

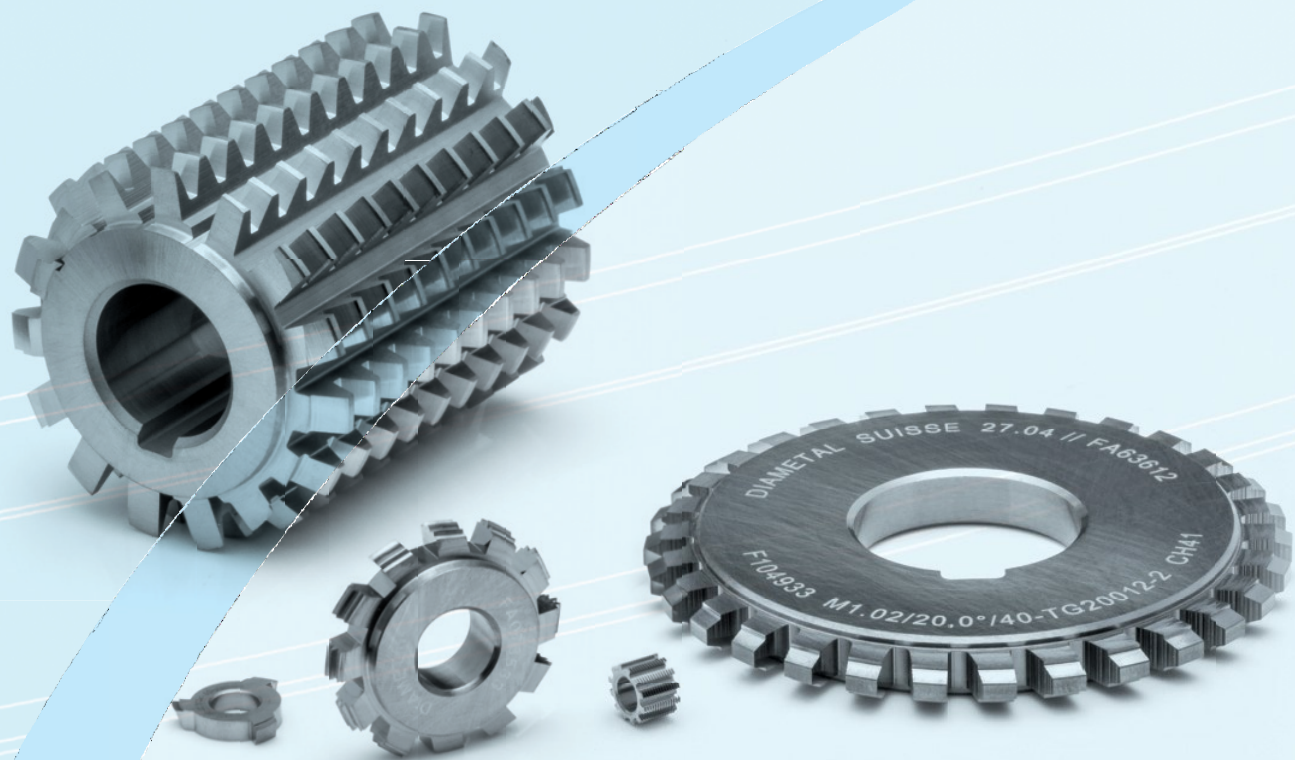
**DIAMETAL**

*Success with precision*



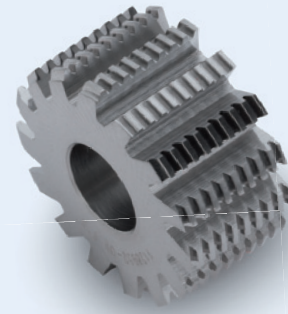
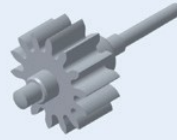
# Precision gear cutting tools

by DIAMETAL



## Fine-pitch hob cutter for epicyclic gears

- Hobbing process
- Shiftable
- Standard profiles (NIHS, NHS, EVJ, CTH...) and special profiles
- Starting from module 0.03mm
- Multi-threads available



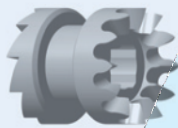
## Setting hob

- Hobbing process
- Non-shiftable
- Special profiles (escape wheel, stars, cross of Malta, ...)
- Starting from module 0.03mm
- Multi-threads available



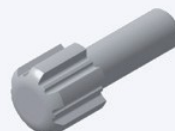
## Hob cutter for frontal gear cutting

- Hobbing process
- Non-shiftable
- Breguet toothing, sliding pinion, frontal gears, chamfer hobbing
- Multi-threads or single thread (profil S)



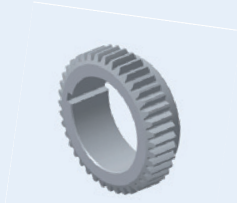
## Tooth profile cutter

- Cutting tooth by tooth
- Non-shiftable
- All sort of profiles
- Starting from module 0.03mm



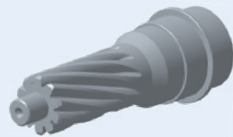
## Hob cutter with bore for involute teeth

- Hobbing process (finishing, roughing & skiving)
- Shiftable
- Cutting of straight or helical teeth, fluting, worm gears, knurling
- Standard profiles (DIN, AGMA, NF, ...) and customized profiles
- Starting from module 0.03mm
- Single or multi-threads



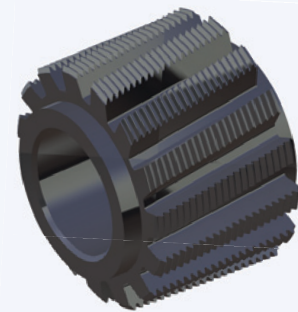
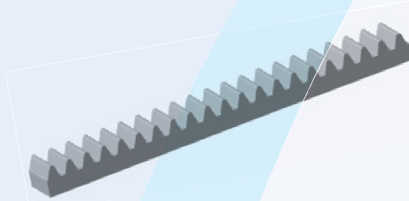
## Shaft hob cutter for involute teeth

- Hobbing process (finishing, roughing & skiving)
- Shiftable
- Cutting of straight or helical teeth
- Standard profiles (DIN, AGMA, NF, ...) and customized profiles
- Starting from module 0.75mm
- Single or multi-threads



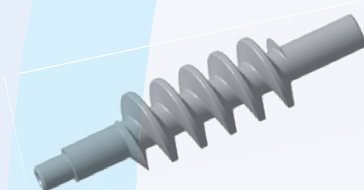
## Rack cutter

- Cutting segment by segment
- Straight or helical flutes
- Standard profiles (DIN, AGMA, NF, ...) and customized profiles



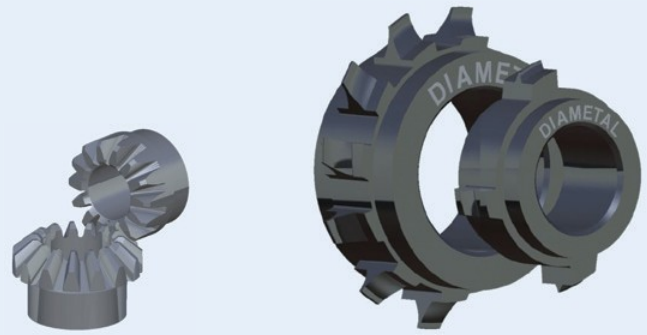
## Thread-milling cutter

- Standard or special profiles
- Starting from module 0.1mm
- One or two threads



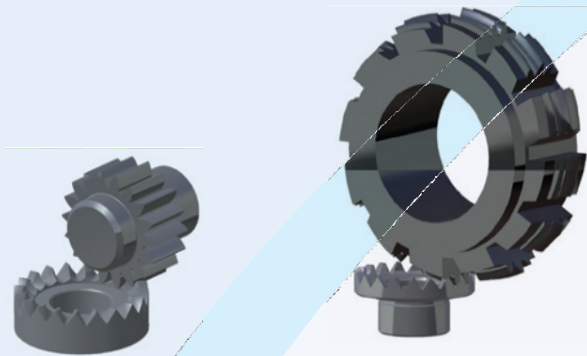
## Hob cutter for straight bevel gears

- Hobbing process
- Non-shiftable
- Straight bevel pinions and wheels
- Epicyclic or involute profiles
- Starting from module 0.03mm
- One or two threads



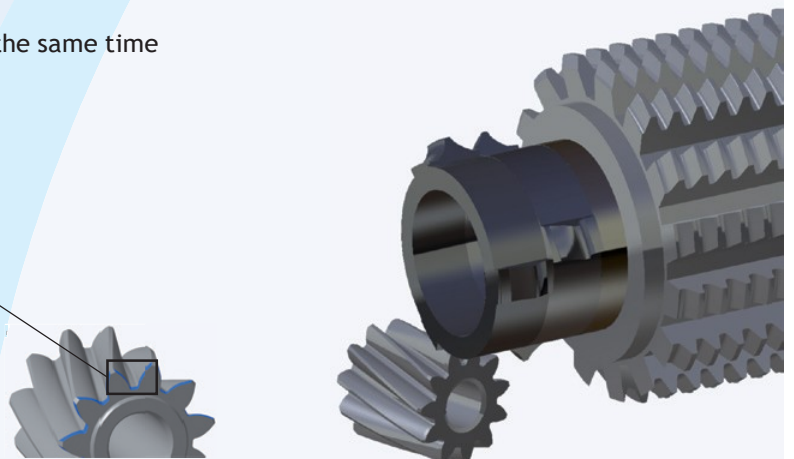
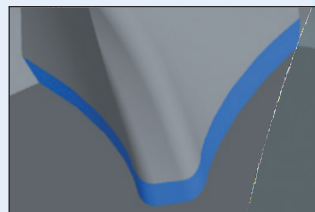
## hob cutter for face gears

- Hobbing process
- Non-shiftable
- Conical gearing : Face gear with spur gear
- Epicyclic or involute profiles
- Starting from module 0.03 to 1mm



## Hob cutter for chamfering teeth

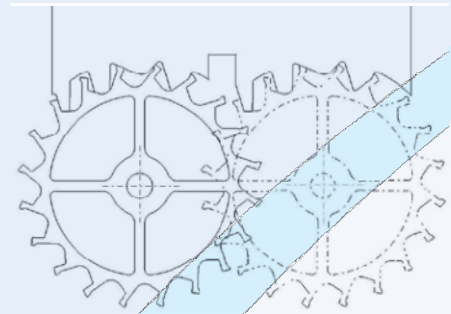
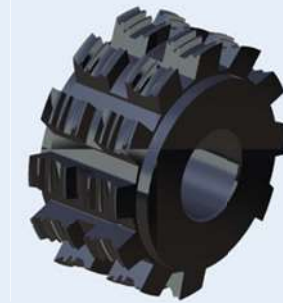
- Hobbing process
- Non-shiftable
- Chamfering of straight or helical teeth
- Time savings in production (chamfering at the same time as the hobbing operation).



## Multi-position hob

All non-shiftable hob cutters are also available as a multi-position hob.  
(Multi-position types are shiftable).

- Increased working autonomy
- Economic advantage
- Easy setting
- Possibility to have different profiles on the same hob  
(example: roughing and finishing)



## Further informations

- Our strengths: very high quality, flexibility, service.
- All gear hobs from Diametal are simulated, designed and produced in Switzerland.
- Diametal hobs are made of tungsten carbide only, different carbide grades are available.
- Different coatings available on request (adapted to the application).
- All hobs have logarithmic relief with constant profile.
- Resharpener and reprofiling service available (with recoating on request).
- Quality AAA - AA according to current standards (DIN3968).

With Diametal, you get the best solution!!!

Don't hesitate to contact us

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