



F 4050

CNC STUD WELDING MACHINE



STUD WELDING TECHNOLOGY BY



STUD WELDING



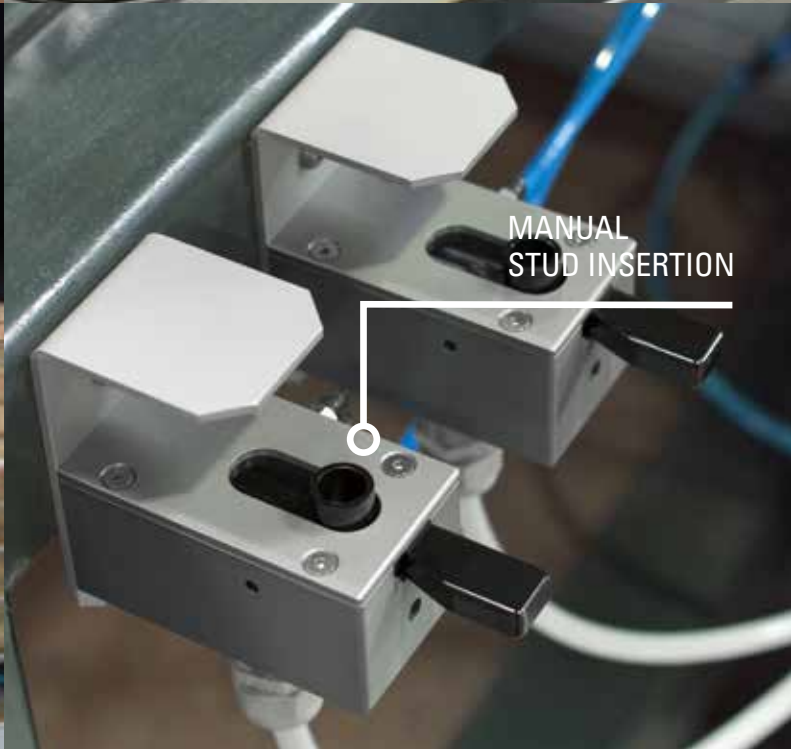
OPTIONAL:
FLUID SPRAYING
DEVICE FOR AUTOMATIC
STUD WELDING HEAD



INTEGRATED WELDING
PARAMETER MONITORING
(OPTIONAL: WELDING PARAMETER MEMORY)



SHIELDING GAS
EQUIPMENT FOR
AUTOMATIC STUD
WELDING HEAD



MANUAL
STUD INSERTION



PNEUMATIC MASS
CLAMPS APERTURE
ANGLE 90°



MECHANIC MASS
CLAMPS MOUNTED
ON WELDING HEAD

HOUSING WITH LIGHT CURTAIN OR DOOR

COMPACT AND INTELLIGENT DRIVE ENGINEERING

OPTIONAL: SIDE SHELF FOR AUTOMATIC STUD FEEDER VBZ

CERAMIC STOP PINS ON THE X- AND Y-ZERO LINE

WORKING AREA X/Y (MM): 400 X 500

COMPACT MACHINE WITH INTEGRATED ELECTRICAL CABINET

ROBUST AND WARP RESISTANT WELDED STEEL MACHINE FRAME

SUITABLE FOR ALL STUD WELDING METHODS

PNEUMATIC WORKING LIFT

AUTOMATIC STUD WELDING HEAD

FAST AND EASY PROGRAMMING BY OPERATING SOFTWARE PRO-STUD (INCL. DXF DATA CONVERTER)

TECHNICAL DATA AND CHARACTERISTICS

	F 4050
Working area X/Y (mm)	400 x 500
Welding range¹⁾ stud diameter (mm)	3-12
Max. number of stud welding heads	1
Max. operating speed X-/Y-axis (m/min)	6
Repeat positioning accuracy of the welded studs +/- (mm)	0,2
Operation and programming	
Operating software PRO-STUD (incl. DXF data converter)	x
PC with Windows 10, 17" monitor (optional as touchscreen), keyboard and mouse with ergonomic mounting	x
Keypad at the front of the machine	x
Welding parameter monitoring²⁾	
Welding parameter monitoring	x
Welding parameter memory with USB-interface for data transmission to a PC	0
Automatic stud feeding	x
Options	
Fluid spraying device for welding head	0
Pneumatic single stud feeding, manual stud insertion	0
Stud switch	0
Pneumatic mass clamps standard	0
Pneumatic mass clamps aperture angle 90°	0
Mechanic mass clamps on welding head	0
Pneumatic mass clamps on welding head	0
Workpiece downholder for welding head	0
Shielding gas equipment for welding head	0
Side shelf for automatic stud feeder VBZ	0
Protection devices	
Housing with light curtain	x
Housing with door ³⁾	0
Motor technology/drive	
Step motors with encoder	x

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Pneumatic working lift/welding head (mm) <small>(mechanic adjusting range 50 mm)</small>	80
Machine frame Welded steel construction	x
Ceramic stop pins on the X- and Y-zero line	x
Suitable stud welding units⁴⁾	
PRO-C 1000	x
PRO-C 1500	x
PRO-I 1300	x
PRO-I 2200	x
PRO-D 1600	x
Suitable automatic stud welding heads⁴⁾	
KHA-200F <small>with integrated travel measuring system</small>	x
KKA-200F	x
Dimensions	
Width (mm)	870
Depth (mm)	1070
Height (mm)	2000
Weight (kg)	250
Connection values	
electrical <small>(mains supply, mains fuse external)</small>	230 V/50 Hz, 16A
pneumatical	≥ 6 bar <small>unoiled, dry, clean</small>

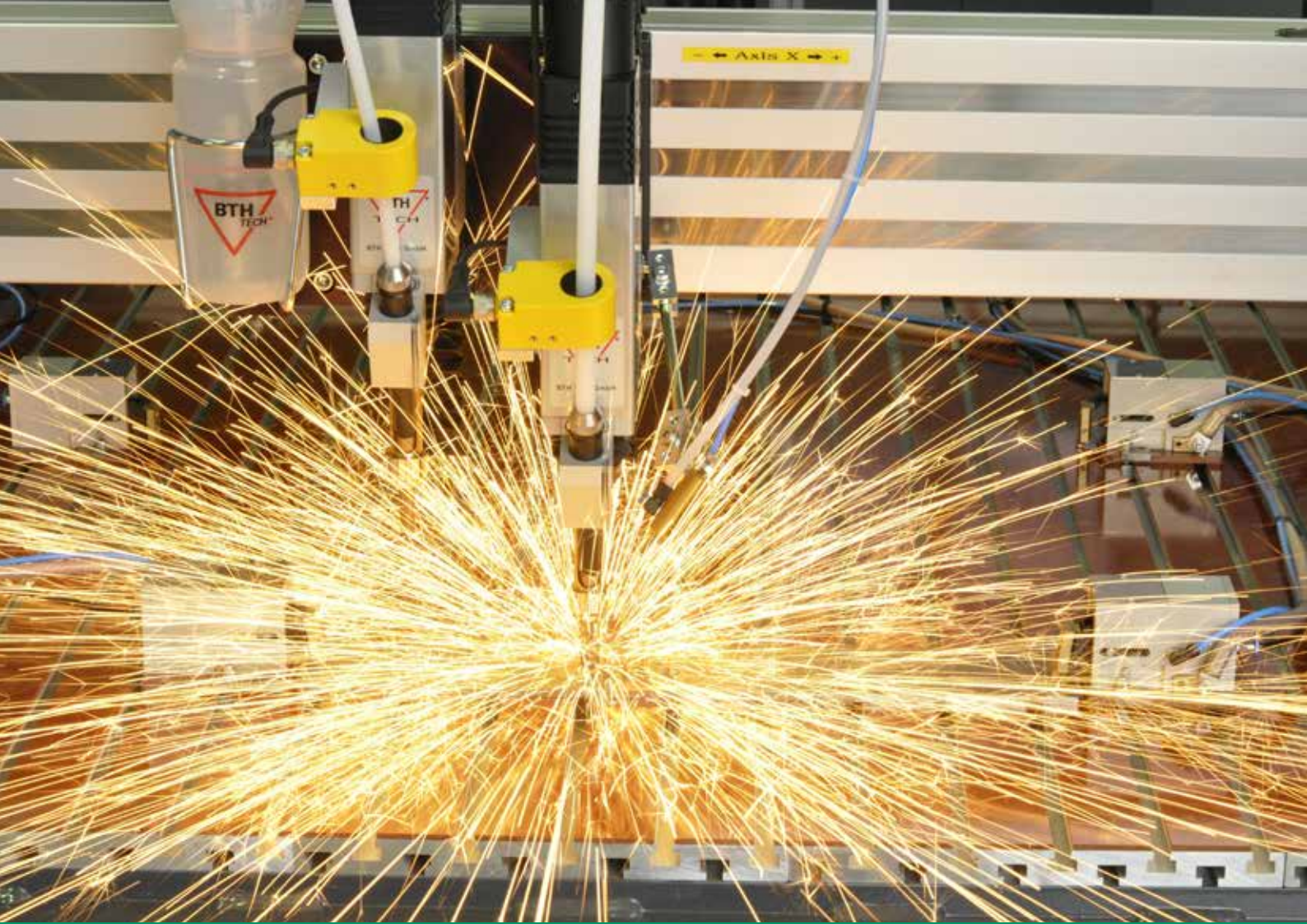
x – Standard, o – Option

¹⁾ Other diameters as well as special welding elements on request as special production.

²⁾ By stud welding units PRO-C/PRO-I/PRO-D. For further details see product data sheets **PRO-C**, **PRO-I** and **PRO-D**.

³⁾ Design as sliding door. Optional: Housing with closed top as sound insulation housing.

⁴⁾ The machine is suitable for all stud welding methods. PRO-C 1000/1500 = capacitor discharge (contact and gap method), PRO-I 1300/2200, PRO-D 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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