



EVOLUTION

SP3-C / SP4-E / SP5-E



WELDING MACHINE
OF A DIFFERENT
SPECIES



EVOLUTION

One single welding machine to meet every requirement

The new family of welding machines **EVOLUTION** is designed for the industrial sectors that make reliability and efficiency their distinctive feature. The experience of Sincosald in the welders world and the applied advanced technology, make **EVOLUTION** a professional instrument with high performance and a user-friendly arc control.

Technology and efficiency of a different generation

The new multi-process inverter has been developed to perform MIG/MAG, TIG-lift, MMA and pulsed welding, guaranteeing absolute precision in arc starts and welding. More than 200 synergy curves enable a wide variety of materials to be processed in order to meet the broadest demands in the world of welding.

LIFTABLE
BY EYEBOLTS

ETHERNET PORT

USB PORT

CYLINDER HOLDER LOWERED

REINFORCED
WHEELS

MONOCOQUE FRAME

Wheeled
version
SP4-E / SP5-E



WIRE FEEDER
WITH COLOURED
ROLLERS



5.7 INCH
LCD DISPLAY



Compact
version
SP3-C

Planning and Design in continuous contact

The R&D department has studied a new reinforced monocoque frame, designed to withstand harsh production plants environments. The back wheels fitted with reinforced iron rims provide greater stability to the machine. The eyebolt connections allow the welding machine to be lifted and the lowered trolley facilitates the loading operations of the gas cylinder. The new generation wire feeder has a quick release system and has been customised with coloured rollers. Evolution features a large, bright 5.7-inch LCD display.

The arc control software developed by Sincosald further improves the stability of the arc and pulse correction during pulsed welding, providing a much higher welding speed.



Technical features

- 99 JOB (working points) 100% customizable.
 - The smart torch POWER MASTER and REMOTE CONTROL UP/DOWN can be connected.
 - PUSH PULL torches can be used thanks to a new application included in the synchronisation card.
 - V.R.D. mode available.
 - Towing device with quick release rollers in different colours according to the materials being used and the diameters.
 - Electronic circuit specially designed to limit Inrush currents when the generator is switched on.
 - Integrated cooling system inside the generator.
 - Fast and precise short circuit control when welding with a very short arc.
 - The latest generation interface, enables the connection to the welding ROBOT in automated systems.
 - Compatible with industry 4.0.
 - Self-diagnosis system.
 - SEP software for the management, control and printing of welding processes.
- In addition to the classic welding processes, Sincosald has developed 3 new high-performance welding processes:
EVO PULSE SPEED - EVO PULSE RISE - EVO PULSE FORCE.

SYNERGY CURVES



EVO SPEED
Increases welding speed
with variable dynamic control.



EVO FORCE
High penetration and melting
capacity of the weld pool.



EVO COLD
Very cold Short Arc suitable for thin
thicknesses and galvanised sheets.



EVO PIPE
Specific for first pass welding
and joints with lots of air.

NEW MIXED CURVES



EVO PULSE SPEED
Suitable for fast welding using
controlled heat input.



EVO PULSE RISE
Suitable for faster and more precise
vertical upward welding.



EVO PULSE FORCE
Increased welding penetration
suitable for medium thicknesses.

EVOLUTION

SP3-C / SP4-E / SP5-E

gfi studio

TECHNICAL DATA

	SP3-C	SP4-E	SP5-E
3 Phase Input	400 V	400 V	400 V
Fuse	25 A	32 A	40 A
MAX power	16.5 KW	19.5 KW	26.2 KW
Noise emissions	< 70 dB	< 70 dB	< 70 dB
Max current	26.5 A (MIG)	31.5 A (MIG)	42 A (MIG)
Performance 100%	300 A	330 A	380 A
Performance 60%	330 A	360 A	480 A
Performance 50%	-	400 A	500 A
Performance 40%	-	-	-
Open circuit voltage	62 V	62 V	62 V
Power factor	0.9	0.99	0.99
Welding current range	10 – 330 A	10 – 400 A	10 – 500 A
Compliant with standards	EN 60974-1 - 5 - 10	EN 60974-1 - 5 - 10	EN 60974-1 - 5 - 10
Application class	S	S	S
Insulation Class	F	F	F
Protection class	IP23 S	IP23 S	IP23 S
Cooling	AF	AF	AF
Operating temperature	- 10 + 40 ° C	- 10 + 40 ° C	- 10 + 40 ° C
Wire diameters			
Steel	0.8 – 1.2 mm	0.8 – 1.6 mm	0.8 – 1.6 mm
STAINLESS steel	0.8 – 1.2 mm	0.8 – 1.6 mm	0.8 – 1.6 mm
Aluminium	1.0 – 1.6 mm	1.0 – 1.6 mm	1.0 – 1.6 mm
Weldable electrodes diameters	1.0 – 4.0 mm	1.0 – 4.0 mm	1.0 – 4.0 mm
Wire feed speed	0.6 – 25 Mt./min	0.6 – 25 Mt./min	0.6 – 25 Mt./min
Wire spool capacity	15 Kg	15 Kg	15 Kg
Dimensions, mm (L x I x H)	1100 x 590 x 1000	1100 x 590 x 1000	1100 x 590 x 1000
Weight, kg	110	115	120



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