

### TECHNICAL DATA FLOOR TYPE BORING AND MILLING MACHINE

manufacturer PAMA

type SPEEDRAM 2

built **2002** 

control SIEMENS SINUMERIK 840C



### Working area

X-Axis, lateral movement column	11.000	mm
Y-Axis, vertical movement spindle unit	2.800	mm
Z-Axis, longitudinal movement RAM	900	mm
W-Axis, movement quill	800	mm

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Machining unit		
In hydrostatic design		
Cross section RAM	360 x 400	mm
RAM movement (Z-axis)	900	mm
spindle diameter	150	mm
Spindle movement (W-axis)	800	mm
Spindle taper (short taper acc. to DIN 69871)	ISO 50	
Spindle power S1 (100%)	60	kW
Max. torque at spindle	2.900	Nm At 195 rpm
spindle speed range	6 - 3.000	rpm 2 gearsteps
max. feed	15.000	mm/min
Floor plates		
floor plates area (2 pc.)	4.000 x 2.500	mm Thickness 300 mm
max. workpiece load	15.000	kg/m²
Food and anced vance		
Feed and speed range Max. feed range for X- Axis	20.000	mm/min
Max. feed force for X- and Y-Axis	30.000	N
Max. feed range for Y- and Z-Axis	15.000	mm/min
Max. feed force for Z-Axis	25.000	N
Rapid traverse for X-Axis	20.000	mm/min
Rapid traverse for Y- and Z-Axis	15.000	mm/min
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#### **Design features**

#### X-axis

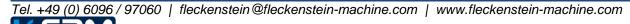
Slide for column with hydrostatic guideways on low-friction guideway plates. Drive system with Servomotor, Duplex-Pinions and Gear Rack. The pinions are pretensioned hydraulically for zero axial play.

#### Spindle unit

The high-precision RAM, made of meehanite cast iron in a rectangular shape, slides on hydrostatic wedge bars machined directly into the head unit. Inside the RAM runs - axially on bronze bearings - the boring quill. It is supported by front and rear angular contact ball bearings in high precision design.

#### **Tool magazine**

Type Chain magazine
Number of tools 90



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#### Data for electrical installation

Operating voltage 3~ 400/230 V
Frequency 50 Hz
Power requirement 195 kVA
Total power consumption 125 kW

#### Space requirement and weight

Total footprint ca. 16 x 7,7 x 5,5 m

Total weight ca. 50 to.

Total power consumption 125 kW

#### **Accessories**

Chip conveyor between floor plates and X-bed

Operator platform moving vertically

Tool magazine with manipulator, 90 positions

Tool breakage and wear monitoring (ARTIS)

Pick-up station for speed milling head

Axial milling head MG4, SK50, 13kW, i = 1:4, M\_max = 405Nm, U\_max = 8,000 rpm