



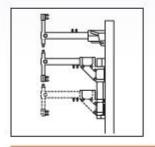




ROCKER ARM SPOT WELDERS WITH ADJUSTABLE HEIGHT LOWER ARM

The K and KP series resistance spot welders, versatile, robust and easy-to-use, ensure best welding results on all weldable metals and represent the ideal solution in a large variety of spot-welding applications. K's and KPs allow to adjust lower arm both in height and also laterally. K models are mechanical pedal operated, whilst KPs are pneumatically operated by an electric pedal.





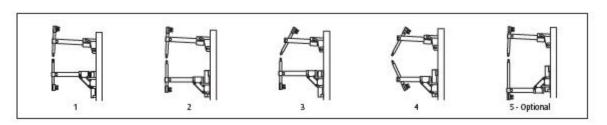






- Excellent welding on all weldable metals
- ▶ Welding current and time electronic adjustments
- Synchronous ignition SCR group with phase shift welding current adjustment to eliminate initial transient
- Reduced consumption
- ▶ Water cooled arms

- > Water cooled copper electrodeholders with adjustable height
- Self-lubricated pneumatic components to eliminate oil deposits and to safeguard the environment from contaminants (KP)
- ▶ High versatility thanks to all different possible work configurations
- Lower arm with adjustable height which can be rotated for use with a longer electrodeholder (Optional K/KP fig.5)





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)



	K - KP		FUNCTIONS	WS 402
1		a	Squeeze time	
	1		Pressure contact	
(N)	tis) b	Slope up time	
		C1 - C2*	Welding time	•
H(A)	tis	i ₁ - i ₂ *	Welding current	•
	a B o d a	d	Holding time	
		e	Pause time	•
L(A)	tis	1		

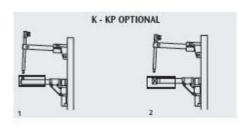
- Electrode force adjustable by spring nut and, for KP, also by air pressure regulation manometer
- Easy electrode gap adjustment without moving the electrodeholders





K – KP 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 (only for K / KP 22 and 28)
- ▶ 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



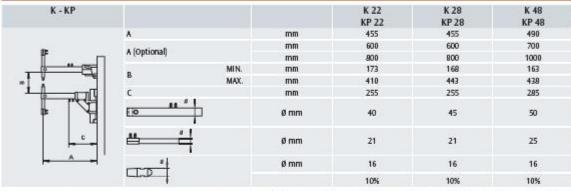


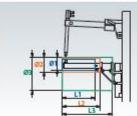












		K 22 KP 22	K 22 KP 22	K 28 KP 28	K 28 KP 28	K 48 KP 48	K 48 KP 48	K 48 KP 48
A	mm	455	600	455	800	490	700	1000
L1	mm	252	397	252	597	257	467	767
Ø1 Min	mm	60	60	63	63	65	65	65
L2	mm	280	429	289	643	295	505	805
Ø2 Min	mm	85	85	90	90	98	98	98
B	mm	397	542	402	747	427	637	937
Ø3 Min	mm	180	180	185	185	205	205	205

TECHNICAL DATA		K 22 KP 22	K 28 KP 28	K 48 KP 48
Single phase input 50/60 Hz	v	400	400	400
Rated power at 50%	kva	20	25	45
Max. welding power	kva	36,5	54,7	75
nstalled power	kva	12	14	24
Cross section connecting cables	mm ²	10	16	25
Delayed fuse	A	25	36	63
Open Circuit Voltage	v	3,5	4,2	5,2
Short circuit current	kA	11,6	14	17,8
Max. welding current	kA	9,3	11,2	14,2
Max. electrode force (6 bar)	daN	190	300	290
Water consumption at 300 kPa (3 bar)	I/min	3,8	3,8	3,8
	≠ mm	980	980	1020
Dimensions	→ mm	330	390	390
	† mm	1200	1250	1250
Weight	kg	120	167	194

Other voltages on request - Technical features might change without notice

RESTECH202001EN - K KP

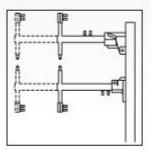






ROCKER ARM SPOT WELDERS WITH ADJUSTABLE ARM LENGTH

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.



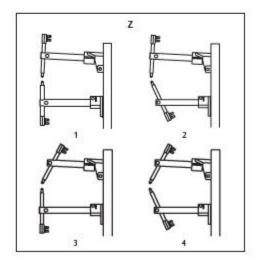








- Excellent welding on all weldable metals
- ▶ Welding current and time electronic adjustments
- Synchronous ignition SCR group with phase shift welding current adjustment to eliminate initial transient
- ▶ Reduced consumption
- ▶ Water cooled arms
- Water cooled copper electrodeholders with adjustable 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)

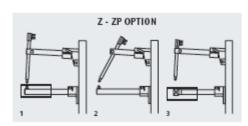


- Electrode force adjustable by spring nut and, for ZP, also by air pressure regulation manometer
- ▶ Easy electrode gap adjustment without moving the electrodeholders

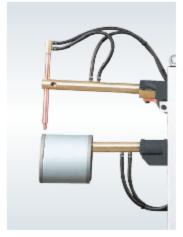


Z – ZP LOWER ARM FITTED WITH PRESSED-IN ELECTRODE

Whenever the lower arm is fitted with a pressedin 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



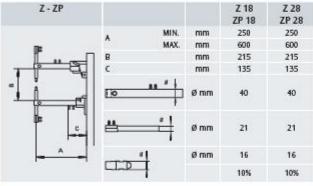






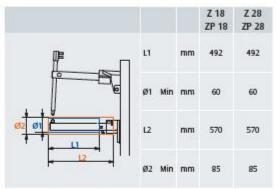






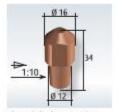
	A MIN.	mm	250	250
The Control	MAX.	mm	600	600
Ĭ	В	mm	215	215
	C	mm	135	135
-	(o	ømm	40	40
c c	# *	ø mm	21	21
^ '	*	ø mm	16	16
			10%	10%
TECHNICAL DAT	A	Z 18		Z 28

TECHNICAL DATA		Z 18 ZP 18	Z 28 ZP 28
Single phase input 50/60 Hz	٧	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	mm²	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
	≯mm	760	760
Dimensions	→ mm	330	330
	† mm	1200	1200
Weight	kg	104	118









Electrode for lower arm in pressed-in electrode version

Other voltages on request - Technical features might change without notice



