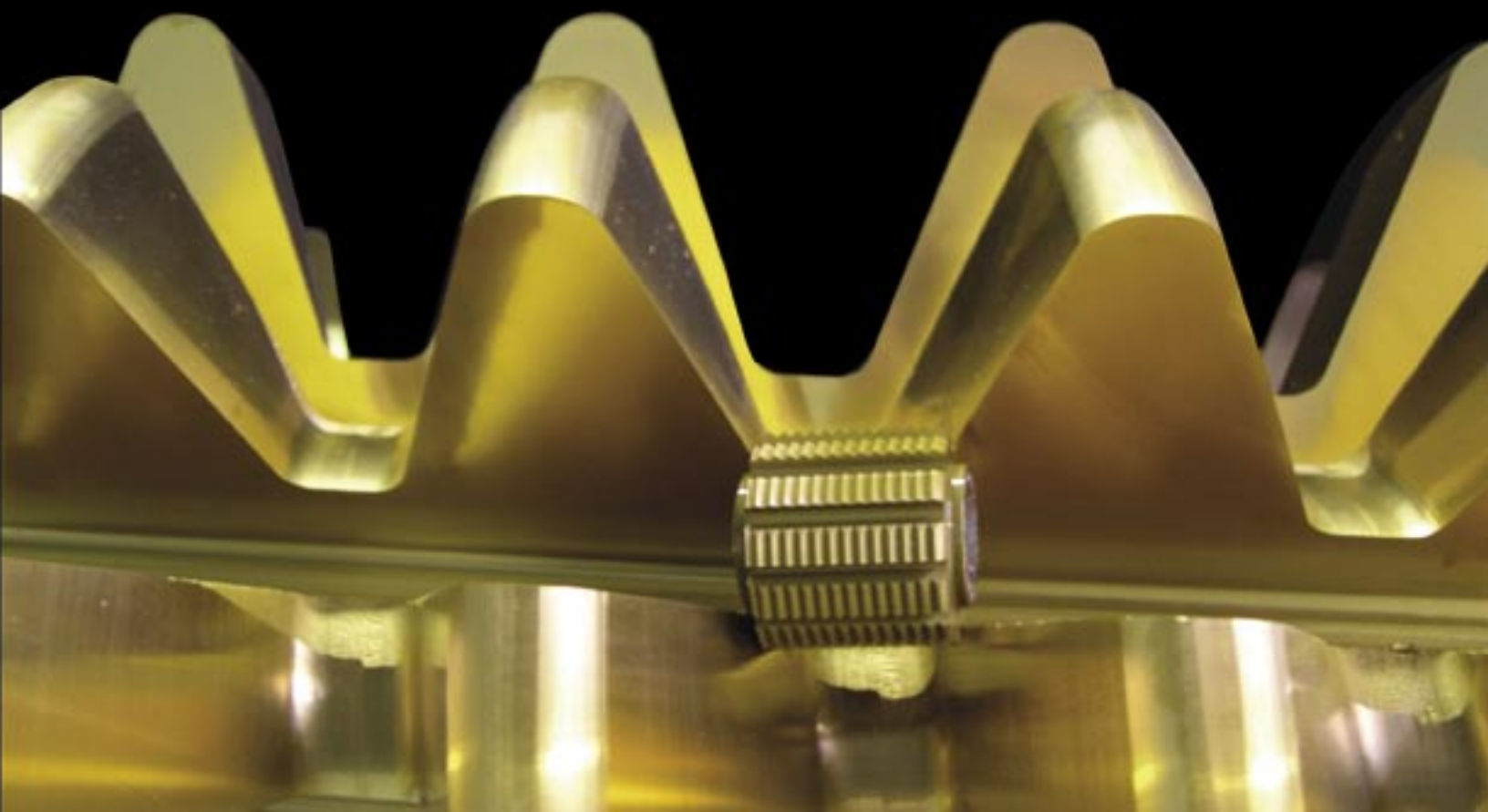


HobSource Inc.



Custom gear cutting tools



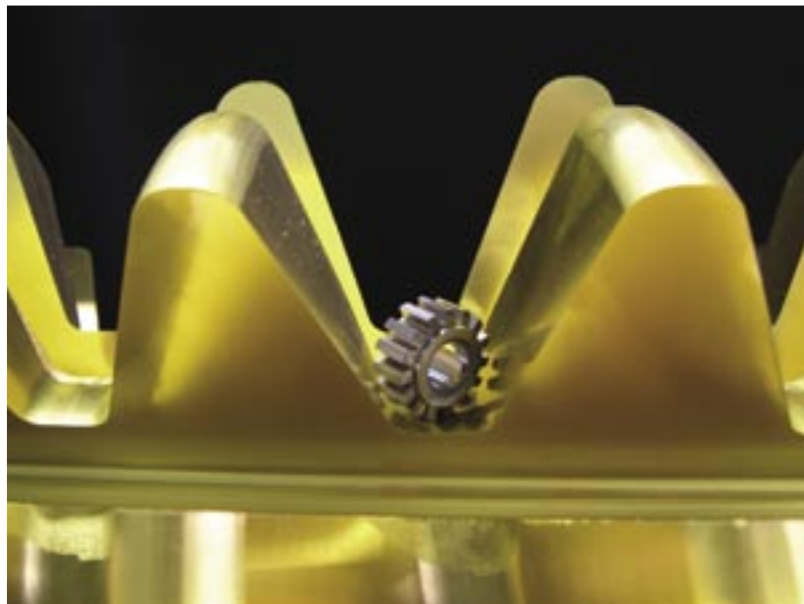
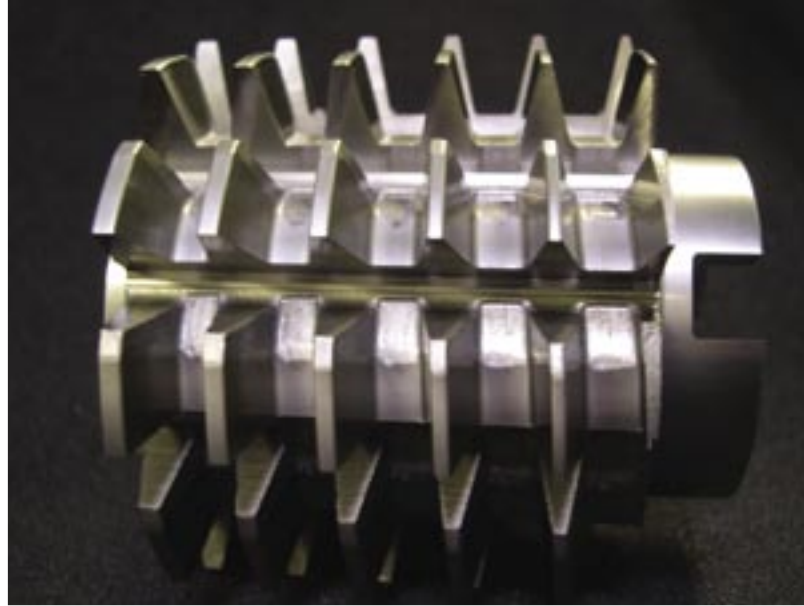
Introduction

If you hob, shape, shave, broach or mill, HobSource delivers the quality tools and personal service you expect. Each and every tool is designed and manufactured to exacting quality standards in ISO/QS facilities from the latest grades of high-speed steels and carbides using CAD/CAM technology and state of the art CNC equipment.

Are your goals to –

- Decrease cycle times
- Increase number of parts produced between resharpenings
- Produce higher quality parts
- Improve tool life
- Lower tooling costs

We specialize in helping our clients with difficult applications to achieve and surpass their production goals.



Hobs

We offer a complete line of hobs for cutting

- Gears**
- Involute and parallel splines**
- Worm gears**
- Sprockets**
- Ratchets**
- Special forms**

Each tool is designed to meet your specifications with any type of profile modification including protuberance, chamfer, topping and tip relief.

Each and every hob is inspected on dedicated CNC equipment to ensure highest quality.

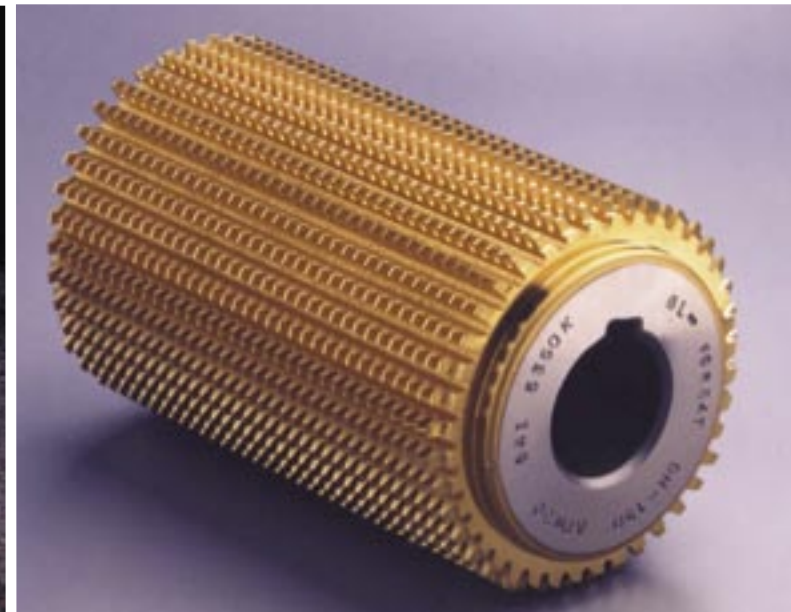
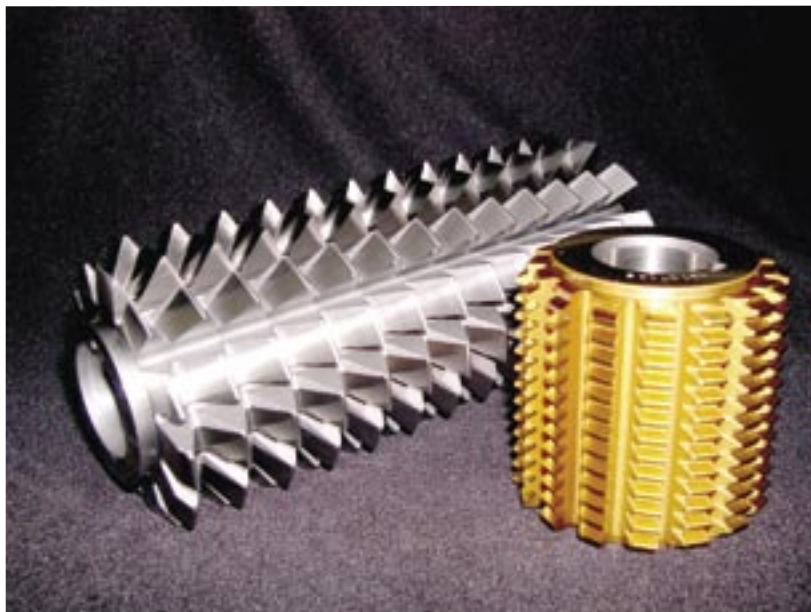
Do you have a hobbing application that is driving you mad? Let us help!

We are constantly testing the latest materials and performance enhancing coatings to handle your toughest jobs.

Is AGMA "AA" just not good enough? Let us manufacture your ultra precise hobs to ensure your critical application comes out right the first time.

From the coarsest to the finest pitches, we deliver the finest hobs optimized for your cutting conditions.

Your special requests are always welcome at HobSource.



Shaper Cutters

We design and manufacture shaper cutters for

Gears

Involute and parallel splines

Pulleys

Special forms

Our spur and helical shaper cutters are available in all styles to produce practically any internal or external components and can be supplied with protuberance, chamfer, and topping features.

Shaper cutters are available in the following types:

Disc

Deep counter bore

Shank

Hub

A wide variety of materials and performance enhancing coatings are available to guarantee satisfaction on your most difficult applications.



Straight & Spiral Bevel Tooling

HobSource supplies a full line of tooling for cutting straight and spiral bevel gears.

Straight bevel tooling for 3" to 24" machines is available as gashers, Christmas tree single or double cutting and full finishing. In addition we supply sets of 44 or 56 Konvoid blades for Modul machines.

In addition to conventional solid cutters, we offer a revolutionary style of spiral bevel cutter. The new Eco-Cutter (patent pending) has blades made from premium grades of high speed steel and can be refitted with new blades at a fraction of the cost and time to manufacture a new solid cutter.

We compliment our line with segments and blades for spiral bevel machines including RIDG AC*, WEDG AC*, HELIXFORM*, HARDAC* I, II and III (with or without TOPREM*), REVACYCLE* (completing and two cycle), RSR KURVEX ARCOID* and CONIFLEX*.

**Trade marks registered by Gleason Works USA.*



Broaches



HobSource offers a complete line of broaching tools designed to your specifications.

Our CNC ground broaches are available as push or pull types, to produce a variety of internal or external components including gears, splines, squares, hexagons, keyways and other forms.

We supply spiral gullet broaches for smooth, uninterrupted cutting and maximum tool life.

Sizing broaches are available to ensure concentricity between minor and major diameters for precise subsequent machining operations.



Shaving Cutters

Our shaving cutters are precision ground and inspected on specialized CNC equipment and are available for all types of shaving:

Conventional

Diagonal

Plunge

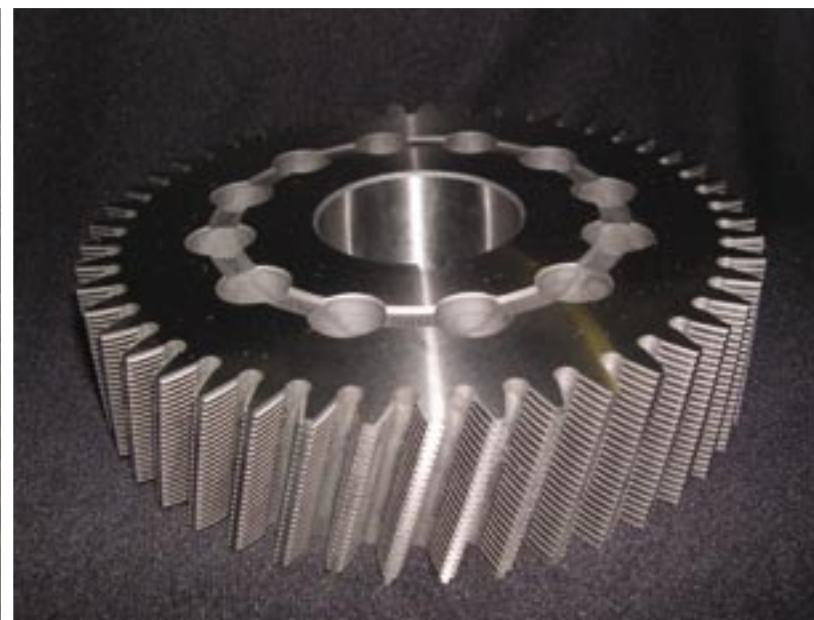
Underpass

Profile modifications including tip and root relief or crown are available upon request.

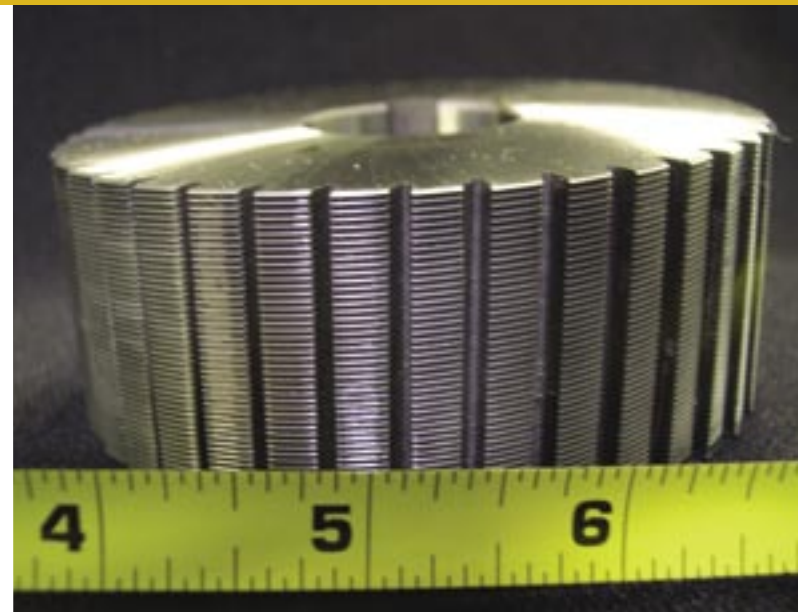
Shaving cutters are manufactured from the latest grades of powder metal high speed steel to ensure long tool life.

We provide complete resharpening charts with every cutter, or, simply return your cutter for complete sharpening and reconditioning to original specifications.

Please contact us for more details.



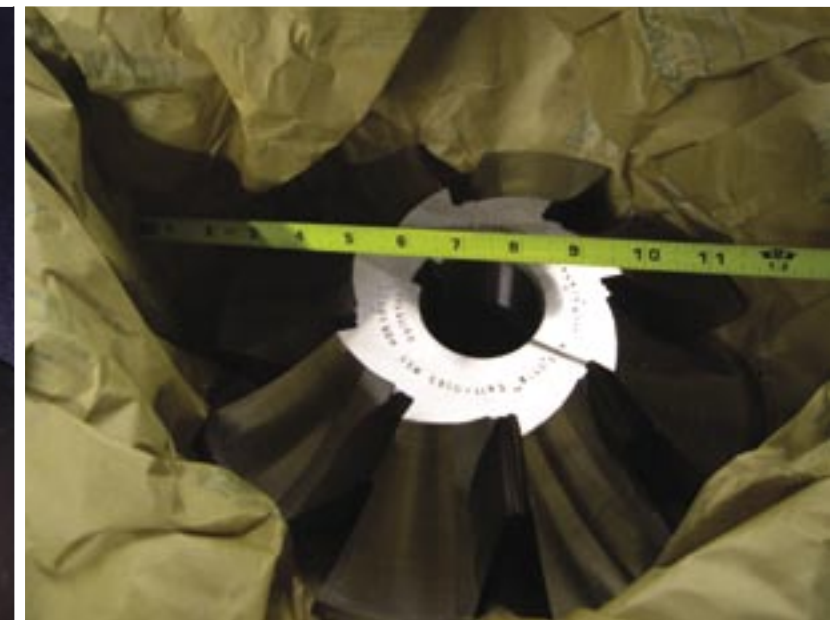
Milling Cutters



Form relieved milling cutters are economical tools for cutting a variety of components from gears, splines, worms to special forms that cannot be generated.

Milling cutters are supplied with single or multiple rows of teeth to reduce cutting times.

Straight or helical gashes and optimized rake angles are available to suit your requirements and cutting conditions.



End Mills



Rack Type Cutters

We manufacture rack cutters, including single tooth and segments, to suit Maag, Sunderland and other types of planing machines for cutting spur or helical gears, splines, sprockets or serrations.

Cutters can be supplied with straight or helical teeth depending on your application.

All helical rack cutters are delivered transversely sharpened to the helix angle with lip and chamfer at the edges for clean cutting.

Roughing Christmas tree type cutters are available to quickly gash coarse pitch teeth prior to roughing and finishing.

Rack cutters can be manufactured from a variety of powder metal high speed steel grades and coated to enhance performance.



In addition to tooling, HobSource offers complete design and engineering services for all gear cutting tooling including reverse engineering of existing components.

From the basic methods to the most advanced CMM inspection, we can handle virtually any unknown and deliver the right tool for the job.

Complete tool resharpening and coating is available for hobs, shaper cutters, broaches, shaving cutters and milling cutters.

Contact us for more information.



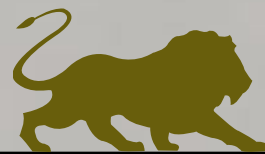
Reverse Engineering

Resharpening

Coating



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