



Chamfer Hobs

FOR GEAR MANUFACTURING

In gear manufacturing, every detail matters.

As industries move toward high-speed, high-precision applications, chamfer accuracy becomes critical to achieving optimal performance, long-term reliability and quieter operation.

Backed by decades of experience in gear cutting and finishing solutions, Star SU engineers each Chamfer Hob to deliver measurable improvements in cost, quality and productivity.

Star SU Chamfer Hobs offer a proven, high-performance solution that combines chamfering and deburring in a single, continuous hobbing process, delivering superior accuracy, extended tool life and lower operating costs.

Key Advantages

Perfect Chamfers

Burr-free, high-precision profiles without deformation.

Extended Tool Life

HSS tool body can be resharpened and recoated multiple times to extend service life.

Production Flexibility

Full or partial chamfers, even in challenging gear geometries and limitation of interference.

Reduced Cycle Time

Single-cut hobbing lowers costs and improves throughput.

Optimized for Finishing

Prevents damage to grinding wheels and honing tools.



GEAR CUTTING TOOLS
ROUGHING | FINISHING | CHECKING | RECONDITIONING
TEL: +1 (847) 649-1450
star-su.com

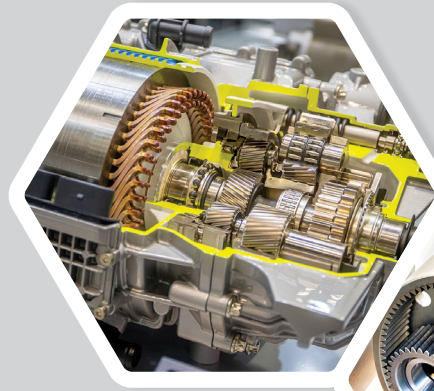
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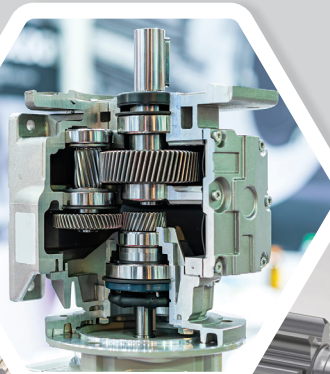
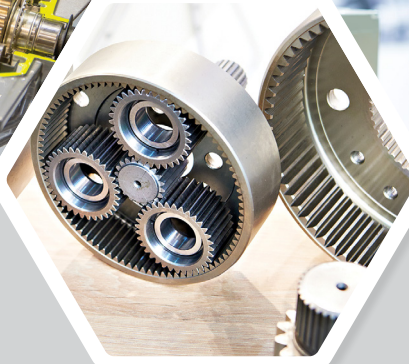
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Applications



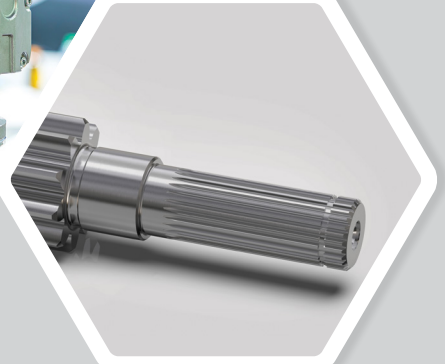
Electric vehicle gearboxes

Planetary and rotary vector system



High-speed motors

Shaft and ring gears with interference or inclined surfaces



Engineered for Performance

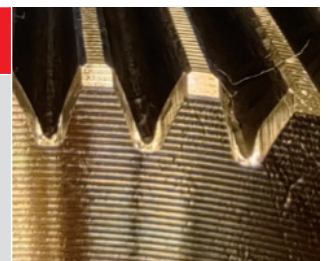
Each Chamfer Hob is engineered using Star SU's proprietary 3D kinematic simulation software to ensure a precise match between tool geometry, gear profile, machine setup, and application requirements.

Fully interchangeable with tools from other manufacturers and ready to run on any chamfer-hobbing machine, no modifications are required for fast, seamless integration into existing production environments.

Supported by Star SU's precision reconditioning services, tools can be resharpener and recoated multiple times to extend life, maintain like-new performance, and deliver consistent value throughout their service life. Each tool is supplied with a dedicated setup sheet and resharpener chart to ensure repeatability and simplified maintenance.

Demonstrated Results

Machine	Chamfer Hob Material	Cycle Time	Tool Life/ Resharpener	Total Tool Life	Result
EMAG VL 200 H	S390 + Alcrona Pro coating	20 seconds per gear	30,000 gears	600,000 gears	65% cost reduction per gear vs. conventional chamfer/ deburr



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