

Power Pulse 322-402-502 Cruiser 322-402-502 Synergic



The Power Source: Cruiser 322-402-502

MMA - Modular Multifunction



MMA



The Cruiser 322-402-502 allows for the setting of different coated electrodes ´ types: CELLULOSIC -BASIC - RUTILE - CrNi- ALUMINIUM

MMA/CELLULOSIC



MMA CELLULOSIC is a specific MMA function which allows to obtain the highest welding results with cellulosic electrodes.



GOUGING/ARC AIR



The Arc Air process provides high quality gauging with up to 6mm (Cruiser 402) and 8mm (Cruiser 502) carbon electrodes.

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

The **Cruiser 322 - 402 - 502** are heavy duty industrial 3 Phase inverter power sources for MMA Welding and TIG DC LIFT applications with excellent arc characteristics.

The **Cruiser 322 - 402 - 502** are specifically designed for tough working conditions such as steel fabrication, shipbuilding, offshore, shipyards, boat-maintenance, repair and heavy metal constructions.

	Cruis	Cruiser 502									
D₽⊃	3x400Vac ± 2	15% @ 50-60Hz	3x400Vac ± 15% @ 50-60Hz								
	32	2A@			40/	A@					
	MMA TIG - WIG			MMA			TIG - WIG				
% 40°C	100%	100%	50%	60%	100%	50%	60%	100%			
►I₫	400A	400A	500A	450A	400A	500A	460A	400A			
I2	5A - 400A	5A - 400A	5A - 500A 5A - 500A								
U.	9-	81V	9-81V								
Рмах	18,4kVA	. – 16,8kW	25,5kVA - 23,4kW								
IP		23	23								
1 4	690 x 290	0 x 510mm	690 x 290 x 510mm								
ට්රීඊ	50	,7Kg (Power Source)			50,	7Kg (Powe	er Source)				

			Cruise	er 322							
₽₽		3x400)Vac ± 15	5% @ 50	-60Hz						
		25A@									
	TIG - WIG MMA										
% 40°C	-	60%	100%	-	60%	100%					
►I₫	-	320A	260A	-	300A	250A					
I₂	l.	5A - 320/	4	1	0A - 300	A					
U.			11/	74V							
Рмах			14,3kVA	- 11,0kV	V						
IP			2	3							
14		69	90 x 290	x 450m	m						
Ôôð			40,	5Kg (Pov	wer Source	e)					

Lateral ventilation

The advanced ventilation system allows an optimal Duty Cycle:

322: 250Ampere at 100% at 40°C. 402-502: 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.



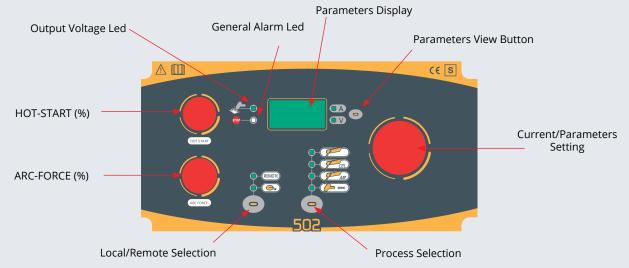


Power Pulse 322-402-502

MIG/MAG PULSE/DOUBLE PULSE/SYNERGIC - TIG DC LIFT - MMA -MMA CELL. - ARC AIR



Front Panel Power Source



Power Pulse 322-402-502 Technical Data



The **Power Pulse 322 - 402 - 502** 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, MMA cellulosic, Lift Tig DC, and ARC AIR (only 402 - 502) processes are also available.

		Ροι	ver P	ulse	322		Pov	ver Pulse 4	402			Ρον	ver	Pu	lse !	502		
₽₽	3x400Vac ± 15% @ 50-60Hz					Ηz	3x400Vac ± 15% @ 50-60Hz				3x400Vac ± 15% @ 50-60Hz							
			25A	۹@				32A@					4	10A@	Ď			
	MIG-	MAG	TIG-	WIG	M	ЛА	MIG-MAG	TIG-WIG	MMA	MI	G-M	AG	TI	G-W	IG	ſ	MM	4
% _{40℃}	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	5A - 400A	20A	4 - 50	00A	5A	- 50	0A	5A	- 50)0A
U.			10/	73V				9/81V					ç	9/81	V			
Рмах		15,	2kVA	- 11,6	kW		18,	4kVA – 16,8l	kW			25	,5kV	'A - 2	23,4	<w< th=""><th></th><th></th></w<>		
IP			2	3				23						23				
14	1160 x 670 x 1530mm (H ₂ 0)					0)	1160 x 670 x 1530mm (H ₂ 0)			1160 x 670 x 1530mm (H ₂ 0)								
Ôôð			144K	g (H ₂ O)				150Kg (H ₂ O)					150)Kg (H ₂ O)			

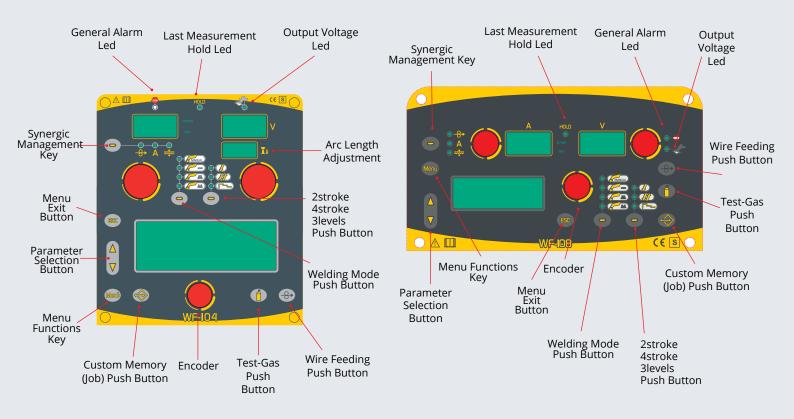


WF104 - WF108 Wire Feeder for Power Pulse 322 - 402 - 502



Front Panel WF104

Front Panel WF108



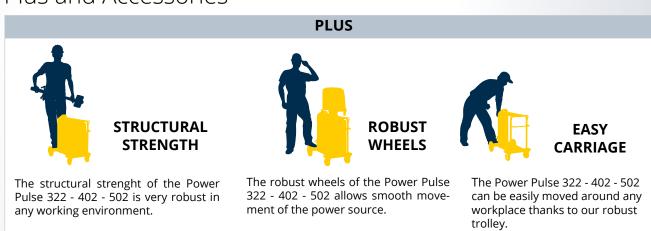
WF104 - WF108 Technical Data



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

	WF108
D₽⊃	42VDC
Рмах	120W
r.p.m.	270
♣	1,5 - 24,0m/min
*	n°4 (ø37mm - ø19mm) Fe 0,6 - 1,6mm
*	Al 0,8 - 3,2mm
	FCW 1,0 - 3,2mm
i i i i i i i i i i i i i i i i i i i	200mm (5Kg) - 300mm (15 Kg)
IP	23
14	680 x 380 x 280mm
Ôôð	15,8Kg
	· 6

Power Pulse 322-402-502 Plus and Accessories





Power Pulse 322-402-502

Special Functions



W.ECO Technology Inside Lower harmonic current emissions

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





HAC Hybrid Arc Control Soft Arc, Low Spattering

Fcell



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.

Digital control and excellent welding with cellulosic electrodes is an optimized

combination also for piping and Oil & Gas industry applications.

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' wettabiltiy.

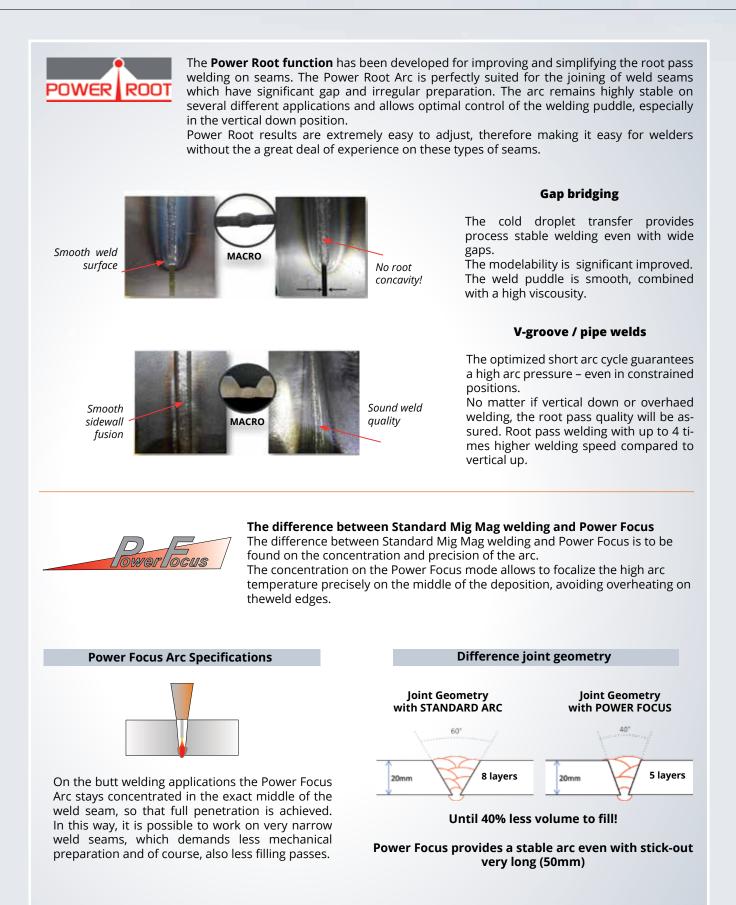
6 - Lower production costs and depreciation

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.

Power Pulse 322-402-502

Special Functions



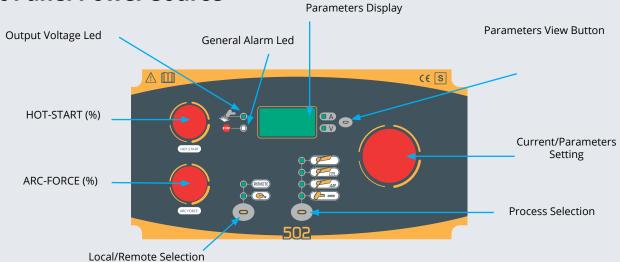


Cruiser 322-402-502 Synergic

MIG/MAG Synergic - TIG DC LIFT - MMA - MMA CELLULOSIC - ARC AIR



Front Panel Power Source



Cruiser 322-402-502 Synergic Technical Data

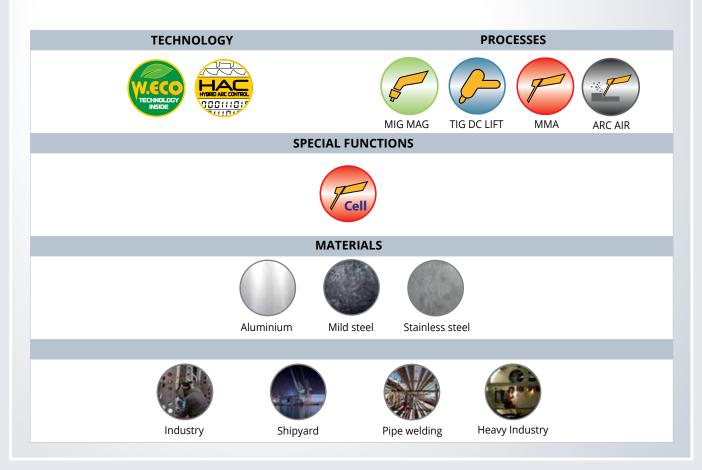


WELD THE WORLD

Cruiser 322 - 402 - 502 Synergic are industrial synergic 3 Phase Inverter Power Sources (400A 100% at 40° C) fitted with separated wire feeders for MIG-MAG welding.

MMA, MMA cellulosic, Lift TIG DC and ARC AIR processes are also available (only 402-502). A wide range of MIG-MAG synergic programs facilitate the selection of precise welding parameters using any welding wires. High performances are guaranteed even with long cable bundle (50m).

		Cruis	er 32	2 Syn	ergic		Cruis	er 402 Syn	ergic		C	ruis	er 5	502	Syn	erg	ic	
₽₽	3	x400V	ac ± 1	5%@	50-60ł	Ηz	3x400V	ac ± 15% @ !	50-60Hz		3x4	00V	ac ±	15%	605	50-6	0Hz	
-			25/	۹@				32A@					4	10A@	Ď			
	MIG-	MAG	TIG-	WIG	M	МА	MIG-MAG	TIG-WIG	MMA	MI	G-M	AG	TI	G-W	IG	ſ	MMA	۹
% 40°C	60%	100%	60%	100%	60%	100%		100%		50%	60%	100%	50%	60%	100%	50%	60%	100%
►I₂	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	5A - 400A	204	۹ - 5	00A	5A	- 50	0A	10 <i>A</i>	4 - 50	00A
U.			11/	73V				9-81V					g	9/81	V			
Рімах		15,	2kVA ·	- 11,6	kW		18,	4kVA – 16,8l	kW			25	,5kV	'A - 2	23,4	<w< th=""><th></th><th></th></w<>		
IP			2	3				23						23				
۲4	1160 x 670 x 1530mm (H ₂ O)))	1160 x 670 x 1530mm (H ₂ O)			1160 x 670 x 1530mm (H ₂ O)								
Ôôð	132,5Kg (H ₂ O)						154,5Kg (H ₂ O)			154,5Kg (H ₂ 0)								



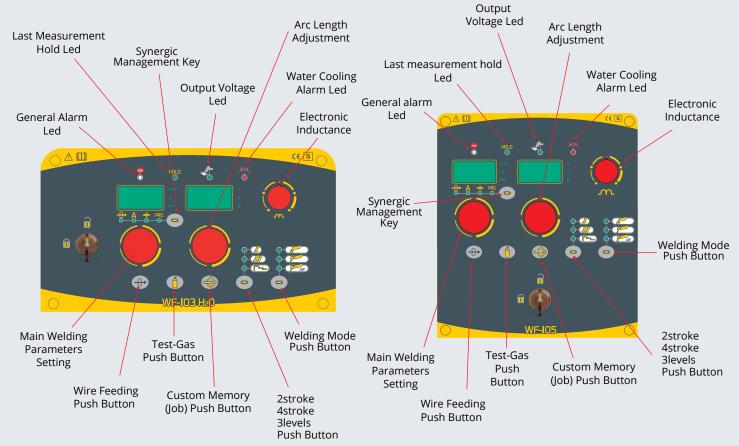
WF103 - WF105 Wire Feeder for Cruiser 402-502 Synergic



DIX connector for MMA

Front Panel WF103

Front Panel WF105



WF103 - WF105 Technical Data



	WF103
₽₽	42VDC
Рмах	120W
r.p.m.	270
-₿ →	1,5 - 22,0m/min
*	n°4 (ø30mm - ø22mm) Fe 0,8 - 1,6mm Al 0,8 - 1,6mm FCW 0,8 - 1,6mm
i M	200mm (5Kg) - 300mm (15 Kg)
IP	235
۲4	680 x 280 x 380mm
Ôôð	15,6Kg

	WF105
D₽⊃	42VDC
Рмах	120W
r.p.m.	270
	1,5 - 22,0m/min
	n°4 (ø37mm - ø19mm)
*	Fe 0,6 - 1,6mm
*	Al 0,8 - 3,2mm
	FCW 1,0 - 3,2mm
ë	200mm (5Kg) - 300mm (15 Kg)
IP	23
14	670x 245 x 470mm
Ôôô	24,0Kg
	1

Cruiser 322-402-502 Synergic Plus and Accessories

PLUS EASY **STRUCTURAL** ROBUST STRENGTH WHEELS CARRIAGE The robust wheels of the Cruiser 322 The Cruiser 322 - 402 - 502 Syn The structural strenght of the Cruiser - 402 - 502 Syn allows smooth movecan be easily moved around any 322 - 402 - 502 Syn is very robust in any working environment. ment of the power source. workplace thanks to our robust trolley. ACCESSORIES

KIT PUSH PULL

TORCH UP & DOWN



REMOTE CONTROL

Cruiser 322-402-502 Synergic **Special Functions**



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



HAC Hybrid Arc Control Soft Arc, Low Spattering Better welds, Money Savings

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



Digital control and excellent welding with cellulosic electrodes is an optimized combination also for piping and Oil & Gas industry applications.

HAC (Hybrid Arc Control)



BURN BACK: An optimal wire cutting at the end of welding helps perfect starts.

PG POSITION:

HAC allows thin plates welding in vertical down position with gap up to

5mm wide.



SPRAY ARC:

HAC allows you to have a short spray arc with better penetration of the root, lower heat input and higher welding speed with no edge cutting and spattering.

THIN PLATES:

HAC gives smooth and controlled short arc at lower parameters too. Low spattering, good edge wetting, low heating and small deformation are achieved in thin plate welding.



WELDING POSITION: HAC gives an optimal fusion of the bead's edges in short arc welding

and to make overhead and vertical

up position welding easier.









Dedicated controls, low spattering and high execution-speed allow you to get perfect welding spots.

SOFT START:

Approaching speed of wire and welding dynamics are totally synergic giving low spattering at start, in any type of material.



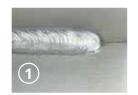
3T SPECIAL: allows you to set and recall 3 different current levels by pushing the trigger switch in order to achieve top quality weld beads: Highly recommended for Aluminum welding.



LEVEL 3: A low current ends the welding optimally by filling the crater on weld beads.



LEVEL 2: The welding cur- LEVEL 1: A correct initial rent is optimized with the current gives optimal peneplate thickness and the re- tration from welding start. quested weld.



Power Pulse 322 - 402 - 502 Cruiser 322 - 402 - 502 Synergic

Modular composition



Power Pulse 322 - 402 - 502

Cruiser 322 - 402 - 502 Synergic

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

WECO srl

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