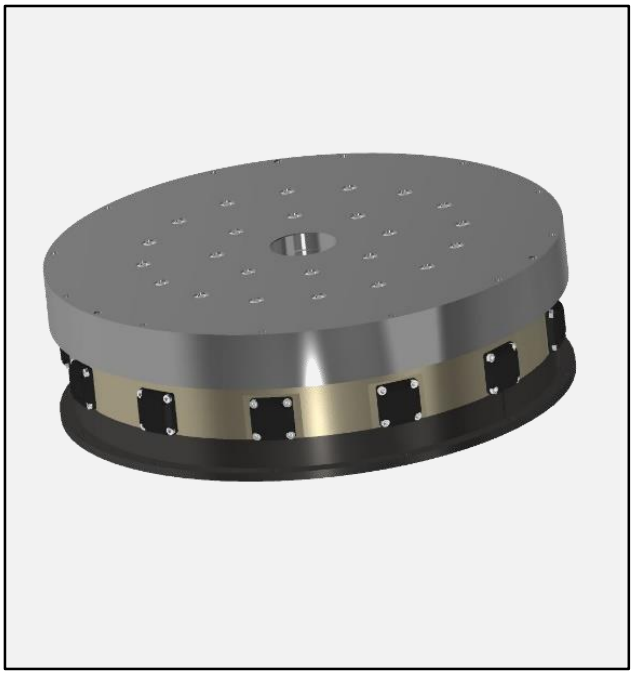
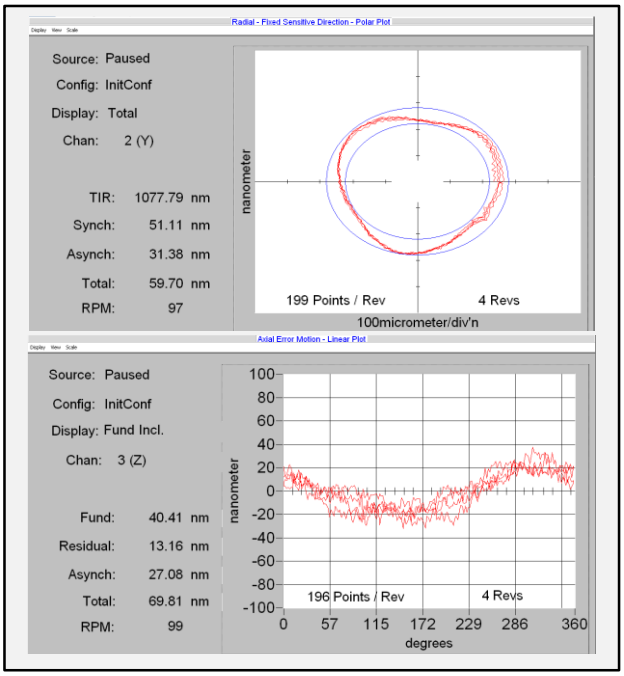
Max. Precision at rotation!

HYPROSTATIK®

Rotary guidesystems

Hydrostatic rotary tables





Advantages:

- **excellent runout**
  => extreme good roundness and flatness on work piece

- **wear free**
  => unlimited lifetime
  => unchanged machine quality for many years

- **excellent damping, no vibration**
  => improve surface quality at work piece

- **no friction at slow move – no stick slip effect**
  => positioning precision limited by angle measurement system

max. values \ size	Ø200	Ø300	Ø440	Ø600	Ø800	Ø990
table diameter	Ø200-300	Ø300-450	Ø440-580	Ø600-750	Ø800-1300	Ø990-2000
axial force 40 bar ↓	4.000 N	15.000 N	40.000N	80.000 N	200.000 N	400.000N
radial force 40 bar↔	1.000 N	2.000 N	5.000 N	8.000 N	20.000 N	30.000 N
tilt torque 40 bar	150 Nm	250 Nm	2.000 Nm	4.000 Nm	8.000 Nm	12.000 Nm
gap stiffness axial	4.000 N/µm	6.000 N/µm	8.000 N/µm	12.000N/µm	18.000 N/µm	24.000 N/µm
gap stiffness radial	600 N/µm	1.500 N/µm	3.000 N/µm	4.000 N/µm	5.000 N/µm	6.000 N/µm
tilt gap stiffness	3kNm/mrad	20kNm/mrad	130kNm/mrad	270kNm/mrad	540 kNm/mrad	900 kNm/mrad
speed oil VG68	250 rpm	120 rpm	100 rpm	70 rpm	40 rpm	20 rpm
flow oil VG68	0,5 l/min	0,8 l/min	2,0 l/min	2,3 l/min	1,8 l/min	2,8 l/min
speed oil VG32	500 rpm	300 rpm	200 rpm	130 rpm	90 rpm	50 rpm
flow oil VG32	0,8 l/min	1,9 l/min	3,1 l/min	3,8 l/min	4,0 l/min	6,5 l/min
speed oil VG15	1000 rpm	600 rpm	400 rpm	300 rpm	200 rpm	100 rpm
flow oil VG15	1,8 l/min	3,8 l/min	6,7 l/min	8,3 l/min	7,4 l/min	13 l/min
runout axial/radial	0,15 µm	0,15µm	0,20µm	0,25µm	0,30µm	0,30µm

(1) higher forces possible with higher pressure, higher speeds with higher flow and low viscosity oil. (2) oil flow at max. 30°C oil temperature (3) max. speed at max. 13°K oil heat – higher speed with same oil possible at higher oil flow (4) runout at small weight load, no deformation of table. (5) Values adaptable on application

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