

LBS 44 ▪ LBS 75 ▪ LBS 80

Compact stud welding units for capacitor discharge stud welding (contact and gap method)

- welding range: \varnothing 2-10 mm
- welding materials: steel, stainless steel, aluminium, brass
- highest operational reliability, excellent welding quality, high power-on time
- simple handling
- indication of all functions by LED, display of potential error messages
- electronic control of all functions
- digital display of charging voltage
- continuously adjustable charging voltage
- short charging time and thus quick welding sequences through electronically clocked inverter charging board
- low-loss charging of capacitors through electronically clocked inverter charging board
- low thermal power loss
- charging voltage not influenced by supply voltage variations
- optimal safety during welding through integrated safety switching
- internal charging time regulation in order to prevent overheating
- light and handy, especially suitable for mobile use



Technical Data

	LBS 44	LBS 75	LBS 80
Welding range	Ø 2-6 mm	Ø 2-8 mm	Ø 2-10 mm
Welding material	steel, stainless steel, aluminium, brass		
Welding rate	up to 25 studs/minute (depending on application and stud diameter)		
Welding methods (acc. to DIN EN ISO 14555)	capacitor discharge (contact and gap welding)		
Welding time	1-3 ms		
Characteristics	-		<ul style="list-style-type: none"> ▪ thermic controlled ventilator
	<ul style="list-style-type: none"> ▪ compact construction, low weight ▪ robust, powder-coated metal housing ▪ powder-coated front-plate with screenprint (scratch and abrasion-resistant), ensures longtime readability of all labellings ▪ 50 mm² welding cable sockets in order to prevent burnt contacts ▪ automatic function test after switch-on ▪ stable fixing of welding cable sockets at own plug holder, prevents damage on housing caused by pulling of cable ▪ electromagnetic compatibility (EMC) tested ▪ CE conformity 		
Capacitance	44.000 µF	66.000 µF	90.000 µF
Charging voltage	60-200 V, continuously adjustable		
Charging energy	880 Ws	1320 Ws	1800 Ws
Power source	capacitor battery		
Mains plug	earth contact plug according to DIN 49441		
Mains supply	230 V (± 10%), 2 A, 50/60 Hz [convertable to 115 V (± 10%), 4 A, 50/60 Hz]		
Mains fuse external	≥ 10 AT		
Protection	IP 21		
Dimensions (WxHxL)	195x265x410 mm		
Weight	10 kg	11 kg	13,5 kg
Article-No.	B-90-30-2037	B-90-30-2035	B-90-30-2030
Suitable welding guns	PKM-1B, PKM-101, PHM-1A, PHM-101, PIM-1B		