

LBS 90 ▪ LBS 130

High-performance 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
- ideally suitable for difficult welding tasks (e.g. welding of studs \varnothing 10 mm resp. of studs \varnothing 8 mm on galvanized surfaces)
- short charging time and thus quick welding sequences through electronically clocked inverter charging boards (standard: 1 charging board, optional: 2 charging boards)
- low-loss charging of capacitors through electronically clocked inverter charging boards
- 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
- optional: automatic module to control an automatic stud feeding system and an automatic welding gun or an automatic welding head (automatic module can be retrofitted)



Technical Data

	LBS 90	LBS 130
Welding range	Ø 2-10 mm	
Welding material	steel, stainless steel, aluminium, brass	
Welding rate	up to 40 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"> ▪ compact construction, low weight ▪ thermic controlled ventilator ▪ 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 	
Options	<ul style="list-style-type: none"> ▪ automatic module to control an automatic stud feeding system and an automatic welding gun or an automatic welding head (automatic module can be retrofitted) 	
Capacitance	88.000 µF	132.000 µF
Charging voltage	60-200 V, continuously adjustable	
Charging energy	1760 Ws	2640 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)	275x265x470 mm	
Weight	19 kg	20 kg
Article-No.	B-90-30-3120	B-90-30-3228
Suitable welding guns	PKM-1B, PKM-101, PHM-1A, PHM-101	