



# GO WELD IT! WITH CORE.

## CORE 185<sup>TIG</sup>

CORE 185<sup>TIG</sup> is a single-phase power source for highest-precision TIG DC HF welding, TIG Pulse, TIG Spot welding, and MMA welding.

Due to their high-grade, hybrid, composite and galvanized steel construction, CORE power sources are portable, durable, and resilient. CORE is built to last!

Advanced customizable easy-to-read controls make setting parameters intuitive, and smart monitoring features keep welders informed.

The ergonomic and sturdy handle and shoulder strap make CORE ready to weld anywhere.

Adjustable 2-step-arc start and 4-step arc start provide the welders with different options for ignition sequences and welding operations based on the specific application needs.

Cool-air management / wind tunnel, ensures optimal performance and minimizes service and maintenance time and costs.

Whether you're chasing deadlines or laying down critical welds, CORE keeps pace with your skill and your schedule.

**Experience The Perfect Weld Seam with superior arc performance.**

### Benefits



**Premium Performance TIG:** TIG DC HF welding with perfect arc ignition. Stable and smooth arc performance.



**Advanced Pulsed TIG Arc Control** provides operators with a stable arc ideal for thin gauge material, positional and out-of-position welding applications.



**TIG Spot Welding** enables very fine control over heat input and weld penetration. It minimizes the deformation and is particularly suitable for thin materials.



**Premium Performance MMA** with synergic mode. Stable and smooth arc across all electrode types.



**The Expansive High-Contrast Display with TIG Sequence Diagram** ensures optimal user experience (UX) for maximum readability indoors and outdoors. Set your pre-flow, initial current, upslope and downslope time and post flow individually.



**Auto Power Line Adaption (115/230V).** CORE automatically adjusts to grid or generator power for maximum flexibility.



**Welding Parameter Storage.** Set it once. Repeat perfection. Save and recall ideal settings for consistent, repeatable results.



**Wired and wireless remote welding current control devices:** a remote control can be connected to the power source. Easy adjustments of welding parameters directly on the torch or on the remote control.



# INDUSTRIES

- » Petrochemical
- » Food & Beverage
- » Maintenance & Repair
- » Welding Schools



Built tough. Backed for longer. Industry-leading 5-year warranty for peace of mind.

## Technical Data

| CORE                    | 185 <sup>TIG</sup>                           |                                             |
|-------------------------|----------------------------------------------|---------------------------------------------|
| Dimensions              | 429 x 172 x 316 mm                           |                                             |
| Weight                  | 10.3 kg                                      |                                             |
| IP Protection Rate      | IP23S                                        |                                             |
| Insulation Class        | H                                            |                                             |
| Power Supply Cable      | 3 x 2.5 mm <sup>2</sup> - 3 m                |                                             |
| Power Plug Type         | 16 A 250 V Type F                            |                                             |
| Power Supply (50/60 Hz) | 1 x 230 V (± 15 %)                           | 1 x 115 V (± 15 %)                          |
| Maximum Input Power     | 3.96 kVA                                     | 2.70 kVA                                    |
| Maximum Input Current   | 17.2 A                                       | 23.5 A                                      |
| Efficiency              | 82.2 %                                       | 82.0 %                                      |
| Power Factor (P.F.)     | 0.99                                         | 0.99                                        |
| Duty Factor - 40 °C     | 25 % - 185 A<br>60 % - 120 A<br>100 % - 93 A | 25 % - 140 A<br>60 % - 90 A<br>100 % - 70 A |
| No-load Voltage         | 76 Vdc                                       | 76 Vdc                                      |
| CosΦ                    | 0.99                                         | 0.99                                        |
| Welding Current         | 5-185 A                                      | 5-140 A                                     |

## Optional (field kit only)

| Art. Nr.    | Description                                                      |
|-------------|------------------------------------------------------------------|
| 71.02.350   | Remote control RC18 5 m                                          |
| 71.02.35001 | Remote control RC18 10 m                                         |
| 71.02.35002 | Remote control RC18 15 m                                         |
| 71.22.001   | Wireless remote control                                          |
| 71.24.002   | Stick electrode holder with cables & plug 25 mm <sup>2</sup> 3 m |



## Delivery Options

| Art. Nr.  | Description                                                             |
|-----------|-------------------------------------------------------------------------|
| 55.27.001 | CORE 185 TIG power source including TIG torch BT17 4 m & work cable 3 m |

## Spare Parts

| Art. Nr.  | Description                                         |
|-----------|-----------------------------------------------------|
| 81.35.002 | TIG torch BT17 4 m                                  |
| 71.25.001 | Work cable with clamp & plug 16 mm <sup>2</sup> 3 m |



81.35.002 TIG Torch BT17



71.25.001 Work cable

Watch CORE in action



Visit our website to download the user manual

