



**The Universal – 7990**

- Centering at main separation
- Guiding of ejection plate
- Guiding of ventilation stroke



**For smaller applications – 7992**

- Centering of individual cavities
- Centering at main separation on small tools



**For the highest demands – 7993**

- Ideal for high cleanroom demands
- High temperature applications
- Long guided centering stroke for perfect ejection of molded parts
- No restrictions regarding cleaning methods



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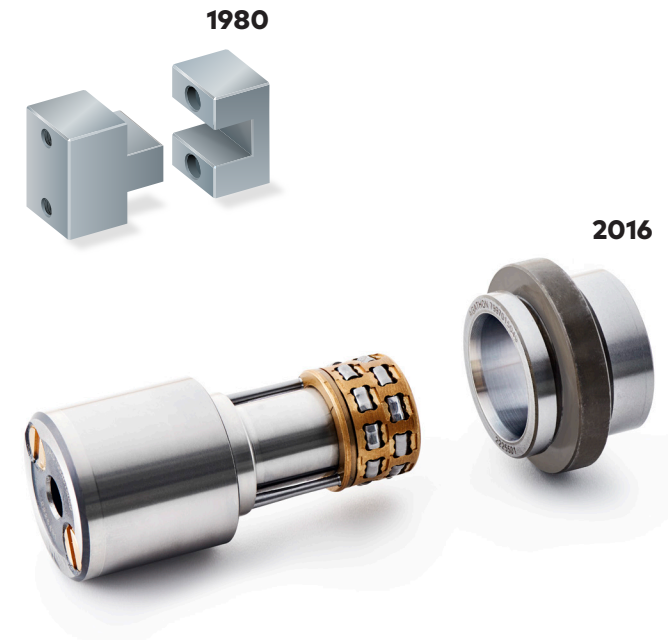
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**The Evolution**



**Round fine centering system for mold construction**



The rolling round fine centering for the individual centering of cavities and main separation planes guarantees very precise guidance and maximum load capacity already at centering start. The built-in cage positioning system allows to fully exit the preload during working process. Made of hardened, wear-resistant bearing steel, it is suitable for mass production of high precision parts.

### Applications

- Plate centering for precise guidance and maximum load capacity
- Centering systems for mold tool dimensions of 100 mm to 1000 mm edge length
- Use as individual centering of cavities
- Centering of hybrid injection molds
- Guiding ejection plates or plate guide for ventilation stroke
- Tool centering on the injection molding machine
- Tool upgrade (rework): Exchange of conventional guide blocks for round fine centering systems

### High initial load capacity and precision

- High initial load capacity at centering start
- Cage retaining and positioning system
- Long centering stroke
- No backlash because the rolling elements are preloaded
- No stick-slip

### High design freedom

- The centering units can be placed anywhere on the entire tool surface
- Commonly used number of units is 2 to 4
- The bushes can either be secured with clamps or clamped between the plates via the collar

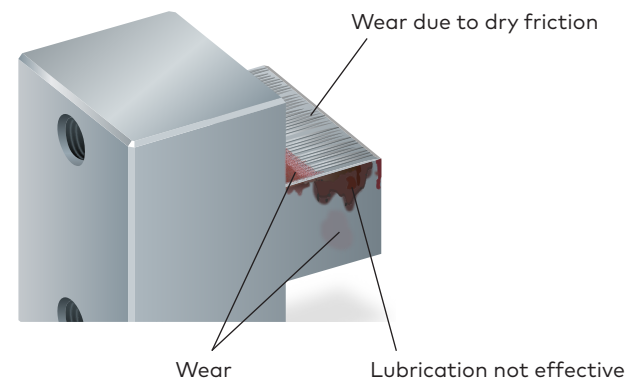
### Cleanroom compatible

- Abrasion free due to rolling off rollers
- Minimum amount of lubrication
- Use for high temperature applications

### Ease of use

- Simple calculation scheme regarding interpretation of the size and number of required centering units
- Free download of CAD data in all formats
- Shape and location holes manufactured in one machining operation
- Several dimensions ready for installation are available from stock
- Customized solutions on request

### Conventional design



### Agathon design

