SMX 5189



(3x) 2-Spindle Horizontal Machining Center

This machine was designed for the machining of HGV brake calipers with a clamping system. Various work piece varieties can be machined on the same clamping device since the clamping points are identically arranged for all work piece varieties.

For complex machining the machine was equipped with a swivel bridge (A-axis), which is driven by \emptyset 500 mm torque-motors on both sides. Two \emptyset 500 mm torque-motor driven swiveling tables (B-axis) are installed on the swivel bridge. All rotary axes are equipped with hydraulic clamping units.

The two work units can travel totally independent allowing adjustment options for tool lengths and tool diameters in all three axes. This machine is also equipped with a 80-slot pick-up tool magazine. This magazine is capable of holding a number of large drill- and milling heads.

Technical Details

Traverse path

X-axes Y-axes (tool change) Z-axes

Feed rates

max. speed max. acceleration max. feed force

Work unit

max. capacity S1 / S6 max. torque S1 / S6 max. speed spindle distance

Swivel axes

diameter A-axes / no. diameter B-axes / no.

Tool magazine

tool slots tool holder tool changing rate

Dimensions / Other

space assignment total weight floor-to-floor time 500 mm 500 (925) mm 500 mm

40 m/min 4 m/sec² 10000 N

50 / 75 kW 256 / 386 Nm 7500 rpm 800 mm

Ø500 mm (1x) Ø500 mm (2x)

80 HSK-A100 8 sec

6 x 5.2 x 4.5 m 34000 kg 133 sec





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