



**SAF-FRO**

# ***PRESTOTIG***

A full range of DC and AC/DC TIG welding inverters.



2000-170

2006-639

2006-711

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 **AIR LIQUIDE**  
WELDING™

# Welding inverters for carbon steel, stainless steel and aluminum.



A compact range of DC TIG welding inverters for carbon and stainless steel, and specially, for AC/DC TIG welding of aluminum. Protected against dust by their shielded front panel, the new PRESTOTIG units will accompany you in all your operations both in the workshop and on outside sites.

## Selection criteria



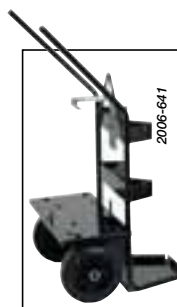
Primary power supply	Weldable materials and thicknesses*				Cooling unit	Weight	Welding current					MMA welding	Product name
	Steels		Aluminum				100	200	300	400	500		
Single-phase	4	0.5 at 3 mm			no	16,5 kg						4	PRESTOTIG 210
Three-phase	4	0.5 at 4 mm			optional	22 kg						4	PRESTOTIG 310 / 310 W
Three-phase	4	0.5 at 6 mm			standard	33 kg						4	PRESTOTIG 410 W
Single-phase	4	0.5 at 3 mm	4	0.5 at 4 mm	no	30 kg						4	PRESTOTIG 210 AC/DC
Three-phase	4	0.5 at 4 mm	4	0.5 at 5 mm	no	39 kg						4	PRESTOTIG 250 AC/DC
Three-phase	4	0.5 at 4 mm	4	0.5 at 5 mm	standard	65 kg						4	PRESTOTIG 250 W AC/DC
Three-phase	4	0.5 at 6 mm	4	0.5 at 8 mm	standard	74 kg						4	PRESTOTIG 350 W AC/DC

\* for information and according to assembly preparation

## Main advantages

### For operator comfort:

- Reduced weight and size.
- Maximum safety with electrode bias.
- Increased user-friendliness with controls grouped on the front panel, parameters memorization (AC/DC), unit transportable using carriages T1, T2 and T2A.
- Possibility to connect to a remote control or foot-operated pedal.
- Separate gas to torch connection.
- Torch with potentiometer as an option (DC).



### To meet your TIG welding requirements:

#### requirements:

- Multi-process units: TIG DC or AC, TIG DC, electrode.
  - continuous, spot, pulsed welding.
  - full welding cycle.
  - HF or lift-TIG arc striking system.
- in AC: balance adjustment, cleaning/penetration, welding with cerium electrodes (pointed) or pure tungsten electrodes (balling adjustment).
- pulsed system adjustment on front panel of the power sources, engine generator compatibility.

### For MMA welding

#### (DC+, DC-, AC):

- Automatic hot start for easier arc striking according to type of coated electrode used.
- Adjustable arc dynamics to optimize melting according to electrode type (rutile, basic or cellulosic).

### For working in difficult conditions:

High-resistance steel cabinet, protection against dust and spatter.



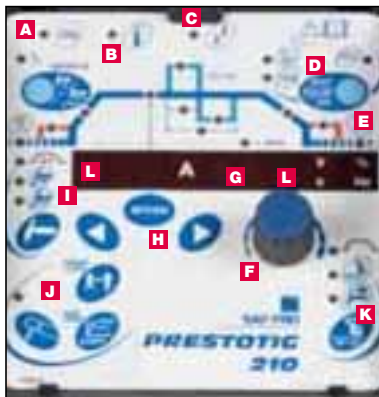
# DC up to 400 A



You will find the right choice for your application in the PRESTOTIG DC range: 200, 300 or 400 amps, air or water-cooling depending on model. Four versions with a unique and very intuitive front panel will make you operational very quickly, whatever the PRESTOTIG you choose.

## For TIG DC welding

Available in 4 versions with reduced weight and electric generator compatibility (if you do not have a power source available on site), each of our PRESTOTIG offers the same welding quality with a unique and intuitive front panel grouping all the controls necessary for optimum execution of your welding operation.



- A** Power "on" indicator
- B** Thermal safety indicator
- C** Supply voltage defect indicator
- D** Pulsed TIG / Synergic pulsed TIG / Spot TIG selection
- E** Post-gas adjustment
- F** Welding parameter adjustment
- G** Display
- H** Welding parameters selection keys
- I** 2T / 4T selection
- J** MMA welding selection
- K** Local/remote control selection
- L** Adjustment of arc striking and end of welding current

Technical characteristics:	1 PRESTOTIG 210	2 PRESTOTIG 310	3 PRESTOTIG 310 W	4 PRESTOTIG 410 W
Primary power supply	230 V (+/-10%) single-phase 50/60 Hz	400 V (-15% / +20%) three-phase 50/60 Hz	400 V (-15% / +20%) three-phase 50/60 Hz	400 V (-15% / +20%) three-phase 50/60 Hz
Absorbed power at maximum intensity	6.5 kVA	8.4 kVA	8.4 kVA	13.8 kVA
No-load voltage	80 V	80 V	80 V	80 V
Adjustment range	5 to 200 A	5 to 300 A	5 to 300 A	5 to 400 A
Duty cycle (at 40 °C)	(TIG) at 100 % 130 A at 60 % 150 A at 30 % 200 A	200 A 230 A 300 A	200 A 230 A 300 A	270 A 320 A 400 A
Max. diameter for coated electrodes	4.0 mm	5.0 mm	5.0 mm	6.0 mm
Dimensions (L x w x h)	410 x 180 x 390 mm	500 x 180 x 390 mm	499 x 180 x 650 mm	500 x 180 x 650 mm
Net weight	16.5 kg	22 kg	32 kg	33 kg
Protection class	IP 23C	IP 23C	IP 23C	IP 23C
Standards	EN 60974-1;-10	EN 60974-1;-10	EN 60974-1;-10	EN 60974-1;-10
Welding cycles	2T - 4T - spot			
Welding cycle functions	Pre and post-gas, arc rise and fading ramps with settings, electrode welding, TIG DC, pulsed TIG and synergic pulsed TIG			

# DC and AC up to 350 A



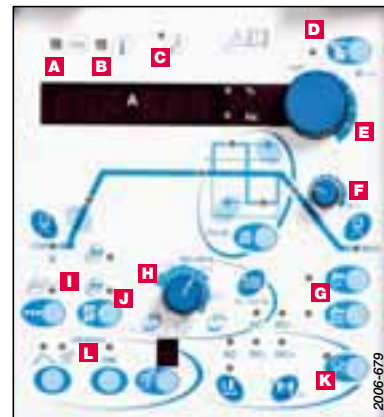
In addition to work on carbon and stainless steels, the major development of aluminum use in industry requires high-performances and multipurpose equipments, not only for maintenance operations but also for different welding applications in manufacture.



## A wide, simple, high-performance range

Available in 4 versions, from 200 to 350 amps, air or water-cooled, the new PRESTOTIG AC/DC range will allow you to handle all welding situations including the most delicate ones. A unique and very user-friendly front panel has the capacity for you to store up to 9 complete welding programs.

- A** Power "on" indicator
- B** Thermal defect indicator
- C** Supply voltage defect indicator
- D** Local/remote control selection and code locking
- E** Welding parameters adjustment
- F** Fading time adjustment
- G** TIG HF / TIG Pac-sytem arc striking selection
- H** AC balance parameters adjustment
- I** TIG spot weld adjustment
- J** 2T / 4T selection
- K** MMA welding selection
- L** Parameters memorization



5 PRESTOTIG 210 AC/DC	6 PRESTOTIG 250 AC/DC	7 PRESTOTIG 250 W AC/DC	8 PRESTOTIG 350 W AC/DC
230 V (+/-10%) single-phase 50/60 Hz	230/400/460 V (+/-10%) three-phase 50/60 Hz		400 V (+/-10%) three-phase 50/60 Hz
6.8 kVA	7.5 kVA		11.7 kVA
70 V DC	70 V DC		70 V DC
3 to 200 A (DC) - 10 to 200 A (AC)	3 to 250 A (DC) - 10 to 250 A (AC)		3 to 350 A (DC) - 10 to 350 A (AC)
150 A - 200 A	220 A 250 A (70%) -		280 A 350 A -
4.0 mm	5.0 mm		5.0 mm
540 x 260 x 510 mm	690 x 260 x 550 mm	690 x 260 x 830 mm	690 x 260 x 870 mm
30 kg	39 kg	65 kg	74 kg
IP 23C	IP 23C		IP 23C
EN 60974-1;-10	EN 60974-1;-10		EN 60974-1;-10
	2T - 4T - spot		
Pre and post-gas, arc rise and fading ramps with settings, memorization of 9 programs, DC and AC electrode welding (+/- polarity), TIG DC, pulsed TIG			

# TIG range

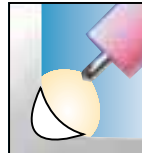
Our PRESTOTIG welding units are delivered complete, with or without cooling unit. They can be complemented by a carriage, a pressure regulator and a torch, all available in the form of a ready-to-use package. A remote control or foot-operated control pedal can be supplied as options for your PRESTOTIG unit.

## To order

	PRESTOTIG				PRESTOTIG AC/DC			
	210	310	310 W	410 W	210	250	250 W	350 W
<b>Power source part number</b>	W 000 262 979	W 000 262 981	W 000 265 599	W 000 265 519	W 000 262 987	W 000 265 362	W 000 262 990	W 000 262 991
<b>COOLERTIG</b>	-	-	Built in	Built in	-	-	-	-
<b>Part number of package* (including power source + torch + pressure regulator)</b>	W 000 265 124	W 000 265 125	W 000 265 126 with trolley	W 000 265 127 with trolley	W 000 265 128	W 000 265 130	W 000 265 131 with trolley	W 000 265 132 with trolley
<b>Add-ons</b>								
<b>Trolley</b>	W 000 263 310			W 000 263 308		W 000 263 309		
<b>Remote control</b>	W 000 263 311			W 000 263 312				
<b>Foot-operated control pedal</b>	W 000 263 313			W 000 263 314				
<b>QUICKFLOW pressure regulator-flowmeter</b>	0961-1115							
<b>Tungsten or cerium electrodes diam. 2.0 mm</b>	W 000 010 024							
<b>diam. 2.4 mm</b>	W 000 010 025							
<b>diam. 3.2 mm</b>	W 000 010 027							

## Our PRESTOTIG are delivered with:

- 1 x 3-meter power supply cable (with 16 A plug for single-phase models)
- 1 x 3-meter earth cable with earth clamp
- 1 x 1.5-meter gas hose + intermediate connection
- 1 x user and maintenance manual



Pure tungsten electrode



Cerium electrode

We recommend the use of cerium electrodes for better penetration in angles for aluminum welding (AC).

## Add-ons:

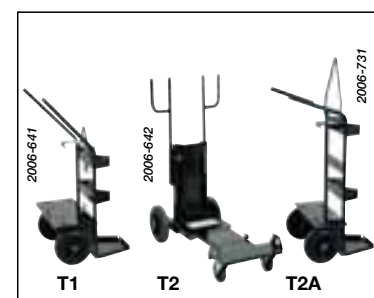
 2006-649	<b>Remote control</b> • RC1 for PRESTOTIG DC range W 000 263 311	 2002-475	<b>QUICKFLOW pressure regulator-flowmeter with preset flow rate</b> Cat. no. 0961-1115
 2006-650	<b>Remote control</b> • RC2 for PRESTOTIG AC/DC range W 000 263 312	 2006-207	<b>Mask</b> EUROLUX JET ADVANCE Cat. no. W 000 261 354 (version 3 000) Cat. no. W 000 261 355 (version 4 000)
 0254-034	<b>PROTIG maintenance box</b> Cat. no. 0429-9001 (PROTIG 10 RLS) Cat. no. 0429-9002 (PROTIG 20 RLS)	 2006-651	• <b>Foot-operated control pedal FP1 for PRESTOTIG DC range</b> Cat. no. W 000 263 313
		 2006-652	• <b>Foot-operated control pedal FP2 for PRESTOTIG AC/DC range</b> Cat. no. W 000 263 314

A range of 3 TIG carriages for easy transport of:

- PRESTOTIG unit, according to model
- COOLERTIG cooling unit (DC)
- Gas bottle (size B20 max.)
- Torches and accessories that can be carefully stored or rolled

3 models of carriage to make your PRESTOTIG transporting and storing easier:

- T1 for PRESTOTIG DC units
- T2 for PRESTOTIG 210 AC/DC units
- T2A for other PRESTOTIG AC/DC models



\* For French market



## Contacts

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