

Standard Parts

**Agathon –
For the mold construction**



Rolling guides for 24/7production

AGATHON
SWITZERLAND

www.agathon.ch

Range of applications

Agathon rolling guides are backlash-free and durable, thanks to a precise preload. The efficiency of injection molding tools can be significantly increased due to the various tribological advantages of a rolling guide against sliding guides.

The integrated cage retaining system allows to exit the preload. Made of hardened, wear resistant bearing steel, rolling guides are suitable for the mass production of highly precise parts.

Applications for main guides

- Volume production for continuous operation; 24/7 production
- Tool concepts for sensitive operations
- Multi-plate tools, multi-component injection molding
- For precise demolding on longer distances
- Thin-wall injection molding
- Stack molds without support

Applications for Agathon centerings

- Individual centering of cavities
- High quality alternative to conventional centering, existing tools can be retrofitted (upgrade)
- Centering of hybrid injection molds
- Centering of mold inserts
- Centering of the tool on the injection molding machine plate
- Ejector plate guide

Applications for ejection guides

- Volume production, with high requirements on process safety
- Guidance of ejector without tilting

The outstanding advantages of guides and centerings

Outstanding performances

- High load capacity, as required with either balls or rollers
- Cage retaining and positioning system
- Rolling instead of sliding
- Backlash-free guiding through several plates
- No stick-slip
- Long centering stroke

Design features

- When using preloaded rolling guides as the main guides, additional fine centering can be omitted
- For high cleanroom and high temperature requirements, PEEK cages (e.g.) can be manufactured – guides made of stainless steel 1.4112 are designed and manufactured to customer specifications

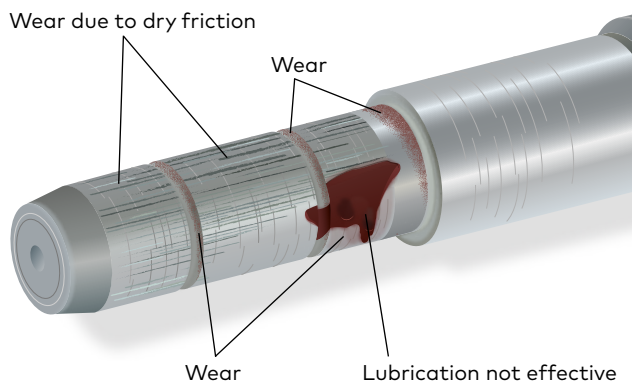
High temperature and cleanroom compatibilities

- Abrasion free due to rolling elements
- Minimum amount of lubrication can be used

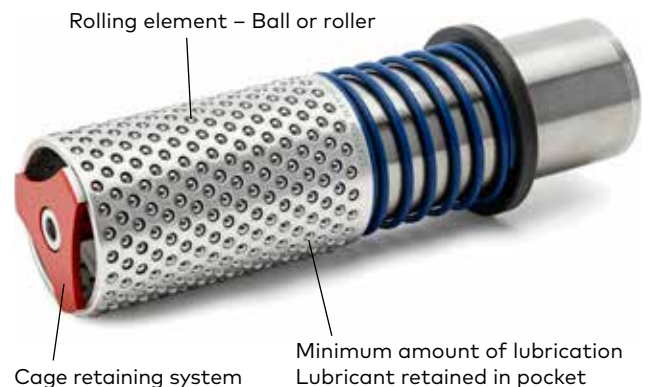
Ease of use

- No tilting of the plates, simple tool handling
- Process reliability
- Customized solutions on request
- Available from stock, post-production within a few weeks
- Agathon design assistance is available

Conventional design



Agathon design



Agathon centerings



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

Agathon locations



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