# Datasheet

<b>Turn</b> i	ing	Rotary	<sup>r</sup> Tal	ble
Turni	ing	table		

Type / Designation		TRT 400	TRT 500	TRT 650	TRT 800	TRT 1000
Table sizes	mm	600   700   800	700   800   1,000	1,000   1,250   1,500	1,250   1,500   1,800	1,500   1,800   2,000
Max. centric load capacity up to	kg	2,000	3,000	6,000	10,000	15,000
Anti-friction mounting						
Bearing diameter	mm	400	460	650	850	1,050
Safe max. tilting moment up to	Nm	19,000	27,000	45,000	70,000	100,000
Torque motor drive <sup>1</sup>						
Nominal speed up to	RPM	265	250	200	150	75
Nominal torque up to	Nm	1,650	2,800	3,800	6,500	10,000
Max. speed up to	RPM	650	500	400	300	200
Locking system						
Tangential moment up to	Nm	5,500	12,000	20,000	25,000	30,000
Accuracy						
Dividing accuracy <sup>2</sup>	arcsec	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
Lateral runout <sup>3</sup>	mm	0.01	0.01	0.015	0.02	0.02
Circular runout <sup>4</sup>	mm	0.01	0.01	0.01	0.01	0.01

Type / Designation		TRT 1000	TRT 1400	TRT 2000	TRT 2800	TRT 4000
Table sizes	mm	1,500   1,800   2,000	2,000   2,500   3,000	2,500   3,000   4,000	3,500   4,000   5,000	4,500   5,500   6,500
Max. centric load capacity up to	kg	15,000	30,000	60,000	125,000	250,000
Hydrostatic mounting						
Bearing diameter	mm	1,000	1,400	2,000	2,800	3,900
Safe max. tilting moment up to	Nm	100,000	180,000	280,000	400,000	520,000
Drive gear ¹						
Engine output up to	KW	2×71	2×100	2×100	2×100	2×120
Max. speed up to	RPM	250	200	150	100	75
Max. torque available up to	Nm	45,000	85,000	125,000	165,000	330,000
Locking system						
Tangential moment up to	Nm	30,000	40,000	60,000	100,000	150,000
Accuracy						
Dividing accuracy <sup>2</sup>	arcsec	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
Lateral runout <sup>3</sup>	mm	0.02	0.02	0.02	0.025	0.03
Circular runout <sup>4</sup>	mm	0.01	0.01	0.01	0.01	0.01



## Turning 1 Drive data are not associated one with another; they will be customized according to the application.

2 Depending on the measuring system 3 O.D. turning on customer's machine and referred to bearing diameter

Further information and customized

4 Hub centering

modifications on request. Technical data are subject to change. Rotary Tables for Vertical Lathes, Bore, Drill & Mill Machines & Machining Centers



# TRT turning

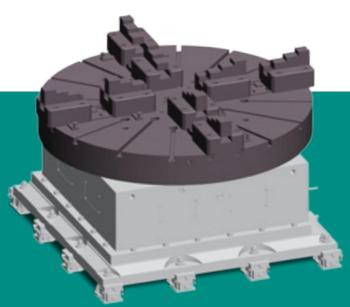


## **Turning Rotary Table Turning table**

The TRT series is ideally suited for use in both, vertical lathes and milling machines of different design. It can be designed as an integrated axis, stand-alone variant or traversing unit, according to the customer's application.

Carefully selected torque motors in TRT 400 to TRT 1000 and the drive's master-slave configuration in TRT 1000 to TRT 4000 provide an excellent control performance in positioning and milling operations.

We also offer customized linear axes which perfectly suit your current application.



TRT 800 (CAD model)

ø 1,600 mm, torque motor, 6,500 Nm, 10 t, 300 RPM

## **Engineering solutions**

engineering principles. Within one construction size, the use of an intermediate table plate allows for several table top sizes and clamping chucks. Variable mounting configurations facilitate different load capacities, and the power train provides a broad range of speeds and torques.

used, depending on the current application and the construction size. One big center bore accommodates the oil emulsion coolant may enter the table.

## Requirements

Customer requirements essentially determine the characteristic design features of a product – this is the motto on drives configured as flexible as possible for speeds from sioned drive systems. 10 RPM to 500 RPM and torques as high as 180 kNm, a high stiffness to bear components as high as 5 m, and a payload capacity up to 200 tons.

The optional locking system must allow machining moments as high as 80 kNm at a positioning accuracy higher than +/- 5° arcsec. Besides this a thru-hole for poweroperated clamping chucks and a sealing against chips and emulsion coolant are needed to ensure accuracy like a lateral runout of 20 µm through ø 2,500 mm and a circular runout of 5 µm through ø 500 mm.

### Linear axes

Rückle's linear axes suit for all rotary tables of the MRT and TRT series. The LM guides are available in different travels. which the Rückle group is acting. For TRT series, this includes the need of having different table tops and clamp- distance between the guides grant high stiffness of the ing chucks within one and the same construction size, complete system. The axes also feature generously dimen-

TRT 1000 (ø 2.000 mm, 2×51 KW, 12.000 Nm, 15 t, 250 RPM)



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