



BOLTE

F 4050

CNC STUD WELDING MACHINE



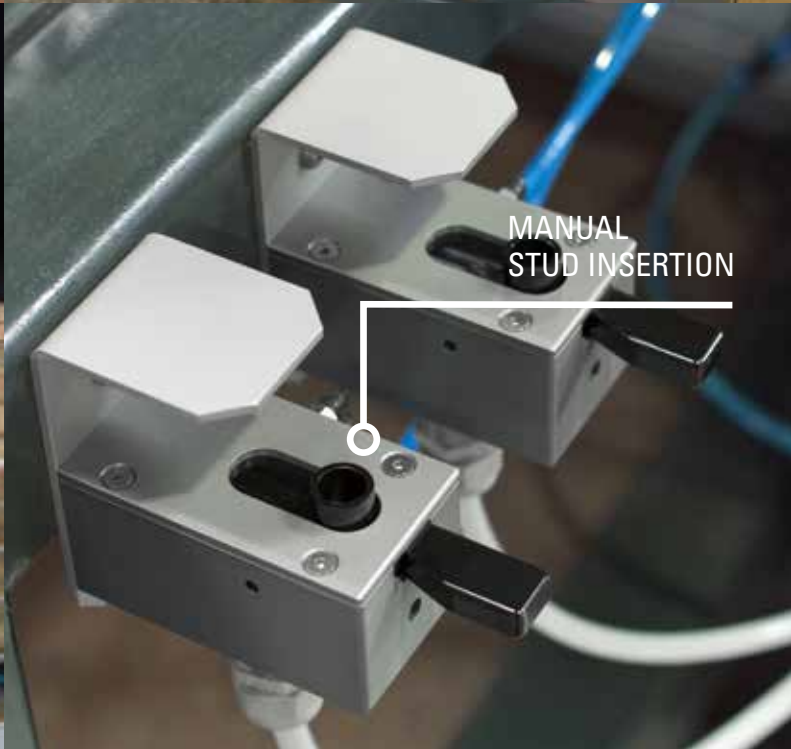
FLUID SPRAYING
DEVICE FOR AUTOMATIC
STUD WELDING HEAD



INTEGRATED WELDING
PARAMETER MONITORING
(OPTIONAL: WELDING PARAMETER MEMORY)



SHIELDING GAS
EQUIPMENT FOR
AUTOMATIC STUD
WELDING HEAD



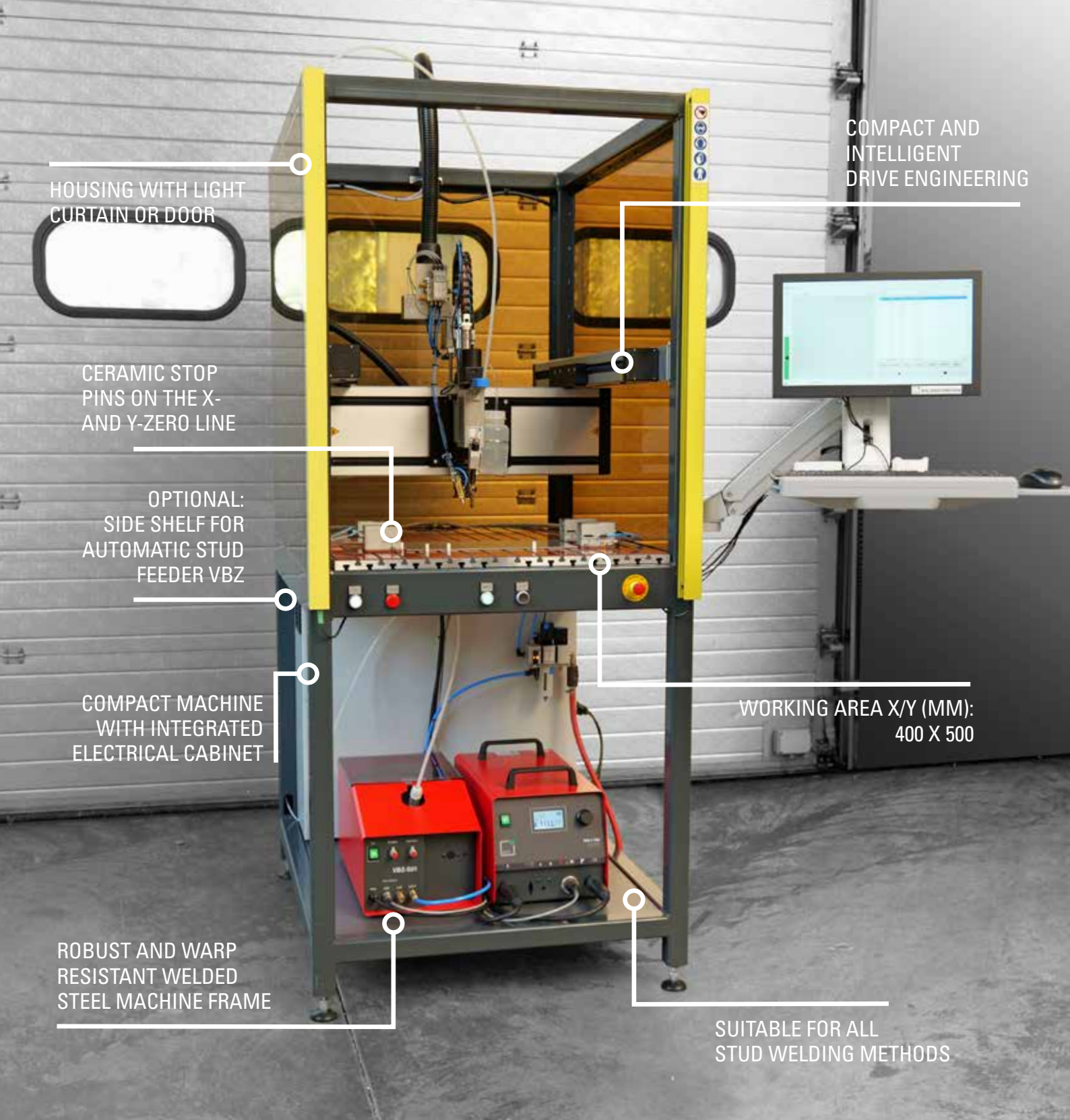
MANUAL
STUD INSERTION



PNEUMATIC MASS
CLAMPS APERTURE
ANGLE 90°



MECHANIC MASS
CLAMPS MOUNTED
ON WELDING HEAD



HOUSING WITH LIGHT CURTAIN OR DOOR

COMPACT AND INTELLIGENT DRIVE ENGINEERING

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

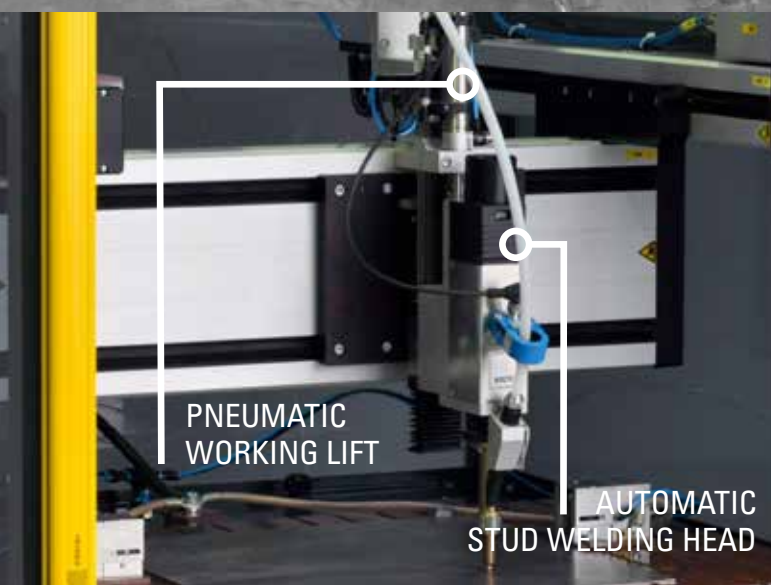
OPTIONAL: SIDE SHELF FOR AUTOMATIC STUD FEEDER VBZ

COMPACT MACHINE WITH INTEGRATED ELECTRICAL CABINET

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

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

	F 4050
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>

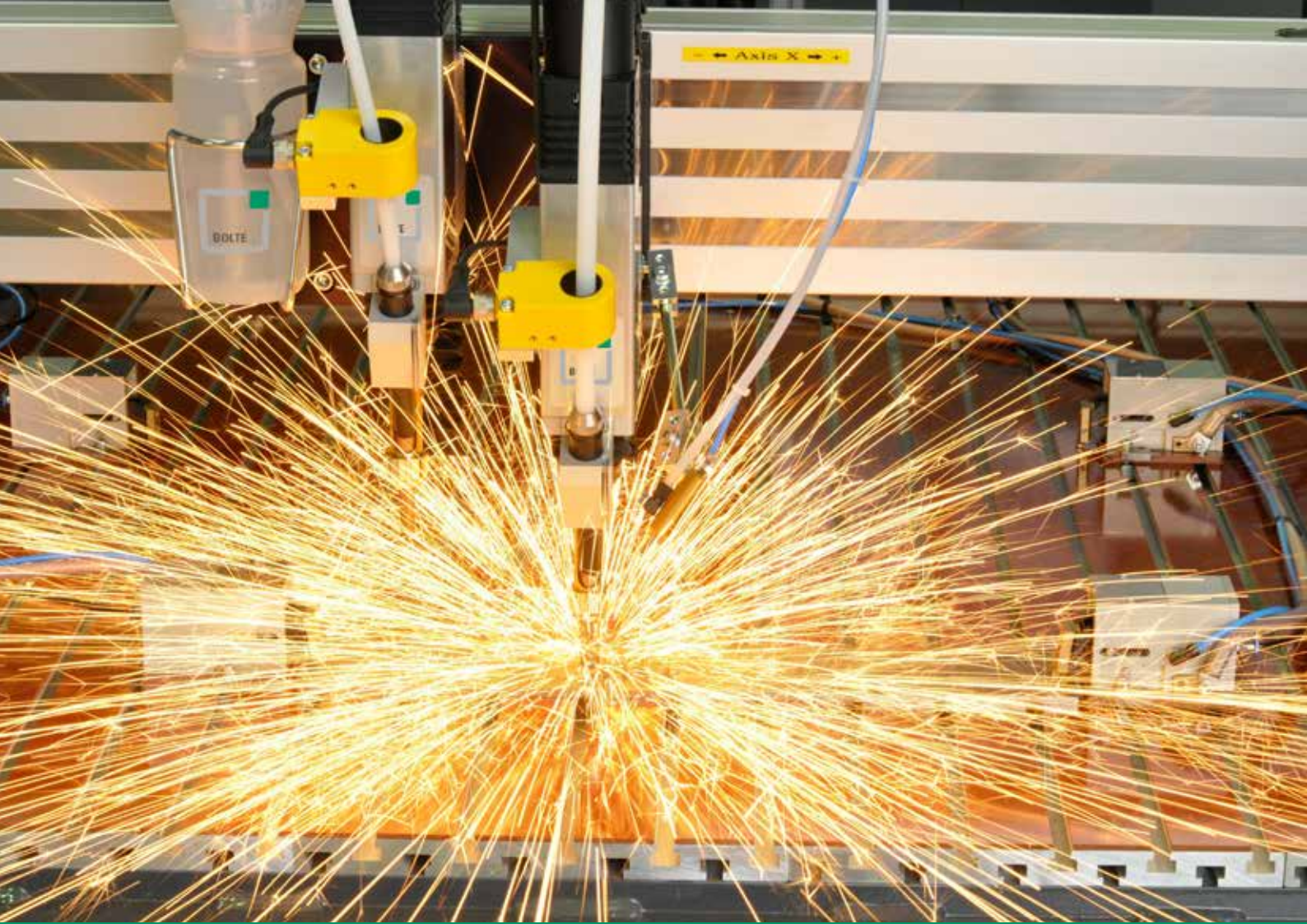
x – Standard, o – Option

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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