030 in.) V	7977036
Feed Roll, 0.6/0.9 mm (0.023/0.035 in.) V	W4014800
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 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
Conduit / Liner, Tweco Fusion 180A	1420-1140

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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