



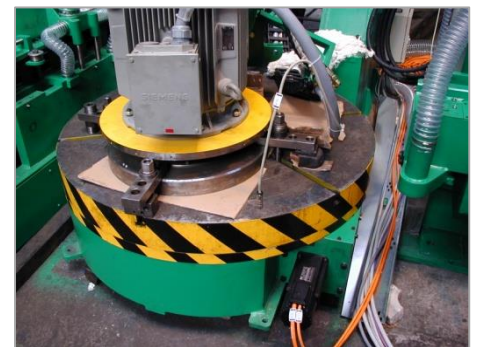
## **GRINDING MACHINE B 600 - numeric controlled dry grinding of refractory materials**



We offer you **manufacturing and delivery of Grinding Machine B 600**. Strojírny a stavby Třinec develops **Numeric Controlled Dry Grinding Machine** for refractory materials, stones and similar materials. The diamond segmental face grinding wheel with easy replacement are applied of refractory materials as magnesite, chromiummagnesite, dolomite, corundum without water cooling. The Dry Grinding Machine B 600 is completed with: **grinding machine, transfer feed table, turntable, slot milling machine and powerful exhaust plant**, which helps to overcome dustiness caused with grinding.

Advantages:

- saving technologic and work-time – no water cooling
- (without additional cost for drying bricks)
- exhaustion directly at grinding and milling location
- accuracy of work ( $\sim 0,1$  mm)
- adjustment of size (grinding wheel cambers:  $0 - 30^\circ$ )
- size variety of refractory bricks (side leather straps are independently reguladable on)
- flute cutting opportunity of outer perimeter refractory bricks (together)
- alternative of grinding and milling at the same machine
- adjustability (digital vertical trackpoint, electrohydraulic)
- control of horizontal motion, speed – frequency converter)
- optimum rigidity
- environment – low noisiness and dustiness
- pushbutton control with control system SIEMENS S7



All utilized material, technology and means of production used in Strojírny Třinec are carefully chosen to minimise the negative impact according to the environment on the International Standart ISO 14001:2004. Grinding machine connects on successful tradition of development and producing **Circular Saw M 800** which is suitable for **dry cutting** of refractory materials without water cooling.

Technical parameters are open for modify depending on wishes of customer.



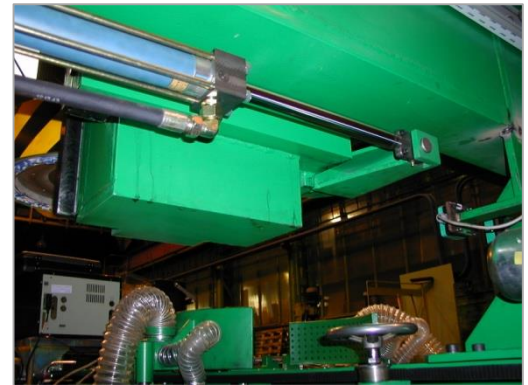
**GRINDING MACHINE B 600 – GRINDING OF REFRACTORY MATERIALS**



Reference: ZM Ropczyce S.A., Poland

**Technical data**

Total weight	11800 kg
Dimension	4653 x 4451 x 3302 mm
Dimension of grounded refractory bricks	500 x 275 x 100 mm
Grinding accuracy	0,1 mm
Max. diameter of abrasive wheel	768 mm
Abrasive wheel speed	800 ÷ 1100 ot.min <sup>-1</sup>
Grinding machine drive - electromotor	30 kW, 978 min <sup>-1</sup>



Abrasive wheel motions	
Vertical motion	0 ÷ 1000 mm, speed - 0,01 m.s <sup>-1</sup> digital vertical trackpoint
Horizontal motion	0 ÷ 1100 mm, speed – 0,01 m.s <sup>-1</sup>
Hydraulic tilting	0 ÷ 30°, speed – 0,01 m.s <sup>-1</sup>
Hydraulic control	REXROTH
Max. input	8,6 kW
Operating pressure	10 ÷ 14 MPa
Slot milling machine	
Electric drive	Electric gearbox C 202 12.4 P90
Diameter of slot milling machine	200 mm
Operating spindle revolutions	20 ÷ 48 min <sup>-1</sup>
Max. milling width	20 mm
Max. milling depth	15 mm
Feed of milling machine	3 mm/per speed

Transfer feed table	
Drive of belt - electromotor	0,75 kW, 3,5 min <sup>-1</sup>
Belt speed	1 ÷ 4 m.min <sup>-1</sup>
Operating belt width	170 ÷ 500 mm
Drive of V-belts - electromotor	0,18 kW, 3,7 min <sup>-1</sup> , 400V
Positioning of V-belts	0 ÷ 130 mm
Turntable	
Max. dimension	1300 mm
Turntable drive	AC servomotor MKD 071B-081
Operating speed	0,03 ÷ 2 min <sup>-1</sup>
Exhaust plant	
Power output	3 kW, 400 V
Exhaust capacity	7900 m <sup>3</sup> .h <sup>-1</sup>
Total capacity of waste backs	1320 dm <sup>3</sup>
Exhaust speed	about 24 m.s <sup>-1</sup>