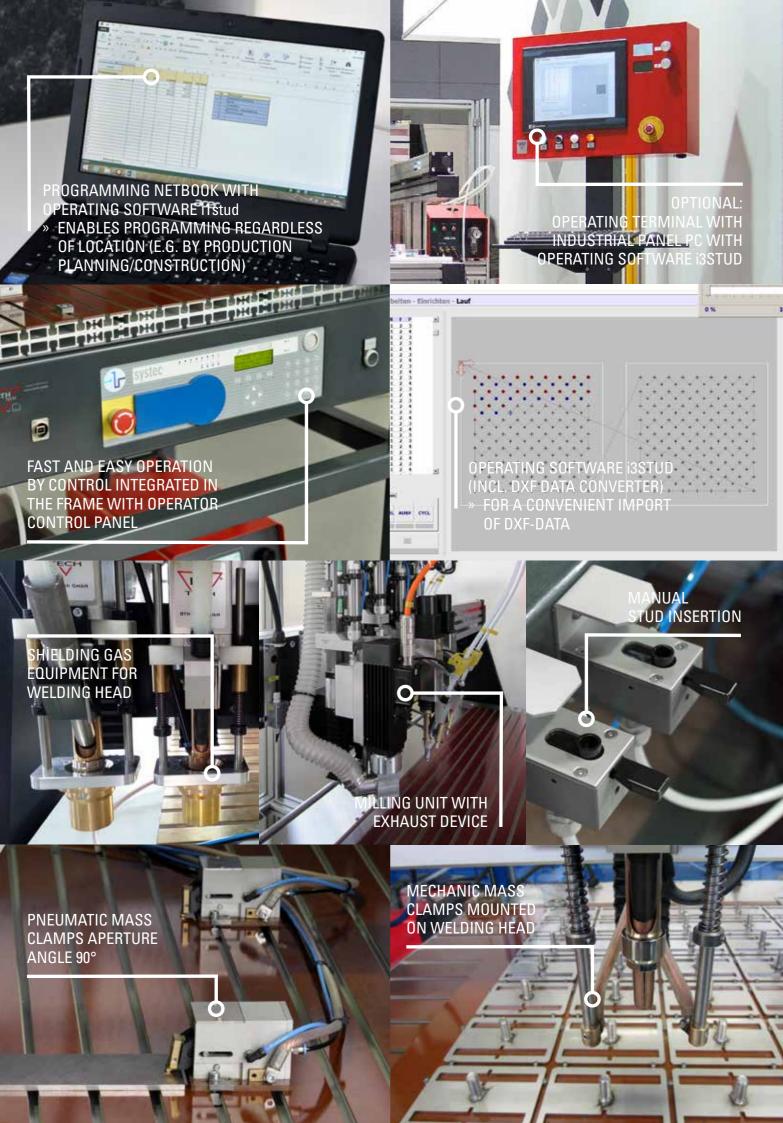
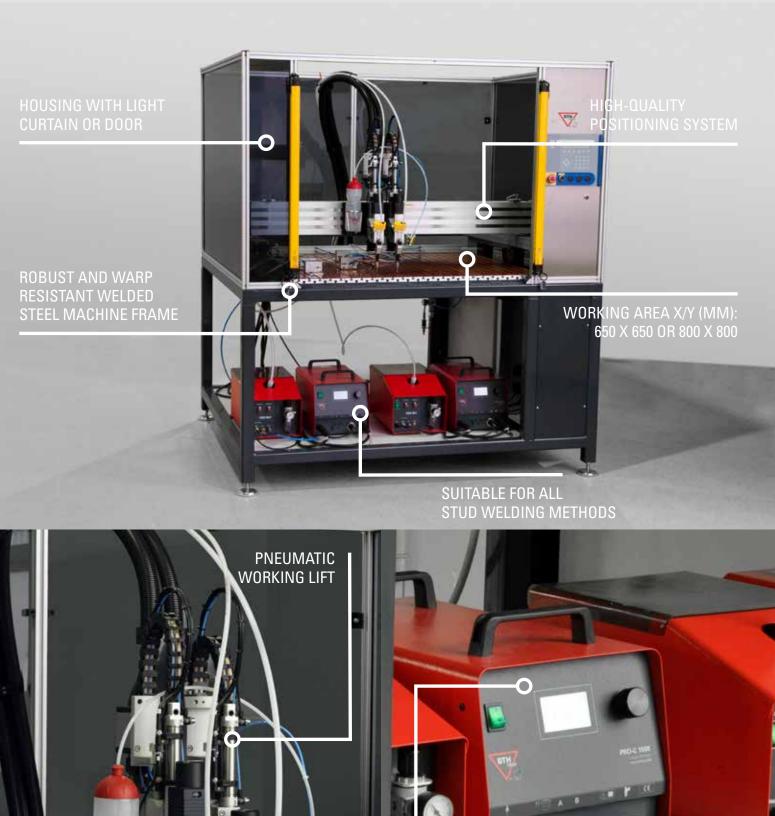
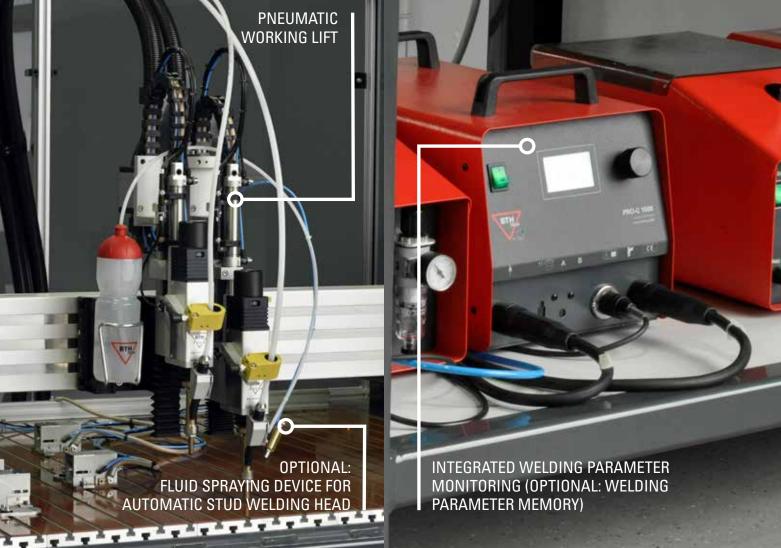


CNC STUD WELDING MACHINES







TECHNICAL DATA AND CHARACTERISTICS

	ZM	ZG
Working area X/Y (mm) ¹⁾ [can be reached by each welding head]	650 x 650	800 x 800
Welding range ²⁾	Ø 3-8 mm	Ø 3-8 mm
Max. number of stud welding heads	3	3
Max. operating speed X-/Y-axis (m/min)	12	12
Positioning accuracy of the welded studs +/- (mm)	0,2	0,2
Operation and programming Compact control with operator control panel, programming netbook with operating software i1stud	х	х
Operating terminal with industrial panel PC with operating software i3stud (incl. DXF data converter)	0	0
Welding parameter monitoring ³⁾ Welding parameter monitoring	Х	х
Welding parameter memory with USB-interface for data transmission to a PC	0	0
Automatic stud feeding	X	Х
Options		
Fluid spraying device for every welding head	0	0
Milling unit with exhaust device ⁴⁾	0	0
Pneumatic single stud feeding, manual stud insertion	0	0
Stud switch	0	0
Pneumatic mass clamps standard	0	0
Pneumatic mass clamps aperture angle 90°	0	0
Mechanic mass clamps on welding head	0	0
Pneumatic mass clamps on welding head	0	0
Workpiece downholder for every welding head	0	0
Shielding gas equipment for every welding head	0	0
Protection devices Housing with light curtain	x	x
Housing with door ⁵⁾	0	0
Motor technology/drive Step motors	х	х



	ZM	ZG
Pneumatic working lift/welding head (mm) (mechanic adjusting range 50 mm)	80	80
Machine frame Welded steel construction	v	v
	X	X
Suitable stud welding units ⁶⁾ PRO-C 1000	X	X
PRO-C 1500	X	X
PRO-I 1300	X	X
PRO-I 2200	X	X
PRO-D 1200	Х	Х
PRO-D 1600	X	Х
Suitable automatic stud welding heads ⁶⁾ KHA-200F with integrated travel measuring system	х	х
KKA-200F	X	x
Dimensions		
Width (mm)	1550	1700
Depth (mm)	1430	1580
Height (mm)	2000	2000
Weight (kg)	600	800
Connection values		
electrical (mains supply, mains fuse external)	230 V/50 Hz, 16A	230 V/50 Hz, 16A
pneumatical	≥ 6 bar unoiled, dry, clean	≥ 6 bar unoiled, dry, clean

x - Standard, o - Option

¹⁾ Other dimensions on request as special production.

Other diameters as well as special welding elements on request as special production.

By stud welding units PRO-C/PRO-I/PRO-D. For further details see product data sheets **PRO-C**, **PRO-I** and **PRO-D**.

The machine concept is designed for three working stations. If a milling unit is used at the most two stud welding heads can be mounted.

Design as sliding, folding or lift door (if required also pneumatically). Optional: Housing with closed top as sound insulation housing.

The machines are suitable for all stud welding methods. PRO-C 1000/1500 = capacitor discharge (contact and gap method), PRO-I 1300/2200 and PRO-D 1200/1600 = drawn arc and short cycle, KHA-200F = capacitor discharge (gap and contact method), drawn arc and short cycle, KKA-200F = capacitor discharge (contact method)



Bolte GmbH

Flurstraße 25 D-58285 Gevelsberg

Tel.: +49 (0)2332 55106-0 Fax: +49 (0)2332 55106-11

Ohmstraße 3 D-85221 Dachau

Tel.: +49 (0)8131 5159-0 Fax: +49 (0)8131 5159-11

E-Mail: info@bolte.gmbh



www.bolte.gmbh