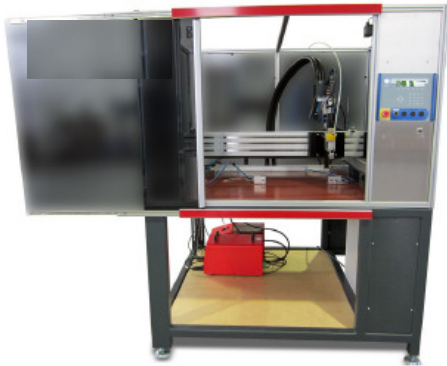




## CNC STUD WELDING MACHINE SERIES Z,T,V

CNC STUD WELDING MACHINE  
SERIES Z,T,V  
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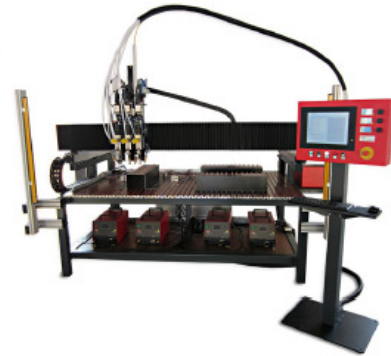


### Series Z

- working area X/Y (mm): 650 x 650 or 800 x 800
- max. number of stud welding heads: 3
- fast and easy operation and programming by control integrated in the frame and operating software i1stud
- optional: control by operating terminal with industrial panel PC and operating software i3stud (inkl. DXF data converter)
- integrated welding parameter monitoring (optional: welding parameter memory)
- housing with door or light curtain
- 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.

### 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 and programming by control desk and operating software i1stud
- optional: control by operating terminal with industrial panel PC and operating software i3stud (inkl. 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.



### Series V

- working area X/Y (mm): 1000 x 2000, 1250 x 2500 or 1500 x 3000
- max. number of stud welding heads: 4
- fast and easy operation and programming by control desk and operating software i1stud
- optional: control by operating terminal with industrial panel PC and operating software i3stud (inkl. DXF data converter)
- integrated welding parameter monitoring (optional: welding parameter memory)
- optional protection devices: 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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**CNC stud welding machines - series Z, T, V**  
**- Technical data and characteristics -**

	ZM	ZG	TN	TM	TG	VN	VM	VG
<b>Working area X/Y (mm)<sup>1)</sup></b> [can be reached by each welding head]	650 650	800 800	1000 700	1250 850	1500 1000	1000 2000	1250 2500	1500 3000
<b>Welding range<sup>2)</sup></b>								
Stud diameter (Ø)	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Stud length (mm)	6-50	6-50	6-50	6-50	6-50	6-50	6-50	6-50
<b>Max. number of stud welding heads</b>	3	3	4	4	4	4	4	4
<b>Max. operating speed X-/Y-axis (m/min)</b>	12	12	30	30	30	30	30	30
<b>Positioning accuracy of the welded studs +/- (mm)</b>	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
<b>Operation and programming</b>								
- software i1stud - compact control Xemo R integrated in the frame	X	X	-	-	-	-	-	-
- software i1stud - control desk - compact control Xemo B	-	-	X	X	X	X	X	X
- software i3stud (incl. DXF data converter) - operating terminal with industrial panel PC - control Xemo M	0	0	0	0	0	0	0	0
<b>Welding parameter monitoring<sup>3)</sup></b>								
Welding parameter monitoring	X	X	X	X	X	X	X	X
Welding parameter memory with USB-interface for data transmission to a PC	0	0	0	0	0	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	0	0	0	0	0
<b>Automatic stud feeding</b>	X	X	X	X	X	X	X	X
<b>Options</b>								
Servo motor-driven Z-axis 250 mm	0	0	0	0	0	-	-	-
Servo motor-driven Z-axis 300 mm	-	-	-	-	-	0	0	0
Fluid spraying device for each welding head	0	0	0	0	0	0	0	0
Milling unit with exhaust device <sup>4)</sup>	0	0	0	0	0	0	0	0
Pneumatic single stud feeding, manual stud insertion	0	0	0	0	0	0	0	0
Stud switch	0	0	0	0	0	0	0	0
Pneumatic mass clamps standard	0	0	0	0	0	0	0	0
Pneumatic mass clamps aperture angle 90°	0	0	0	0	0	0	0	0
Mechanic mass clamps mounted on welding head	0	0	0	0	0	0	0	0
Pneumatic mass clamps mounted on welding	0	0	0	0	0	0	0	0
Workpiece downholder for each welding head	0	0	0	0	0	0	0	0
Shielding gas module for each welding head	0	0	0	0	0	0	0	0
Multidirectional balls table	-	-	-	-	-	0	0	0



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**CNC stud welding machines - series Z, T, V**

**- Technical data and characteristics -**

	ZM	ZG	TN	TM	TG	VN	VM	VG
<b>Protection devices</b>								
Housing with door <sup>5)</sup>	X	X	O	O	O	-	-	-
Housing with light curtain	O	O	O	O	O	-	-	-
Light curtain	-	-	O	O	O	O	O	O
Safety fence	-	-	O	O	O	O	O	O
<b>Motor technology/drive</b>								
Servo motors	X	X	X	X	X	X	X	X
<b>Pneumatic working lift/welding head (mm)</b> (mechanic adjusting range 40 mm)	80	80	80	80	80	80	80	80
<b>Machine frame</b>								
Welded steel construction	X	X	X	X	X	X	X	X
<b>Suitable stud welding units<sup>6)</sup></b>								
PRO-C 1000	X	X	X	X	X	X	X	X
PRO-C 1500	X	X	X	X	X	X	X	X
PRO-D 1200	X	X	X	X	X	X	X	X
PRO-D 1600	X	X	X	X	X	X	X	X
<b>Suitable automatic stud welding heads<sup>6)</sup></b>								
KHA-200F with integrated travel measuring system	X	X	X	X	X	X	X	X
KKA-200F	X	X	X	X	X	X	X	X
<b>Dimensions</b>								
Width (mm)	1550	1700	2830	3080	3030	2080	2330	2580
Depth (mm)	1430	1580	1525	1675	1825	3040	4040	4540
Height (mm)	2000	2000	2160	2160	2160	2360	2360	2360
Weight (kg)	600	800	1100	1300	1500	1700	1900	2100
<b>Connection values</b>								
electrical (mains supply, mains fuse external)	230 V/ 50 Hz, 16A	230 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A	400 V/ 50 Hz, 16A
pneumatical	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean	≥ 6 bar unooled, dry, clean

x - Standard, o - Option

<sup>1)</sup>Other dimensions upon request as special production.

<sup>2)</sup>Other diameters and lengths as well as special welding elements upon request as special production.

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

<sup>4)</sup>The machine concept is designed for four working stations (series Z: three working stations). If a milling unit is used at the most three stud welding heads (series Z: two working stations) can be mounted.

<sup>5)</sup>Design as sliding, folding or lift door (if required also pneumatically). Optional: housing with closed top as sound insulation housing.

<sup>6)</sup>The machines are suitable for all stud welding methods. PRO-C 1000/1500 = capacitor discharge (contact and gap method), 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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CNC stud welding machines - series Z, T, V  
- Examples for options and accessories -



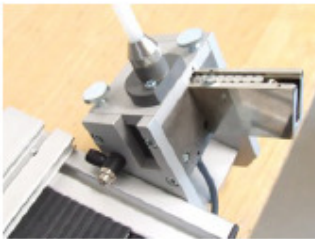
servo motor-driven Z-axis



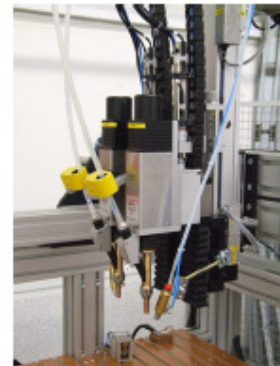
operating terminal with  
industrial panel PC and  
software i3stud (with  
DXF data converter)



fluid spraying devices  
for automatic stud welding heads



pneumatic single stud feeding  
through manual insertion



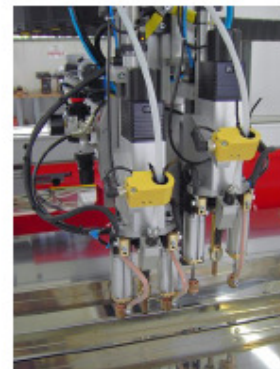
pneumatic working lifts  
AHP-080



pneumatic mass clamp  
aperture angle 90°



multidirectional balls table



grounding by pneumatic  
mass clamps mounted on  
welding head



pneumatic mass clamp standard