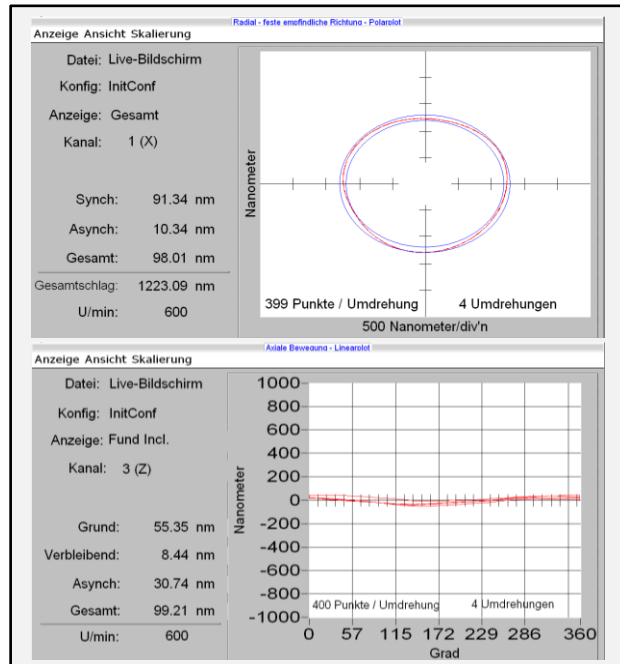


Max. Precision at rotation!

Hydrostatic wafer rotary tables



Advantages:

- excellent runout

=> extreme good roundness and flatness on work piece

- wear free

=> unlimited lifetime

=> unchanged machine quality for many years

- concepted for wafer grinding

=> designed for systems with low or no viscosity

- 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	Water/ Oil Ø250	Water Ø300	Oil Ø250
table diameter	Ø250	Ø300	Ø300
liquid	Oil + 40% water	pure water	VG 5
axial force 50 bar ↓	2.000 N	2.500 N	2.000
radial force 50 bar ↔	1.000 N	1.000 N	1000 N
tilt torque 50 bar	100 Nm		100 Nm
gap stiffness axial	>3000 N/μm	>2.500 N/μm	>3000 N/μm
gap stiffness radial	>600N/μm	>180 N/μm	>600 N/μm
tilt gap stiffness	6 kNm/mrad		>6 Knm/mrad
speed with water / oil	600 rpm	600 rpm	1.000 rpm
flow water / oil	1,6 l/min	6,5 l/min	2,3 l/min
runout axial/radial	<0,2 μm	<0,1 μm	<0,2 μm

(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