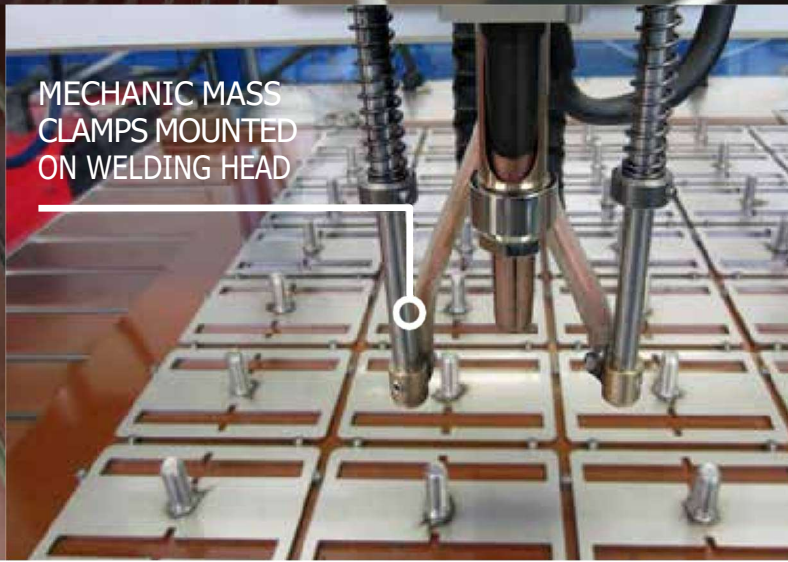
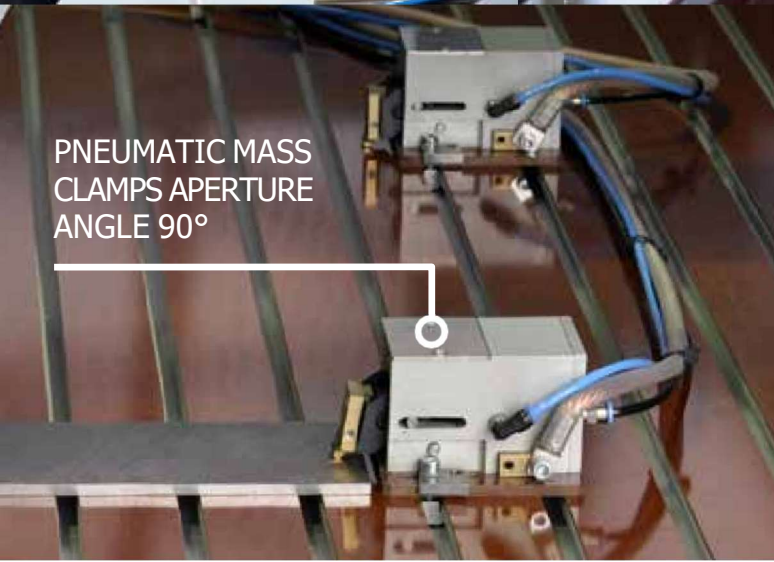
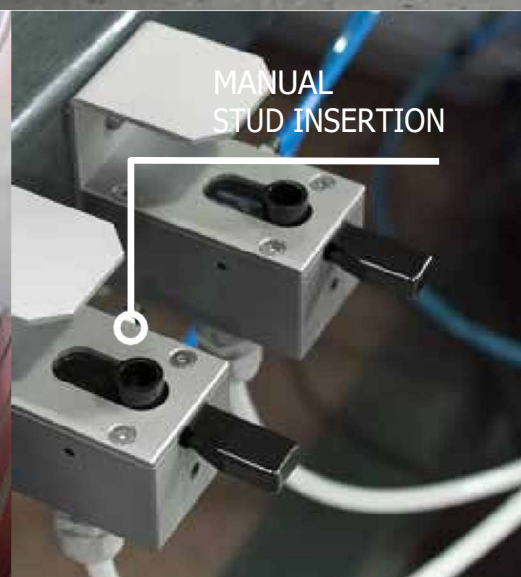




# SERIES V

CNC STUD WELDING MACHINES

**STUD WELDING**



SERVO MOTOR-DRIVEN  
Z-AXIS 250 MM

HIGH-QUALITY  
POSITIONING SYSTEM

WORKING AREA X/Y (MM):  
1000 X 1500  
OR 1000 X 2250  
OR 1500 X 3000

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

SUITABLE FOR ALL  
STUD WELDING METHODS

ROBUST AND WARP  
RESISTANT WELDED  
STEEL MACHINE FRAME

LIGHT CURTAIN OR  
SAFETY FENCE ACC. TO  
MACHINERY DIRECTIVE

PNEUMATIC  
WORKING LIFT

AUTOMATIC  
STUD WELDING HEAD

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

## TECHNICAL DATA AND CHARACTERISTICS

|                                                                                                                                              | V 100150    | V 100225    | V 150300    |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|
| <b>Working area X/Y (mm)<sup>1)</sup></b><br>can be reached by each welding head                                                             | 1000 x 1500 | 1000 x 2250 | 1500 x 3000 |
| <b>Welding range<sup>2)</sup></b><br>stud diameter (mm)                                                                                      | 3-12        | 3-12        | 3-12        |
| <b>Max. number of stud welding heads</b>                                                                                                     | 4           | 4           | 4           |
| <b>Max. operating speed X-/Y-axis (m/min)</b>                                                                                                | 30          | 30          | 30          |
| <b>Repeat positioning accuracy of the welded studs +/- (mm)</b>                                                                              | 0,2         | 0,2         | 0,2         |
| <b>Operation and programming</b><br>PC with Windows 10, 17" monitor (optional as touchscreen),<br>keyboard and mouse with operating terminal | x           | x           | x           |
| <b>Welding parameter monitoring<sup>3)</sup></b><br>Welding parameter monitoring                                                             | x           | x           | x           |
| Welding parameter memory<br>with USB-interface for data transmission to a PC                                                                 | o           | o           | o           |
| <b>Automatic stud feeding</b>                                                                                                                | x           | x           | x           |
| <b>Options</b><br>Servo motor-driven Z-axis 250 mm                                                                                           | o           | o           | o           |
| Fluid spraying device for every welding head                                                                                                 | o           | o           | o           |
| Milling unit with exhaust device <sup>4)</sup>                                                                                               | 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           |
| Pneumatic stop pins                                                                                                                          | o           | o           | o           |
| Shielding gas equipment for every welding head                                                                                               | o           | o           | o           |
| Multidirectional balls table                                                                                                                 | o           | o           | o           |
| <b>Protection devices</b><br>Light curtain                                                                                                   | o           | o           | o           |
| Safety fence                                                                                                                                 | o           | o           | o           |
| <b>Motor technology/drive</b><br>Servo motors                                                                                                | x           | x           | x           |

|                                                                                   | V 100150                       | V 100225                       | V 150300                       |
|-----------------------------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Pneumatic working lift/welding head (mm)</b><br>mechanic adjusting range 50 mm | 80                             | 80                             | 80                             |
| <b>Machine frame</b><br>Welded steel construction                                 | x                              | x                              | x                              |
| <b>Ceramic stop pins on the X- and Y-zero line</b>                                | x                              | x                              | x                              |
| <b>Suitable stud welding units<sup>5)</sup></b>                                   |                                |                                |                                |
| 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 1600                                                                        | x                              | x                              | x                              |
| <b>Suitable automatic stud welding heads<sup>5)</sup></b>                         |                                |                                |                                |
| KHA-200F<br>with integrated travel measuring system                               | x                              | x                              | x                              |
| KKA-200F                                                                          | x                              | x                              | x                              |
| <b>Dimensions</b>                                                                 |                                |                                |                                |
| Width (mm)                                                                        | 2000                           | 2000                           | 2500                           |
| Depth (mm)                                                                        | 2500                           | 3250                           | 4000                           |
| Height (mm)                                                                       | 2360                           | 2360                           | 2360                           |
| Weight (kg)                                                                       | 1700                           | 1900                           | 2100                           |
| <b>Connection values</b>                                                          |                                |                                |                                |
| electrical<br>(mains supply, mains fuse external)                                 | 400 V/50 Hz, 16A               | 400 V/50 Hz, 16A               | 400 V/50 Hz, 16A               |
| pneumatical                                                                       | ≥ 6 bar<br>unoiled, dry, clean | ≥ 6 bar<br>unoiled, dry, clean | ≥ 6 bar<br>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, 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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