



# LBS

STUD WELDING UNITS FOR CAPACITOR DISCHARGE STUD WELDING



STUD WELDING TECHNOLOGY BY



STUD WELDING

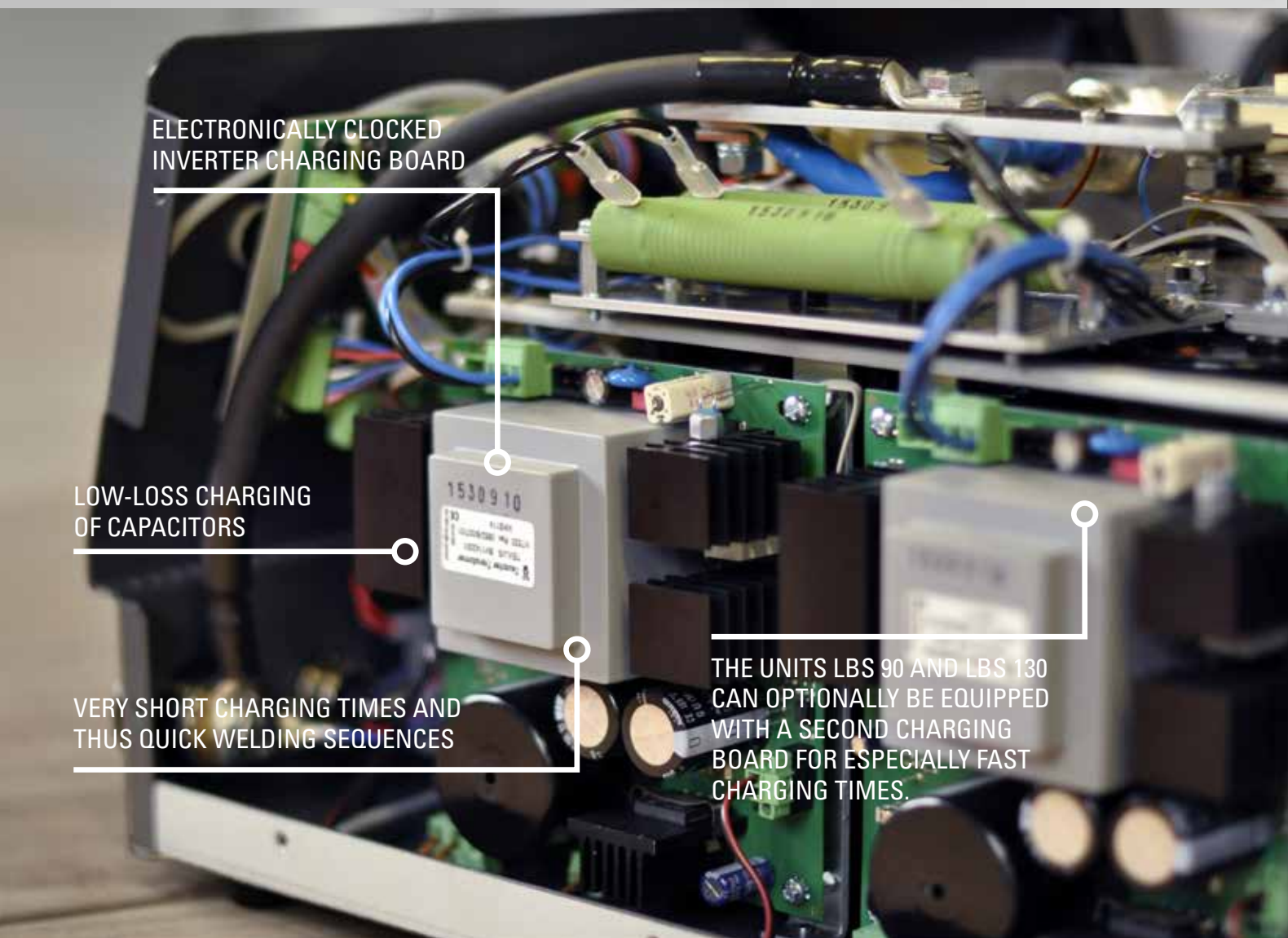


COMPACT AND ROBUST CONSTRUCTION

CHARGING VOLTAGE CONTINUOUSLY ADJUSTABLE

INDICATION OF ALL FUNCTIONS BY CLEARLY ARRANGED LED

VERY EASY OPERATION



ELECTRONICALLY CLOCKED INVERTER CHARGING BOARD

LOW-LOSS CHARGING OF CAPACITORS

VERY SHORT CHARGING TIMES AND THUS QUICK WELDING SEQUENCES

THE UNITS LBS 90 AND LBS 130 CAN OPTIONALLY BE EQUIPPED WITH A SECOND CHARGING BOARD FOR ESPECIALLY FAST CHARGING TIMES.



## 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.



### AUTOMATIC STUD FEEDING

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

# VERY SHORT CHARGING TIMES! QUICK WELDING SEQUENCES!

## TECHNICAL DATA AND CHARACTERISTICS

	LBS 44	LBS 75	LBS 80	LBS 90	LBS 130
<b>Max. welding diameter (mm)</b>	6	8	10	10	10
<b>Capacitance (µF)</b>	44000	66000	90000	88000	132000
<b>Charging voltage (V)</b>	60 - 200	60 - 200	60 - 200	60 - 200	60 - 200
<b>Welding time (mS)</b>	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
<b>Electronically clocked inverter charging boards</b>					
1 charging board	x	x	x	x	x
2 charging boards				0	0
<b>Operation</b>					
Repeat cycle lock	x	x	x	x	x
Electronic function control	x	x	x	x	x
Self diagnosis system	x	x	x	x	x
Automatic function test	x	x	x	x	x
<b>Automatic stud feeding</b>				0	0
<b>Error diagnosis systems</b>					
Excess temperature	x	x	x	x	x
Damage on welding/control cable	x	x	x	x	x
Damage on solenoid	x	x	x	x	x
<b>Thermic controlled ventilator</b>			x	x	x

	LBS 44	LBS 75	LBS 80	LBS 90	LBS 130
<b>Robust, powder-coated metal housing</b>	x	x	x	x	x
<b>Dimensions</b>					
Width (mm)	195	195	195	275	275
Height (mm)	260	260	260	260	260
Length (mm)	400	400	400	400	400
Weight (kg)	10	11	13,5	19	20
<b>Electric connection</b>					
Mains supply (V) at 50/60 Hz	230 (115)	230 (115)	230 (115)	230 (115)	230 (115)
Mains fuse external	≥ 10 AT	≥ 10 AT	≥ 10 AT	≥ 10 AT	≥ 10 AT
Protection	IP 21	IP 21	IP 21	IP 21	IP 21
<b>Control cable socket for welding guns</b>	7-pin	7-pin	7-pin	7-pin	7-pin
<b>Suitable welding guns</b>					
PKM-1B	x	x	x	x	x
PHM-1A	x	x	x	x	x
PIM-1B	x	x	o		
PKA-500				o	o
PHA-500				o	o

x – Standard, o – Option



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