



Chamfering & Deburring Tools

FOR GEAR MANUFACTURING

Edge preparation plays a critical role in gear durability and manufacturing consistency. Gear chamfering and deburring removes material from the edge of a gear tooth to create a precise transition between the face and flank, eliminating sharp edges and hardened burrs that can lead to tooth breakage, damage to mating components, and premature wear of finishing tools.

Backed by decades of experience in gear cutting solutions, Star SU engineers each Chamfering and Deburring Tool to deliver measurable improvements in quality, productivity and overall manufacturing performance. Designed for accuracy and repeatability, these tools protect gear integrity and support stable, high-quality gear production across demanding applications.

Key Advantages

Prevents Breakage

Reduces the risk of tooth edge failure caused by excessive carburization under heavy loads.

Protects Gears and Bearings

Eliminates burrs that can chip off during operation and damage mating components.

Extends Finishing Tool Life

Minimizes hardened burrs that accelerate wear on grinding and honing tools.

Improves Workplace Safety

Removes sharp edges that pose handling and operator safety risks.



GEAR CUTTING TOOLS
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Engineered for Performance

Maintaining gear integrity requires a comprehensive approach that integrates chamfering, deburring, and rolling. Star SU Chamfering and Deburring Tools are engineered to support that strategy by protecting critical tooth geometry and eliminating secondary

burrs. The result is a controlled chamfer without sacrificing cycle time or part integrity, improving process stability, extending finishing tool life, and ensuring reliable, high-quality gear production.

Rolling Tools & Deburring Tools combination

Chamfering Tools



Demonstrated Results

Machine	Tools Material	Chamfer Cutter	Tool Life	Total Tool Life	Resharpener Ability	Result	
Modul	HSS + Alcrona Pro coating	Double-side design	50,000 gears/ each use	100,000 gears	1-3 times resharpener depend on specific design	Very low cost per part	

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