



SPOT WELDING MACHINES

SM-SP SERIES

SD-SDP SERIES

Robust heavy duty machines with genuine 50% duty cycle rating.

The **SM-SP** series feature:

A choice of 15-20 or 30 KVA water cooled in epoxy resin coated transformers; weld force adjustment; lower arm adjustment; water cooling circuit for transformer, power unit and arms; universal reversible arms for 90° or inclined electrode holder position.



Series SM
With pedal control

Series Sp
with electro-pneumatic control



Alternatively you can have the welders version series SP with Chiller built into it

The **SD-SDP** press welders series feature:

A wide choice of water cooled in epoxy resin single phase AC transformers available in 30-50 KVA for model SD, 60-120-180 KVA for model SDP. Water cooling of transformer, power unit; wide choice of air cylinders (single, double action, adjustable double stroke); troat gap adjustable in height from 170 to 340 mm; double safety push button; wide choice of electrodes, electrode holders and T clotted plates for special applications.



Serie SD 30 a punti

Serie SD 50 a punti

Serie SDP 60-120-180 a proiezione

WELDING CONTROL MICRO 8

TECHNICAL DATA			SM - SP	SM - SP	SM - SP
Nominal power at 50% duty cycle	KVA		15	20	30
Max short-circuit power	KVA		40	68	86
Max weld power	KVA		32	54	69
Nominal power supply	V	400/230			
Nominal frequency	Hz	50			
Secondary tension	V		4.5	5.0	5.6
Secondary permanent current	KA		3.6	4.0	4.8
Short circuit current	KA		14.3	15.5	17.3
Max secondary weld current	KA		8.4	11.2	12.5
Intermittence at max weld current			11%	9%	9.5%
Main supply connecting power	KVA		19.2	32.0	41.0
Cable dia. Up to 40 m. line	mm ²		10	10	10
Max electrode pressure at 6 atm (600 KPa)	daN		240	240	240
Max weld capacity (soft steel, 400 mm arms)	mm		3+3	3.5+3.5	4.5+4.5
Max weld capacity (cross wires, 400 mm arms)	mm		10+10	12+12	14+14
Actuation	PEDAL OR ELECTROPNEUMATIC				
Cooling	WATER				
Throat gap	mm		150 ÷ 300		
Arms length	mm		400 ÷ 1000		
Arms diameter	mm		45		
Electrode holder lengths and diameter	mm		150 ÷ 200 ø 25		
Max distance between electrodes	mm		25 ÷ 50		
Air consumption (for SP only)	cm / 1000 spots		1.5		
Water consumption	l/min		3		
Compressed air pressure	KPa		600 (=6 bar)		
Dimensions BxLxH	mm		1005x300x1310		
Weight	Kg		190	210	230

TECHNICAL DATA			SD30	SD50	SDP50	SDP60	SDP120	SDP180	
Nominal power at 50% duty cycle	KVA		30	50	50	60	120	180	
Max short-circuit power	KVA		85	105	105	140	285	540	
Max weld power	KVA		68	91	91	112	228	432	
Nominal power supply	V	400/230							
Nominal frequency	Hz	50							
Secondary tension	V		5.2	5.8	5.8	5.5÷6.5	6.8÷8.6	7.9÷11.2	
Secondary permanent current	KA		4.8	6.0	6.0	6.5	10	13	
Short circuit current	KA		16	20	20	21	33	48	
Max secondary weld current	KA		12.5	14.5	14.5	16.8	26.4	38.4	
Intermittence at max weld current			10%	10%	10%	14.3%	13.8%	10.7%	
Main supply connecting power	KVA		40	50	50	67	136	260	
Cable dia. Up to 40 m. line	mm ²		16	16	16	16	55/90	90/160	
Max electrode pressure at 6 atm (600 KPa)	daN		230	310	310	450	900	2000	
Max weld capacity (soft steel, 400 mm arms)	mm		4.5+4.5	4.5+4.5	4.5+4.5	6+6	-	-	
Max weld capacity (soft steel 1mm, 400 mm)	mm		-	4	4	-	8	12	
Actuation	ELECTROPNEUMATIC								
Cooling	WATER								
Throat gap between the plates	mm		170÷3700						
Arms length (centre of the plates)	mm		400÷750					-	
Arms diameter	mm		50	60	-	70	-	-	
Electrode holder lengths and diameter	mm		200 ø 25					-	-
Air consumption (cm / 1000 spots)			1.1	2.1	2.1	4.6	9.2	12.5	
Water consumption	l/ min		4	4	4	4	5	5	
Compressed air pressure	KPa		600						
Dimensions BxLxH	mm		1100x300 1430	1300x400x1600			1400x550x2100		
Weight	Kg		240	570	580	750	860	915	