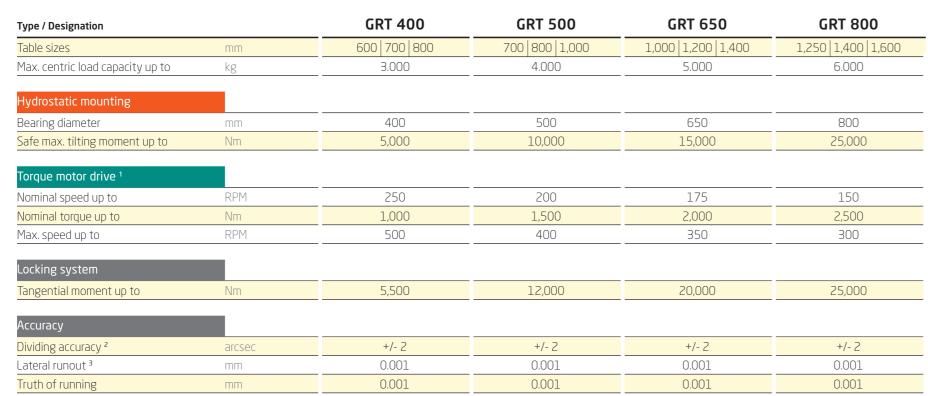
Datasheet

Grind	ing R	otary	Table
Grind	ing ta	able	



Type / Designation		GRT 1000	GRT 1400	GRT 2000	GRT 2800
Table sizes	mm	1,400 1,600 1,800	1,800 2,000 2,200	2,200 2,600 3,000	3,000 3,500 4,000
Max. centric load capacity up to	kg	8,000	10,000	15,000	25,000
Hydrostatic mounting					
Bearing diameter	mm	1,000	1,400	2,000	2,800
Safe max. tilting moment up to	Nm	40,000	70,000	150,000	220,000
Torque motor drive ¹					
Nominal speed up to	RPM	125	100	75	50
Nominal torque up to	Nm	3,500	7,000	10,000	14,000
Max. speed up to	RPM	250	200	150	100
Locking system					
Tangential moment up to	Nm	30,000	40,000	60,000	100,000
Accuracy					
Dividing accuracy ²	arcsec	+/- 2	+/- 2	+/- 2	+/- 2
Lateral runout ³	mm	0.001	0.001	0.001	0.002
Truth of running	mm	0.001	0.002	0.002	0.003



- 2 Depending on the measuring system
- 3 Referred to the bearing diameter

Further information and customized modifications on request.

Technical data are subject to change.



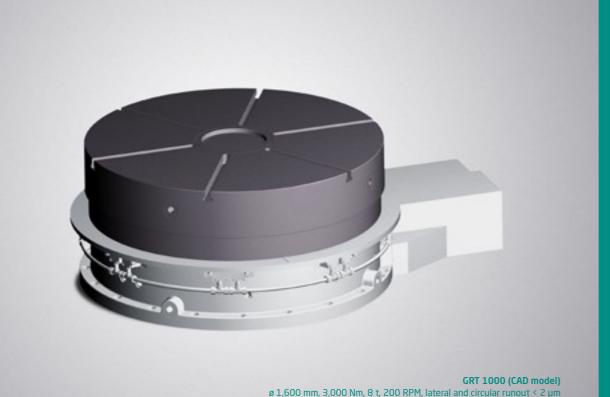
Grinding

Rotary tables for grinding machines in gantry & column design



GRT grinding





Engineering solutions

A torque motor which comes in two different performance classes can be built into any construction size and provides direct drive. Besides high speeds and acceleration, this motor features excellent accuracy and control performance. A locking system which is offered as an option helps compensate tangential moments arising from special machining conditions. The labyrinth sealing between table top and housing reliably ensure that no grinding dust or emulsion coolant may enter the table. The table housing will be customized to the design of your machine.

Grinding Rotary Table Grinding table

The GRT series is ideally suited for use in vertical circular grinding machines in single column or gantry design. The table is fully integrated in the machine. The specific running features of the direct drive allow uniform rotary motion. Any construction size may have customized parameters.

Basically, a hydrostatic mounting designed as separate bearings in each direction is used for both, axial and radial directions, thus providing excellent damping features, pinpoint accuracy and long life.

Requirements

teristic features of a product – this is the motto on which high as 15 t with excellent damping features. Besides this a reliable, backlash-free drive is required to obtain an excellent control performance in positioning and continuous operation. The drive's running features must be so good as to allow uniform rotatary motion with speeds as high as 200 RPM.

Customer requirements essentially determine the charac- The optional locking system shall withstand machining moments as high as 40 kNm at a positioning accuracy less the Rückle group acts. For GRT series, we concentrate on than +/- 5 arcsec. The use of magnetic chucking systems satisfying our customer's demand for different table tops furthermore implies the need of a center bore for slip rings and magnetic chucking systems within one construction to ensure signal transmission. A lateral runout of 1 µm size, and a rigid mounting to bear component weights as through ø 1,600 mm and a circular runout of 1 µm through ø 200 mm are further high-quality accuracy criteria.



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