

(4x) Horizontal 2-Spindle-Turn-Mill-Machining Center

This machine is specially designed for the machining of print cylinders (max. Ø 800 mm; max. 2000 mm long). Machining comprises turn-milling of the lateral area, channel-milling and drilling. The outstanding features of the machine are high precision, high thermal stability and excellent damping characteristics.

The heavy HSK 160-main-spindle-unit (150 kW) is mainly used for turn-milling and channel-milling. This unit is equipped with a 14-slot disc-magazine. The dynamic HSK 100-ram unit (50 kW) is mainly used for drilling. This unit is equipped with a 40-slot oval-magazine. Each tool change is carried out by means of a twin-gripper.

The centering- and clamping units (X1- and X2-axes) are travelling separately during load- and unload-operation. During machining, the X-axes are electronically coupled. The rotary axes (A1 and A2) are driven both-sided and are also electronically coupled.

Technical Details

Traverse path

X1 / X2-axis	2710 / 2670 mm
Y-axis	800 mm
Z1 / Z2-axis	1050 / 500 mm
U1 / U2-axis (tool change)	1150 / 900 mm

Feed rates

max. speed (Z2)	30 (40) m/min
max. acceleration (Z2)	2.5 (6) m/sec ²
max. feed force (Z2)	20 (12) kN

Main drive 1

max. power S1	150 kW
nominal torque 1 / 2	6000 / 2295 Nm
max. speed	1600 rpm

Main drive 2

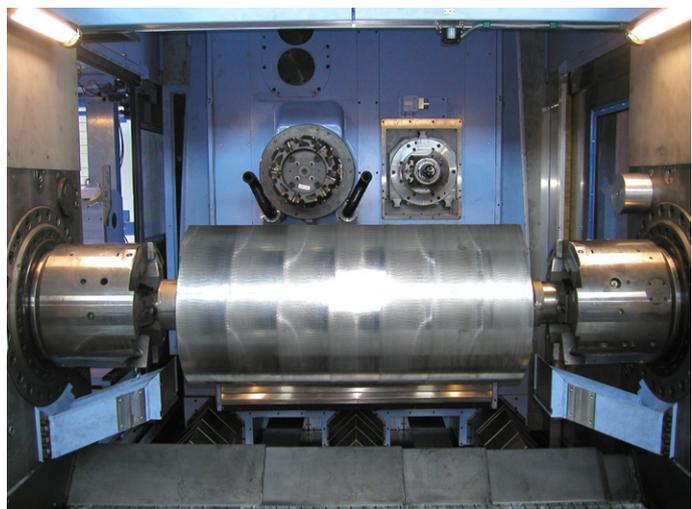
max. power S1	50 kW
nominal torque	300 Nm
max. speed	7260 rpm

Rotary axes

max. torque	9000 Nm
max. speed	20 rpm
clamping range	52-220 mm
max. workpiece weight	1500 kg

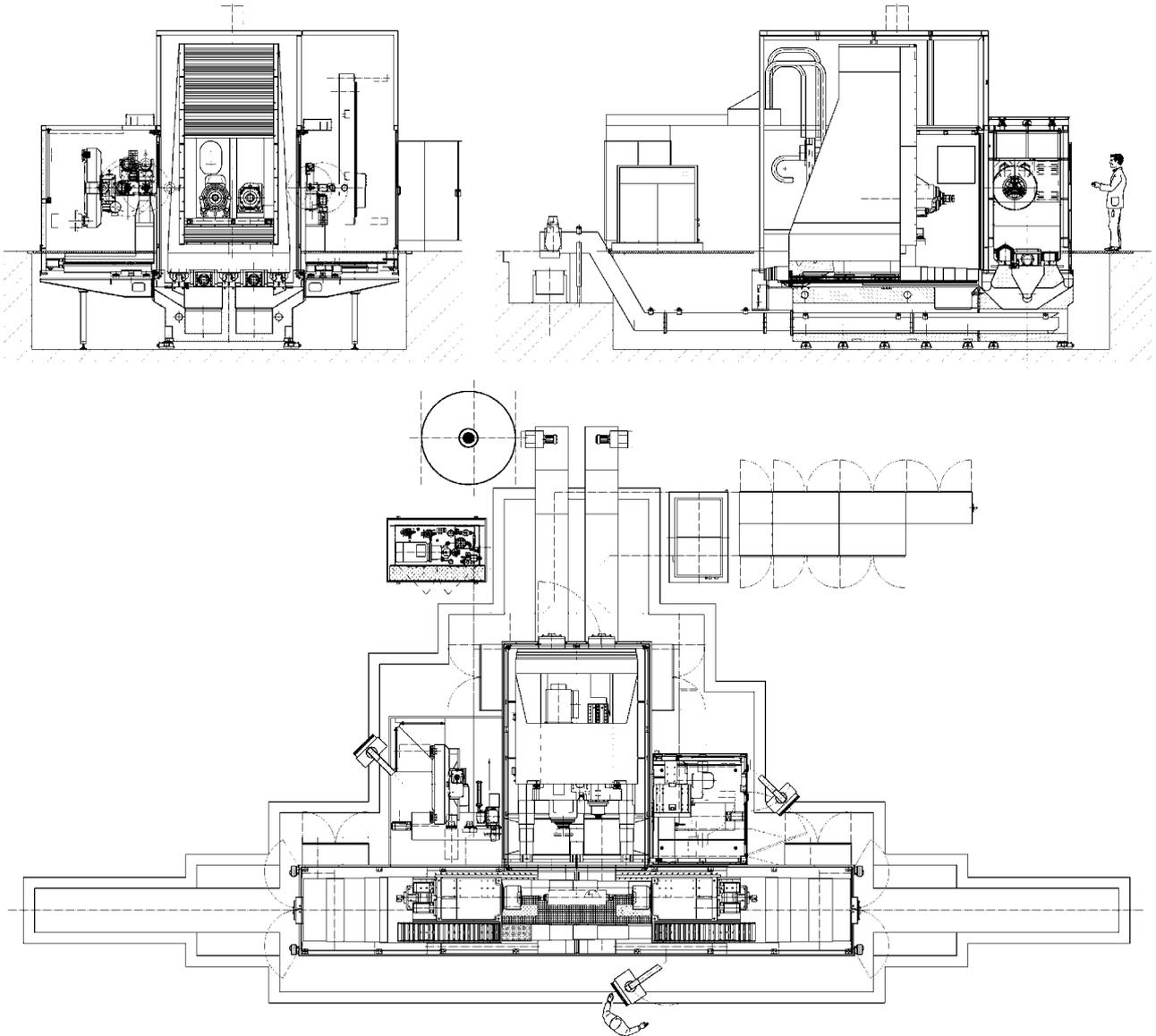
Dimensions

space assignment	12.1x10.3x6.2 m
total weight	130000 kg



ELHA 5111 (5112, 5113, 5116)

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