FLECKENSTEIN Werkzeugmaschinen

TECHNICAL DATASHEET

Universal cylindrical grinding machine for heavy workpieces

Manufacturer	DANOBAT
Туре	R3-4000-S5
built Retrofit	2001 2024
Control	SINUMERIK 840 D



The photo shows the machine during retrofit

Working area					
Max. Peak widht	4.000	mm			
Max. Workpiece Ø	850	mm			
Peak height	525	mm			
Max. Workpiece weight. between centres with steady rests	5.000	kg			
Feeds & travels					
Feeds & travels Feed rate Z-axis	0,01 – 6.000	mm/min			
	0,01 – 6.000 0,01 – 6.000				
Feed rate Z-axis	,				

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Technical datasheet	DANOBAT, R3-4000-S5,		built/retrofit 2001/2024				
Grinding wheel							
Max. dimension	Ø1.060x60x304,8	mm					
Grinding wheel speed	1.100	min-1					
Peripheral speed	45	m/sec					
Power	22	kW	52 kW (60% ED)				
Tailstock							
Taper	MK 6						
Pinole way	100	mm					
Pinole-Ø	115	Mm					
Workpiece spindle							
Taper	MK 6						
Speed range workpiece	10 - 120	min-1					
Torque drive motor	41,5	Nm					
Machine dimensions							
Space requirement I x b x h	ca13,1 x 6,3 x 2	,9 m					
Machine weight	25.5	500 kg					
Equipment & Accessories							
CNC cylindrical grinding machine in most robust design for heavy workpieces							
 Scope of retrofit: Slideways of X- and Z-axis regrinded, intermediate table and top table regrinded Centre height of headstock and tailstock readjusted Machine checked from the bottom up and rebuilt Cabling in the machine renewed Hydraulic tubes and lines renewed Ball screws of X- and Z-axis renewed New bellows Wearing parts replaced New machine painting in two-layer-structure with oil-resistant and abrasion-resistant two-component paints, color RAL 7035 light gray and RAL 5007 brilliant blue CNC Control SINUMERIK 840 D 							

- New balancing of the grinding wheel
- 2 pc. Grinding wheels Ø 1.000 x 60 x 304,8 mm
- 2 pc. Support bearing
- front-end dog + 1 pc. travelling tailstock tip
- Coolant unit with belt filter
- Full enclosure of the workspace with 2 large sliding doors
- Extraction unit for emulsion mist

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