

TKM 120/055

TKM 120/105

TKM 120/155

CNC-Portal-Studwelding-Machine

- Highest degree of automation
- Very high productivity
- Up to three welding heads
- Motor driven Z-axis
- Short cycle times
- Large working range
- Fully automatic welding sequence program
- Optimum quality welds
- Flexible connectors for groundclamps
- Free zero point
- Chuck quick change system
- Equipped with precision welding head KAH 412



Figure TKM 120/105

Technical Data:	TKM 120/055	TKM 120/105	TKM 120/155
Working range (max):	X-/Y-axis 1140 x 550 mm (44.9" x 21.7")	X-/Y-axis 1140 x 1050 mm (44.9" x 41.3")	X-/Y-axis 1140 x 1550 mm (44.9" x 61.0")
Stud dia.:	3 to 8 mm (#4 to 5/16") (dia. 10, 12, 12,7 mm (7/16", 1/2", 0.5") with special equipment)		
Stud length:	8 to 40 mm (5/16" to 1.57") (other lengths upon request)		
Welding capacity:	approx. 15 to 25 studs/min., (depending on power unit, size and position of stud)		
Positioning (accuracy) of welded studs:	± 0,2 mm (± .0079")		
Stud feeding:	Automatic stud feeding by VBZ		
Welding head:	KAH412		
Max. number of welding heads:	3 (up to 5 stud lengths possible per head)		
Work stroke of the welding head:	Z = 80 mm (3.15")		
Manual height adjustment:	Z = 45 mm (1.77")		
Motor driven Z-axis:	Z = 125 mm (4.92")		
Dimensions:	1600 x 2100 x 2230 mm (63" x 82.68" x 87.8") (with and without cover)	2200 x 2100 x 2230 mm (86.6" x 82.68" x 87.8") (with and without cover)	2790 x 2100 x 2230 mm (109.8" x 82.68" x 87.8") (with and without cover)
Height:	2912 mm (114.65") (with cover, front pane open)		
Connections electrical:	400V, 16A, 50Hz (alternative input voltages available)		
Connections pneumatic:	6 bar min./10 bar max./inner hose dia. 6 mm (1/4")		
Connections for power unit:	CDM1600AT, CDM2400AT, CDM3200AT, ARC 500*, ARC 800*		

* on ARC Gas versions a modification is required

Superior PC-Control MS 1000

- Exclusively developed by HBS for stud welding processes
- Free add-on capability by modular construction based on Can-Bus technology
- Very short change-over time
- Integrated welding sequence control
- Quick fault analysis
- Quick and easy programming
- Industry-PC controlled
- More than 200 programs can be stored (depending on available working memory of the PC and free space on hard disk)

Options:

- Work piece fixtures
- Machine protection covering
- Customer-specific handling systems optionally
- Pneumatic clamps
- Single stud feeding equipment PBZ

