

# Rebel™ EMP 285ic

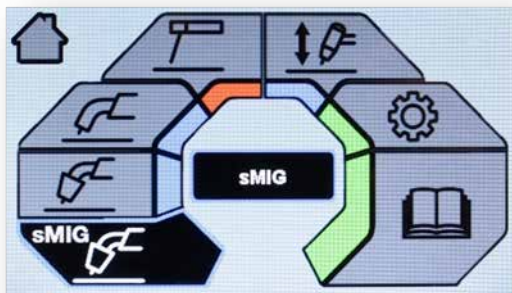
## Industrial, multi-process packages



Rebel EMP 285ic with cart and accessories.

### Industry

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



Large 4.3 LCD - TFT Multilingual Display

Introducing Rebel™ EMP 285ic 1ph and 3ph systems, the most powerful, industrial Rebel yet for excellent performance on MIG, Flux-Cored, TIG and Stick applications. Capable of welding up to 350A, this TRUE multi-process, multi-voltage industrial welding machine runs 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
- Power to Perform – with 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 higher productivity on smaller diameter wires such as .030 in. (0.8 mm) and .035 in. (0.9 mm).
- 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.
- 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, electrodes 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. (32 kg) with multi-voltage, multi-phase capability 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.

Visit [esab.com](http://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](http://esab.com/fillermetals) today.

# Rebel™ EMP 285ic

| Specifications  |  |
|---|--|
| Primary Voltage   | 120-240 VAC 1 ph, 50/60 Hz, 460-575 VAC 3 ph, 50/60 Hz   |
| Supply Voltage Range  | 90 –270 VAC  |
| Maximum Output  | 300 A / 34 V (1 ph), 350 A / 34 V (3 ph)   |
| MIG (GMAW/FCAW) Welding Output @ 104°F (40°C)                                   | 285 A / 28 V @ 40% Duty Cycle (1 ph)<br>220 A / 25 V @ 60% Duty Cycle (1 ph)<br>160 A / 22 V @ 100% Duty Cycle (1 ph)<br>285 A / 28 V @ 50% Duty Cycle (3 ph)<br>265 A / 27 V @ 60% Duty Cycle (3 ph)<br>200 A / 24 V @ 100% Duty Cycle (3 ph) |
| STICK (SMAW) Welding Output @ 104°F (40°C)                                      | 260 A / 30 V @ 40% Duty Cycle (1 ph)<br>210 A / 28 V @ 60% Duty Cycle (1 ph)<br>135 A / 25 V @ 100% Duty Cycle (1 ph)<br>285 A / 31 V @ 50% Duty Cycle (3 ph)<br>255 A / 30 V @ 60% Duty Cycle (3 ph)<br>180 A / 27 V @ 100% Duty Cycle (3 ph) |
| TIG (GTAW) Welding Output @ 104°F (40°C)  | 285 A / 21 V @ 40% Duty Cycle (1 ph)<br>240 A / 19 V @ 60% Duty Cycle (1 ph)<br>185 A / 17 V @ 100% Duty Cycle (1 ph)<br>285 A / 21 V @ 50% Duty Cycle (3 ph)<br>265 A / 21 V @ 60% Duty Cycle (3 ph)<br>220 A / 19 V @ 100% Duty Cycle (3 ph) |
| Current Range   | 5 – 300 A (1 ph), 5 – 350 A (3 ph)   |
| 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. (12.7 mm)  |
| Wire Diameter Range:<br>Mild Steel<br>Stainless Steel<br>Aluminum<br>Flux-Cored | .023 – .052 in. (0.6 – 1.3 mm)<br>.030 – .052 in. (0.8 – 1.3 mm)<br>.030 – 1/16 in. (0.8 - 1.6 mm)<br>.030 – 1/16 in. (0.8 - 1.6 mm)   |
| Wire Spool Size   | 4 in. (100 mm), 8 in. (200 mm), 12 in. (300 mm)  |
| Supply Plug   | NEMA 6-50P (230 V), no plug for 3 ph unit  |
| Lead Cord Length  | 10 ft. (3 m)   |
| Approvals   | CSA E60974-1-00 / UL60974-1 / IEC60974-1   |
| 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. (32 kg)  |

| Ordering Information                             |             |
|--|-------------|
| Description                                      | Part Number |
| Rebel EMP 285ic 120V-230V 1 ph System            | 0558102554  |
| Rebel EMP 285ic 120V-230V 1 ph System with Cart  | 0558102555  |
| Rebel EMP 285ic 460V –575V 3 ph System           | 0558102556  |
| Rebel EMP 285ic 460V –575V 3 ph 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.

# Rebel™ EMP 285ic

## Options & Accessories

| Description  | Part Number |
|--|-------------|
| ESAB TXH 201 5/8 npt 12.5 ft. (3.8 m) TIG Torch Outfit       | 0558102493  |
| Spray Master Velocity 250V MIG Gun, 15 ft. (4.5 m)           | 1023-1277   |
| Spray Master Velocity 350V MIG Gun, 15 ft. (4.5 m)           | 1036-1756   |
| Tweco 200A Spool Gun, 12 ft. (3.6 m)                         | 1027-1398   |
| Electrode Holder 200A and Lead Assembly, 13 ft. (4 m), 50 mm | WS200E13    |
| Tweco Ground Clamp w/Lead, 10 ft. (3 m), 50 mm Dinse         | WS200G10    |
| Victor HRF 1425-580 Regulator/Flowmeter                      | 0781-2743   |
| Power Adapter - 230V to 120V, 15A                            | W4014000    |
| Foot Control, 15 ft. (4.6 m) cable and 8-pin Male Plug       | W4014450    |
| Rebel Single Cylinder Cart                                   | 0558102491  |

## Wear & Spare Parts

| Description   | Part Number |
|---|-------------|
| Drive Roll V-groove for steel and stainless wires, .023/.030 in. (0.6/0.8 mm) | 21155       |
| Drive Roll V-groove for steel and stainless wires, .035/.045 in. (0.9/1.2 mm) | 21156       |
| Drive Roll V-groove for steel and 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. (1.2-1.6mm)               | 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. (1.4mm)                        | 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 TwecoCatalogor Velocity Fact Sheet.

When choosing a top-performing welding machine you need top-performing ESAB Filler Metals.  
Learn more at [esab.com/fillermetals](http://esab.com/fillermetals) today.



ESAB / [esab.com](http://esab.com)

