

Machine construction

- 1 Machine bed**
 - ▶ Welded construction, celle design
 - ▶ Thermally relieved and vibration damped
 - ▶ Smooth interior for good cooling water drainage and cleaning
 - ▶ Through-hardened precision guide ways
- 2 Machine table**
 - ▶ Cast-iron or electromagnetic chucks with steplessly variable speeds
 - ▶ One or two axis tilting devices for hollow or face grinding
 - ▶ Automatic workpiece lifting devices
- 3 Grinding head carriage**
 - ▶ Heavy duty cast-iron construction for best load distribution and smooth operation
 - ▶ All-side roll system for horizontal movement
 - ▶ Adjustable, long flat guide ways for vertical movement
- 4 Down feed**
 - ▶ Ballscrew system with hydraulic weight compensation for precise downfeed steps and rapid machine adjustments
- 5 Grinding spindle RH**
 - ▶ High precise bearing arrangement available as friction or roller bearing
 - ▶ Rotating wheel cone with fixed double speed supported axis
- 6 Grinding spindle RV**
 - ▶ Special construction with high precise roller bearings
 - ▶ Hollow motor shaft for coolant water supply
 - ▶ Motor tilting device for hollow or face grinding
- 7 Grinding wheels RH**
 - ▶ Straight wheels with cone flange
 - ▶ Dressing devices
- 8 Grinding tools RV**
 - ▶ Segment heads, ring wheels, cup wheels
 - ▶ Dressing devices
- 9 Coolant water unit**
 - ▶ Strong coolant and cleaning pumps
 - ▶ Large sized coolant tanks
 - ▶ Fully automatic cleaning units
- 10 Machine control**
 - ▶ Free pre-programmable grinding cycles
 - ▶ Cleartext operator guidance
 - ▶ Loop-controlled axis
 - ▶ Steplessly variable speeds
 - ▶ Automatic gauging devices

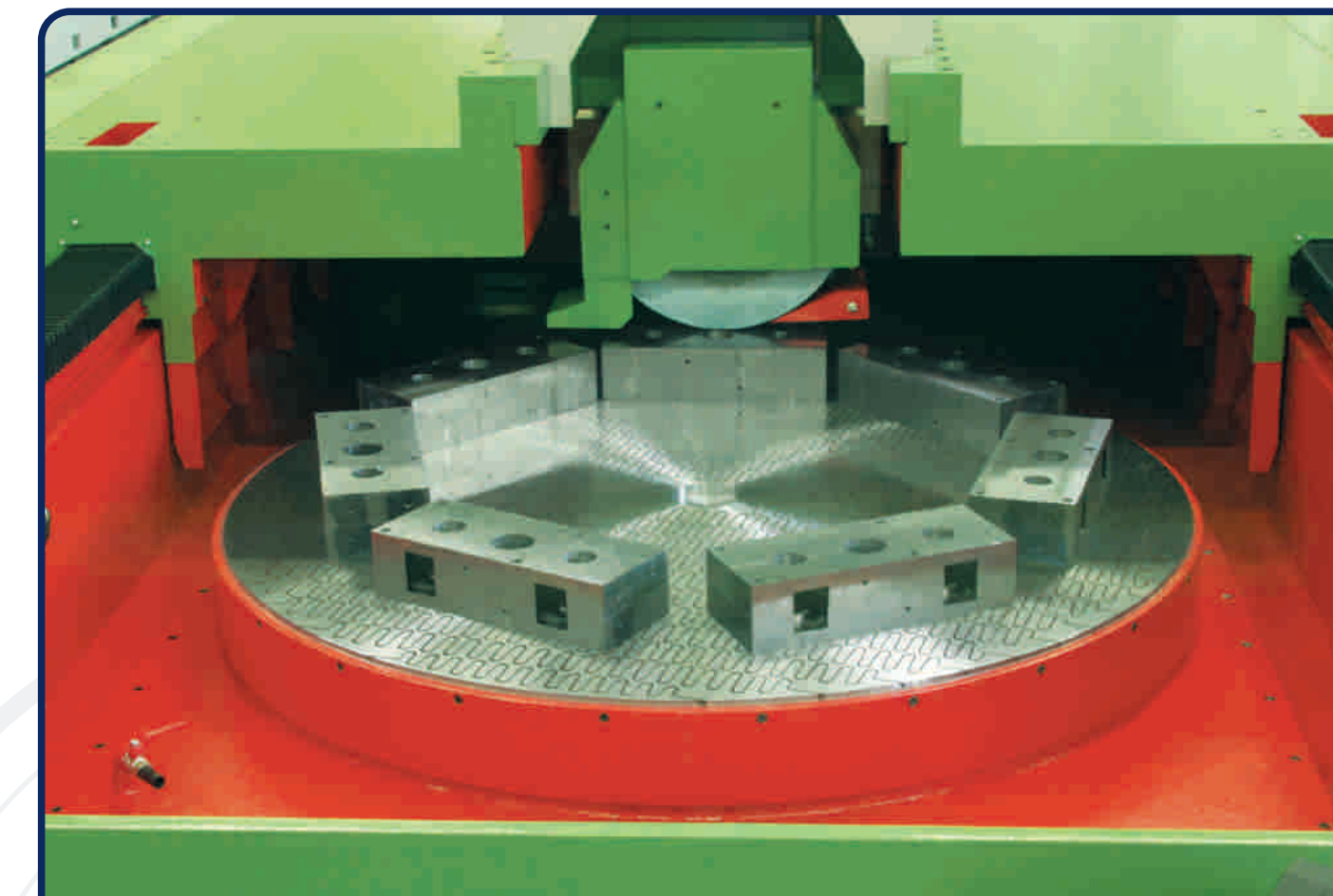
Our further manufacturing program

- ▶ Vertical long-table surface grinders, profile grinders
grinding motor capacity of 2 to 350 kW
grinding lengths of 900 to 15 000 mm
grinding widths up to 1200 mm
- ▶ Horizontal long-table surface grinders, profile grinders
grinding motor capacity 10 to 60 kW
grinding lengths of 900 to 15 000 mm
grinding widths up to 1000 mm
- ▶ Knife grinding machines for straight and circular knives. Tungsten Carbide knives
- ▶ Roll grinding machines
grinding motor capacity 3 to 50 kW
roll diameter up to 1000 mm
roll lengths up to 6000 mm
- ▶ Face (end) grinding machines
grinding motor capacity from 10 bis 50 kW
angles up to 50°
- ▶ Handling systems and robots with and without CNC
are steps of automation to increase output and to be more economic for all machine types.



Göckel

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Precision-Grinding machines
for your production

modern and cost-effective grinding with the Göckel system

Our company has more than 115 years' tradition in mechanical engineering and has specialized in precision grinding machines for decades.

We offer you innovation for your production with our proven Göckel system

		RH 50	RH 60	RH 80	RH 100	RH 130	RH 150	RH 180
Grinding table Ø	mm	500	600	800	1000	1300	1500	1800
Grinding height	mm		250				300	
Grinding capacity	kW	15		22			45-60	
Grinding speed	U/min		1200-2200				1000-2000	
Grinding tool Ø	mm	350		350/500			500/600	
Rapid positioning	mm/min				1000			
Down feed	mm				0,001-0,2			
Table speed	U/min	50-200		20-150			20-100	
Table drive	kW	4		6		7,5	11	
Coolant	l/min	160		240			400	
Grinding accuracy	mm		± 0,002				± 0,005	



RH 60/500

Horizontal rotary-table
Surface grinding machine Type RH
Table ø 500-1800 mm, Capacity 14-60 kW

Vertical rotary-table
Surface grinding machine Type RV
Table ø 500-1800 mm, Capacity 25-185 kW

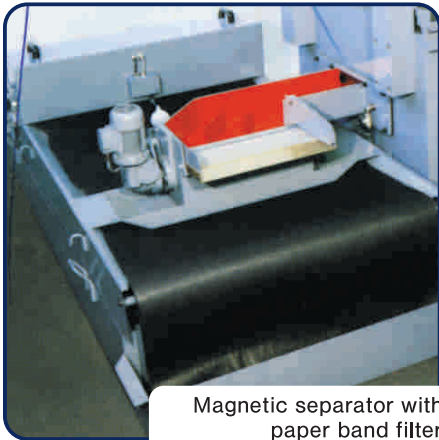


RV 180



RH 180/500

		RV 50	RV 60	RV 80	RV 100	RV 130	RV 150	RV 180
Grinding table Ø	mm	500	600	800	1000	1300	1500	1800
Grinding height	mm		250				300	
Grinding capacity	kW	30		52			90-185	
Grinding speed	U/min	1000		750			600	
Grinding tool Ø	mm	450		500	600	800	1000	
Rapid positioning	mm/min				1000			
Down feed	mm				0,001-0,2			
Table speed	U/min	50-200		20-150			20-100	
Table drive	kW	4		6		7,5	11	
Coolant	l/min	2 x 160		160 + 240			2 x 240	
Grinding accuracy	mm	± 0,005					± 0,01	



Magnetic separator with paper band filter



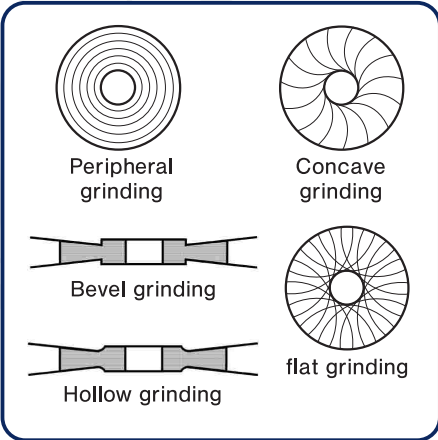
Magnet separator with cyclone



Coolant tank with paperbandfilter



Controldesk



Peripheral grinding

Concave grinding

Bevel grinding

Hollow grinding

flat grinding