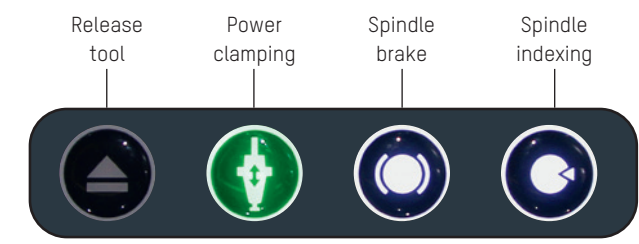
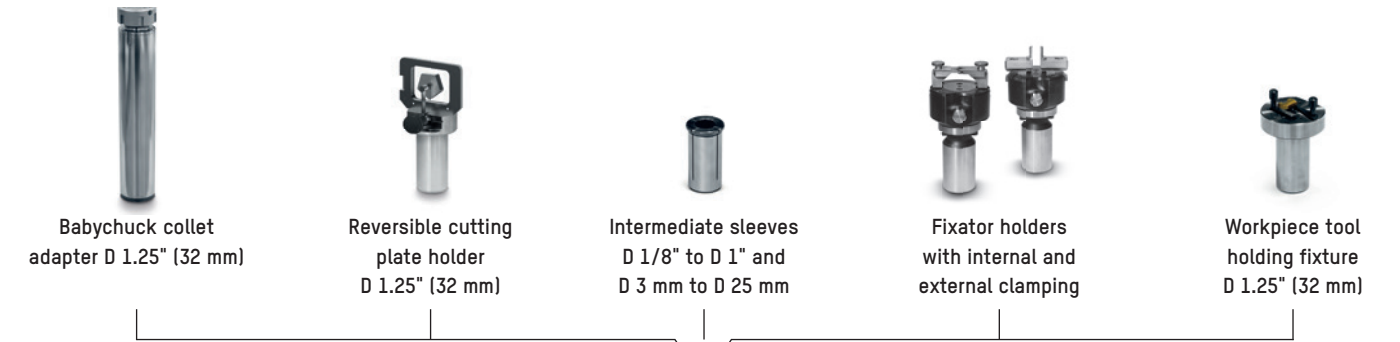


# High-Precision Spindle »ace«

## Advantages of the ZOLLER high-precision spindle

- Clamp everything. Measure everything. Accelerate everything.
- Fast,  $\mu\text{m}$ -precise changeover
- Universal for all tool holders



## High-precision spindle »ace« – with power clamping and quick-change system

**Power-operated tool clamping** – consistent, independent of the user

**High axial and radial run-out accuracy** – better than  $2 \mu\text{m}$

**Pneumatic spindle brake and indexing** – for fixing the spindle in the desired position

**High changing accuracy of adapter tool posts** – better than  $1 \mu\text{m}$

**Quick adapter tool post change** – in less than 10 seconds

**Integrated calibration spheres on adapter tool posts** – for simple, quick and precise determination of the spindle zero point