

# ***AVISO and ADMIRAL***

A dedicated TIG welding range of installations ideal for yard or workshop applications, DC or AC/DC TIG welding.



**AVISO**

**Thyristor  
technology**

**ADMIRAL 350**



**ADMIRAL 500 AC/DC**



# AVISO range of thyristor controlled DC and AC/DC



Using a well proven thyristor technology, the AVISO range of machines are ideally suited for yard application and particularly for maintenance operation. Available with 250 or 350 amps in DC mode, these three phase installations will provide you with perfect TIG direct current welding and can also be used for welding with coated electrodes for non alloyed and stainless steel.

Thyristor technology

## Power and reliability

- Easy to use
- Regulated current
- HF striking
- Excellent arc stability
- Welding with cellulosic electrodes
- Large wheels
- Water cooling in option (350 model)



- 1 Current adjustment
- 2 Post-gas adjustment
- 3 Selection and read-out of voltage or welding current
- 4 Remote control connection
- 5 TIG or coated electrodes welding selector
- 6 Welding selector 2T / 4T
- 7 Arc fading adjustment
- 8 Defect indicator

Technical characteristics	AVISO 250 DC	AVISO 350 DC
<b>Primary</b>		
Threephase power supply	230/400 V - 50/60 Hz	230/400 V - 50/60 Hz
Consumption at max. current	35 A (230 V) - 21 A (400 V)	61 A (230 V) - 35 A (400 V)
<b>Secondary</b>		
No-load voltage	97 V	103 V
Welding current	7 to 250 A	5 to 350 A
Duty cycle at 40 °C	at 100 %	140 A
	at 60 %	180 A
	at 30 %	250 A at 35 %
Protection index	IP 23	
Maximum electrode diameter	5 mm	6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	650 x 460 x 720 mm
	Net weight	104 kg
Standards	EN 60974-1;-10	
<b>To order</b>		
Power source without accessories	W 000 263 713	W 000 263 714
Power source with water cooled unit	-	9157-0413
<b>Options</b>		
Manual remote control	0389-0310	
Foot pedal	0389-0311	

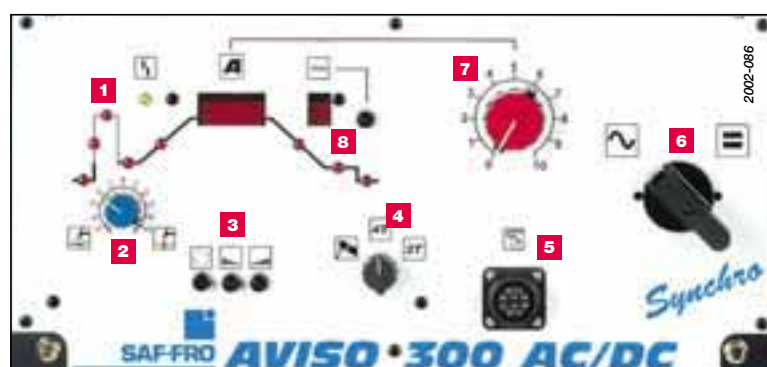
# welding installations



**AVISO 300 AC/DC Synchro** is a multi-voltage power source (220/380/415 V) with a robust reinforced structure and presenting excellent arc stability thanks to the arc stabilizer fitted as standard. Machine is available in both stand alone air cooled version or water cooled version on trolley.

## Versatile

- HF striking with adjustable striking dynamics
- Mode 2T/4T/EE (coated electrode)
- Complete TIG welding cycle with LED
- Welding in pulsed mode with remote control
- Digital display of the parameters
- Memory for 10 programs



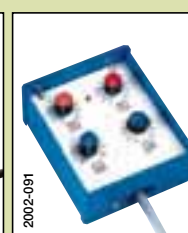
- 1** Flashing current during striking
- 2** Adjustment of the balance
- 3** Cycle navigator
- 4** Choice of the welding mode
- 5** Connection of a remote controller
- 6** AC or DC selector
- 7** Adjustment of the intensity
- 8** Selection, memorization and recall of the stored programs

Technical characteristics		AVISO 300 AC/DC
<b>Primary</b>		
Single phase power supply		220/380/415 V - 50/60 Hz
Consumption at max. current		112 A (220 V) / 65 A (380 V) / 62 A (415 V)
<b>Secondary</b>		
No-load voltage		82 V
Welding current		10 - 310 A (DC) - 30 - 310 A (AC)
Duty cycle at 40 °C	at 100 %	160 A
	at 60 %	205 A
	at 35 %	310 A
Protection index		IP 23
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	760 x 515 x 875 mm
	Net weight	182 kg (air) - 229 kg (water cooled on trolley)
Standards		EN 60974-1;-10
<b>To order</b>		
Power source without accessories		W 000 264 210
Power source with water cooled unit on trolley		W 000 264 211
<b>Options</b>		
Remote controller	Box	0387-4044
	Box for pulsed current	0387-1123
Extension cable 15 m for remote		0387-4031
Trolley		0387-1059

## Options



Remote controller  
Cat. no:  
0387-4044



Remote controller for pulsed current  
Cat. no:  
0387-1123

# ADMIRAL: modern inverter technology

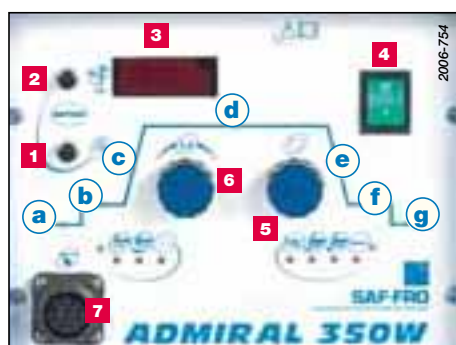


ADMIRAL 350 DC is a powerful and modern three phase inverter multipurpose TIG DC welding installation. Compact and easily manoeuvrable with its large wheels, doted with the latest technology including a PC connection, ADMIRAL will allow you welding in DC- and DC+, continuous welding, TIG spot, pulsed TIG and with coated electrode.



## Compact and powerful

- Easy to use
- Regulated current
- HF striking
- Excellent arc stability
- Welding with cellulosic electrodes
- Large wheels
- Compact installation with integrated cooling unit



- 1 Printing
- 2 Access to the menu and save
- 3 Display of the welding parameters
- 4 On/off switch
- 5 Choice of the welding cycle
- 6 Adjustment of the parameters value
- 7 Remote control connection



## Description of the cycle

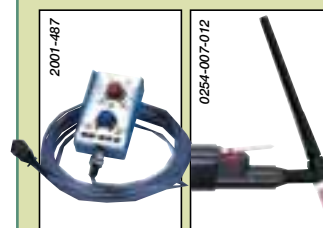
- |                                   |                     |
|-----------------------------------|---------------------|
| a Pre-gas                         | e Arc slope-out     |
| b Pre-weld current                | f Post-weld current |
| c Slope-up of the welding current | g Post-gas          |
| d Welding current                 |                     |

Technical characteristics		ADMIRAL 350 DC
<b>Primary</b>		
Three-phase power supply		400 V +/- 10% - 50/60 Hz
Consumption at max. current		21.7 A (TIG) - 28.6 A (MMA)
<b>Secondary</b>		
No-load voltage		99 V
Welding current		4 - 350 A
Duty cycle at 40 °C	at 100 %	220 A
	at 60 %	260 A
	at 25 %	350 A
Protection index		IP 23
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	1 090 x 610 x 970 mm
	Net weight	99 kg
<b>To order</b>		
Power source without accessories		W 000 263 715
<b>Options</b>		
Remote controller	BB BOX (MMA-TIG)	9160-1071
	Pulsed current	0389-0328
Power box: auto transformer 230/400 V three phase Allows to supply the machine with 230 V three phase		9160-1056

## Options



**POWER BOX** : allows to supply the power sources (inverters) with 230 V three phase



Remote controller  
BB-BOX

Torch  
PROTIG

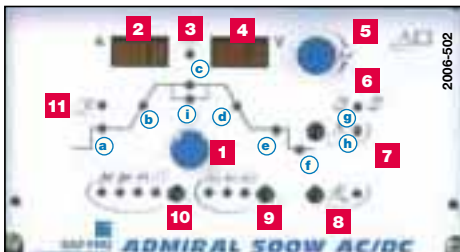
# TIG DC or AC/DC welding up to 500 amps.



**ADMIRAL 500 AC/DC** is a high power AC/DC TIG and coated electrode manual welding machine providing excellent welding performances in all conditions and up to 400 amps at 100% duty cycle. Doted with the latest Digital Signal Processor (DSP) technology, AC noise reduction and enhance performance are provided through a range of wave-form setting options.

## High power (400 A at 100% and 500 A maximum)

- Numerical control of the process with DSP (Digital Signal Processor)
- memorization of 15 programs,
- multi-process: DC or AC TIG, TIG spot, pulsed TIG, coated electrode DC+, DC- or AC,
- compact installation with integrated cooling unit,
- AC noise reduction and enhanced performance by a range of wave-form setting options,
- in TIG, single-electrode use possible, whether in DC or AC welding mode (cerium electrode with sharpened point) to enhance penetration power of arc.



- 1 Parameter selector
- 2 Current display
- 3 Memory display (last welding performed)
- 4 Voltage display
- 5 Parameter setting
- 6 Balance adjustment (cleaning time/penetration)

- 7 Electrode size setting
- 8 For recording and reading programmes
- 9 Choice of welding process
- 10 Choice of welding mode
- 11 Pulsed function

## Description of the cycle

- |                       |                            |
|-----------------------|----------------------------|
| (a) Pre-weld current  | (f) Post-gas               |
| (b) slope up          | (g) Balance                |
| (c) Welding current   | (h) Electrode diameter     |
| (d) Arc slope out     | (i) Second trigger current |
| (e) Post weld current |                            |

Technical characteristics:		ADMIRAL 500 AC/DC
<b>Primary</b>		
Three-phase power supply		230 / 400 V 50-60 Hz
Consumption at max. current		48 A (230 V) – 35 A (400 V)
<b>Secondary</b>		
No-load voltage		100 V
Welding current		4 to 500 A (TIG) - 70 to 350 A (MMA)
Duty cycle at 40 °C	at 100 %	400 A (TIG) - 350 A (MMA)
	at 60 %	450 A (TIG) - 400 A (MMA)
	at 35 %	500 A (TIG) - 450 A (MMA)
Protection index		IP 23
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	960 x 590 x 1 170 mm
	Net weight	149 kg
Standards		EN 60974-1;-10
<b>To order</b>		
Power source without accessories		W 000 263 716
<b>Options</b>		
Remote controller	Frequency, balance	0387-1116
	Pulsed current, frequency, cycle ratio	0387-1117
Foot pedal		0387-1119

## Options



Remote controller - Frequency, balance



Remote controller - Pulsed current, frequency, cycle ratio



## Contacts

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