

Rebel™ EMP 285ic

Industrial Multi-Process Packages



Introducing Rebel EMP 285ic 1ph and 3ph systems – **The Most Powerful, Industrial Rebel yet.** Capable of welding up to 350A, this TRUE multi-process, multi-voltage industrial welding machine is able to run the full range of .035 in. (0.9 mm) and .045 in. (1.2 mm) wires. It's the most portable/mobile welder in its class and has the power and performance to crush even the most demanding industrial jobs.

Two models to choose from:

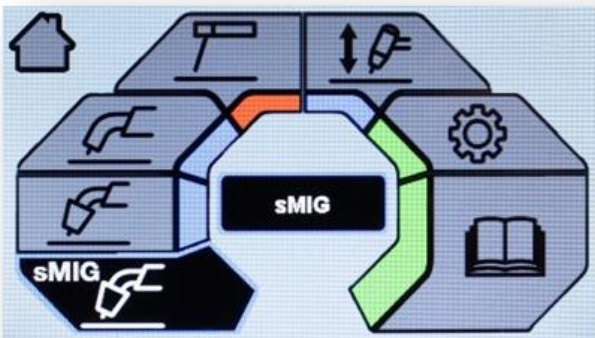
Rebel EMP 285ic 120V-230V 1ph

Rebel EMP 285ic 460V-575V 3ph

- True Multi-Process – excellent performance on MIG, Flux-Cored, TIG and STICK industrial applications.
- Power to Perform – 285A @ 40% (1ph model) and 285A @ 50% (3ph model) you'll have the confidence to run the full range of .045 in. (1.2 mm) wire – short arc and spray transfer with increased deposition rates and productivity on smaller diameter wires such as .030 in. (0.8 mm) and .035 in. (0.9 mm).
- With ESAB's new 4 Roll Drive System, weld up to .052 in. (1.4 mm) solid wire and up to 1/16 in. (1.6 mm) cored wire. Plus, rods up to 5/32 in. (4.0 mm) and TIG rods up to 3/16 in. (5.0 mm).
- Unmatched Portability/Mobility – weighing in at 70 lbs. with multi-voltage, multi-phase capable and 4 handle roll cage. Detach the Rebel EMP 285ic from its cart and tackle any job around the shop or out at the job site.
- TFT Multilingual Display – Packed full of features, Rebel EMP 285ic has 4 programmable memory locations for each process, multi-language selection, trim adjustment, inductance control, pre/post flow control and spot weld setting - giving you the ability to fine tune your welds for the most optimal performance.
- sMIG Technology - innovative "smart-MIG" feature that dynamically monitors the arc characteristics ultimately adapting to your technique resulting in a smooth, stable arc. Set wire diameter and plate thickness and you are ready to weld.

Industry

- Industrial General Fabrication
- Maintenance & Repair
- Industrial Production & Manufacturing
- Civil Construction
- Mechanical Contractors
- Agricultural Equipment
- Training Schools



Large 4.3 LCD – TFT Multilingual Display

Visit esab.com for more information.

When choosing a top-performing welding machine you need top-performing ESAB Filler Metals. Learn more at esab.com/fillermetals today.

Rebel™ EMP 285ic Series

| Specifications | |
|--|--|
| Maximum Output | 300 A / 34 V (1ph) 350 A / 34 V (3ph) |
| Primary Voltage | 120- 240 VAC 1ph, 460- 575 Vac 3ph |
| MIG (GMAW/FCAW) Welding Output @ 104°F (40°C) | 285 A / 28 V @ 40% Duty Cycle (1ph) 220 A / 25 V @ 60% Duty Cycle (1ph) 160 A / 22 V @ 100% Duty Cycle (1ph) 285 A / 28 V @ 50% Duty Cycle (3ph) 265 A / 27 V @ 60% Duty Cycle (3ph) 200 A / 24 V @ 100% Duty Cycle (3ph) |
| STICK (SMAW) Welding Output @ 104°F (40°C) | 260 A / 30 V @ 40% Duty Cycle (1ph) 210 A / 28 V @ 60% Duty Cycle (1ph) 135 A / 25 V @ 100% Duty Cycle (1ph) 285 A / 31 V @ 50% Duty Cycle (3ph) 255 A / 30 V @ 60% Duty Cycle (3ph) 180 A / 27 V @ 100% Duty Cycle (3ph) |
| TIG (GTAW) Welding Output @ 104°F (40°C) | 285 A / 21 V @ 40% Duty Cycle (1ph) 240 A / 19 V @ 60% Duty Cycle (1ph) 185 A / 17 V @ 100% Duty Cycle (1ph) 285 A / 21 V @ 50% Duty Cycle (3ph) 265 A / 21 V @ 60% Duty Cycle (3ph) 220 A / 19 V @ 100% Duty Cycle (3ph) |
| Current Range | 5 – 300 A (1ph), 5 – 350A (3ph) |
| MIG Welding Voltage Range | 12 – 34 V |
| Wire Feed Speed Range | 60 – 800 ipm (1.5 – 20.3 m/min) |
| Nominal OCV Volt/DC | 68 VDC |
| Maximum Plate Thickness | 1/2 in. (13 mm) |
| Wire Diameter Range Mild Steel Stainless Steel Aluminum Flux Cored | .023 – .052 in. (0.6 – 1.3 mm) .030 – .052 in. (0.8 – 1.3 mm) .030 – 1/16 in. (0.8 - 1.6 mm) .030 – 1/16 in. (0.8 - 1.6 mm) |
| Wire Spool Size | 4, 8 & 12 in. (100, 200 & 300 mm) |
| Approvals | CSA E60974-1-00 / UL60974-1 / IEC 60974-1 |
| Protection Class | IP23S |
| Power Source Dimensions (L x W x H) | 26.5 x 11.5 x 19.5 in. (673 x 292 x 495 mm) |
| Power Source Weight | 70 lbs. (31.7 kg) |
| Supply Voltage Range | 90 – 270 VAC |
| Supply Frequency | 50/60 Hz |
| Number of Phases | 1ph, 3ph |
| Supply Plug | NEMA 6-50P (230 V), no plug for 3ph unit |
| Lead Cord Length | 10 ft. (3 m) |

Ordering Information

| | |
|--|------------|
| Rebel EMP 285ic 120V-230V 1ph System | 0558102554 |
| Rebel EMP 285ic 120V-230V 1ph System with Cart | 0558102555 |
| Rebel EMP 285ic 460V – 575V 3ph System | 0558102556 |
| Rebel EMP 285ic 460V – 575V 3ph System with Cart | 0558102557 |

All packages include power supply, Tweco® Spray Master® Velocity™ MIG gun, electrode holder, Atom Arc 7018 electrodes. Victor® argon flowmeter regulator, 12.5 ft. (3.8 m) hose, return clamp with leads, drive rolls and contact tips, .035 in. (0.9 mm) wire and operator's manual.

Cart packages also include single cylinder cart.

Options & Accessories

| | |
|--|------------|
| ESAB TXH 201 5/8 npt 12.5 ft. (3.5 m) TIG Torch Outfit | 0558102493 |
| Tweco 200A 12 ft. Spool Gun | 1027-1398 |
| Remote Foot Control | W4014450 |
| Rebel Single Cylinder Cart | 0558102491 |

Wear & Spare Parts

| | |
|--|-----------|
| Spray Master Velocity 250V MIG Gun, 15 ft. SMV215-3545 | 1023-1277 |
| Spray Master Velocity 350V MIG Gun, 15 ft. SMV315-116 | 1036-1756 |
| Electrode Holder 200A and Lead Assembly, 4 m (13 ft.), 50 mm | WS200E13 |
| Tweco Ground Clamp w/Lead, 10 ft. (3 m), 50 mm Dinse | WS200G10 |
| Victor HRF 1400 Argon Flowmeter Regulator | 0781-2743 |
| Power Adapter - 230V to 120V, 15A | W4014000 |

Drive Rolls and Guide Tubes

| | |
|---|------------|
| Drive Roll V groove for steel & stainless wires .023/.030 in. (0.6/0.8 mm) | 21155 |
| Drive Roll V groove for steel & stainless wires .035/.045 in. (0.9/1.2mm) | 21156 |
| Drive Roll V groove for steel & stainless wires .052 in. (1.4 mm) | 21157 |
| Drive Roll V knurled groove for flux cored wires .030/.035 in. (0.8/0.9 mm) | 21160 |
| Drive Roll V knurled groove for flux cored wires .045-1/16 in. (1.2/1.6 mm) | 21161 |
| Drive Roll U groove for Aluminum wires 3/64-1/16in. (1.2-1.6 mm) | 21159 |
| Center Guide | 0558102581 |
| Inlet guide | 0558001758 |
| Outlet Guide Tube (Solid, Flux Cored) .024 in. (0.6 mm) | 0558102585 |
| Outlet Guide Tube (Solid, Flux Cored) .030/.035 in. (0.8/0.9 mm) | 0558102584 |
| Outlet Guide Tube (Solid, Flux Cored) .045 in. (1.2 mm) | 0558102582 |
| Outlet Guide Tube (Solid, Flux Cored) .052 in. (1.4 mm) | 0558102583 |
| Outlet Guide Tube (Aluminum) .030/.035 in. (0.8/0.9 mm) | 0558102586 |
| Outlet Guide Tube (Aluminum) .047 in. (1.2 mm) | 0558102587 |
| Outlet Guide Tube (Aluminum) 1/16 in. (1.6 mm) | 0558102588 |

For Velocity Consumables see Tweco Catalog or Velocity Fact Sheet.



ESAB / esab.com

