



BOLTE

SERIE V

CNC STUD WELDING MACHINES



STUD WELDING TECHNOLOGY BY



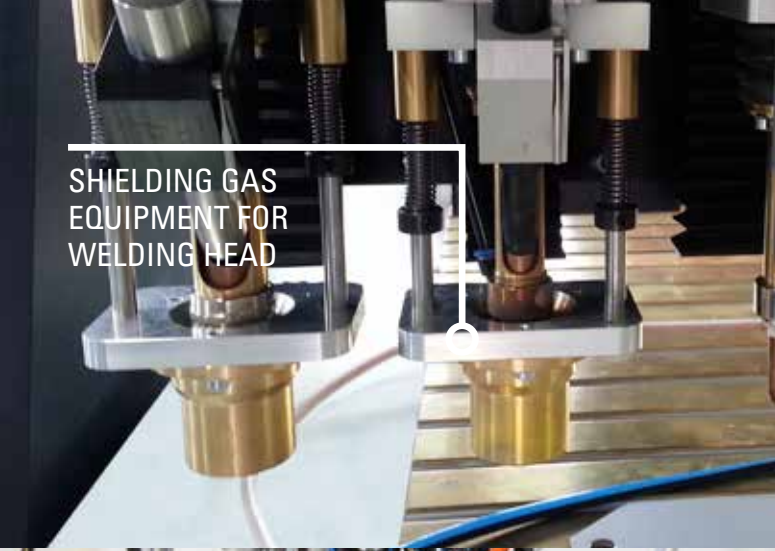
STUD WELDING



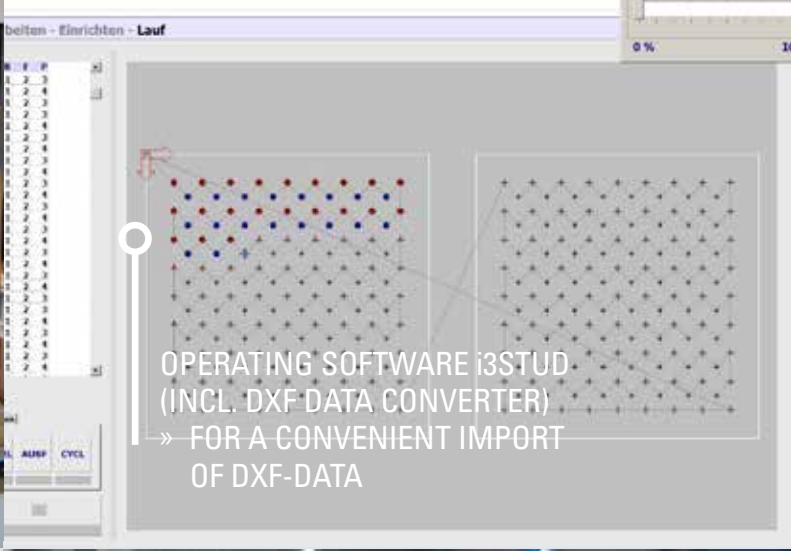
PROGRAMMING NETBOOK WITH OPERATING SOFTWARE i1stud
 » ENABLES PROGRAMMING REGARDLESS OF LOCATION (E.G. BY PRODUCTION PLANNING/CONSTRUCTION)



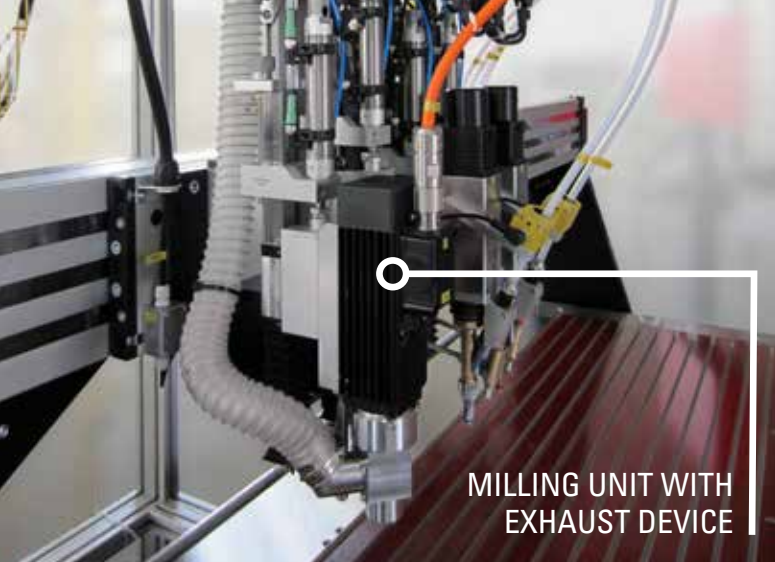
OPTIONAL:
 OPERATING TERMINAL WITH INDUSTRIAL PANEL PC WITH OPERATING SOFTWARE i3STUD



SHIELDING GAS EQUIPMENT FOR WELDING HEAD



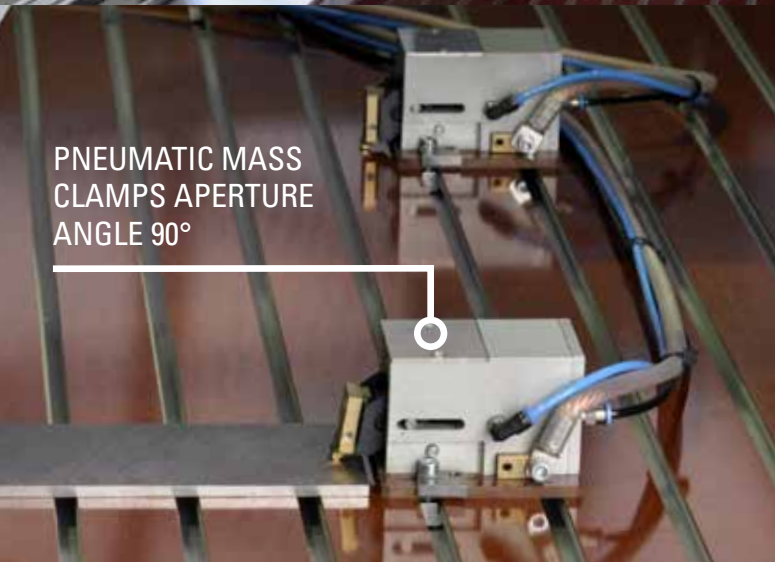
OPERATING SOFTWARE i3STUD (INCL. DXF DATA CONVERTER)
 » FOR A CONVENIENT IMPORT OF DXF-DATA



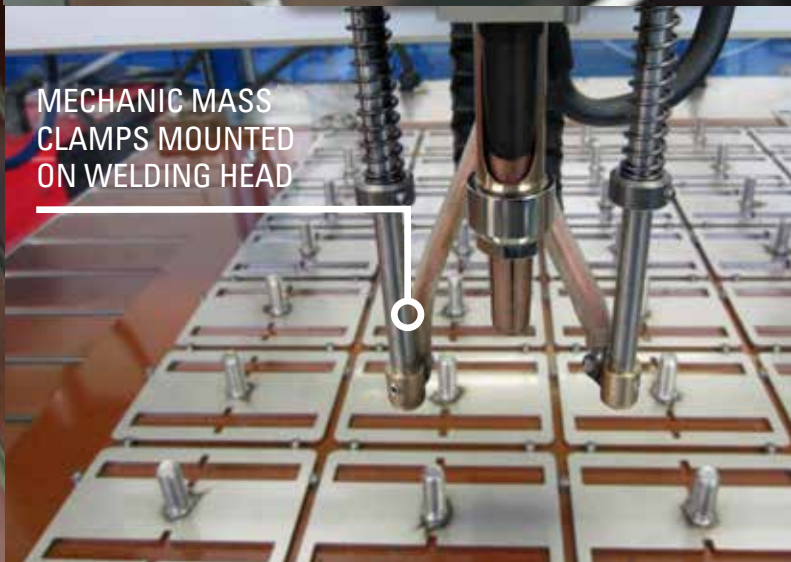
MILLING UNIT WITH EXHAUST DEVICE



MANUAL STUD INSERTION



PNEUMATIC MASS CLAMPS APERTURE ANGLE 90°



MECHANIC MASS CLAMPS MOUNTED ON WELDING HEAD

HIGH-QUALITY
POSITIONING SYSTEM

LIGHT CURTAIN OR SAFETY FENCE
ACC. TO MACHINERY DIRECTIVE

OPERATING TERMINAL WITH
INDUSTRIAL PANEL PC WITH
OPERATING SOFTWARE i3STUD
(INCL. DXF DATA CONVERTER)

WORKING AREA X/Y (MM):
1000 X 2000
OR 1250 X 2500
OR 1500 X 3000

ROBUST AND WARP
RESISTANT WELDED
STEEL MACHINE FRAME

SUITABLE FOR ALL
STUD WELDING METHODS

PNEUMATIC
WORKING LIFT

OPTIONAL:
FLUID SPRAYING DEVICE FOR
AUTOMATIC STUD WELDING HEAD

INTEGRATED WELDING PARAMETER
MONITORING (OPTIONAL: WELDING
PARAMETER MEMORY)

TECHNICAL DATA AND CHARACTERISTICS

	VN	VM	VG
Working area X/Y (mm)¹⁾ [can be reached by each welding head]	1000 x 2000	1250 x 2500	1500 x 3000
Welding range²⁾	Ø 3-8 mm	Ø 3-8 mm	Ø 3-8 mm
Max. number of stud welding heads	4	4	4
Max. operating speed X-/Y-axis (m/min)	30	30	30
Positioning accuracy of the welded studs +/- (mm)	0,2	0,2	0,2
Operation and programming			
Operating terminal, programming netbook with operating software i1stud	x	x	x
Operating terminal with industrial panel PC with operating software i3stud (incl. DXF data converter)	o	o	o
Welding parameter monitoring³⁾			
Welding parameter monitoring	x	x	x
Welding parameter memory with USB-interface for data transmission to a PC	o	o	o
Automatic stud feeding	x	x	x
Options			
Servo motor-driven Z-axis 300 mm	o	o	o
Fluid spraying device for every welding head	o	o	o
Milling unit with exhaust device ⁴⁾	o	o	o
Pneumatic single stud feeding, manual stud insertion	o	o	o
Stud switch	o	o	o
Pneumatic mass clamps standard	o	o	o
Pneumatic mass clamps aperture angle 90°	o	o	o
Mechanic mass clamps on welding head	o	o	o
Pneumatic mass clamps on welding head	o	o	o
Workpiece downholder for every welding head	o	o	o
Shielding gas equipment for every welding head	o	o	o
Multidirectional balls table	o	o	o
Protection devices			
Light curtain	o	o	o
Safety fence	o	o	o
Motor technology/drive			
Servo motors	x	x	x

	VN	VM	VG
Pneumatic working lift/welding head (mm) (mechanic adjusting range 50 mm)	80	80	80
Machine frame			
Welded steel construction	x	x	x
Suitable stud welding units⁵⁾			
PRO-C 1000	x	x	x
PRO-C 1500	x	x	x
PRO-I 1300	x	x	x
PRO-I 2200	x	x	x
PRO-D 1200	x	x	x
PRO-D 1600	x	x	x
Suitable automatic stud welding heads⁵⁾			
KHA-200F with integrated travel measuring system	x	x	x
KKA-200F	x	x	x
Dimensions			
Width (mm)	2080	2330	2580
Depth (mm)	3040	4040	4540
Height (mm)	2360	2360	2360
Weight (kg)	1700	1900	2100
Connection values			
electrical (mains supply, mains fuse external)	400 V/50 Hz, 16A	400 V/50 Hz, 16A	400 V/50 Hz, 16A
pneumatical	≥ 6 bar unoiled, dry, clean	≥ 6 bar unoiled, dry, clean	≥ 6 bar unoiled, dry, clean

x – Standard, o – Option

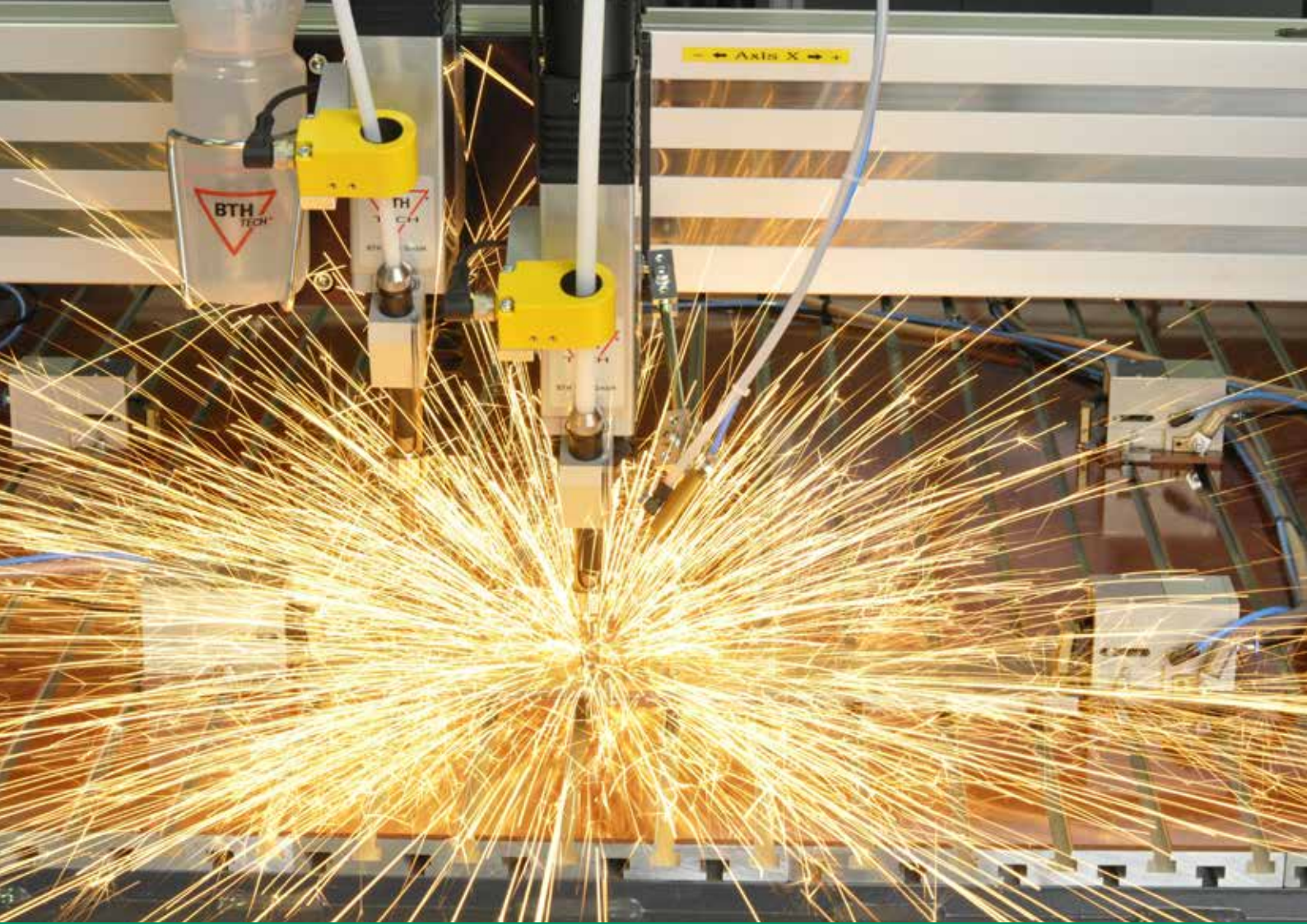
¹⁾ Other dimensions on request as special production.

²⁾ Other diameters as well as special welding elements on request as special production.

³⁾ By stud welding units PRO-C/PRO-I/PRO-D. For further details see product data sheets **PRO-C**, **PRO-I** and **PRO-D**.

⁴⁾ The machine concept is designed for four working stations. If a milling unit is used at the most three stud welding heads can be mounted.

⁵⁾ 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)



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