

## 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
<b>Welding range</b>	Ø 2-10 mm	
<b>Welding material</b>	steel, stainless steel, aluminium, brass	
<b>Welding rate</b>	up to 40 studs/minute (depending on application and stud diameter)	
<b>Welding methods (acc. to DIN EN ISO 14555)</b>	capacitor discharge (contact and gap welding)	
<b>Welding time</b>	1-3 ms	
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>▪ compact construction, low weight</li> <li>▪ thermic controlled ventilator</li> <li>▪ robust, powder-coated metal housing</li> <li>▪ powder-coated front-plate with screenprint (scratch and abrasion-resistant), ensures longtime readability of all labellings</li> <li>▪ 50 mm<sup>2</sup> welding cable sockets in order to prevent burnt contacts</li> <li>▪ automatic function test after switch-on</li> <li>▪ stable fixing of welding cable sockets at own plug holder, prevents damage on housing caused by pulling of cable</li> <li>▪ electromagnetic compatibility (EMC) tested</li> <li>▪ CE conformity</li> </ul>	
<b>Options</b>	<ul style="list-style-type: none"> <li>▪ automatic module to control an automatic stud feeding system and an automatic welding gun or an automatic welding head (automatic module can be retrofitted)</li> </ul>	
<b>Capacitance</b>	88.000 µF	132.000 µF
<b>Charging voltage</b>	60-200 V, continuously adjustable	
<b>Charging energy</b>	1760 Ws	2640 Ws
<b>Power source</b>	capacitor battery	
<b>Mains plug</b>	earth contact plug according to DIN 49441	
<b>Mains supply</b>	230 V (± 10%), 2 A, 50/60 Hz [convertable to 115 V (± 10%), 4 A, 50/60 Hz]	
<b>Mains fuse external</b>	≥ 10 AT	
<b>Protection</b>	IP 21	
<b>Dimensions (WxHxL)</b>	275x265x470 mm	
<b>Weight</b>	19 kg	20 kg
<b>Article-No.</b>	B-90-30-3120	B-90-30-3228
<b>Suitable welding guns</b>	PKM-1B, PKM-101, PHM-1A, PHM-101	