

NEW!

HANDY TIG-200Di/200MV



Quick Specs



Light Industrial Application:
Installation and set-up
Repair and maintenance
Metal fabrication workshops
Chemical and process industry

Process:
DC TIG (GTAW)
Stick (SMAW)

Input Power:
200Di: 230V, 1-Phase
200MV: 115/230V, 1-Phase
Amperage Range: 3-200A
Rated Output at 40°C (104°F):
200A at 18V @60% Duty Cycle
Weight: 12 kg

For TIG and Stick Welding

High Performance in a Compact Design.

The **HANDY TIG-200Di** is a small but rugged, high-performance DC TIG and Stick welder designed for alloy fabrication, process piping, or critical maintenance work. Accurate and refined HF ignition and the necessary control, power and work capacity to reliably complete a variety of professional welding tasks. Weighing in at a portable 12 kg, the machine automatically connects to 115V or 230V service and features simple torch connections that provide for quick changeover from TIG to Stick welding.

Specialist Features

Precision Arc Performance:

- **Pulse control:**
Built in pulsing functions help minimize heat input on thin materials, and provide for a faster freezing weld puddle for uphill welding on curved surfaces such as process piping. The TIG pulser also helps moderate filler metal deposition for consistent bead appearance.
- **High-frequency TIG starting:**
Makes it easy to establish an arc under a variety of conditions. Enhances quality by minimizing the potential for weld contamination created by tungsten inclusions in the weld.
- **Refined arc ignition from 5A (optional 3A).**
- **Powerful with heavy duty power sources at maximum output current: 200A @60%.**
- **Easy operation and full functions:** from the control panel allowing fast adjustment of all necessary controls for DC Pulse TIG welding with either HF or contact ignition.

Professional Features:

- **Ideally suited for external operations:** The **HANDY TIG-200Di** light-weight and adjustable shoulder strap enable welding in the field.
- Program memory features 10 independent program memories that maintain/save your parameters.
- Voltage Reduction Device (VRD). When enabled from the set up menu reduces the open circuit voltage in STICK mode for use in electrically hazardous conditions or when the use of a VRD is required.
- Auto-reconnects for single phase 115/230V 50/60 Hz input allows the flexibility to weld in the shop or take in the field where 230V may not be available.

Outstanding Quality:

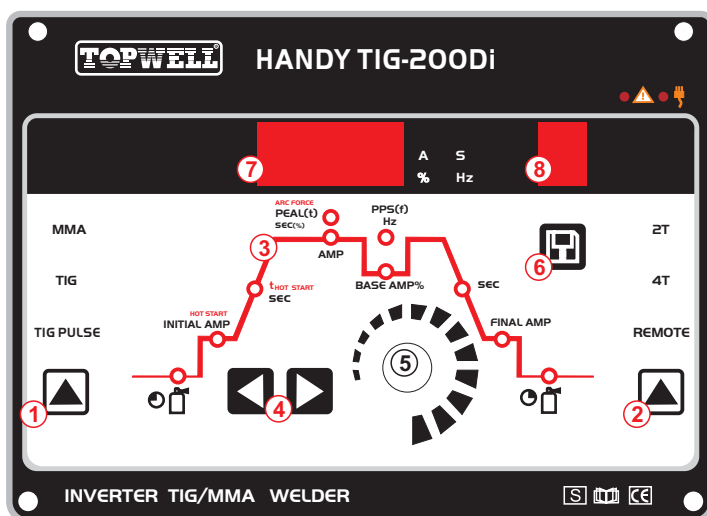
- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.



Technical specifications

| Item No | | HANDY TIG-200Di | HANDY TIG-200MV |
|-------------------------------|------------------------|---|---|
| Rated Input Voltage | | 1PH ~ 230V ±15% | 1PH ~ 115/230V ±15% |
| Max. Load Power Capacity | | TIG: 5.63KVA MMA: 6.60KVA | TIG: 5.63KVA MMA: 6.60KVA |
| Rated Duty Cycle (40°C) | 60% | TIG: 200A/18V MMA: 160A/26.4V | TIG: 200A/18V MMA: 160A/26.4V |
| | 100% | TIG: 160A/16.4V MMA: 130A/25.2V | TIG: 160A/16.4V MMA: 130A/25.2V |
| | | TIG: 3A/10.1V~200A/18V MMA: 20A/20.8V~160A/26.4V | TIG: 3A/10.1V~200A/18V MMA: 20A/20.8V~160A/26.4V |
| Welding Current/Voltage Range | | TIG: 3A/10.1V~200A/18V MMA: 20A/20.8V~160A/26.4V | TIG: 3A/10.1V~200A/18V MMA: 20A/20.8V~160A/26.4V |
| Open Circuit Voltage | | 70V~80V | 70V~80V |
| Power Factor | | 0.8 | 0.8 |
| Efficiency | | 80% | 80% |
| TIG | Pulse Frequency | 0.2Hz~200Hz | 0.2Hz~200Hz |
| | Pulse Width (Ratio) | 1%~100% | 1%~100% |
| | Arc-starting Current | 5A~200A | 5A~200A |
| | Crater-filling Current | 5A~200A | 5A~200A |
| | Current Up-slope Time | 0.1S~15S | 0.1S~15S |
| | Current Down-slop Time | 0.1S~15S | 0.1S~15S |
| | Pre-Gas Time | 0.1S~15S | 0.1S~15S |
| | Flow-Gas Time | 0.1S~15S | 0.1S~15S |
| MMA | Arc Force | 10A~160A | 10A~160A |
| | Hot Start Time | 0.1~3S | 0.1~3S |
| | Hot Start Current | 10A~160A | 10A~160A |
| Dimension (LxWxH) | | 420X190X300mm | 420X190X300mm |
| Weight (KG) | | 12KG | 12KG |

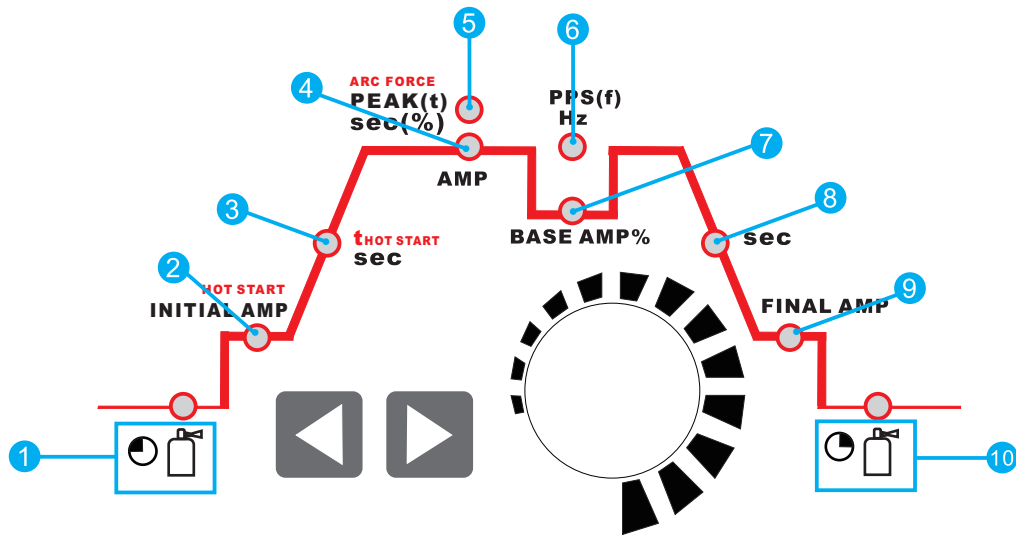
General View of Control Panel



Control Panel Parameter Values

- 1. Welding Process DC TIG** MMA/TIG/TIG PULSE
- 2. Mode** 2T(STD)
4T(HOLD)
Remote: used for foot pedal or Remote torch.
- 3. Function Sequence** (see next chapter)
- 4. Select welding parameters button**
This button is used to select the welding parameters depending on the welding process and operating mode used.
- 5. Encoder Control**
- 6. Memory:** Memory with capacity of 10 sets parameters.
- 7. Ammeter/Voltmeter Display**
- 8. Memory Display**

General View of Control Panel(continued)



| Item | Symbol | Description |
|------|------------------|---|
| 1 | | Gas pre-flow time(TIG) Absolute setting range 0.1s to 5.0s (0.1s increments). |
| 2 | | Ignition current(TIG) Percentage of the main current. Setting range 1% to 100%(1% increments). |
| 3 | | Up-slope time(TIG) Setting ranges:0.00s to 20.0s(0.1s increments). The up-slope time can be set separately for non-latched and latched. |
| 4 | AMP | Main current(TIG)/pulse current I min to max(1 A increments) Main current(MMA) I min to I max(1 A increments) |
| 5 | | Pulse time Pulse time setting range:0.01s to 9.99s(0.01s increments) TIG pulses The pulse time applies to the main current phase(AMP) for pulses. |
| 6 | | Pulse break time Pulse break setting range:0.01s to 9.99s(0.01s increments). TIG pulses The pulse break time applies to the secondary current phase(AMP%). |
| 7 | BASE AMP% | Secondary current(TIG)/pulse pause current Setting range 1% to 100% (1% increments).Percentage of the main current. |
| 8 | sec | Down-slope time(TIG) 0.00s to 20.0s (0.1s increments). The down-slope time can be set separately for non-latched and latched |
| 9 | FINAL AMP | End-crater current(TIG) Setting range 1% to 100%(1% increments).Percentage of the main current. |
| 10 | | Gas post-flow time(TIG) Setting ranges:0.1s to 20.0s(0.1s increments). |



Accessories

For Standard accessories



TIG torch: WP-26

Gas connector:M16
Cable length 4M
5-pin control coupler



Electrode holder with cable 2M
Earth clamp with cable 2M

For Optional accessories



Argon gas regular

For gas:Ar/MAG(Ar80% CO₂ 20%)
High pressure gauge:280kg/4000Psi
Flow:0-30LPM
Inlet pressure(P1):Ar/MAG:14.8MPa
Adjust the pressure(P2);0.3MPa
Meter mode:OUT type
Inlet thread:CGA580
Outlet thread:M12-1.0RH
Weight:0.8kg



Foot Pedal

Model No.:FX-390B
Serial No.:12D36
Input Voltage: + 15V
Output Voltage:0-13V