

The PROTIG 230 AC/DC FV is a compact, portable and versatile dual-process unit for AC/DC TIG welding and coated-electrode (MMA) welding. It can be used to join all types of material up to 4 mm thick (steel, stainless steel, aluminium, copper, magnesium and even titanium). PFC technology ensures that it can operate from 195 V to 265 V, and still produces a very stable arc, even if a 100m extension lead is being used.

FIVE TIG WELDING MODES

- | | |
|----|--|
| DC | <p>Standard DC: direct current welding for most ferrous materials.</p> <p>Pulsed DC: limits the temperature rise of the parts being welded. Ideal for very thin sheet metal.</p> |
| AC | <p>Standard AC: for welding aluminium and its alloys (Al, AlSi, AlMg and AlMn, etc.).</p> <p>Pulsed AC: limits the temperature rise of the parts being welded. Ideal for very thin sheet metal.</p> <p>Easy AC: predefined user settings makes using the welding unit as simple as possible. The user only has to select the tungsten-electrode diameter on the machine's user interface.</p> |



OPTIMISED TIG WELDING SETTINGS

- **SPOT mode** (AC or DC TIG): for fast and accurate spot welding before working on thin sheet metal.
- **Two ignition types:** HF contactless or HF contact for electrosensitive environments.
- **Three types of trigger control:** 2T, 4T and 4T LOG.
- Automatic torch detection: compatible with trigger and double-button torches.

Supplied with:



MMA WELDING

- **MMA :** basic and rutile electrodes (up to Ø 4 mm).
- **Pulsed MMA:** enables vertical-up welding (for pipes and pipelines, etc.).
- **Three built-in welding aids:**
 - Anti-Stick: minimises the chance of the electrode sticking to the workpiece.
 - Adjustable Hot Start: makes ignition much easier and can be adjusted in seconds depending on the type of metal.
 - Arc Force: a one-off current boost for resolving difficult welding situations.

MAXIMUM PRODUCTIVITY

- Stores up to 30 programs per welding process.
- Access to an advanced menu for maximum welding control.
- Current and voltage display both during and after the welding process (DMOS/QMOS).
- Reinforced bodywork and anti-shock pads.
- Space-saving and easy to move around the site.
- Its smart ventilation system reduces power consumption, dust intake and noise levels.
- Surge-protected up to 400 V (PROTEC 400).



A VRD (voltage reduction device), that can be activated by an internal switch, to reduce the no-load output voltage to 26 V.

ACCESSORIES (optional extras)



Mode double button
for welding torch TIG26
084216



TIG26 consumables box
044678



10m³ XL
076341

50/60 Hz	I ₂ TIG DC	I ₂ TIG AC	I ₂ MMA	INTEGRATED TECHNOLOGY			TIG DC			TIG AC			MMA			U ₀	U _R	cm	kg	IP	Protected & compatible power generator (+/-15%)
				TIG DC PULSE	TIG AC PULSE	MMA PULSE	EN 60974-1 (40°C)			EN 60974-1 (40°C)			EN 60974-1 (40°C)								
				Hz	Hz	Hz	IA (60%)	X% (I2 max)	100%	IA (60%)	X% (I2 max)	100%	IA (60%)	X% (I2 max)	100%						
110 V ~	32	10 → 140	10 → 160	10 → 120	0.1 → 900	0.1 → 20	1 → 20	120 A	20 %	100 A	120 A	20 %	100 A	100 A	75 A	76	47 x 34 x 39 cm	19.5	IP21	8.5 kW	
230 V ~	16	10 → 180	10 → 230	10 → 180						140 A			120 A	120 A	90 A	87					(VRD)