



Series T

- working area X/Y (mm): 1000 x 700, 1250 x 850 or 1500 x 1000
- max. number of stud welding heads: 4
- fast and easy operation by separate control desk
- programming netbook with operating software i1stud
 - -> enables programming regardless of location (e.g. by production planning/construction)
- optional: control by operating terminal with industrial panel PC and operating software i3stud (incl. DXF data converter)
- integrated welding parameter monitoring (optional: welding parameter memory)
- · optional protection devices: housing with door or light curtain, light curtain, safety fence
- drive through dynamic servo motors
- robust and warp resistant welded steel machine frame
- suitable for all stud welding methods
- numerous options: servo motor-driven Z-axis, fluid spraying devices for welding heads, milling unit with exhaust device etc.





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- Technical data and characteristics -

	TN	ТМ	TG
Working area X/Y (mm) ¹⁾ [can be reached by each welding head]	1000 700	1250 850	1500 1000
Welding range ²⁾			
Stud diameter (Ø)	3-8	3-8	3-8
Stud length (mm)	6-50	6-50	6-50
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			
Control deskProgramming netbookSoftware i1stud	х	x	x
Operating terminal with industrial panel PCSoftware i3stud (incl. DXF data converter)	o	o	0
Welding parameter monitoring ³⁾			
Welding parameter monitoring	x	x	x
Welding parameter memory with USB-interface for data transmission to a PC	0	0	0
PRO-xDataLog software for real-time transmission of the welding parameter sets recorded by the stud welding unit to a PC	0	0	0
Automatic stud feeding	X	x	х
Options			
Servo motor-driven Z-axis 250 mm	0	0	0
Fluid spraying device for each welding head	0	0	0
Milling unit with exhaust device ⁴⁾	0	0	О
Pneumatic single stud feeding, manual stud insertion	0	0	0
Stud switch	0	0	0
Pneumatic mass clamps standard	О	0	0
Pneumatic mass clamps aperture angle 90°	О	0	0
Mechanic mass clamps mounted on welding head	О	О	О
Pneumatic mass clamps mounted on welding head	О	О	О
Workpiece downholder for each welding head	0	О	О
Shielding gas module for each welding head	0	0	o
Protection devices			
Housing with door ⁵⁾	О	О	o
Housing with light curtain	О	О	О
Light curtain	0	0	O
Safety fence	О	О	o
Motor technology/drive			
Servo motors	x	х	x



- Technical data and characteristics -

	TN	TM	TG
Pneumatic working lift/welding head (mm) (mechanic adjusting range 40 mm)	80	80	80
Machine frame			
Welded steel construction	Х	х	х
Suitable stud welding units ⁶⁾			
PRO-C 1000	х	x	x
PRO-C 1500	х	x	x
PRO-I 1300	х	x	x
PRO-I 2200	х	x	x
PRO-D 1200	х	x	x
PRO-D 1600	x	x	x
Suitable automatic stud welding heads ⁶⁾			
KHA-200F with integrated travel measuring system	x	х	x
KKA-200F	х	x	x
Dimensions			
Width (mm)	2830	3080	3030
Depth (mm)	1525	1675	1825
Height (mm)	2160	2160	2160
Weight (kg)	1100	1300	1500
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 upon request as special production.

²⁾Other diameters and lengths as well as special welding elements upon request as special production.

³⁾By stud welding units PRO-C/PRO-I/PRO-D. For further details see product data sheet **stud welding units - capacitor discharge stud welding, inverter stud welding units - drawn arc stud welding and stud welding units - drawn arc stud welding as well as product data sheet welding parameter memory PRO-x and PRO-xDataLog**.

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

⁶⁾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)



- Examples for options and accessories -



servo motor-driven Z-axis



pneumatic single stud feeding through manual insertion



pneumatic mass clamp aperture angle 90°



operating terminal with industrial panel PC and software i3stud (with DXF data converter)



pneumatic mass clamp standard



fluid spraying devices for automatic stud welding heads



pneumatic working lifts AHP-080



grounding by pneumatic mass clamps mounted on welding head