



CNC Special Machines

Technical Data PM 270 Standard

Details	
Controller	Siemens 840 D with integrated PC in the mobile control panel or BWO 920, mobile control panel
Routing Spindle	HSK F 63, water cooled, 12 kW, available from 6,000 rpm, infinitely variable speed regulation from 1,000 up to 24,000 rpm
Working Unit	Universal routing with Z-stroke 800 mm, A 540°, B +/- 98° A/B arranged at an angle of 50°.
Extraction	Dust and chip collection basket, adjustable in height via CNC, central connection dia. 300
Axis drives	X-axis toothed rack Y-axis toothed rack, Gantry drive Z-axis recirculating ball screw
Machine table with Y = 6,000	10 supporting bars with mechanic clips
Clamping station	for alternating operation with Y = 6,000 mm 2 stations, each fitted with: 1 vacuum control circuit, 3 control circuits (pneumatic circuits pressure controlled)
Protection device	accompanying cabin with safety bumpers
Working envelope in 3-axis operation	
Conditions:	Dia. 160 mm, total length 160 mm X= 1,350 mm, Y = 6,000 mm, Z = 420 mm
Working envelope in 5-axis operation	
Conditions:	Dia. 160 mm, total length 160 mm, X= 1,350 mm, Y = 5,600 mm, Z = 420 mm
Travel speeds	X = 45 m/min, Y= 45 m/min, Z = 24 m/min, A/B = 10,000°/min
Tool changer:	Chain-type tool magazine with 12 tool places (standard) or 16, 24, 32 tool places, dia. 160 mm, total length 160 mm (dia. 90 mm with magazine with 24 or 32 tool places). Tool weight max. 6 kg
Max. values:	saw blade with max. dia. 350 mm, pick-up tool place for saw blade 450 mm dia.
Installation details	
Machine weight:	approx. 8,500 kg
Required space:	with usable length 6.000: 5,700 x 12,000 (width x length) incl. operation and safety space, height 3,600 without laser



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PM 270



5-axis Universal CNC Centre
for the Machining of Wood,
Wood-Based Material, Plastics
and Composites

Subject to technical alterations. 04/2005/3004/pdf

PM 270

5-axis Universal CNC Centre

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Fields of application

The 5-axis universal machining centre **PM 270** in Gantry design was specially designed for the machining of wood and wood-based materials wherever the production of one-offs and small batches is commonplace, e.g. for interior finishing, shop-fitting, designer furniture, stair-building and the manufacturing of doors.

The machine's outstanding feature is its Z-stroke of 800 mm, allowing precision work for lengths up to 6,000 mm.

Users profit from a well-proven 5-axis technology guaranteeing unrestricted manoeuvrability of the working unit for three-dimensional machining and from a top price-performance ratio.

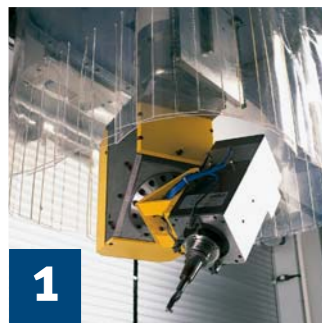
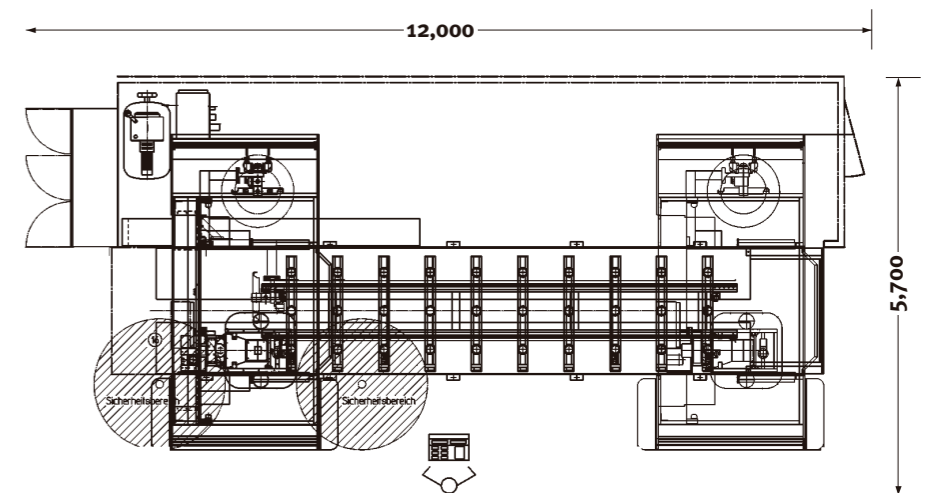
In addition to high acceleration speeds and machine accuracy, field-proven mechanic and electronic components guarantee both, high processing accuracy and a long life, thus standing for the efficiency of the **PM 270 series**.

Required space

with usable length of 6,000 mm:
5,700 x 12,000 x 3,600 mm (w x l x h)

Machine weight

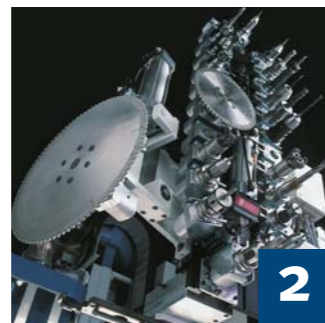
with usable length of 6,000 mm:
approx. 8,500 kg



1

Routing unit

As standard spindle we use to quote HSK-F 63.
Other spindles are optionally available



2

Tool changer

Chain-type tool changing magazine with 12, 16, 24, 32 tool places



3

Machine table

10 supporting bars with mechanical clips



CNC controller

Mobile operating panel
Siemens 840 D
or BWO 920



4

Extraction

Dust and chip collecting basket adjustable in height via CNC