

Standard Parts

Agathon Mini Fine Centering 7980 | 7981 | 7989



Static and dynamic applications

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 ₀ [N]
7980.008.029	8	*		C: 48 / C ₀ : 194
7981.008.029	8	11	15	C: 48 / C ₀ : 194
7989.008.016	8	11	15	
7980.010.029	10	*		C: 86 / C ₀ : 345
7981.010.029	10	14	20	C: 86 / C ₀ : 345
7989.010.016	10	14	20	

C = Dynamic load rating – Initial load capacity

C₀ = Static load rating – Tool fully shut

d1 = Centering pillar diameter

d2 = Bushing inner diameter

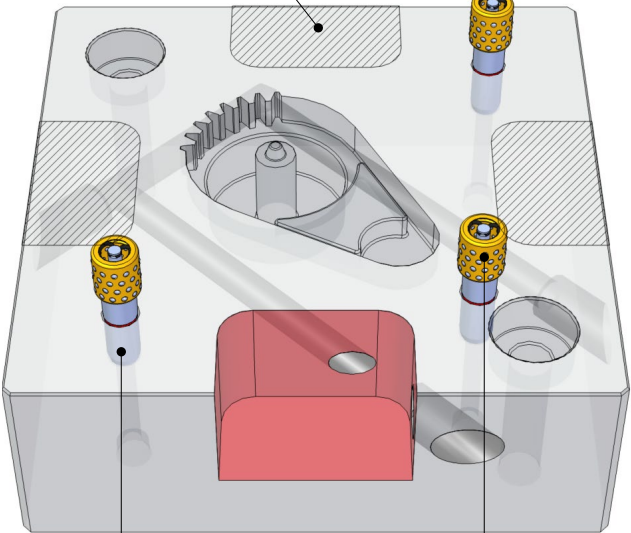
d3 = Outer diameter bore of the centering bushing

* = 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



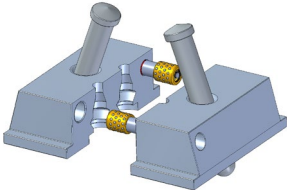
Location bores:
low-cost and precise
manufacturing

Backlash-free:
Highest possible
precision prevents
wear

Application examples

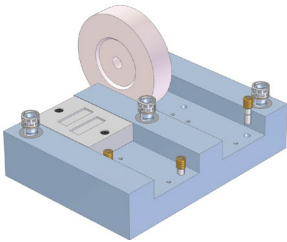
- For static and dynamic centering tasks
- The use of the bushing is recommended for dynamic applications

Slider and chuck centering



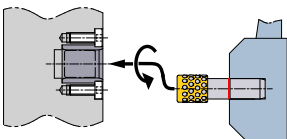
- High-precision centering of the sliders at the parting line
- Burr and offset of the slider halves is effectively prevented

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

AGATHON
S W I T Z E R L A N D

STRIVE FOR THE BEST.