

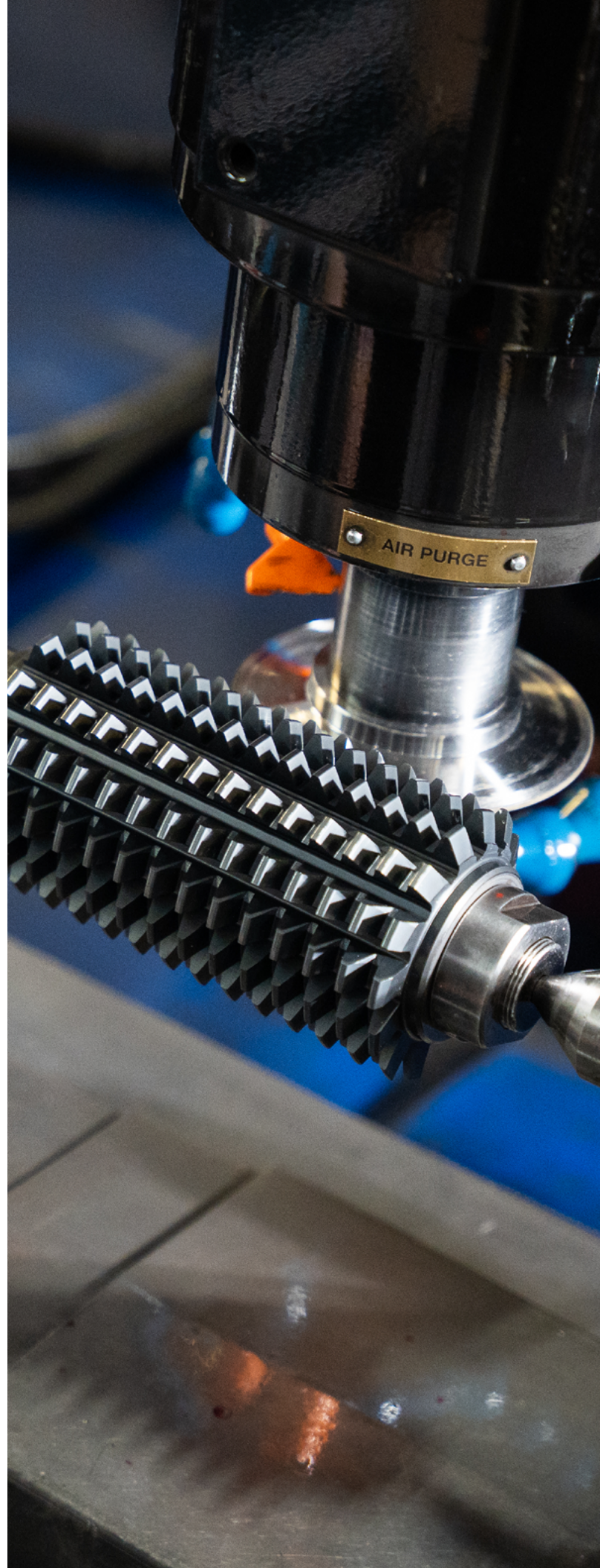
# STATE-OF- THE-ART SHARPENING

As a complete solution provider, we supply not only the machines, tools, and services for profitable gear production — but also the equipment and services needed to support cutting tool maintenance.

We don't just sharpen cutting tools. We engineer the machines and processes that do the sharpening. Backed by decades of experience supporting gear manufacturers, our team understands the demands on cutting tools throughout their full lifecycle, and we know what it takes to return them to peak condition.

- **Spur & Helical Hobs**
- **Bore- & Shank-type Hobs**
- **Spur & Helical Shaper Cutters**
- **Power Skiving Cutters**
- **Conikron & Coniflex Bevel Cutters**
- **Milling Cutters**

Partnering with Helios means gaining access to a team that lives and breathes gear tooling. We bring specialized knowledge, responsive communication, and a commitment to keeping your tools sharp — literally and strategically.





Equipped for heavy-duty sharpening of high-speed steel (HSS) and carbide tools of both bore- and shank-type, including straight- and helical-gash hobs, milling cutters, shaper cutters, bevel cutters, and power skiving tools.

Our KFS-series machines—designed and manufactured in-house—are optimized for precise, repeatable sharpening of straight and helical gash hobs (including shank-type), as well as spur and helical gear shaper cutters. This process maintains your tooling's original geometry and metallurgical integrity, ensuring reliable performance across regrinds.

All sharpened tools are verified using CNC analytical inspection and certified to AGMA or DIN specifications upon request. Whether you're machining production volumes or specialty prototypes, your tools will return to the spindle ready to meet spec.

#### SPECIFICATIONS

- Up to 10" diameter x 12" length capacity
- Sharpening of both straight and spiral gash hobs
- Sharpening of both spur and helical shaper cutters and power skiving cutters
- Flute spacing, rake, and lead up to AGMA AAA quality
- Diamond grinding wheels for carbide
- CBN grinding wheels for high-speed steel
- Crown-dressed vitrified wheels for spiral gash hobs
- Oil-based coolant prevents thermal damage

#### CNC EQUIPMENT

- 5-axis CNC hob sharpening machines
- Precise control of index, rake, and lead accuracy
- Optimized grinding cycle based upon hob material, amount of wear, hob type, and wheel size
- Microscopic analysis of each workpiece
- CNC inspection machine with 3D probe

#### PROFESSIONAL SERVICE

- Knowledgeable staff that understands the importance of each sharpened element and its effects on gear quality
- Trust your hobs to the people who know them
- Quick turnaround times
- Certification to AGMA or DIN specifications
- Oerlikon Balzers and Voestalpine Eifeler for stripping and all industry-standard coatings

#### CONTACT

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