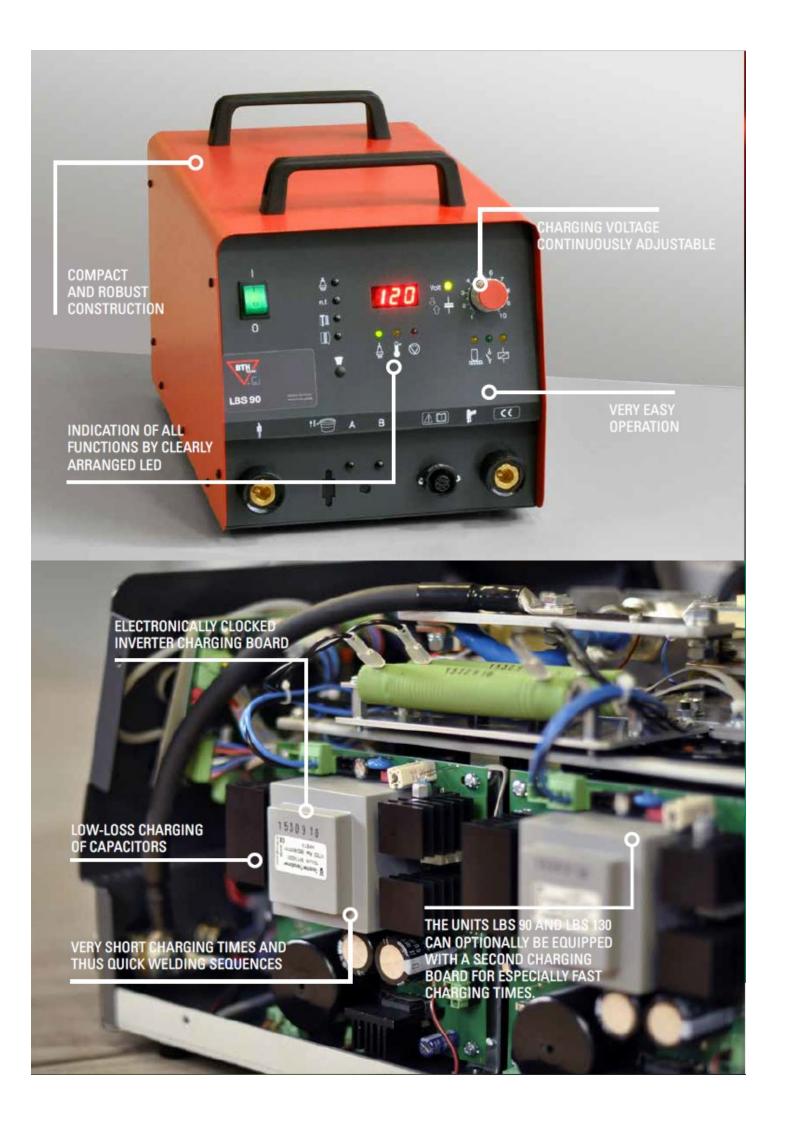


**Fastening Components for Engineers** 

# LBS Studwelders

Capacitor Discharge Stud Welding Units







#### HIGHLIGHTS AND SPECIAL EQUIPMENT



#### ELECTRONICALLY CLOCKED INVERTER CHARGING BOARDS

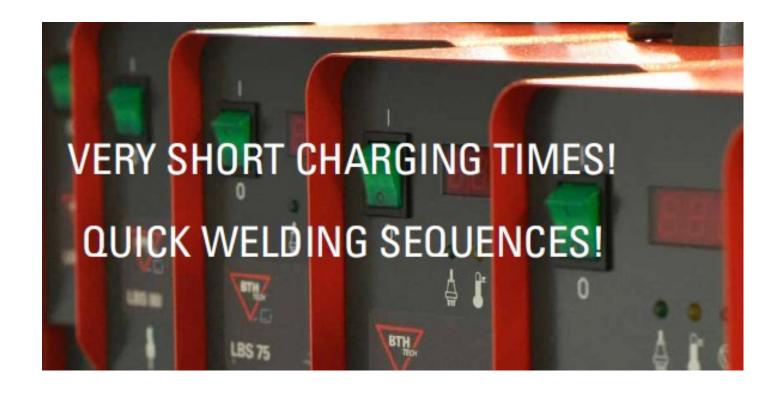
- ensure very short charging times and thus quick welding sequences
- » ensure energy-efficient charging of capacitors
- » The units LBS 90 and LBS 130 can optionally be equipped with a second charging board for especially fast

charging times. Thus, extremely quick welding sequences (e.g. for automatic applications) can be achieved.





» An automatic module enables the connection of the automatic stud feeder VBZ and an automatic welding gun.



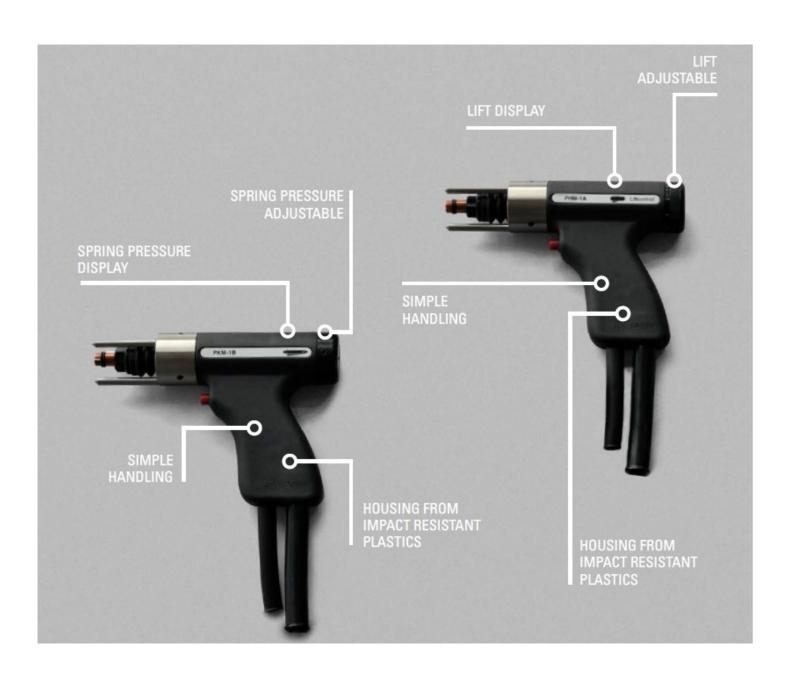
#### **Technical Data and Characteristics**

	LBS 75	LBS 80
Max. welding diameter (mm)	8	10
Capacitance (μF)	66000	90000
Charging voltage (V)	60 - 200	60 - 200
Welding time (mS)	1 - 3	1 - 3
Electronically clocked inverter charging boards 1 charging board 2 charging boards	х	х
Operation		
Repeat cycle lock	х	х
Electronic function control	х	х
Self diagnosis system	X	x
Automatic function test	x	x
Automatic stud feeding		
Error diagnosis systems		
Excess temperature	х	х
Damage on welding/control cable	х	х
Damage on solenoid	х	х
Thermic controlled ventilator		х

	LBS 75	LBS 80
Robust, powder-coated metal housing	х	х
Dimensions		
Width (mm)	195	195
Height (mm)	260	260
Length (mm)	400	400
Weight (kg)	11	13,5
Electric connection		
Mains supply (V) at 50/60 Hz	230 (115)	230 (115)
Mains fuse external	≥ 10 AT	≥ 10 AT
Protection	IP 21	IP 21
Control cable socket for welding guns	7-pin	7-pin
Suitable welding guns		
PKM-1B	х	Х
PHM-1A	x	х
PIM-1B	x	0
PKA-500		
PHA-500		



# CD Guns & Accessories



#### TECHNICAL DATA AND CHARACTERISTICS

	PKM-1B	PHM-1A
Welding method		
Capacitor discharge (contact)	х	
Capacitor discharge (gap)		X
Welding range (Ø mm)	2-10	2-10
Welding material		
Steel	x	х
Stainless steel	х	х
Aluminium		х
Brass		x
Spring pressure adjustable	x	
Spring pressure display	x	
Lift adjustable		x
Lift display		х
Piston guide		
Slide-bearing	x	x
Linear ball track	0	0
Welding cable		
-cross-section (mm²)	25	25
-length (m)	6,5	3,5
Control cable plug	7-pin	7-pin
Housing from impact resistant plastics	х	х
Protection of piston guidance from welding spatters	х	х
Dimensions		
Width (mm)	40	40
Height (mm)	130	130
Length (mm)	183	183
Weight without cable (kg)	0,7	0,7

### Positioning Tube

#### For welding in jigs and on tubes



Ø	Length	Part Number
30	79	B-90-50-1012
30	100	B-90-501112

## **Centring Device**





1	Centring Tube	5	Centring Disc
2	Flange	6	Cylinder Bolt
3	Distance Bolt	7	<b>Chuck Extension</b>
4	Foot Ring 38/32		12.5mm with length
			stop

#### Intermediate Ring 16mm



Offset Chuck
For welding close to edges





For welding of studs at a distance of up to 8.5mm To angled sheets