

Cruiser 322 AC/DC 402 AC/DC 502 AC/DC





Antwerpsesteenweg 949 9041 Gent - Oostakker info@welda.be T +32 (0)9 355 74 26 www.welda.be F +32 (0)9 355 92 01 ENG

Cruiser 322 AC/DC TIG AC/DC HF - MMA





Cruiser 322 AC/DC Technical Data



The Cruiser 322AC/DC is a high sophisticated three Phase Inverter TIG AC/DC portable welding machine. **The Cruiser 322AC/DC** has been designed particularly for extremely precise constructions, in petrochemical plants, food industry and other activities which require very high welding performance.

- 50 programs can be loaded and saved in memory
- Remote controls are available: for torch (UP&DOWN, potentiometer), foot pedal or remote control unit
- Cooling unit is also available

		Cr	uiser 322AC/D	С			
₽₽	3x400Vac ± 15% @ 50-60Hz						
	25A@						
<u>~</u>	TIG - WIG			ММА			
0∕0 40°C	45%	60%	100%	45%	60%	100%	
►I₂	320A	280A	240A	300A	270A	240A	
I_2	5A - 320A			10A – 300A			
U₀	11/72V			11/72V			
	14,7kVA – 11,3kW						
IP	23						
14	690 x 290 x 450mm						
Ôôô	46,4Kg						

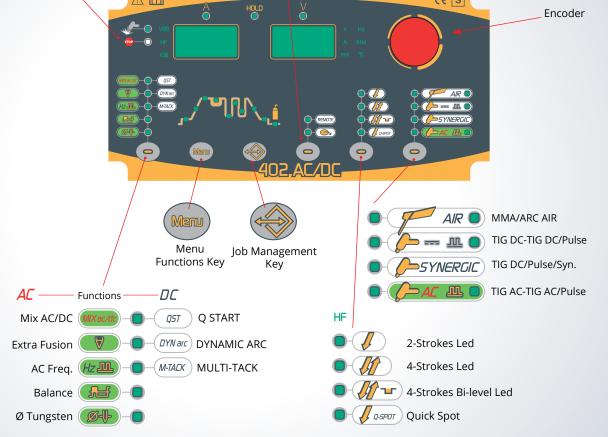




3

Cruiser 402 AC/DC TIG AC/DC HF - MMA - ARC AIR







Cruiser 402 AC/DC Technical Data



The Cruiser 402AC/DC is a high sophisticated three Phase Inverter TIG AC/DC portable welding machine. **The Cruiser 402AC/DC** has been designed particularly for extremely precise constructions, in petrochemical plants, food industry and other activities which require very high welding performance.

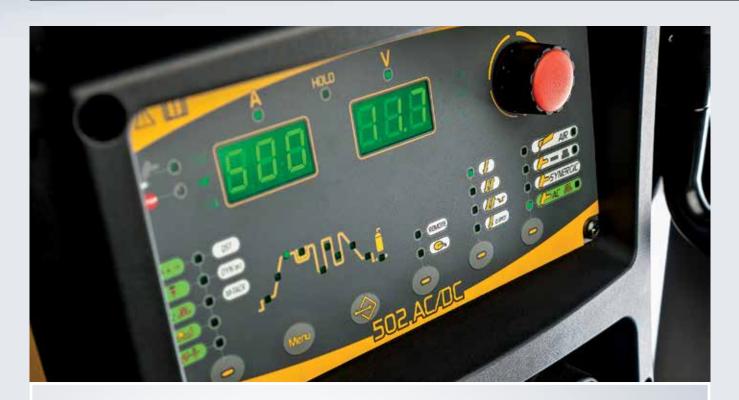
- 50 programs can be loaded and saved in memory
- Remote controls are available: for torch (UP&DOWN, potentiometer), foot pedal or remote control unit
- Cooling unit is also available
- Possibility to upgrade to multifunction

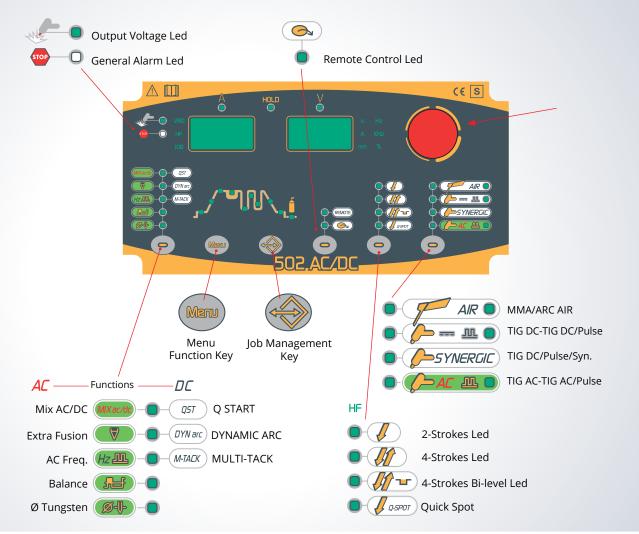
		C	ruiser 402AC/D	C			
₽₽	3x400Vac ± 15% @ 50-60Hz						
	32A@						
<u>~</u>	TIG - WIG			MMA			
% 40°C	50%	60%	100%	50%	60%	100%	
►I₂	400A	380A	340A	400A	370A	340A	
I2	5A - 400A			10A - 400A			
U.	9/81V						
Рімах	18,4kVA – 16,8kW						
IP	23						
۲4	690 x 290 x 450mm						
ට්රීඊ	56,5Kg						





Cruiser 502 AC/DC TIG AC/DC HF - MMA - ARC AIR







Cruiser 502 AC/DC Technical Data



The Cruiser 502AC/DC is a high sophisticated three Phase Inverter TIG AC/DC portable welding machine. **The Cruiser 502AC/DC** has been designed particularly for extremely precise constructions, in petrochemical plants, food industry and other activities which require very high welding performance.

- 50 programs can be loaded and saved in memory
- Remote controls are available: for torch (UP&DOWN, potentiometer), foot pedal or remote control unit
- Cooling unit is also available
- Possibility to upgrade to multifunction

		Cı	ruiser 502AC/D	С			
₽₽	3x400Vac ± 15% @ 50-60Hz						
	40A@						
	TIG - WIG			ММА			
0∕0 _{40°C}	30%	60%	100%	30%	60%	100%	
۲Į	500A	380A	340A	500A	370A	340A	
I2	5A - 500A			10A - 500A			
U.	9/81V						
Рімах	25,5kVA – 23,4kW						
IP	23						
14	690 x 290 x 450mm						
ට්රිඊ	56,5Kg						





Cruiser 322-402-502 AC/DC **Special Functions**



This symbol highlights Weco's constant care for ecological issues and new technologies which have been introduced to reduce the environmental impact. Cruiser 322 - 402 - 502AC/DC introduce new technological solutions in order to reduce the harmonic current emissions according to the future International Standards, to increase even more the power inverter efficiency. The same welding deposit is achieved with less electrical power, less total power and less CO2 emission for the safety of Planet Earth.



Pre-set balanced parameters, stored in the Synergic Pulse TIG DC SYN curve, simplify Pulsed welding by adjusting only welding current.



The pulse TIG with frequency until 2500Hz allows to weld very thin materials with easy arc control and very low heat input on workpiece.



The Q-START (Quick Start) function facilitates the joining of the parts in the initial stage of the welding process. On activating this function the machine automatically switches to Synergic pulsed mode for a preset time. The resulting pulses create movement of the molten metal on the two sheet metal edges thereby accelerating formation of the join. This function is invaluable in the case of seams with slight openings or with irregular preparation. The duration of the series of pulses can be adjusted, (from 0.1 to 60 second) depending on the thickness and shape of the sheet to be welded.

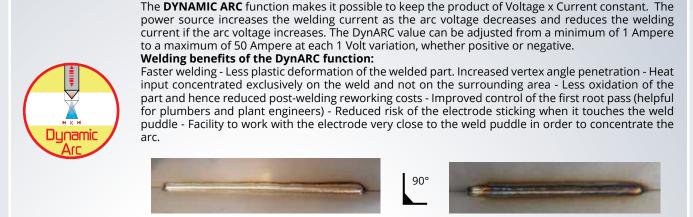




Antwerpsesteenweg 949 9041 Gent - Oostakker info@welda.be www.welda.be

+32 (0)9 355 74 26 F +32 (0)9 355 92 01





Dynamic Arc TIG welding

The **Q-Spot** (Quick Spot) function makes it possible to minimise tacking times for light gauge sheet metal. The operator conveniently places the tungsten electrode on the fixing point, thereby obtaining perfect control of the position of the join. Once the electrode has been lifted the machine emits a very high intensity welding current pulse with a very short preset time (from 0.01 Sec to 10 Sec). The pulse time varies depending on the type of sheet metal to be joined. In this way the welded point closes instantly with minimum heat transfer, leaving the metal white, clean and almost cold.



Pipe butt weld Ø 31.75 x 2 mm



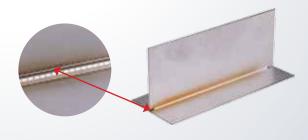
Corner spot welding thichness 0,6 mm 90°



Standard TIG welding

The **MULTITACK** system makes it possible to reduce heat output while joining two light gauge parts. The series of arc strikes at short time intervals allows the material to cool during the pause between one strike and the other and thus minimizes its deformation. The facility to adjust the frequency of the series of arc strikes in the time unit makes it possible to adapt the electric arc to the welding speed and the joint geometry.







Antwerpsesteenweg 949 9041 Gent - Oostakker info@welda.be www.welda.be

9

+32 (0)9 355 74 26 +32 (0)9 355 92 01

Cruiser 322-402-502 AC/DC Special Functions

Thus function makes it possible to shift the waveform towards the negative part with respect to zero. This makes it possible to create a highly penetrative and precise fusion bath so that very light gauge sheets can be welded with an electrode tip comparable to that of an electrode for DC - TIG welding. The adjustable value in our AC/DC TIG power sources ranges from 0% to 80% (with respect to the DC half-wave percentage). The Extra Fusion function is not recommended when welding heavy gauges because the DC+ component is insufficient to ensure optimal cleaning (pickling) of the part during the welding process. Particular on the fillet welding. Fillet welding of specific 0,8mm It is possible to notice thickness sheet the remarkable degree of finishing and the high welding precision

> This function MIX AC/DC makes it possible to modulate the welding current, alternating a halfperiod of TIG AC with a half-period of TIG DC. This means that the efficacy of AC TIG welding can be combined with the high penetration of DC TIG welding, thus obtaining high welding speed and creating the weld puddle rapidly on a cold workpiece. It is also possible to weld heavier gauges with lower amperage, since the DC- portion is far higher than when using an entirely AC waveform. The operator adjustable parameter is the percentage of AC waveform compared to DC- waveform over the entire period, which can be varied from 10% to 80%.



Main benefits of MIX AC/DC:

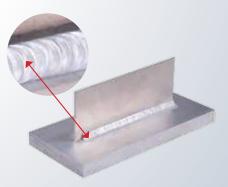
- Welding of heavy gauge sheets with lower current than necessary when using an exclusively AC supply - Very fast execution thanks to the high percentage of DC -

current present in the period - Very fast creation of the weld puddle (ideal for facing of

tools, dies and heavy gauge castings)

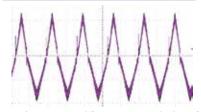
- Welding of extremely diverse thickness sheets (1 mm to 10 mm).

It is good practice never to exceed the value of 50% DC waveform, which would otherwise impair pickling of the part and the appearance of the weld bead.



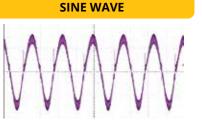
Effects of the different wave forms by TIG AC welding

TRIANGULAR WAVE

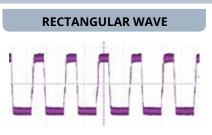


It is characterized from a particularly soft This wave form is ideal for very precise trol.

> +32 (0)9 355 74 26 +32 (0)9 355 92 01



It is the standard wave form, characterized by low noise and excellent arc con-



This allows a deep penetration and higher welding speed; the cleaning effect is also increased. This specific wave, compared with other rectangular waves present in the market, results to emit particular low noise.



and concentrated arc.

welding of thin Aluminum plates.

Antwerpsesteenweg 949 9041 Gent - Oostakker info@welda.be www.welda.be

Cruiser 322-402-502 AC/DC

Plus and Accessories





PLUS



STRUCTURAL STRENGTH

The structural strenght of the Cruiser 322 - 402 - 502AC/DC is very robust in any working environment.



The robust wheels of the Cruiser 322 - 402 - 502AC/DC allows smooth movement of the power source.

ROBUST

WHEELS



The Cruiser 322 - 402 - 502AC/DC can be easily moved around any workplace thanks to our robust trolley.



11

Antwerpsesteenweg 949 9041 Gent - Oostakker info@welda.be www.welda.be LASSEN | MACHINES | GEREEDSCHAI

⊤ +32 (0)9 355 74 26 F +32 (0)9 355 92 01

A solid industrial activity, where the production is based on substantial investments for the supporting of research, projection and continuous testing.

Since 1997 Weco has been producing and selling welding machines

Both registered office and production plant are based on the north east of Italy. Our offices, technical/project department, production and warehouse are able to serve both our national and international sales net. A wide range of welding machines together with a huge stock, allow us to encounter and fully satisfy our customers' requests in short time.

A dynamic management supported by solid experience on the main sales ´ arguments and a deep knowledge on the application issues, allow this company to be ahead in the welding sector.

WECO means better solution for improving the production, optimizing the intervention time, minimizing the processes ´ costs, with the highest perform-standards granted.

