



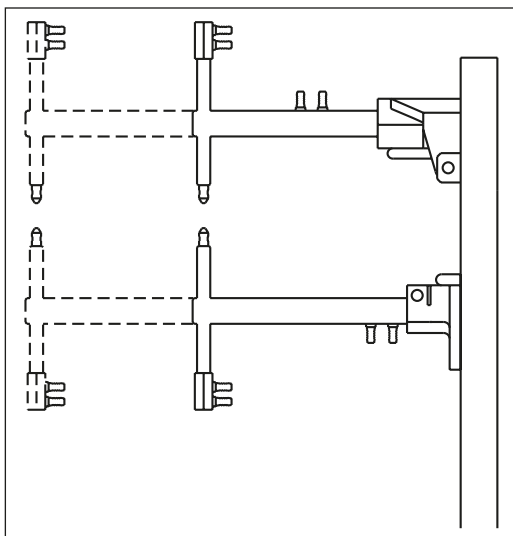
Z - NKL



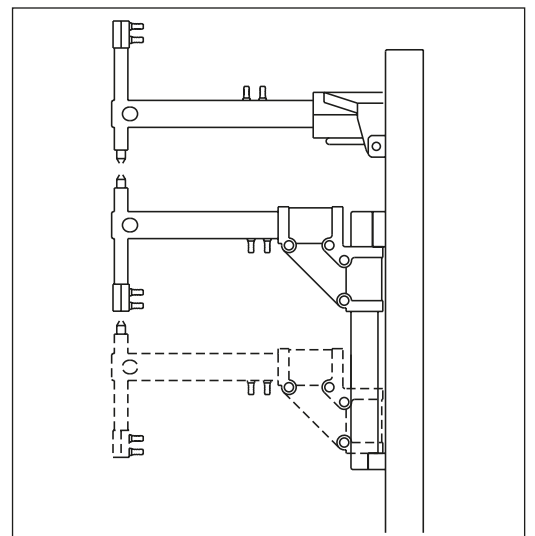
ROCKER ARM SPOT WELDERS

The Z and NKL series resistance spot welders, versatile, robust and easy-to-use, ensure best welding results on any weldable metal and are the most ideal solution for all spot welding applications.

Z and NKL models are supplied either mechanical or air operated.
ZT's - NKL T's: mechanically operated pedal.
ZP's - NKL P's: pneumatically operated by electric pedal.

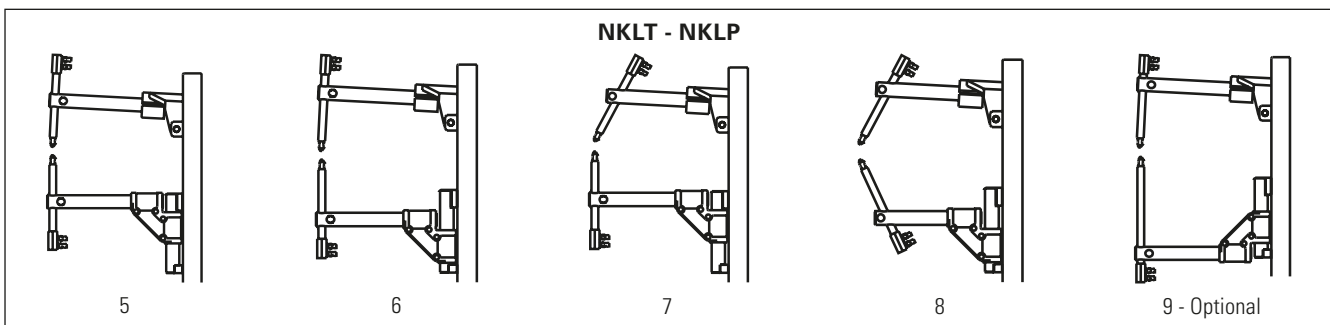
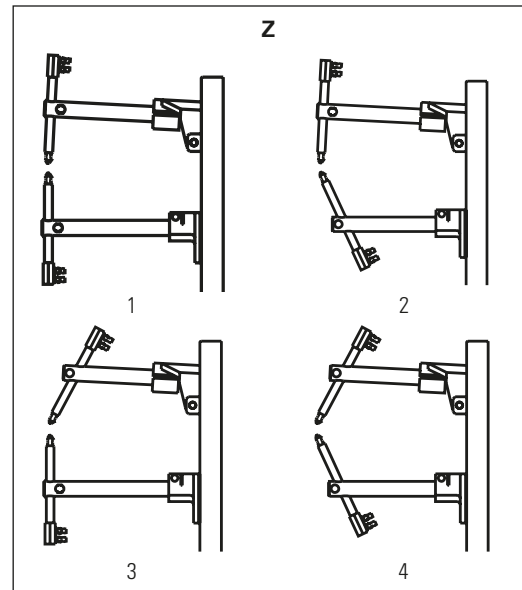


Z SERIES
Arms with adjustable length

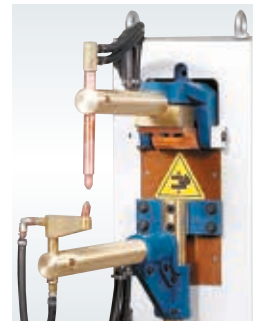


NKL SERIES
Lower arm lateral adjustment
Lower arm with adjustable height

- ▶ Excellent welding on all weldable metals
- ▶ Electronic adjustment of the welding current and time
- ▶ 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-NKLP)
- ▶ 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 NKL - fig.9)



- ▶ Electrode force adjustable by spring nut and, for ZP's and NKLP's, also by air pressure regulation manometer
- ▶ Easy electrode gap adjustment without moving the electrodeholders
- ▶ Laterally adjustable lower arm (NKL)



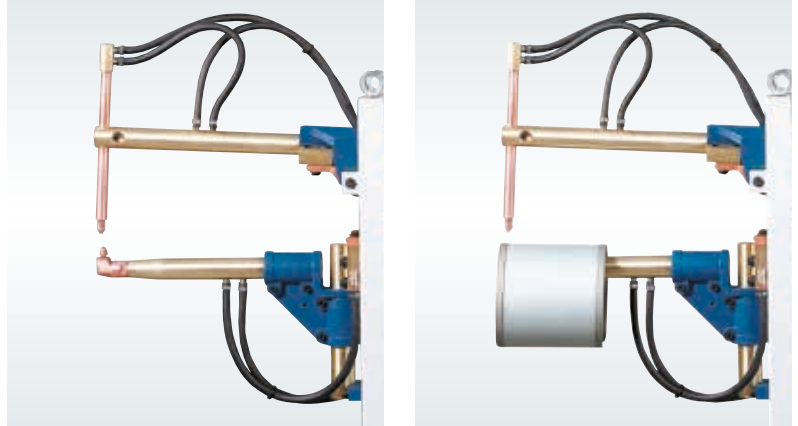
ACCESSORIES

- IR 14 cooling equipment (only for Z 18 – 28 series and NKL 22)
- Special electrodes (on request)
- 65 mm depth pipe tips set
- Long electrodeholder
- Barholders with 100 mm bars
- Possibility of a two step pedal: squeeze and welding only after workpiece position checking
- Possibility of a double pedal for a quick selection and use of two different welding programs



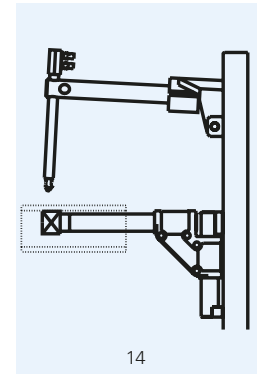
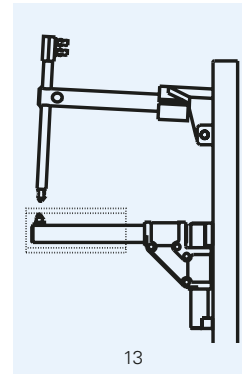
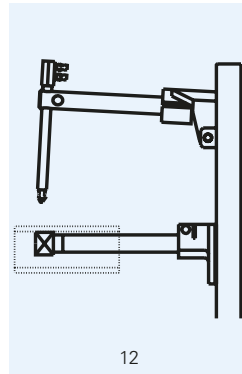
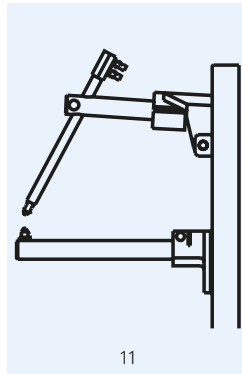
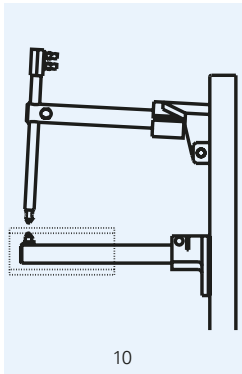
SPECIAL VERSION

Lower arm with pressed-in electrode and long electrodeholder on the upper arm (Optional).
The usable arms depth is given by the difference between A and C (see below table).



ZT - ZP OPTIONAL

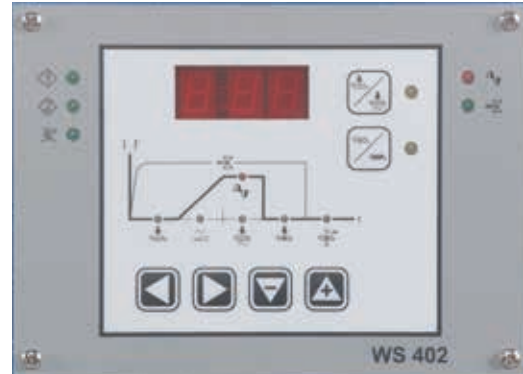
NKLT - NKLP OPTIONAL



ZT - ZP	NKLT - NKLP			Z		NKL				
				ZT 18 ZP 18	ZT 28 ZP 28	NKLT 22 NKLP 22	NKLT 28 NKLP 28	NKLT 48 NKLP 48		
		A	MIN.	mm	250	250	---	---	---	
			MAX.	mm	600	600	455	455	490	
		A (Optional)		mm	---	---	600	600	700	
				mm	---	---	800	800	1000	
		B	MIN.	mm	215	215	173	168	163	
			MAX.	mm	---	---	410	443	438	
		C		mm	135	135	255	255	285	
					Ø mm	40	40	40	45	50
					Ø mm	21	21	21	21	25
					Ø mm	16	16	16	16	16
				10%	10%	10%	10%	10%		

WS 402

- ▶ Welding time adjustable by periods
- ▶ Single and 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 programs (2 times and 2 currents) by using a double pedal (optional)



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

TECHNICAL DATA		Z		NKL		
		ZT 18 ZP 18	ZT 28 ZP 28	NKLT 22 NKLP 22	NKLT 28 NKLP 28	NKLT 48 NKLP 48
Single phase input 50/60 Hz	V	400	400	400	400	400
Rated power at 50%	kVA	15	25	20	25	45
Max. welding power	kVA	23	41,6	36,5	54,7	75
Installed power	kVA	11	14	12	14	24
Cross section connecting cables	mm ²	10	10	10	16	25
Delayed Fuse	A	32	40	25	36	63
Open Circuit Voltage	V	2,6	3,5	3,5	4,2	5,2
Short circuit current	kA	10,2	13,8	11,6	14	17,8
Max. welding current	kA	8,2	11	9,3	11,2	14,2
Electrode force max (6 bar)	daN	220	220	180	220	260
Water consumption a 300 kPa (3 bar)	l/min	3,8	3,8	3,8	3,8	3,8
Dimensions	↗ mm	760	760	980	980	1020
	→ mm	330	330	330	390	390
	↑ mm	1200	1200	1200	1250	1250
Weight	kg	104	118	120	167	194

Other voltages available on request

These power sources are built for industrial environment use. EMC (CISPR 11): class A



ISO 9001: 2008