PROTIG DC & AC/DC

Portable, versatile range
of TIG machines.

The PROTIG range has been designed and developed in close collaboration with welders from all over the world, in order to address the various challenges encountered in the field.

The goal was to create a range of portable products that were easy to use, robust, had a moderate duty cycle, and could weld all types of metal. From the individual to the tradesman, from the professional welder to the industrial pipe fitter, the PROTIG is the ideal solution for all your projects. Equipped with High Frequency (HF) ignition, the tungsten electrode does not need to come into contact with the workpiece to initiate the arc, thereby avoiding any contamination of the weld.

With a range of 9 power sources for welding steel, aluminium, and many other materials, every welder will find the right product for their particular application.

The logical interface, combined with quick parameter selection using buttons, makes welding simple even for inexperienced welders. You've figured out your favourite settings? The 'JOBS' button allows you to save your parameters and recall them when you next need them for your future projects.

EASY TO TRANSPORT

The light weight and small size of this range offer a real advantage for professionals on the move.

VERSATILE

With a power output of up to 250 A, PROTIG machines deliver precise welding performance on all types of materials.

INTUITIVE

In a split second, you can switch between TIG and MMA (stick) welding.

ROBUST

The body is fitted with protective pads on all 4 sides to help withstand everyday bumps and knocks.

PROTIG DC

*Steel / Stainless steel

These DC (direct current) power sources deliver direct current, making it possible to TIG weld carbon steel, stainless steel, titanium, or copper workpieces. With ultra-compact and lightweight products, starting at 7.5kg and never exceeding 17kg, these units are ideal for welders working on thin and medium gauge materials, including pipework.

160 A	200 A	230 A	230 A	250 A

		PROTIG 161 DC	PROTIG 200 DC	PROTIG 231 DC FV (Flexible Voltage)	PROTIG 231L DC	PROTIG 250 TRI
		230 V - 1~	230 V - 1~	85 → 265 V - 1~	230 V - 1~	400 V - 3~
Current range	TIG DC	10 > 160 A	5 > 200 A	10 > 230 A	10 > 230 A	5 > 250 A
	MMA	10 > 160 A	10 > 160 A	10 > 200 A	10 > 200 A	10 > 220 A
TIG duty cycle	Imax	160 A at 20%	200 A at 20%	230 A at 23%	230 A at 23%	250 A at 35%
	60%	105 A	115 A	160 A	160 A	190 A
Integrated cooling unit		–	–	–	✓	–
VRD Protection				✓	✓	
Remote control				✓	✓	✓
Weight		7.5 kg	10 kg	10 kg	17 kg	14 kg
With accessories		062054 (4 m + 2 m + 2 m)	062009 (4 m + 2 m + 2 m)	079311 (4 m + 2 m + 2 m)	079335 (4 m + 2 m + 2 m)	082649 (4 m + 4 m)
Without accessories		–	–	079304	079328	–

* Non-exhaustive list of weldable materials.

On all the PROTIG AC/DC models, a specific ‘AC’ panel makes it easy to set 2 essential variables when welding aluminium: the balance and the frequency of the current.

EASY SYNERGIC MODE

AC Easy is the GYS synergic mode for welding aluminium, simply by selecting the diameter of the tungsten electrode. The machine automatically sets the parameters (balance and frequency).

PROTIG AC/DC

*Steel / Stainless steel / Aluminium

These AC/DC, alternating current/direct current power sources are the ideal solution for welders working with both steel and aluminium. Welding aluminium is more sophisticated in terms of technology and adjustment than welding steel, and requires the use of alternating current. These power sources are equipped with an AC EASY function for simple and rapid adjustment of alternating current parameters to suit the diameter of the tungsten electrode in use.

200 A | 200 A | 200 A | 230 A

			PROTIG 200 AC/DC	PROTIG 201 AC/DC FV (Flexible Voltage)	PROTIG 201L AC/DC	PROTIG 230 AC/DC FV (Flexible Voltage)
			230 V - 1~	85 → 265 V - 1~	230 V - 1~	85 → 265 V - 1~
Current range		TIG DC	10 > 160 A			10 > 180 A
		TIG AC	10 > 200 A			10 > 230 A
		MMA	10 > 160 A			10 > 180 A
Duty Cycle	TIG DC	60%	90 A	100 A	100 A	120 A
		Imax	160 A at 20%	160 A at 25%	160 A at 25%	180 A at 20%
	TIG AC	60%	115 A	90 A	90 A	140 A
		Imax	200 A at 20%	200 A at 13%	200 A at 13%	230 A at 20%
Integrated cooling unit			–	–	✓	–
VRD Protection			✓	✓	✓	✓
Remote control			–	✓	✓	–
Weight			12.5 kg	15 kg	20 kg	20 kg
With accessories			068742 (4 m + 2 m + 2 m)	063945 (4 m + 2 m + 2 m)	063952 (4 m + 2 m + 2 m)	083967 (4 m + 2 m + 2 m)
Without accessories			–	061828	062610	–

* Non-exhaustive list of weldable materials.

Accessories

TIG Torches

			X% DC	X% AC				
TIG 9	Air	Ø 35/50 Amphenol	110 A (35%)	80 A (60%)	Classic	4 m	Simple button original	084049
					Pro	4 m		084087
						8 m		084094
TIG 17			140 A (60%)	125 A (60%)	Classic	4 m		072213
					Pro	4 m		084124
						8 m		084131
TIG 26			180 A (35%)	150 A (35%)	Classic	4 m		072220
					Pro	4 m		084162
						8 m		084179
TIG 20	Water	Ø 35/50 Amphenol	250 A (100%)	220 A (100%)	Classic	4 m		084056
					Pro	4 m		084100
						8 m		084117

* PROTIG units with accessories are supplied with a standard TIG torch.

Interchangeable **modules**

	Simple button	Double button	Button + Potentiometer	Up & Down
Classic	084209	084216	084223	084230
Pro	084247	084254	084261	084278

PROTIG compatibility

161 DC	✓	✓	✓	-
200 DC	✓	✓	-	-
231 DC FV	✓	✓	✓	✓
231L DC	✓	✓	✓	✓
250 TRI	✓	✓	-	-
200 AC/DC	✓	✓	-	-
201 AC/DC FV	✓	✓	✓	✓
201L AC/DC	✓	✓	✓	✓
230 AC/DC FV	✓	✓	-	-

External controls

TIG Pedal
4 m - 045682

Hand-held controller
8 m - 045675

Consumables & PPE

Tungsten electrode

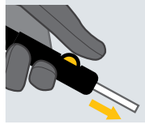
Ø 1.6 mm	072428
Ø 2.0 mm	072435
Ø 2.4 mm	072442
Ø 3.2 mm	072459

Coolant liquid

2 L	082212
5 L	062511

TIG filler metal

	Ø (mm)	↔ (cm)		
Steel (SG2)	1.6	30	60	087224
	2.0		40	087231
Stainless (316L)	1.6		60	087262
	2.0		40	087279
Aluminium (AlMg5)	1.6		60	069534
	2.0		40	087286



TIG filler metal pen
Suitable for Ø 1.0 - 3.2 mm
065857

True Color Helmets

TECHNO 11
Shade 3/11
064997

TECHNO 9/13
Shade 3/9-13
065048

GYSMATIC 2.0 CL XXL
Shade 2/4-12
069138

Gloves & Jacket

TIG Gloves
Size 10
045323

Welding jacket
330 g/m²

M	073760
L	073777
XL	073784
XXL	073791
XXXL	073807

Welding modes
& functions

PROTIG	TIG Standard / Pulse	MMA Standard / Pulse	PFC technology	FV	↗	VRD
161 DC						
200 DC						
231 DC FV	✓	✓	✓	✓	✓	✓
231 L DC			✓		✓	✓
250 DC TRI					✓	
200 AC/DC						✓
201 AC/DC FV	✓	✓	✓		✓	✓
201 L AC/DC			✓	✓	✓	✓
230 AC/DC FV			✓	✓		✓

PULSE TIG

Pulse TIG technology minimises the heat-affected zone (HAZ) and improves penetration. The current alternates between hot and cold. This reduction in HAZ results in higher quality welds with less deformation, which means it is particularly well suited for welding thin sheet material.

PULSE MMA

Pulse MMA facilitates welding when in-position. The current oscillates between a high level for fusion, and a lower level for cooling the weld pool. This reduces the risk of overheating, provides better heat control, and improves welding precision.

PFC

PFC (Power Factor Correction) technology prevents voltage peaks and regulates the supply current. It optimises energy consumption and can accommodate voltages between 185 and 265 V, meaning that you can use extension leads or power generators.

FV

The FV (Flexible Voltage) function is a technology that widens the PFC's power supply range from 85 to 265V, compared with the standard range of 185 to 265V. This means it can be powered from both 110V and 230V, enabling greater flexibility for use in different locations.

REMOTE CONTROL ↗

The hand-held remote control allows you to set and fine-tune your welding current remotely, so there is no need to return to the machine to make adjustments.
The foot pedal control allows the user to adjust the welding current, between the minimum current of the power source and the current value set on the unit, by applying pressure to the foot pedal.

VRD

The VRD, Voltage Reduction Device, reduces the output voltage of the product when it is not in the process of carrying out a weld. The nominal voltage, which enables electrode ignition, is reapplied when the electrode comes into contact with the workpiece. This feature, which can be activated from inside the power source, improves user safety by reducing the risk of electric shock. The VRD system can be used for welding activities in damp, confined environments and also in the mining industry.

INVEST IN THE FUTURE

Made in France
since 1964

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