Göckel

Precision Grinding Machines

Founded in 1883

Technical data

	required space	clearance	grinding width	table width	grinding motor	grinding tool diameter	traverse drive speeds
	•length = grinding length+A •width •height (mm)	•height •width (mm)	(mm)	•EL •ELD •PL (mm)	kW (PS)	(mm)	•Servo (m/min)
	•A 2300 • 1800 • 2150	•170/200 •450	•400	•200/250 •150 •300	15 - 30 (20 - 40)	•bis 450	•0,02 - 30

grinding tolerance ± 0,005 mm/m

Machine construction

1 ***machine bed***, welding construction in celle design

2 ***guideways***, hardened and ground way bands alternative hardened and ground bolted- on ways

3 ***machine table***, sturdy construction as fixed chuck (PL) or electromagnetic rotating chuck (EL) or electromagnetic-double-chucks (ELD) with adjustment and clamping device

4 ***grinding carriage***, cast iron construction with anti-lift rolls, support guiding with tapered gibs

5 ***downfeed system***, for grinding tool, ballbearing screw and nut system, impulse feed with digital display, rapid positioning

6 ***grindingmotor*** with strong hollow shaft and high precision bearings, tiltable for cross and radial grinding

7 ***grinding tools***, ring wheels, segmental heads, diamond and CBN wheels

8 ***traverse drive***, AC servo drives variable adjustable

9 ***coolant water*** through the hollow motorshaft and from the sides, filtration cleaning

10 ***electric cabinet***, separate installed

All data can be changed based to the individual requirements

different specifications steps to automation

- magnetic quickchange device for grinding wheels
- electronic demag units
- steplessy variable grinding motors
- automatic sizing units with wheel wear compensation
- Program controls for automatic grinding cycles
- Pendolum and creep feed grinding
- NC and CNC-Controls
- multiple chuck arrangements
- special fixturing
- two stationary grinding
- grinding vapour extraction units
- handling systems

Our further manufacturing program

- Vertical long-table surface grinders, profile grinders
  grinding motor capacity of 2 to 350 kW
  grinding lengths of 900 to 15000 mm
  grinding widths up to 2000 mm
- Horizontal long-table surface grinders, profile grinders
  grinding motor capacity of 10 to 60 kW
  grinding lengths of 900 to 15000 mm
  grinding widths up to 2000 mm
- Vertical rotary-table surface grinders
  grinding motor capacity up to 250 kW
  grinding diameter up to 1500 mm
- Horizontal rotary-table surface grinders and circular blade grinding machines
  grinding motor capacity of 0.5 to 50 kW
  grinding diameter up to 1800 mm
- Roll grinding machines
  grinding motor capacity of 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 to 50 kW
  angles up to 50°
- Handling systems and robots with and without CNC are steps of automation to increase output and tobe more economic for all machine types.

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Precision-Grinding Machines G 65

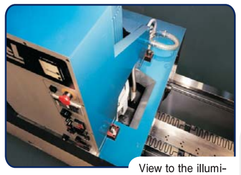
• Surface • Knives • Production

G 65

Modern and cost-effective grinding with the Göckel system

Our company has one hundred 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.

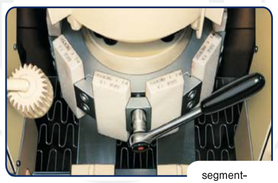


View to the illuminated grinding area

electro magnetic (ELD) double chucks

electro magnetic clamping (EL)

magnetic separator combined with paperbandfilter



segment-change-station

GB 65 / U 65/350 EL

Combined machine with two grinding heads type GB 65 / U 65 EL for segmental and peripheral grinding. 11 axis CNC-controlled. Grinding length 17 000 mm, bedlength 20 m

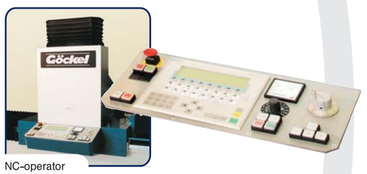
GB 65 EL

Precision grinding machine type GB 65 EL with Marposs in-process ganging as wellas accordeon bellow bed cover.

GB 65 EL with grindingattachment

cup wheel grinding-attachment

peripheral grinding-attachment



NC-operator panel control

G 65 EL

Precision grinding machine with operator panel and controlled down feed Axis