

# Special interfaces



## SK



### Characteristics:

- Standardised to DIN 69871 with retention knob
- Torque transmission by means of the friction contact of the taper with low strain
- For larger torques and sudden loads, driving keys are primarily responsible for the transmission
- The driving keys are arranged asymmetrically on the spindle face for clear orientation for the tool
- Easy production
- Self-centring due to steep taper
- High speeds can expand the spindle cone and the resulting centrifugal force can cause axial distortion of the tool
- The centrifugal force distortion reduces the contact surfaces and therefore the frictional transmission of torques

## HSK/HSK-C



### Characteristics:

- Standardised to DIN 69893
- No retention nob
- Smaller (ca. 30 %) and lighter (ca. 50 %) than the steep taper (SK)
- Faster and easier tool change
- Rigidity 5 to 7 times higher than with steep taper holders due to support on the tool holder over the collar
- Force-closing due to the taper and contact surface
- Form-closing by means of drive slots
- Excellent change accuracy (3 µm)
- Face contact on collar ensures axial wobble accuracy
- Close taper tolerance minimises radial run-out
- HSK-C has a shorter shank with a flatter taper angle