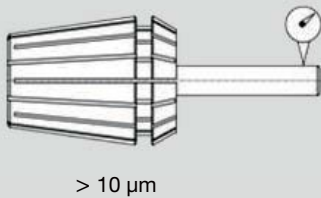




**Shrink Collet**

**Perfect clamping**

# Run-out Revolution – The limits of conventional collet chucks



## Highest possible run-out and repeatability accuracy

When shrunk in, cutting tool and shrink collet form a unit (monoblock).

## Result

A very high transmittable torque, best possible run-out properties and highest possible stability.



**Collet chucks are widely used in manufacturing. However, due to increasing precision requirements and higher spindle speeds, this clamping concept quickly reaches its limits.**

The mechanical clamping of the tool in the collet have a negative effect on holding forces and run-out. The result: less precision and higher loads on tool and chuck – higher costs due to wear and rejected parts due to unsatisfactory quality.

With the development of the patented shrink collet, we have been able to revolutionise the use of collets and collet chucks in the production process. Using shrink collets means profiting from the main advantages of collet shrinking,

- run-out < 3 μm
- maximum holding forces
- rigidity
- low-wear monoblock properties

without the need to replace existing collet chucks or spindles by a new clamping concept.

# Benefits Overview

Rigidity, maximum holding forces and monoblock properties – three major benefits in shrink technology revolutionise conventional collet applications thanks to the new shrink collet – your production will profit from them!

## **Increase productivity in a short period of time – saves you time and processing costs**

- high-speed machining
- high transmittable torque
- stable clamping
- maximum holding forces
- ultra-precise, quick tool changes (< 30s)

## **Faster setting by simple handling – more time for other tasks**

- quickly and reliably
- no gumming of the collet slots
- no cleaning required
- fatigue-proof tool clamping



## **Produce longer with less wear – low wear improves quality and quantity**

- increase of tool life for cutting tools up to 300 %
- high stability of the system
- minimum load from axial forces
- precise clamping means less damage
- resistant to dirt (sealed monoblock system)

## **Improve manufacturing without changing production process – minimum purchasing costs with maximum benefit**

- no need to retool ...
- existing collets can still be used
- universal toolholder for all sizes

## Leitz is your competent partner



Leitz offers partnership and technology leading tool knowledge offering 3 components for your success:

- Innovative tooling systems, resources saving and with enhanced quality for better production.
- Bespoke, modular or comprehensive Tool Management for greater efficiency.
- Excellent service, reliable, near the customer, around the world.

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