



Cutting Tools

BETTER CUTTERS TO
MAKE BETTER GEARS.

Gear cutting tools including hobs, shaper cutters, milling cutters, bevel cutters, and broaches, custom engineered to your exact application specifications.

Helios fine-, medium-, and coarse-pitch cutting tools can be produced from several premium materials including carbide, high speed steel, and MC90 for optimized gear cutting capability and superior tool life. All tools are offered in a variety of coatings including TiN and AlCrN, and can be provided with up to AAA quality specifications.



GEAR HOBS



Offered with single- or multiple-start configurations, 0.767 - 508 DP ($0.3 m_n - 6 m_n$) and outside diameter 0.236 in - 12.60 in (6 - 320 mm).

- Finishing involute
- Pre-finish profile (pre-grind, pre-skive)
- Involute and non-involute splines
- Single position cutter
- Straight bevel generating cutters (Conikron)
- Cycloidal and other special, non-involute profiles

MILLING CUTTERS



Offered as fine as 508 DP ($0.05 m_n$) and outside diameter 0.236 in - 11.811 in (6 - 300 mm).

- Involute milling
- Single- and multi-row rack milling
- Worm milling
- Spline milling
- Rotor milling

BROACHES



Broaching tools for varying tooth profiles up to lengths of 2 meters and outside diameters of 250 mm.

- Straight and helical broaches
- Solid and complex broaches

SHAPER CUTTERS



Offered up to 1 DP ($25 m_n$) and outside diameter 13.4 in (330 mm).

- Bore- or shank-type cutters
- Spur or helical cutters
- Involute and non-involute forms
- Cutters for serrations, sprockets, and ratchets
- Rack-type cutters

BEVEL CUTTERS



Offered in high-speed steel and carbide for efficient gear cutting.

- HSS solid body cutters with a 1.1 in - 9 in production range
- HSS coniflex cutters
- Carbide pentagonal stick blades
- Carbide Oerlikon-style stick blades

POWER SKIVING CUTTERS



Skiving tools for standard and custom profiles of 170 DP - 5 DP ($0.15 - 6 m_n$) and outside diameter 0.30 in - 9.84 in (7.5 - 250 mm).

- Bore- or shank-type cutters
- For internal and external spur and helical gears

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