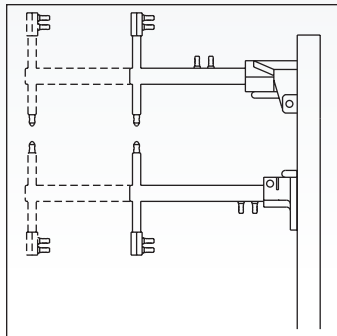


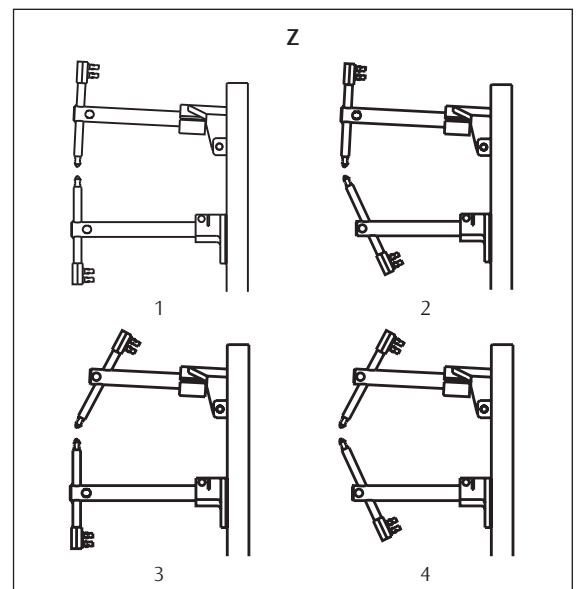


ROCKER ARM SPOT WELDERS WITH ADJUSTABLE ARM LENGTH

The Z and ZP series resistance spot welders, versatile, robust and easy-to-use, ensure best welding results on all weldable metals. Thanks to their adjustable length feature they represent the ideal solution in a large variety of spot-welding applications. Z models are mechanical pedal operated, whilst ZP's are pneumatically operated by an electric pedal.

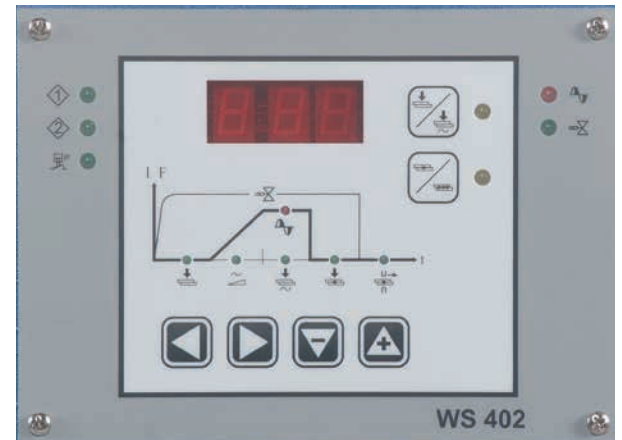


- ▶ Excellent welding on all weldable metals
- ▶ Welding current and time electronic adjustments
- ▶ Synchronous ignition SCR group with phase shift welding current adjustment to eliminate initial transient
- ▶ Reduced consumption
- ▶ Water cooled arms
- ▶ Water cooled copper electrodeholders with adjustable height
- ▶ Self-lubricated pneumatic components to eliminate oil deposits and to safeguard the environment from contaminants (ZP)
- ▶ High versatility thanks to all different possible work configurations



WS 402 ELECTRONIC CONTROL

- ▶ Welding time adjustable by periods
- ▶ Single or repeated spotting facility
- ▶ Automatic compensation of mains voltage fluctuation
- ▶ Error display during the welding cycle
- ▶ Weld/no Weld selector key
- ▶ 24 V DC supply solenoid valve
- ▶ 50/60 Hz frequency automatic identification
- ▶ 24 V AC supply electronic control
- ▶ 2 welding program (2 times 2 currents) facility by using a double pedal (optional)



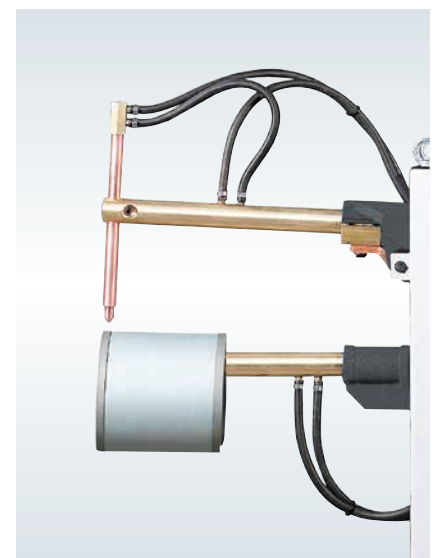
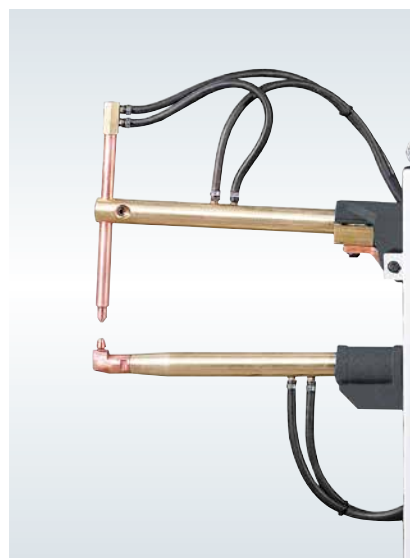
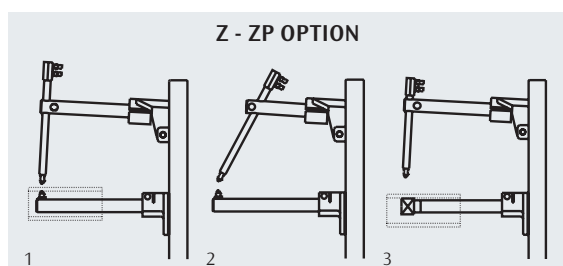
Z - ZP		FUNCTIONS	WS 402
	a	Squeeze time	•
	b	Pressure contact	•
	$c_1 - c_2^*$	Welding time	•
	$i_1 - i_2^*$	Welding current	•
	d	Holding time	•
	e	Pause time	•
	* $i_2 - c_2$ available only whenever using a double pedal		

- ▶ Electrode force adjustable by spring nut and, for ZP, also by air pressure regulation manometer
- ▶ Easy electrode gap adjustment without moving the electrodeholders



Z – ZP LOWER ARM FITTED WITH PRESSED-IN ELECTRODE

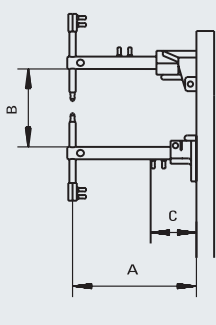
Whenever the lower arm is fitted with a pressed-in electrode, also a long electrodeholder is necessary on the upper arm.

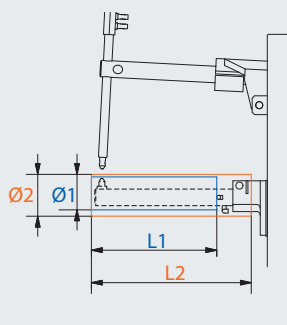


ACCESSORIES

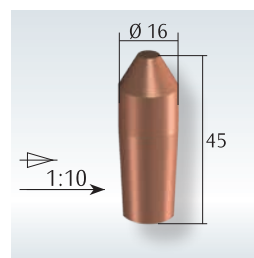
- ▶ IR 14 water cooling equipment (for all Z's and ZP's)
- ▶ Special electrodes (on request)
- ▶ 65 mm offset electrode holders
- ▶ Long electrode holders
- ▶ Barholders with 100 mm bars
- ▶ Possibility of a two-step pedal: squeeze without welding and welding after pressing the second step
- ▶ Possibility of a double pedal for quick use of two different welding programs



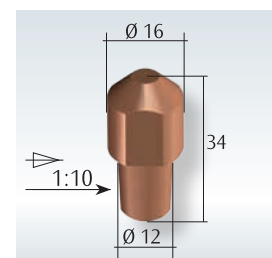
Z - ZP				Z 18 ZP 18	Z 28 ZP 28
	A	MIN.	mm	250	250
		MAX.	mm	600	600
	B		mm	215	215
	C		mm	135	135
			Ø mm	40	40
			Ø mm	21	21
		Ø mm	16	16	
			10%	10%	

				Z 18 ZP 18	Z 28 ZP 28
	L1	mm	492	492	
	Ø1 Min	mm	60	60	
	L2	mm	570	570	
	Ø2 Min	mm	85	85	

TECHNICAL DATA		Z 18 ZP 18	Z 28 ZP 28
Single phase input 50/60 Hz	V	400	400
Rated power at 50%	kVA	15	25
Max. welding power	kVA	23	41,6
Installed power	kVA	11	14
Cross section connecting cables	mm ²	10	10
Delayed fuse	A	32	40
Open Circuit Voltage	V	2,6	3,5
Short circuit current	kA	10,2	13,8
Max. welding current	kA	8,2	11
Max. electrode force (6 bar)	daN	300	300
Water consumption at 300 kPa (3 bar)	l/min	3,8	3,8
Dimensions	↗ mm	760	760
	→ mm	330	330
	↑ mm	1200	1200
Weight	kg	104	118



Standard electrode



Electrode for lower arm in pressed-in electrode version