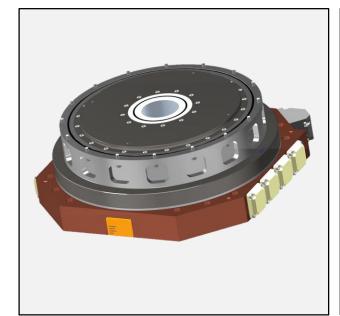
Max. Precision at swiveling!



Hydrostatic swivel unit





Special features:

- entire swivel axis with hydrostatic bearing and sealing
- with torque motor drive
- with high-precision angle measurement
- high-precision clamping by axial bearing shut down
- large rotary joint with side-exit for oil return of top-mounted hydrostatic grinding spindles
- horizontal or vertical application
- for fast and precise wheel exchange

Advantages of hydrostatic B-Axes

- wear free bearing and clamping
- => unchanged characteristics, precision positioning and bearing stiffness for many years
- free of play and friction free
- => Positioning accuracy according to angle measurement systems specifications (1-2") possible
- => Same position of the grinding spindle after swivel out and swivel in
- excellente vibration dampening
- => vibration absorption for best surface quality and material removal rates
- => long tool lifetime

- high axial load and tilt torque
- => both high and eccentric weights and tilt torque moments from high machining forces can be taken
- very high stiffness and low energy input using PM-flow controller
- => optimized precision at work piece

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- => high dynamics possible
- torquemotor with high peak moment for quick wheel exchange

| Base octagon / size Ø | SW 440 mm / Ø376 mm | SW 520 mm / Ø456 mm |
|--------------------------------------------|-----------------------|-----------------------|
| max. axial force / tilt torque at 32bar | 13 kN / 1200 Nm | 20 kN / 2200 Nm |
| max. axial force / tilt torque at 50bar | 20 kN / 2000 Nm | 30 kN / 3000 Nm |
| max. radial force at 32 / 50bar | bis 1500 / 3000 N | 3.000 / 5000 N |
| max. rotational speed | 360°/ sec | 360°/ sec |
| Hydraulic oil HLP with viscosity | VG68, VG46, VG32 | VG68, VG46, VG32 |
| max. oil demand at 32 / 50bar VG46 at 35°C | 1,5 l/min / 2,2 l/min | 2,3 l/min / 3,0 l/min |
| max. moment torquemotor | 350 Nm / 31 A | 647 Nm / 31 A |
| absolute angle measurement system | Heidenhain RCN5580 | Heidenhain RCN8580 |

Swivel units can be designed according to customer requirements. Oil type and pump pressure are optimized for excellent vibration dampening characteristics.

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