

Max. productivity without bearing change!

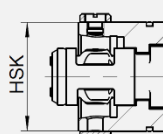
# Hydrostatic internal grinding spindle

Spindle technic

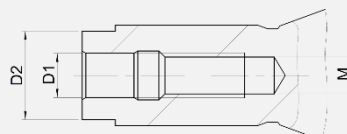


## Special features:

- wear-free hydrostatic bearings
- very small vibrations
- high stiffness and load capacity
- good thermal stability
- best surface quality and dimensional accuracy on work piece
- interface HSK E/C manual or automatic



HSK



flat contact face

## Advantages:

- **wear free**  
=> unlimited lifetime  
=> unchanged machine quality for many years
- **no vibration of bearing**  
=> improved surface quality  
=> almost noiseless operation
- **excellent damping**  
=> improve surface quality at work piece  
=> longer tools applicable
- **high load capacity without reduction at high speed**
- **very high stiffness by using PM-flow controller**
- **ready to use set with inverter and hydraulic unit**

| max. speed                       | 120.000 rpm | 90.000 rpm  | 60.000 rpm  | 40.000 rpm  | 30.000rpm   | 16.000rpm   |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| HSK size                         |             |             | HSK25E/C    | HSK32E/C    | HSK40E/C    | HSK63E/C    |
| flat contact face<br>D2 / D1 / M | Ø12/Ø6/M6   | Ø18/Ø10/M10 | Ø24/Ø16/M16 | Ø32/Ø22/M22 | Ø38/Ø28/M28 | Ø60/Ø36/M36 |
| diameter of wheel                | < 10 mm     | < 25 mm     | Ø2-20 mm    | Ø3-30 mm    | Ø4-50 mm    | Ø20-250 mm  |
| diameter of housing              | Ø95 mm      | Ø110 mm     | Ø120 mm     | Ø150 mm     | Ø150 mm     | Ø180 mm     |
| max. radial/axial force          | 50 N        | 100 N       | 200 N       | 400 N       | 600 N       | 1500 N      |
| balancing quality                | G 0,4       | G 0,4       | G 0,4       | G 0,4       | G 0,4       | G 0,4       |
| grinding power                   | 3 kW        | 8 kW        | 13 kW       | 16 kW       | 16 kW       | 20 kW       |
| grinding torque                  | 0.3 Nm      | 1.2 Nm      | 2.5 Nm      | 6.4 Nm      | 8 Nm        | 45 Nm       |