

# Standard Parts

**Agathon Mini Fine Centering  
7980 | 7981 | 7989**



**Static and dynamic applications**

**AGATHON**

# Range of applications

- Centering for highly precise and light centering tasks
- For applications in punching and injection molds, mechanical engineering, robotics and automation
- Stick-slip-free movement, low wear, maximum precision and minimum space requirement
- Bushing and pillar unit are not paired and can be replaced individually
- Available as complete unit with bushing (Standard 7981), as pillar unit (Standard 7980) and as bushing (Standard 7989), each in diameters 8 and 10 mm

A-7981: Version with bushing



A-7980: Version without bushing



A-7989: Bushing



Article	d1	d2	d3	C / C <sub>0</sub> [N]
7980.008.029	8	*		C: 48 / C <sub>0</sub> : 194
7981.008.029	8	11	15	C: 48 / C <sub>0</sub> : 194
7989.008.016	8	11	15	
7980.010.029	10	*		C: 86 / C <sub>0</sub> : 345
7981.010.029	10	14	20	C: 86 / C <sub>0</sub> : 345
7989.010.016	10	14	20	

C = Dynamic load rating – Initial load capacity

C<sub>0</sub> = Static load rating – Tool fully shut

d1 = Centering pillar diameter

d2 = Bushing inner diameter

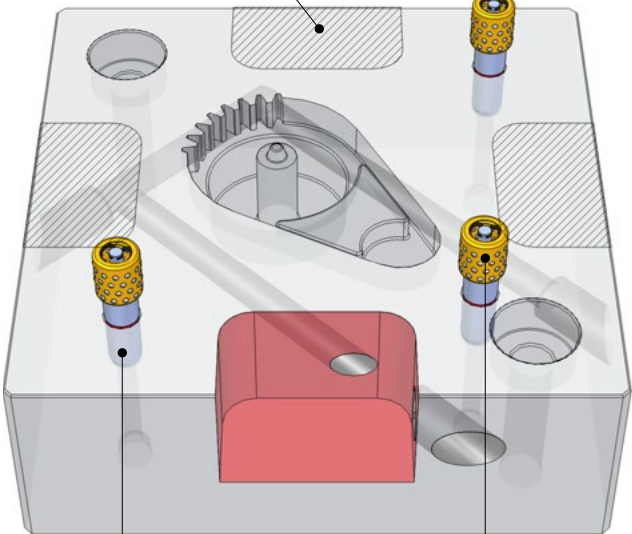
d3 = Outer diameter bore of the centering bushing

\* = Further information about tolerances can be found in the brochure

# Advantages

*Minimum space requirement:*  
up to 30% more  
capacity

*Design freedom:*  
placed in any  
location



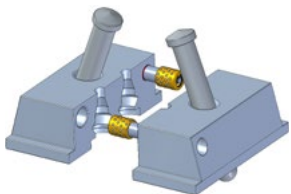
*Location bores:*  
low-cost and precise  
manufacturing

*Backlash-free:*  
Highest possible  
precision prevents  
wear

# Application examples

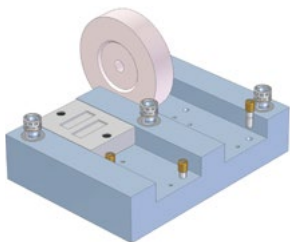
- For static and dynamic centering tasks
- The use of the bushing is recommended for dynamic applications

## Slider and chuck centering



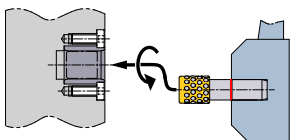
- High-precision centering of the sliders at the parting line
- Burr and offset of the slider halves is effectively prevented

## Static application



- Quick-change of mold inserts, also on the injection molding machine
- Complex and expensive pocket manufacturing is replaced by two bores
- Plug-and-play

## Positioning of gripping and handling tools



- Gentle and precise handling
- Rotation around centering axis possible
- Eliminates vibrations

# Other Agathon fine centering units

## Universal – Standard 7990



- Centering of the main parting line
- Centering of hybrid injection molds
- Available in Ø 15 to 50 mm

## Small applications – Standard 7992



- Centering of the individual floating cavities
- Centering at main separation for small or micro molds
- Available in Ø 10 mm

## Highest demands – Standard 7993



- Ideal for high clean-room requirements
- High-temperature applications
- Available in Ø 15 to 40 mm

## Short stroke – Standard 7995



- For short venting or ejector strokes
- Guide does not have to extend from preload
- Available in Ø 15 to 25 mm

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