



The Power Source: Cruiser 322T- 402T-502T

TIG DC - Modular Multifunction



MMA



The Cruiser 322T-402T-502T allows for the setting of different coated electrodes' types: CELLULOSIC - BASIC - RUTILE -CrNi- ALUMINIUM **TIG DC**



Weco have developed new innovative TIG functions in order to find an effective solution to any application, which will make the impossible become possible!

GOUGING/ARC AIR

(only 402T - 502T)

The Arc Air process provides high quality gauging with up to 6mm (Cruiser 402T) and 8mm (Cruiser 50T) carbon electrode.

The Power Source: Cruiser 322T- 402T-502T Technical Data

The **Cruiser 322T - 402T - 502T** are industrial Three Phase inverter power sources for TIG AC and DC welding. TIG AC functions are ideal for aluminum, magnesium and related alloys welding, while mild steel, stainless steel and copper can be easily welded in TIG DC.

The **Cruiser 322T - 402T - 502T** are specifically designed for high definition construction, petrol/chemical plants, food& beverage industry and shipyards.

	Cruise	r 402T			Cruise	er 502T				
D₽⊃	3x400Vac ± 15	5% @ 50-60Hz	3x400Vac ± 15% @ 50-60Hz							
	32/		40A@							
	TIG - WIG	MMA		TIG - WIG MMA						
% 40°C	100%	100%	50%	60%	100%	50%	60%	100%		
►I₫	400A	400A	500A	460A	400A	500A	450A	400A		
I2	5A - 400A	10A - 400A	5A - 500A 10A - 500A							
U.	9-8	9-81V								
Рмах	18,4kVA -	25,5kVA - 23,4kW								
IP	2	23								
14	690 x 290	690 x 290 x 450mm								
Ôôô	55,2	55,2Kg(Power Source)								

			Cruise	r 322T		
₽₽		3x40	0Vac ± 15	5% @ 50-	60Hz	
			25/	A@		
		TIG - WIG	i		MMA	
% _{40°C}	-	60%	100%	-	60%	100%
►I₂	-	320A	260A	-	300A	250A
I.		5A - 320A	A	1	0A - 300	A
U₀		11/74V			11/74V	
Рімах			14,3kVA	- 11,0kW		
IP			2	3		
14		6	90 x 290	x 450mr	n	
ට්ට්ඊ		Z	15,0Kg (Po	wer Sourc	e)	

Lateral ventilation

The advanced ventilation system allows an optimal Duty Cycle: 322T: 250Ampere at 100% (40%C). 402T-502T: 400Ampere 100% at 40°C.

A better cooling of the inner components increase the generator's reliability. All of the electronic components are placed outside the airflow, this make the generator also suitable for working in particularly dusty conditions.





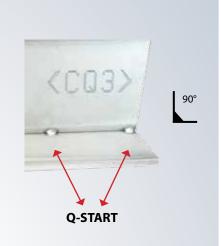
The Power Source: Cruiser 322T-402T-502T

Professional TIG/MMA Power Source



The **Q START** (Quick start) function facilitates 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.





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.



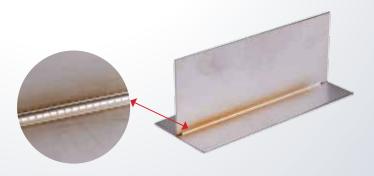
Corner spot welding thichness 0,6 mm.

90°





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 next and thus minimize 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.



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Professional TIG/MMA Power Source



The **DYNAMIC ARC** function makes it possible to keep the product of Voltage x Current constant. The power source increases the welding current as the arc voltage decreases and reduces the welding current if the arc voltage increases. The DynARC value can be adjusted from a minimum of 1 Ampere to a maximum of 50 Ampere at each 1 Volt variation, whether positive or negative.

Welding benefits of the DynARC function:

Faster welding - Less plastic deformation of the welded part. Increased vertex angle penetration - Heat output concentrated exclusively on the weld and not on the surrounding area - Less oxidation of the part and hence reduced post-welding reworking costs - Improved control of the first root pass (helpful for plumbers and plant engineers) - Reduced risk of the electrode sticking when it touches the weld puddle - Facility to work with the electrode very close to the weld puddle in order to concentrate the arc.

90



Dynamic Arc TIG welding



Standard TIG welding



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

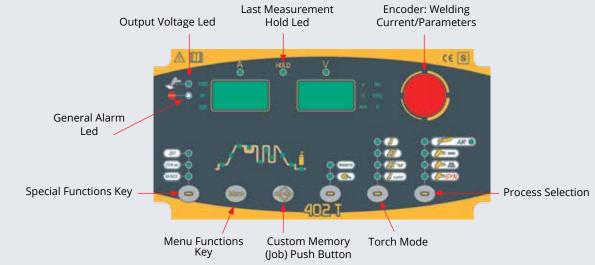


Pre-set balanced parameters, stored in the Synergic Pulse TIG DC SYN curve, simplify Pulsed welding by adjusting only welding current.

MIG/MAG PULSE/DOUBLE PULSE/SYNERGIC - TIG DC HF - MMA - ARC AIR



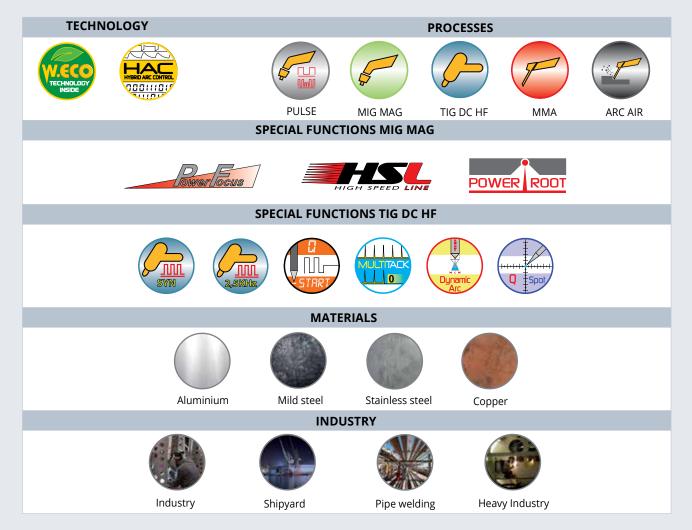
Front Panel Power Source



Power Pulse 322T-402T-502T Technical Data

The **Power Pulse 322T - 402T - 502T** are industrial 3 Phase Inverter Power Sources with extremely high duty cycle, fitted with separated wire feeders for MIG MAG SYN and MIG MAG PULSE and DOUBLE PULSE. A wide range of MIG-MAG synergic programs facilitate the selection of precise welding parameters using any welding wires. High performances are guaranteed by MIG MAG functions, HSL, Power Focus and Power Root. MMA, TIG DC HF and ARC AIR (only 402T - 502T) processes are also available.

	Power Pulse 322T						Power Pulse 402T			Power Pulse 502T								
₽₽	3x400Vac ± 15% @ 50-60Hz				3x400Vac ± 15% @ 50-60Hz			3x400Vac ± 15% @ 50-60Hz										
	25A@						32A@			40A@								
	MIG-MAG TIG-WIG		MMA		MIG-MAG	TIG-WIG	MMA	MIG-MAG		TIG-WIG			MMA					
% 40°C	60%	100%	60%	100%	60%	100%	100%			50%	60%	100%	50%	60%	100%	50%	60%	100%
►Iz	320A	260A	320A	260A	300A	250A	400A		500A	450A	400A	500A	460A	400A	500A	450A	400A	
I2	20A -	320A	5A - 3	320A	10A -	300A	20A - 400A 5A - 400A 10A - 400A			204	DA - 500A 5A - 500A 10A - 500A						20A	
U.	10/73V				9-81V					9/81V								
Рмах	15,2kVA – 11,6kW				18,4kVA – 16,8kW				25,5kVA - 23,4kW									
IP	23				23			23										
14	1160 x 670 x 1530mm (H ₂ 0)				1160 x 670 x 1530mm (H ₂ 0)			1160 x 670 x 1530mm (H ₂ 0)										
Ôôð	144Kg (H ₂ O)						153,4Kg (H ₂ O)			153,4Kg (H ₂ 0)								

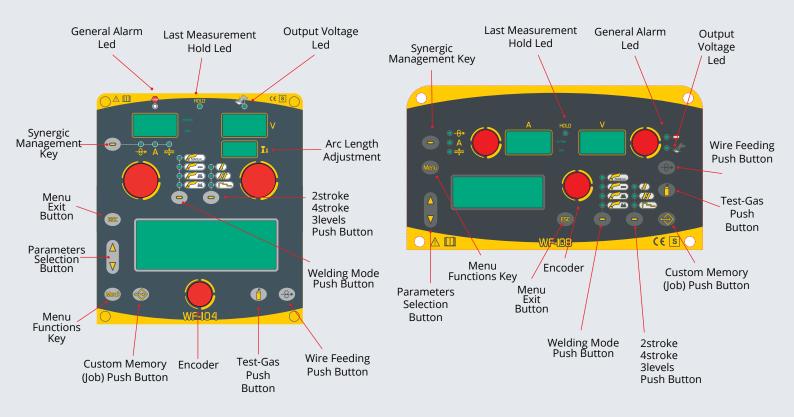


WF104 - WF108 Wire Feeder for Power Pulse 322T - 402T - 502T



Front Panel WF104

Front Panel WF108



WF104 - WF108 Technical Data



	WF104		WF108
D₽	42VDC	₽₽	42VDC
Рмах	120W	Рмах	120W
r.p.m.	270	r.p.m.	270
→	1,5 - 24,0m/min	_ € →	1,5 - 24,0m/min
	n°4 (ø37mm - ø19mm)		n°4 (ø37mm - ø19mm)
*	Fe 0,6 - 1,6mm	*	Fe 0,6 - 1,6mm
*	Al 0,8 - 3,2mm	*	Al 0,8 - 3,2mm
	FCW 1,0 - 3,2mm		FCW 1,0 - 3,2mm
*	200mm (5Kg) - 300mm (15 Kg)	1	200mm (5Kg) - 300mm (15 Kg)
IP	23	IP	23
t4.	670x 245 x 470mm	14	680 x 280 x 380mm
Ôôð	23,8Kg	ට්රීඊ	15,8Kg

Power Pulse 322T-402T-502T Plus and Accessories

PLUS **STRUCTURAL** ROBUST EASY WHEELS CARRIAGE STRENGTH The robust wheels of the Power The Power Pulse 322 - 402 - 502 The structural strenght of the Power Pulse 322T-402T-502T allows can be easily moved around any Pulse 322T-402T- 502T is very robust in smooth movement of the power workplace thanks to our robust any working environment. source. trolley. ACCESSORI

KIT PUSH PULL



UPGRADING SOFTWARE



DIGIMANAGER TORCH



RC 08 **REMOTE CONTROL**

Special Functions



W.ECO Technology Inside Lower harmonic current emissions

W.ECO technology according to EN-60974-10, reduces harmonic current emissions.





WECO unique HAC (Hybrid Arc Control) supplies a soft and very stable MIG-MAG welding arc with excellent weld bead quality and minimal spatter in any working conditions.



1 - Higher execution speed

The high dynamics applied to the pulsation of HS Pulse arc gives an extremely and focused arc that increases the fluidity and pression of transfer as well as the wettability of joints.

This allows the operator (or automatism) to proceed much faster with the torch offering up to 35% in time saving.

2 - Higher deposition rate

The high dynamics applied to the pulse of Pulse HS arc allows for an increase in wire's speed whilst keeping same current value when welding in Standard Pulse. The increase in the quantity of wire in to the pool increases consequently the weight of deposit in the unit of time (Kg/h).

3 - Lower heat input and less plastic deformation

In Pulse HS mode the heat input is much lower (35%) than with Standard Pulse.

4 - Better mechanical properties

From our tests carried out we established that tensile strengths values in the Pure Deposit and Heat Affected Zone (HAZ) are much higher in Standard Pulse. This means that the higher heat input increased considerably the tensile strengths. In HS Pulse, hardness and tensile strengths are in line with the class which the base metal belongs to, therefore the heat input has no influence in the welded material.

5 - Higher penetration, offers lower risk of lack of fusion

Penetration obtained in HS Pulse (P2) is considerably higher compared to that of Standard Pulse (P1).

Moreover the weld face is smoother thanks to the excellent joints' wettability.

6 - Lower production costs and depreciation

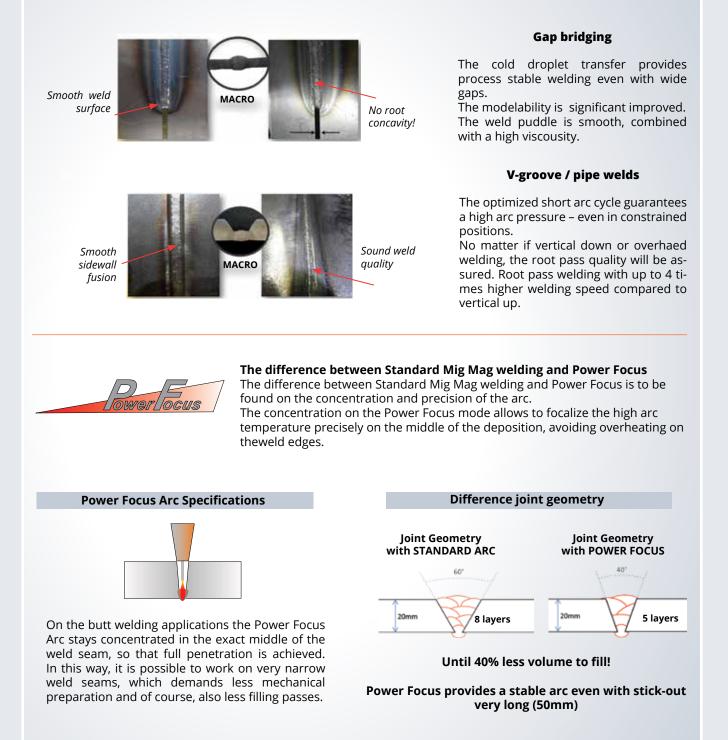
The higher execution speed combined with the higher deposition rates reduces remarkably both times and working costs. Less defects on the material and almost no need of reworking allow a always better amortization.

Special Functions



The **Power Root function** has been developed for improving and simplifying the root pass welding on seams. The Power Root Arc is perfectly suited for the joining of weld seams which have significant gap and irregular preparation. The arc remains highly stable on several different applications and allows optimal control of the welding puddle, especially in the vertical down position.

Power Root results are extremely easy to adjust, therefore making it easy for welders without the a great deal of experience on these types of seams.



Twin feeder - Air Cooled



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.



WELD THE WORLD

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