

## HIGHLIGHTS

- ✓ welding programme library
- ✓ optimized menu structure and operation
- ✓ new authorization concept
- ✓ user-specific menu configuration



# PRO-C

STUD WELDING UNITS FOR CAPACITOR DISCHARGE STUD WELDING

**STUD WELDING**

INTEGRATED WELDING  
PARAMETER MONITORING  
(OPTIONAL: WELDING  
PARAMETER MEMORY)

CHARGING VOLTAGE  
CONTINUOUSLY ADJUSTABLE

COMPACT  
AND ROBUST  
CONSTRUCTION

EASY OPERATION BY  
ROBUST ROTATING  
PRESSURE SWITCH

ALL FUNCTIONS AND  
PARAMETERS ARE SHOWN  
ON A BIG DISPLAY

CAPACITANCE  
SWITCHABLE FOR  
OPTIMAL ADAPTATION TO  
DIFFERENT WELDING TASKS

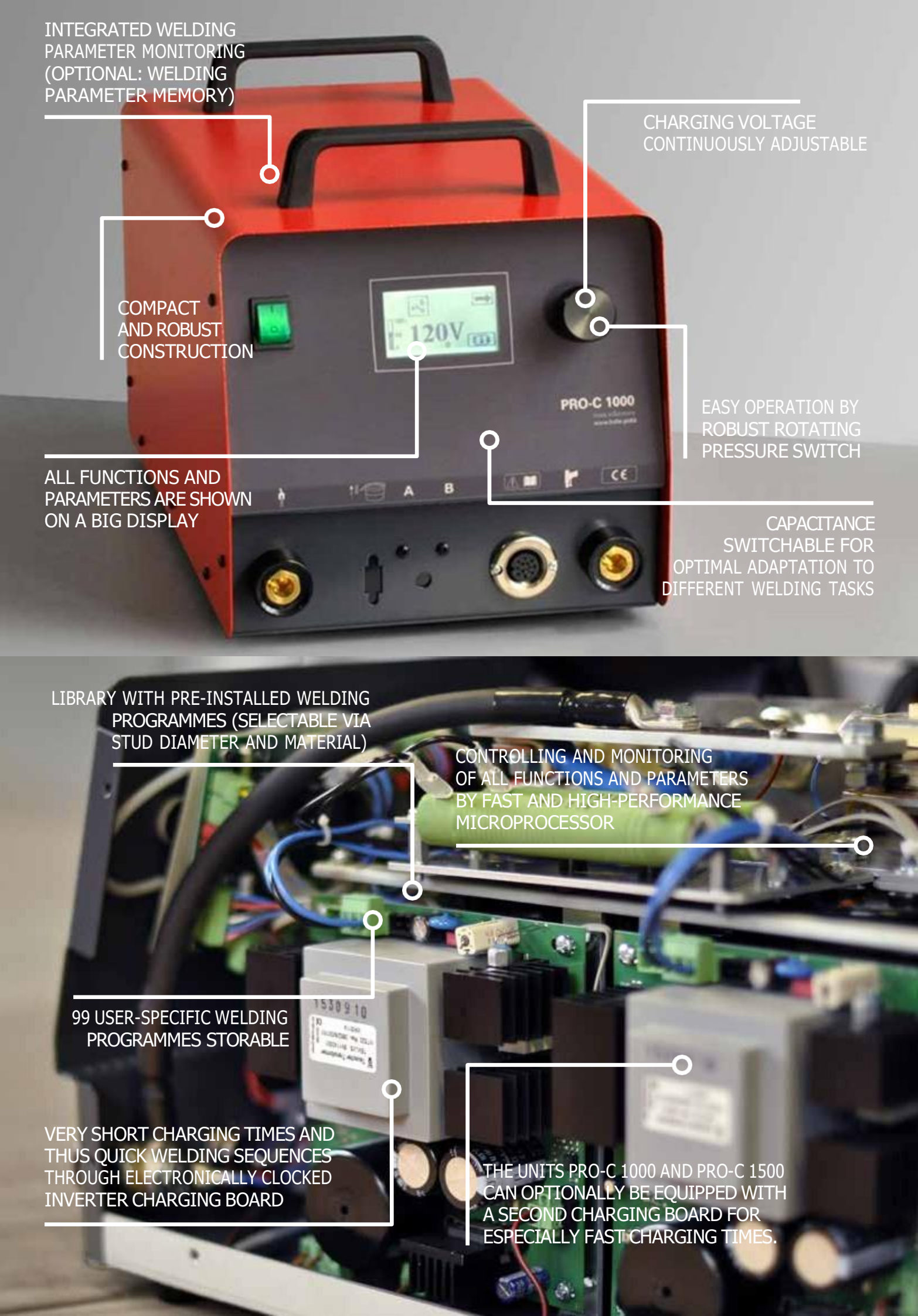
LIBRARY WITH PRE-INSTALLED WELDING  
PROGRAMMES (SELECTABLE VIA  
STUD DIAMETER AND MATERIAL)

CONTROLLING AND MONITORING  
OF ALL FUNCTIONS AND PARAMETERS  
BY FAST AND HIGH-PERFORMANCE  
MICROPROCESSOR

99 USER-SPECIFIC WELDING  
PROGRAMMES STORABLE

VERY SHORT CHARGING TIMES AND  
THUS QUICK WELDING SEQUENCES  
THROUGH ELECTRONICALLY CLOCKED  
INVERTER CHARGING BOARD

THE UNITS PRO-C 1000 AND PRO-C 1500  
CAN OPTIONALLY BE EQUIPPED WITH  
A SECOND CHARGING BOARD FOR  
ESPECIALLY FAST CHARGING TIMES.



## HIGHLIGHTS AND SPECIAL EQUIPMENT



### WELDING PARAMETER MONITORING AND DOCUMENTATION

The welding parameter monitoring, integrated as standard in all series PRO-C stud welding units, enables a quality control of the finished welds.

Features:

- » recording of welding current and welding time for each weld
- » recording of stud protrusion before the weld as well as stud travel (lift, immersion depth and immersion speed) during the weld (only when a welding gun resp. an automatic welding head with travel measuring system is used)
- » comparison of the recorded welding parameters (actual values) to the parameters of a reference weld (set values) (tolerances adjustable)
- » in case of variances to the reference weld a warning is displayed or the unit is locked for further welds until the release by the operator (functionality can be switched off)
- » storage of the last ten welding parameter sets
- » optional (also retrofittable): welding parameter memory for the storage of 16000 welding parameter sets (storage with date and time) with USB-interface for data transmission to a PC



### COMFORTABLE, EXACT AND FAST ADJUSTING OF STUD WELDING GUN RESP. AUTOMATIC WELDING HEAD

- » The values for stud protrusion and lift that are adjusted on the gun resp. the welding head can be shown in the display of the unit. Thus, the gun resp. the welding head can be adjusted

very comfortable, exact and fast. (only when a welding gun resp. an automatic welding head with travel measuring system is used)



### AUTOMATIC STUD FEEDING

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



### ADAPTER BOX PRO-SPLIT

- » available as accessory for all series PRO-C units
- » enables the operation of up to four stud welding guns with different adjustment values for charging voltage and capacitance on one unit
- » automatic detection of used gun
- » weld counter for each gun connection

# TECHNICAL DATA AND CHARACTERISTICS

	PRO-C 750	PRO-C 900	PRO-C 1000	PRO-C 1500
<b>Max. welding diameter (mm)</b>	8	10	10	10
<b>Capacitance (µF) [switchable]</b>	66000	90000	88000 [44000]	132000 [88000/44000]
<b>Charging voltage (V)</b>	60 - 200	60 - 200	60 - 200	60 - 200
<b>Welding time (mS)</b>	1 - 3	1 - 3	1 - 3	1 - 3
<b>Welding parameter monitoring</b>				
Welding parameter monitoring	x	x	x	x
Welding parameter memory with USB-interface for data transmission to a PC	o	o	o	o
<b>Electronically clocked inverter charging boards<sup>1)</sup></b>				
1 charging board	x	x	x	x
2 charging boards			o	o
<b>Utilisable with adapter box PRO-SPLIT</b>	x	x	x	x
<b>Operation</b>				
Microprocessor control	x	x	x	x
Welding programme library	x	x	x	x
Capacitance switchable			x	x
Welding programme storage	x	x	x	x
Device lock with PIN code	x	x	x	x
Authorization concept (device lock, basic settings, menu structure)	x	x	x	x
Weld counter (resettable)	x	x	x	x
Lift test	x	x	x	x
Repeat cycle lock	x	x	x	x
Electronic function control	x	x	x	x
Self diagnosis system	x	x	x	x
Automatic function test	x	x	x	x
<b>Automatic stud feeding</b>			o	o
<b>Error diagnosis systems</b>				
Excess temperature	x	x	x	x
Damage on welding/control cable	x	x	x	x
Damage on solenoid	x	x	x	x
<b>Interfaces</b>				
CAN-BUS	o	o	o	o
USB	o	o	o	o
<b>Thermic controlled ventilator</b>		x	x	x
<b>Robust, powder-coated metal housing</b>	x	x	x	x

	PRO-C 750	PRO-C 900	PRO-C 1000	PRO-C 1500
<b>Dimensions</b>				
Width (mm)	195	195	275	275
Height (mm)	260	260	260	260
Length (mm)	400	400	400	400
Weight (kg)	11	13,5	19	20
<b>Electric connection</b>				
Mains supply (V) at 50/60 Hz	230 (115)	230 (115)	230 (115)	230 (115)
Mains fuse external	≥ 10 AT	≥ 10 AT	≥ 10 AT	≥ 10 AT
Protection	IP 21	IP 21	IP 21	IP 21
<b>Control cable socket for welding guns</b>				
	7-pin	7-pin	12-pin	12-pin
<b>Suitable welding guns</b>				
PKM-1B	x	x	x	x
PHM-1A	x	x	x	x
PIM-1B	o	o		
PKA-500			o	o
PHA-500			o	o

x – Standard, o – Option

- <sup>1)</sup> Electronically clocked inverter charging boards ensure very short charging times and thus quick welding sequences as well as energy-efficient charging of capacitors. The units PRO-C 1000 and PRO-C 1500 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.



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