

Rustler EM 280 PRO

Professional MIG/MAG welding system



Rustler EM 280 PRO Package
shown with tool box (sold separately)

Industry

- Industrial and General Fabrication
- Structural Steel Fabrication
- Steel Erectors
- Steel Cutting Centers
- Repair and Maintenance
- Agricultural Equipment

Rustler EM 280 PRO MIG/MAG compact welding inverter is your solution of choice for the most common challenges welders face across all industries. Equipped with the latest inverter technology offering the advantage of low energy consumption on 208VAC or 230VAC single phase power with optimized weld performance.

Rustler is ready to weld most common base materials with optimized welding programs for carbon steel, stainless steel, aluminum, silicon bronze, and flux-cored wires. Smooth wire feeding is delivered by a reliable and well proven 4-wheel industrial drive mechanism.

The durable housing is enhanced with an optional flexible accessories storage system, allowing users to store and protect additional tools as needed. Additional features include inspection window, LED light in spool compartment, torch holder and cable management for an efficient and comfortable working environment.

- High output current and duty cycle for increased productivity, including superb arc characteristics optimized for most common base materials benefiting less rework
- Welds up to 13 mm (1/2 in.) steel and 9.5 mm (3/8 in.) aluminum
- Digital display for easy and intuitive set up and adjustments and a feature rich user interface with trigger control, arc dynamics and many more adjustments
- Spool gun ready allows for quick set up of spool gun for smooth Aluminum welding (spool gun sold separately)
- Energy Save Mode – after 2 minutes of inactivity the unit will enter this state to reduce power consumption
- IP21 rated for indoor use

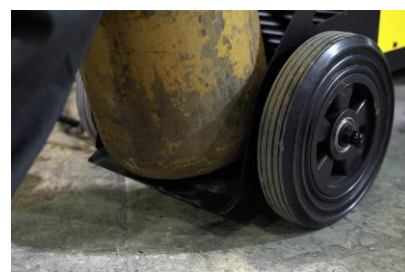
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4-wheel industrial drive



Optional top toolbox for accessories



Low cylinder entry

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Specifications		
Mains Voltage	208V +/- 15%, 1Φ 50/60 Hz	230V +/- 15%, 1Φ 50/60 Hz
Primary Current I _{max}	47A	43A
Primary Current I _{eff}	21.0A	21.5A
Energy Save Mode	< 30 W	
Mains Cable	14/3 AWG (2.5mm ²), 3.6 m (12.0 ft)	
Supply Plug	230 V, NEMA 6-50P	
Rated kVA (kW)	9.78 (9.58)	9.89 (9.69)
Recommended Generator, kW (kVA)	10.0 (12.2)	
MIG/MAG Welding Output 25% Duty Cycle 40% Duty Cycle 60% Duty Cycle 100% Duty Cycle	280A/28V 198A/23.9V 162A/22.1V 125A/20.25V	280A/28V 234A/25.7V 200A/24V 155A/21.75V
Open Circuit Voltage	68 VDC	
Power Factor at Max Current	0.98	
Efficiency at Max Current	82%	
Current Range	30-280 A	
Voltage Range	12-30 V	
Wire Feed Speed Range	2 - 17.8 m/min (80 - 700 ipm)	
Maximum Plate Thickness	13 mm (1/2 in.)	
Wire Diameter Range: Mild Steel Stainless Steel Aluminum Flux Cored	0.6 – 1.2 mm (0.024 – 0.045 in.) 0.8 – 1.2 mm (0.030 – 0.045 in.) 0.8 – 1.2 mm (0.030 – 0.045 in.) 0.8 – 1.2 mm (0.030 – 0.045 in.)	
Wire Spool Size	200 mm (8 in.), 300 mm (12 in.)	
Approvals	cETLus	
Enclosure Class	IP21	
Operating Temperature	-10 to +40 °C (+14 to +104 °F)	
Power Source Dimensions	960 x 450 x 840 mm (37.8 x 17.8 x 33.1 in.)	
Power Source Weight	60 kg (133 lbs)	

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Ordering Information

Description	Part Number
Rustler EM 280 PRO	0700401201

Delivery includes: Rustler EM 280 PRO MIG power source with 3.6 m (12 ft) mains cable 1ph, with NEMA-60P plug, on Trolley and cylinder rack, Spray Master 250 MIG Torch 3.6 m (12 ft), 300A work lead with clamp 4.5 m (15 ft), gun hanger, cable hanger, Victor gas flow gauge, gas hose 3 m (10 ft), drive rolls for 0.8/0.9 mm (0.030/0.035 in.) and 1.2 mm (0.045 in.) wires, and instruction manual.

Accessories

Description	Part Number
Spray Master 250 MIG Torch 3.6 m (12 ft)	1023-1296
Work lead with clamp, 300A, 35mm ² , 4.5 m (15 ft)	0558103111
Victor GF-250-50-580, Flow Gauge Regulator, for Ar/CO ₂	0781-9411
Victor GRF400-320 Flowmeter Regulator, for CO ₂	0781-2703
Gas hose with 5/8 in 18 RH fittings, 3 m (10 ft)	0700400858
Tweco Spool Gun 160A 3.6 m (12 ft)	1027-1397
Top Storage Toolbox	0448156880
Torch Holder	0558103196
Cable Hanger	0558103197
OKC 50, Cable Connector, Male (2 ea)	9425-1431
OKC 50, Cable Connector, Female (2 ea)	9425-1432

Wear Parts – Spray Master 250V

Description	Part Number
Velocity2 Contact Tip, 0.8 mm (0.030 in.)	1160-1751
Velocity2 Contact Tip, 0.9 mm (0.035 in.)	1160-1752
Velocity2 Contact Tip, 1.2 mm (0.045 in.)	1160-1754
Velocity2 Contact Tip, 1.4 mm (0.052 in.)	1160-1756
Velocity2 Contact Tip, 1.6 mm (0.062 in.)	1160-1757
Velocity2 Contact Tip, 1.2 mm (3/64 in), Aluminum	1160-1755
Nozzle, Threaded, Recess, 15.9 mm (5/8 in.)	1240-1854
Nozzle, Threaded, Flush, 15.9 mm (5/8 in.)	1240-1855
Nozzle, Threaded, Recess, 19.1 mm (3/4 in.)	1240-1852
Nozzle, Threaded, Flush, 19.1 mm (3/4 in.)	1240-1853
Conduit / Liner, 0.9/1.2 mm (0.035/0.045 in.), Steel	1420-1113
Conduit / Liner, 1.4/1.6 mm (0.052/0.062 in.), Steel	1420-1123
Conduit / Liner, 0.8/1.2 mm (0.030 - 3/64 in.), Aluminum	1440-1003
Conduit / Liner, 1.6 mm (0.062 in.), Aluminum	1440-1012

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Wear Parts			
Description	Groove/Side 1	Groove/Side 2	Part Number
Feed Roll, V Groove	0.6 mm (0.023 in.)	0.8 mm (0.030 in.)	0445850001
Feed Roll, V Groove	0.9 mm (0.035 in.)	0.9 mm (0.035 in.)	0445850003
Feed Roll, V Groove*	0.9 mm (0.035 in.)	1.2 mm (0.045 in.)	0445850004
Feed Roll, V Groove	1.2 mm (0.045 in.)	1.2 mm (0.045 in.)	0445850005
Feed Roll, V Groove	1.4 mm (0.052 in.)	1.6 mm (0.062 in.)	0445850006
Feed Roll, V-K Groove	0.9 mm (0.035 in.)	1.2 mm (0.045 in.)	0445850030
Feed Roll, V-K Groove	1.2 mm (0.045 in.)	1.4 mm (0.052 in.)	0445850032
Feed Roll, U Groove	0.8 mm (0.030 in.)	0.9 mm (0.035 in.)	0445850050
Feed Roll, U Groove	0.9 mm (0.035 in.)	1.2 mm (0.045 in.)	0445850051
Wire Guides	Inlet Guide	Intermediate Guide	Outlet Guide
Wire Guide, Fe/SS/C 0.6-1.6 mm (0.030-0.062 in.)	0445822001	0446080882	0445830883
Wire Guide, Al 0.8-1.6 mm (0.030-0.062 in.)	0445080882	0446080881	0445830885

* Included in delivery.

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 Contact Tip, 1.2 mm (0.045 in.)	1110-1104
Standard Nozzle, 3/8 in. ID	1210-1100
Standard Nozzle, 1/2 in. ID	1210-1110
Standard Nozzle, 5/8 in. ID	1210-1120
Gas Diffuser, Tweco Spool Gun	1510-1101
Feed Roll, 0.6 mm (0.023 in.) V	2031-2228
Guide Roll, 0.6 mm (0.023 in.) V	2031-2234
Feed Roll, 0.8 mm (0.030 in.) V	2031-2257
Guide Roll, 0.8 mm (0.030 in.) V	2031-2258
Feed Roll, 0.9 mm (0.035 in.) V	2031-2257
Guide Roll, 0.9 mm (0.035 in.) V	2031-2258
Feed Roll, 1.2 mm (0.045 in.) V	2031-2230
Guide Roll, 1.2 mm (0.045 in.) V	2031-2236
Conduit / Liner, Tweco Spool Gun	2031-2107



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