

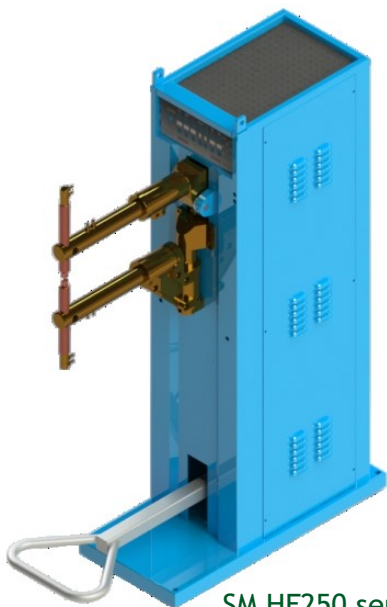
INVERTER spot welders



Inverter pedestal spot welder SM HF250 / SP HF250 series

Inverter pedestal spot welder

SM HF250 / SP HF250 series



SM HF250 series

SM HF250 INVERTER PEDESTAL SPOT WELDER SP HF250 INVERTER PEDESTAL SPOT WELDER

SM series pedal operated rocker arm pedestal inverter spot welder.

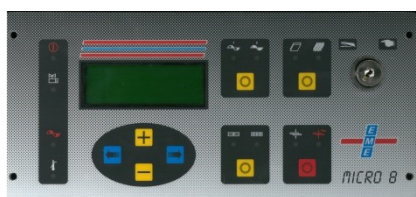
SP series pedal operated rocker arm pedestal spot welder with inverter electro-pneumatic control.

Sturdy structure. Water cooled and vacuum impregnated transformer. Adjustable arm position both in length and height (gauge). Adjustable electrode pressure.

1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.



SP HF250 series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.

Puntatrici inverter su colonna

serie SM HF250 / SP HF250

TECHNICAL FEATURES	SM HF250	SP HF250
Nominal power at 50% ED	30 KVA	30 KVA
Max short-circuit power	40 KVA	40 KVA
Maximum welding power	40 KVA	40 KVA
Nominal primary voltage	400 – 230 V	400 – 230 V
Nominal frequency	50 Hz	50 Hz
Secondary voltage	5,2 V	5,2 V
Permanent secondary current	6 KA	6 KA
Short-circuit current	15 KA	15 KA
Max welding secondary current	15 KA	15 KA
Duty cycle maximum welding current	50 %	50 %
Connection power	30 KVA	30 KVA
Power supply cable section (≤ 40 int. line)	10 mm ²	10 mm ²
Pressure at the electrodes 6 atm.	230 daN	230 daN
Operation	Foot control	Electropneumatic
Cooling	water	
Distance between arms	100 ÷ 300 mm	
Arm lenght	400 ÷ 1000 mm	
Arm diameter	45 mm	
Lenght and diameter plugs	150 ÷ 200 mm \varnothing 25 mm	
Electrode opening	25 ÷ 50 mm	
Air consumption (mc / 1000 points) (only SP)	1,1	
Water consumption	4 l/min	
Cpmpressed air pressure (1 bar = 100 Kpa)	600 Kpa	
Dimension L x W x H	1000 x 330 x 1330 mm	
Weight	230 Kg	230 Kg

Inverter pedestal spot welder

SD30 HF250

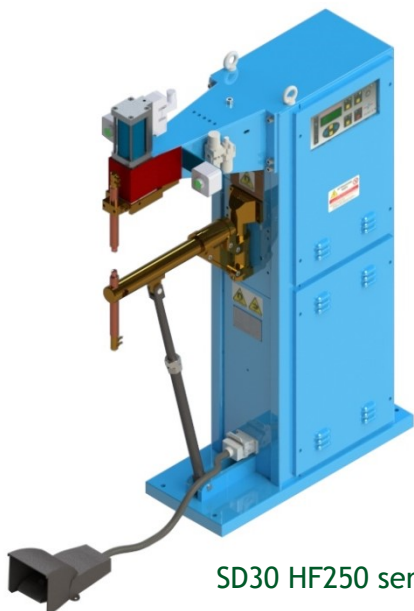
SDP30 HF250 series

PEDESTAL SPOT WELDER SD30 HF250 SERIES PROJECTION PEDESTAL SPOT WELDER SDP30 HF250 SERIES

SD series pedestal linear spot welders with 30KVA power at 50%.

SDP series projection pedestal linear spot welder with 30KVA power at 50%.

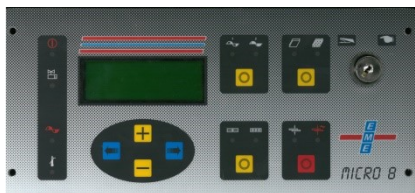
Very sturdy and rigid structure. Integrated water-cooling installation of transformer, electrode holder and electrodes. The standard versions are equipped with a single stroke pneumatic cylinder and double safety control board. Pedal operated. Wide selection of electrode holders and electrodes for different special applications. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.



SD30 HF250 series



SDP30 HF250 series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.

Inverter pedestal spot welder

SD30 HF250

SDP30 HF250 series

TECHNICAL FEATURES	SD30 HF250	SDP30 HF250
Nominal power at 50% ED	30 KVA	30 KVA
Max short-circuit power	40 KVA	40 KVA
Maximum welding power	40 KVA	40 KVA
Nominal primary voltage	400 V	400 V
Nominal frequency	50 Hz	50 Hz
Secondary voltage	5,2 V	5,2 V
Permanent secondary current	6 KA	6 KA
Short-circuit current	15 KA	15 KA
Max welding secondary current	15 KA	15 KA
Duty cycle maximum welding current	50 %	50 %
Connection power	30 KVA	30 KVA
Power supply cable section (≤ 40 int. line)	10 mm ²	10 mm ²
Pressure at the electrodes 6 atm.	230 daN	230 daN
Operation	Electropneumatic	
Cooling	water	
Distance between plates	205 ÷ 460 mm	210 mm
Useful depth	510 ÷ 810 mm	510 ÷ 810 mm
Arm lenght	400 ÷ 750 mm	-
Arm diameter	50 mm	-
Lenght and diameter plugs	150 ÷ 200 mm \varnothing 25 mm	
Electrodes stroke	80 mm	
Air consumption (mc / 1000 points)	1,1	
Water consumption	4 l/min	
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa	
Dimension L x W x H	1100 x 415 x 1430 mm	
Weight	240 Kg	250 Kg

Inverter pedestal spot welder

SD50 HF400

SDP50 HF400 series



SD50 HF400 series

PEDESTAL SPOT WELDER SD50 HF400 SERIES PROJECTION PEDESTAL SPOT WELDER SDP50 HF400 SERIES

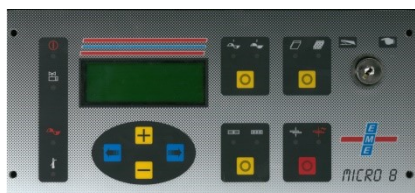
SD series pedestal linear spot welders with 50KVA power at 50%.

SDP series projection pedestal linear spot welder with 50KVA power at 50%.

Very sturdy and rigid structure. Integrated water-cooling installation of transformer, electrode holder and electrodes. The standard versions are equipped with a single stroke pneumatic cylinder and double safety control board. Pedal operated. Wide selection of electrode holders and electrodes for different special applications. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.



SDP50 HF400 series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.

Inverter pedestal spot welder

SD50 HF400

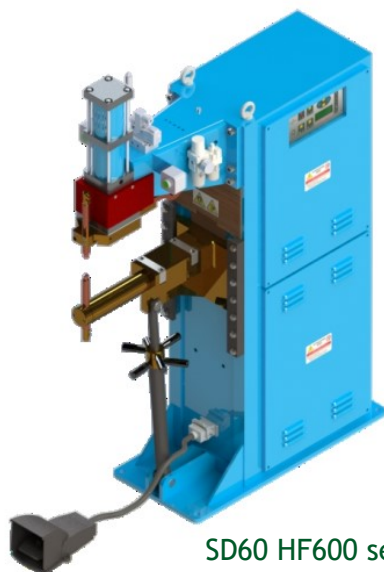
SDP50 HF400 series

TECHNICAL FEATURES	SD50 HF400	SDP50 HF400
Nominal power at 50% ED	50 KVA	50 KVA
Max short-circuit power	60 KVA	60 KVA
Maximum welding power	60 KVA	60 KVA
Nominal primary voltage	400 V	400 V
Nominal frequency	50 Hz	50 Hz
Secondary voltage	6,5 V	6,5 V
Permanent secondary current	6 KA	6 KA
Short-circuit current	20 KA	20 KA
Max welding secondary current	20 KA	20 KA
Duty cycle maximum welding current	50 %	50 %
Connection power	40 KVA	40 KVA
Power supply cable section (≤ 40 int. line)	25 mm ²	25 mm ²
Pressure at the electrodes 6 atm.	310 daN	310 daN
Operation	Electropneumatic	
Cooling	Water	
Dostance between plates	270 ÷ 510 mm	210 mm
Useful depth	510 ÷ 810 mm	510 ÷ 810 mm
Arm lenght	450 ÷ 750 mm	-
Arm diameter	60 mm	-
Lenght and diameter plugs	150 ÷ 200 mm \varnothing 25 mm	
Corsa elettrodi	80 mm	
Aria consumption (mc / 1000 points)	2,1	
Water consumption	4 l/min	
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa	
Dimension L x W x H	1200 x 425 x 1520 mm	
Weight	570 Kg	580 Kg

Inverter pedestal spot welder

SD60 HF600

SDP60 HF600 series



SD60 HF600 series

PEDESTAL SPOT WELDER SD60 HF600 SERIES PROJECTION PEDESTAL SPOT WELDER SDP60 HF600 SERIES

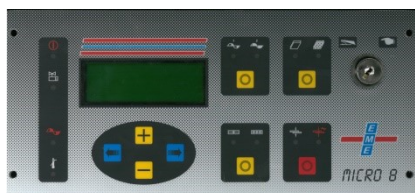
SD series pedestal linear spot welders with 60KVA power at 50%.

SDP series projection pedestal linear spot welder with 60KVA power at 50%.

Very sturdy and rigid structure. Integrated water-cooling installation of transformer, electrode holder and electrodes. The standard versions are equipped with a single stroke pneumatic cylinder and double safety control board. Pedal operated. Wide selection of electrode holders and electrodes for different special applications. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.



SDP60 HF600 series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.

Inverter pedestal spot welder

SD60 HF600

SDP60 HF600 series

TECHNICAL FEATURES	SD60 HF600	SDP60 HF600
Nominal power at 50% ED	90 KVA	90 KVA
Max short-circuit power	100 KVA	100 KVA
Maximum welding power	100 KVA	100 KVA
Nominal primary voltage	400 V	400 V
Nominal frequency	50 Hz	50 Hz
Secondary voltage	7,6 V	7,6 V
Permanent secondary current	8,6 KA	8,6 KA
Short-circuit current	20 KA	20 KA
Max welding secondary current	25 KA	25 KA
Duty cycle maximum welding current	14,3 %	14,3 %
Connection power	67 KVA	67 KVA
Power supply cable section (≤ 40 int. line)	35 mm ²	35 mm ²
Pressure at the electrodes 6 atm.	900 daN	900 daN
Operation	Elettropneumatico	
Cooling	Acqua	
Dostance between plates	160 ÷ 370 mm	160 ÷ 370 mm
Useful depth	160 ÷ 760 mm	160 ÷ 760 mm
Arm lenght	450 ÷ 750 mm	-
Arm diameter	80 mm	-
Lenght and diameter plugs	150 \varnothing 25 mm Sup. / 250 \varnothing 25 mm Inf. Cono 18	
Corsa elettrodi	80 mm	
Aria consumption (mc / 1000 points)	4,6	
Water consumption	4 l/min	
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa	
Dimension L x W x H	1260 x 455 x 1610 mm	
Weight	750 Kg	750 Kg

Inverter pedestal spot Welder

SD120 HF800

SDP120 HF800 series



SD120 HF800 series

PEDESTAL SPOT WELDER SD120 HF800 SERIES PROJECTION PEDESTAL SPOT WELDER SDP120 HF800 SERIES

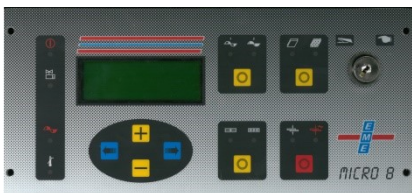
SD series pedestal linear spot welders with 120KVA power at 50%.

SDP series projection pedestal linear spot welder with 120KVA power at 50%.

Very sturdy and rigid structure. Integrated water-cooling installation of transformer, electrode holder and electrodes. The standard versions are equipped with a single stroke pneumatic cylinder and double safety control board. Pedal operated. Wide selection of electrode holders and electrodes for different special applications. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.



SDP120 HF800 series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.

Inverter pedestal spot Welder

SD120 HF800

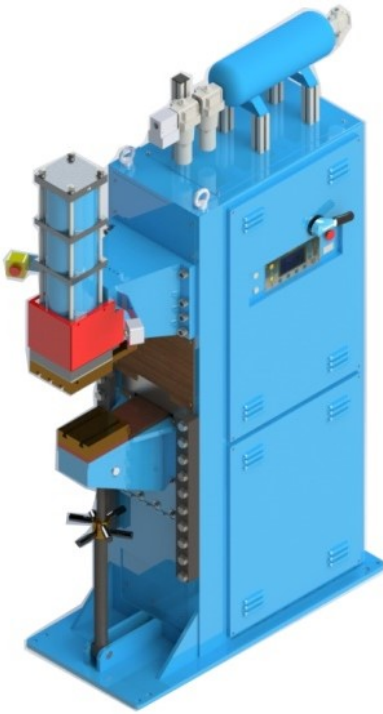
SDP120 HF800 series

TECHNICAL FEATURES	SD120 HF800	SDP120 HF800
Nominal power at 50% ED	120 KVA	120 KVA
Max short-circuit power	140 KVA	140 KVA
Maximum welding power	140 KVA	140 KVA
Nominal primary voltage	400 V	400 V
Nominal frequency	50 Hz	50 Hz
Secondary voltage	8,8 V	8,8 V
Permanent secondary current	7,2 KA	7,2 KA
Short-circuit current	20 KA	20 KA
Max welding secondary current	40 KA	40 KA
Duty cycle maximum welding current	13,8 %	13,8 %
Connection power	136 KVA	136 KVA
Power supply cable section (≤ 40 int. line)	75 mm ²	75 mm ²
Pressure at the electrodes 6 atm.	900 daN	900 daN
Operation	electropneumatic	
Cooling	water	
Dostance between plates	160 ÷ 370 mm	160 ÷ 370 mm
Useful depth	160 ÷ 760 mm	160 ÷ 760 mm
Arm lenght	450 ÷ 750 mm	-
Arm diameter	80 mm	-
Lenght and diameter plugs	150 \varnothing 25 mm Sup. / 250 \varnothing 25 mm Inf. Cono 18	
Electrodes stoke	80 mm	
Aria consumption (mc / 1000 points)	9,2	
Water consumption	5 l/min	
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa	
Dimension L x W x H	1260 x 455 x 1610 mm	
Weight	860 Kg	860 Kg

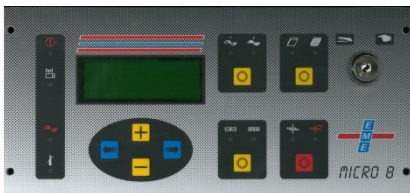
Inverter pedestal spot Welder SD180 HF1600 series

PROJECTION PEDESTAL SPOT WELDER SDP180 HF1600 SERIES

SDP series projection pedestal linear spot welder with 180KVA power at 50%.



Very sturdy and rigid structure. Integrated water-cooling installation of transformer, electrode holder and electrodes. The standard versions are equipped with a single stroke pneumatic cylinder and double safety control board. Pedal operated. Wide selection of electrode holders and electrodes for different special applications. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current.



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.



" J-TEK" WELDING CONTROL

"J-TEK" welding control used in resistance welding allows effective "constant current" welding. The electronics, placed on fiberglass PCBs, use SMD components to make the control itself as compact as possible. It offers 32 welding programs as standard.

Inverter pedestal spot Welder

SD180 HF1600 series

TECHNICAL FEATURES	SDP180 HF1600
Nominal power at 50% ED	180 KVA
Max short-circuit power	200 KVA
Maximum welding power	200 KVA
Nominal primary voltage	400 V
Nominal frequency	50 Hz
Secondary voltage	10,5 V
Permanent secondary current	12 KA
Short-circuit current	80 KA
Max welding secondary current	10,7 %
Duty cycle maximum welding current	200 KVA
Connection power	90 mm ²
Power supply cable section (≤ 40 int. line)	2000/3000 daN
Operation	Elettropneumatico
Cooling	Acqua
Dostance between plates	160 ÷ 370 mm
Useful depth	460 ÷ 760 mm
Electrodes stroke	100 mm
Aria consumption (mc / 1000 points)	12,5
Water consumption	5 l/min
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa
Dimension L x W x H	1500 x 670 x 1925 mm
Weight	915 Kg

Inverter portable welders

WALLY series

EMECAR WALLY PORTABLE WELDERS

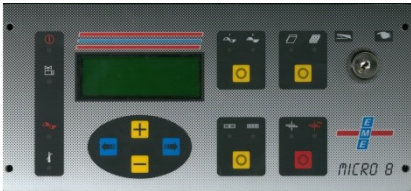


The EMECAR WALLY portable spot-welding unit is the result of several years of experience in the field of low power resistance spot welders. Its compact size and portability make this unit extremely interesting for the sheet-metalworking industry using the resistance welding technique. This unit is comprised of a moveable trolley with pivoting wheels which holds the transformer and the control panel on the top and the water-cooling system on the bottom. The welding gun is connected to the transformer by a very flexible cooled welding cable which allows the gun to be used in difficult work positions. A wide range of arms, electrode holders and electrodes make the whole system very flexible and suitable for all welding conditions.

The unit is completely self-contained and only requires connection to the electric mains and to the compressed air outlet. A close loop system together with an integrated air-water heat exchanger provide the welding gun, the welding cable and the transformer group with cooling. Weld gun made of cast aluminum alloy with lever kinematic mechanism that allows considerable electrode force to be developed even with long arms. The arms and the electrodes are easily interchangeable to configure them to different welding conditions. The light weight and ergonomically designed handle allow extreme mobility in all conditions. "MICRO8" weld control board of synchronous type with a diode microprocessor controlled in 5 steps, offers dual program and pulse as standard. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.

Inverter portable welders

WALLY series



"MICRO8" WELDING CONTROL

The MICRO8 weld synchronous control board with a diode microprocessor controlled in 5 steps is equipped with the double programme and pulses.



" J-TEK" WELDING CONTROL

"J-TEK" welding control used in resistance welding allows effective "constant current" welding. The electronics, placed on fiberglass PCBs, use SMD components to make the control itself as compact as possible. It offers 32 welding programs as standard.

Inverter portable welders

WALLY series

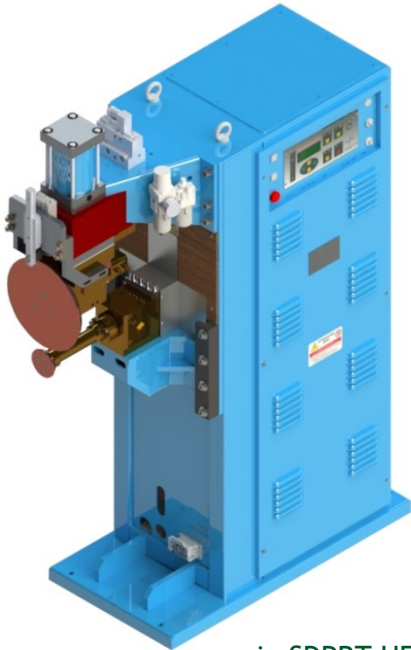
TECHNICAL FEATURES	WALLY
Nominal power at 50% ED	10 KVA
Max short-circuit power	17 KVA
Maximum welding power	13 KVA
Nominal primary voltage	400 V
Nominal frequency	50 Hz
Secondary voltage	8,5 V
Short-circuit current	8,5 KA
Maximum welding current	6,8 KA
Secondary current at 100% ED	1 ka
Duty cycle at maximum welding current	15 %
Power supply cable section (up to 30 m line)	10 mm ²
Pressure at the electrodes at 6 atm.	40÷120 daN
Operation	Elettropneumatico
Cooling	Acqua a circuito chiuso
Lunghezza bracci	120 ÷ 400 mm
Diametro bracci	ø18 mm
Corsa elettrodi	30 + 15 mm
Consumo aria (mc / 1000 punti)	1,1
Consumo acqua	Acqua a circuito chiuso
Pressione aria compressa (1 bar = 100 Kpa)	600 Kpa
Dimensione B x L x H	800 x 400 x 1040 mm
Peso	95 Kg

Inverter roller welder

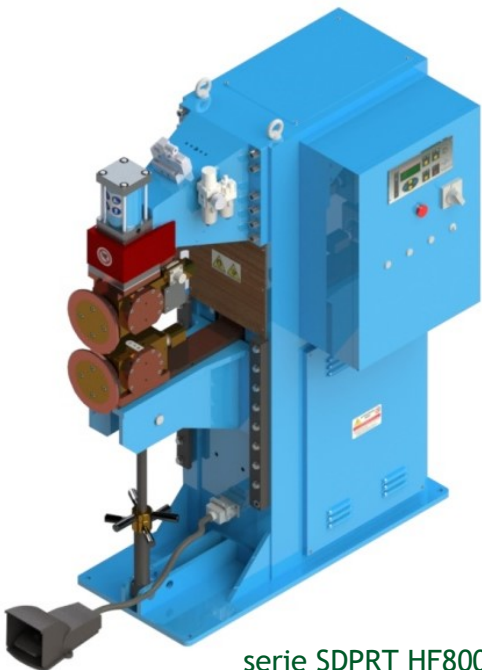
SDPRT HF600

SDPRT HF800P series

SDPRT HF600 ROLLER WELDER SDPRT HF800P ROLLER WELDER



serie SDPRT HF600



serie SDPRT HF800P

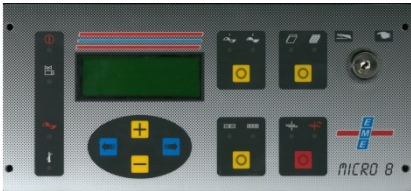
The SDPR HF600 and SDPR HF800P roller welder are made of machined electro-welded sheet and structural steel which underwent severe normalization treatments so that high precision, excellent rigidity and resistance to stress can be ensured.

Roller holding heads with rolling bearings, friction contacts machined which ensure a proper electric contact for the welding current, cooled by cooling liquid circulation. The heads are moved by a three-phase asynchronous motor activated by an inverter to precisely regulate welding speed and movement. Water cooled and vacuum impregnated transformer to ensure sport-welding continuity. MICRO8 Rulli weld control board of synchronous type with a microprocessor controlled in 5 steps. It controls timing which is synchronous with the network frequency, of the various phases of the cycle (docking, welding, cold time and maintenance) and the regulation of welding current by digital measuring. Spot-welding can be continuous or pulsed. It offers the dual program as standard. Multi-turn potentiometer for the adjustment of the roller rotation speed with the possibility of reversing. 1000Hz control frequency inverter generator for medium frequency transformers. The compact device allows to control the primary current of the power transformer keeping its value constant regardless of the variations in the mains voltage and any thermal and aging drifts of the different components of the system. The working frequency of 1KHz allows to reduce the dimensions of the transformer and to improve the form factor of the output current by reducing the ripple of the current and allowing the creation of more controlled welding points both in terms of time and maximum current. The inverter control board interfaces with the remote unit such as MICRO8 or J-TEK provides the welding parameters and sends error codes to manage diagnostics in the event of anomalies.

Inverter roller welder

SDPRT HF600

SDPRT HF800P series



"MICRO8 RULLI" WELDING CONTROL

Welding control mod. Micro8 Rulli, synchronous control board with a microprocessor in 5 steps. Provides timing, synchronous with the network frequency, of the various stages of the cycle (docking, welding, cold time and maintenance), and the adjustment of the welding current by partialization with continuous or impulsive selection of the spot. It offers the dual program as standard.



" J-TEK" WELDING CONTROL

"J-TEK" welding control used in resistance welding allows effective "constant current" welding. The electronics, placed on fiberglass PCBs, use SMD components to make the control itself as compact as possible. It offers 32 welding programs as standard.

Inverter roller welder

SDPRT HF600

SDPRT HF800P series

TECHNICAL FEATURES	SDPRT HF600	SDPRT HF800P
Nominal power at 50% ED	50 KVA	120 KVA
Max short-circuit power	62 KVA	140 KVA
Maximum welding power	400 V	400 V
Nominal primary voltage	50 Hz	50 Hz
Nominal frequency	8,5 V	10,5 V
Secondary voltage	12 KA	14 KA
Short-circuit current	25 KA	40 KA
Max welding secondary current	12 KA	20 KA
Connection power	67 KVA	136 KVA
Power supply cable section (≤ 40 int. line)	35 mm ²	75 mm ²
Pressure at the electrodes at 6 atm.	450 daN	900 daN
Movement (*)	1	1/2/3
Welding speed	1÷500 m/s	1÷500 m/s
Operation	pneumatico	
Cooling	acqua	
depth (**)	S	S/M
Arm diameter	50 mm	-
Upper roller diameter	60÷200 mm	200÷300 mm
Lower roller diameter	60÷200 mm	200÷300 mm
Roller stroke	80 mm	80 mm
Air consumption (mc / 1000 points)	4,6	9,2
Water consumption	4 l/min	5 l/min
Compressed air pressure (1 bar = 100 Kpa)	600 Kpa	600 Kpa
Dimension L x W x H "S" version (**)	1100x440x1570 mm	1260x790x1590 mm
Dimension L x W x H "M" version (**)	-	1800x790 x1590 mm
Weight "S" version (**)	860 Kg	1010 Kg
Weight "M" version (**)	-	1170 Kg
(*) Movement	1 Upper head - 2 Lower head - 3 Upper/Lower head with differential mechanical device	
(**) Depth	"S" L= 450 mm - "M" L= 1100 mm	