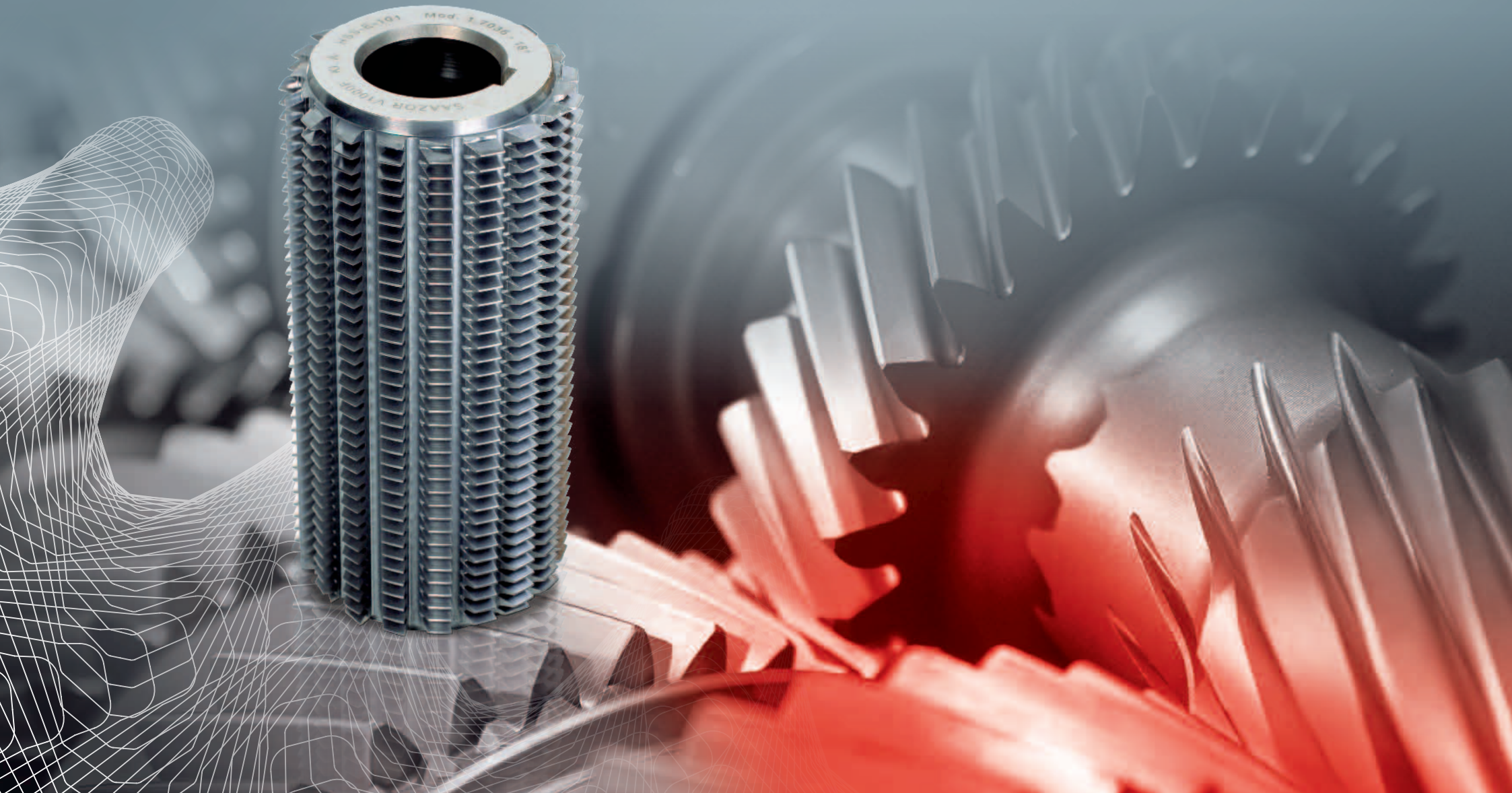


SAAZOR
JUST MORE POWER



SAAZOR – PIONEERS IN HOBS

SAAZOR - inventor of hobs and one of today's leading manufacturers of solid steel and solid carbide hobs, with a global export business.

SAAZOR tools are manufactured with maximum precision by experienced employees using high-performance production lines and special machines.

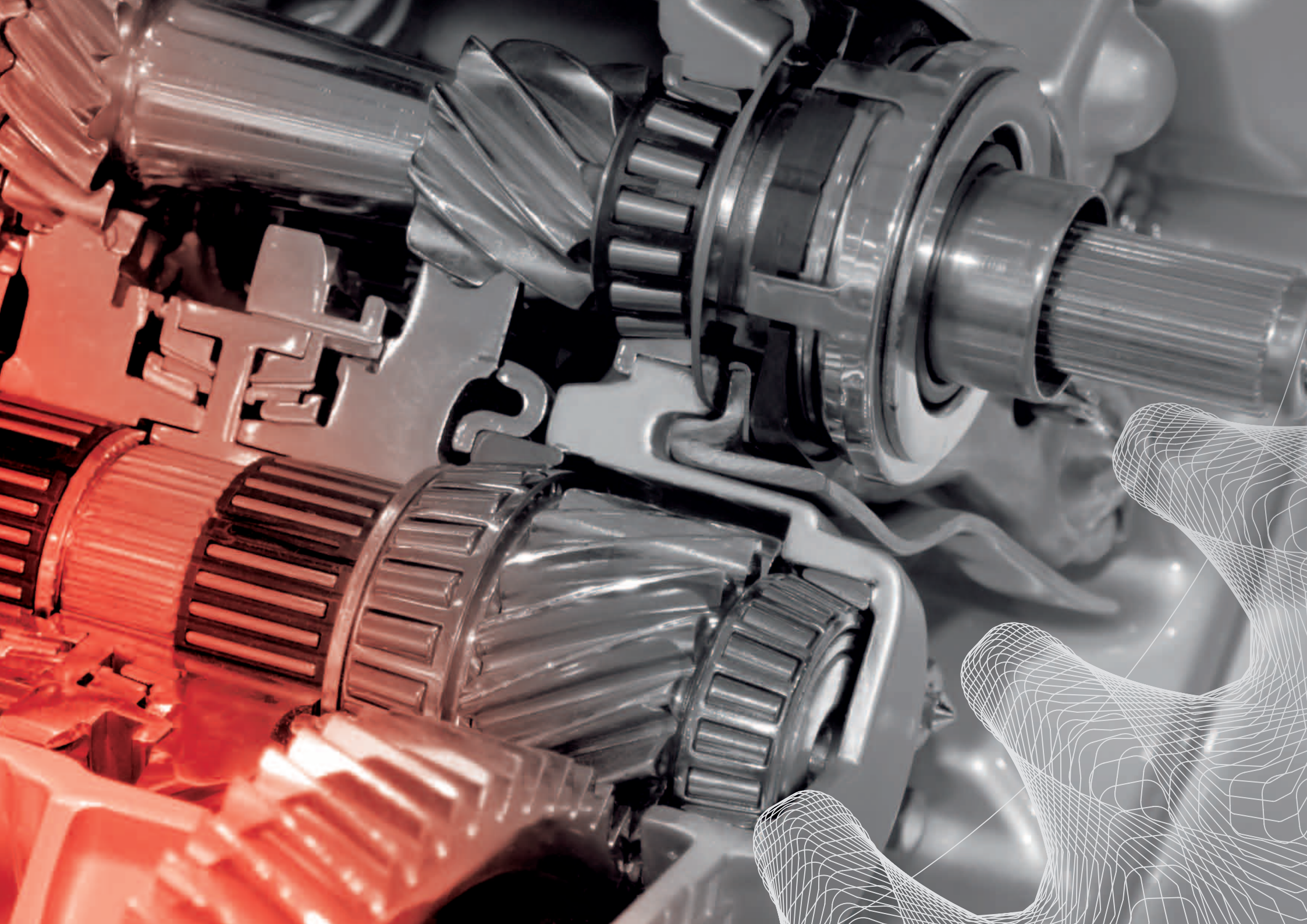
For SAAZOR, top quality and a long tool service life is the key to maximum customer satisfaction.

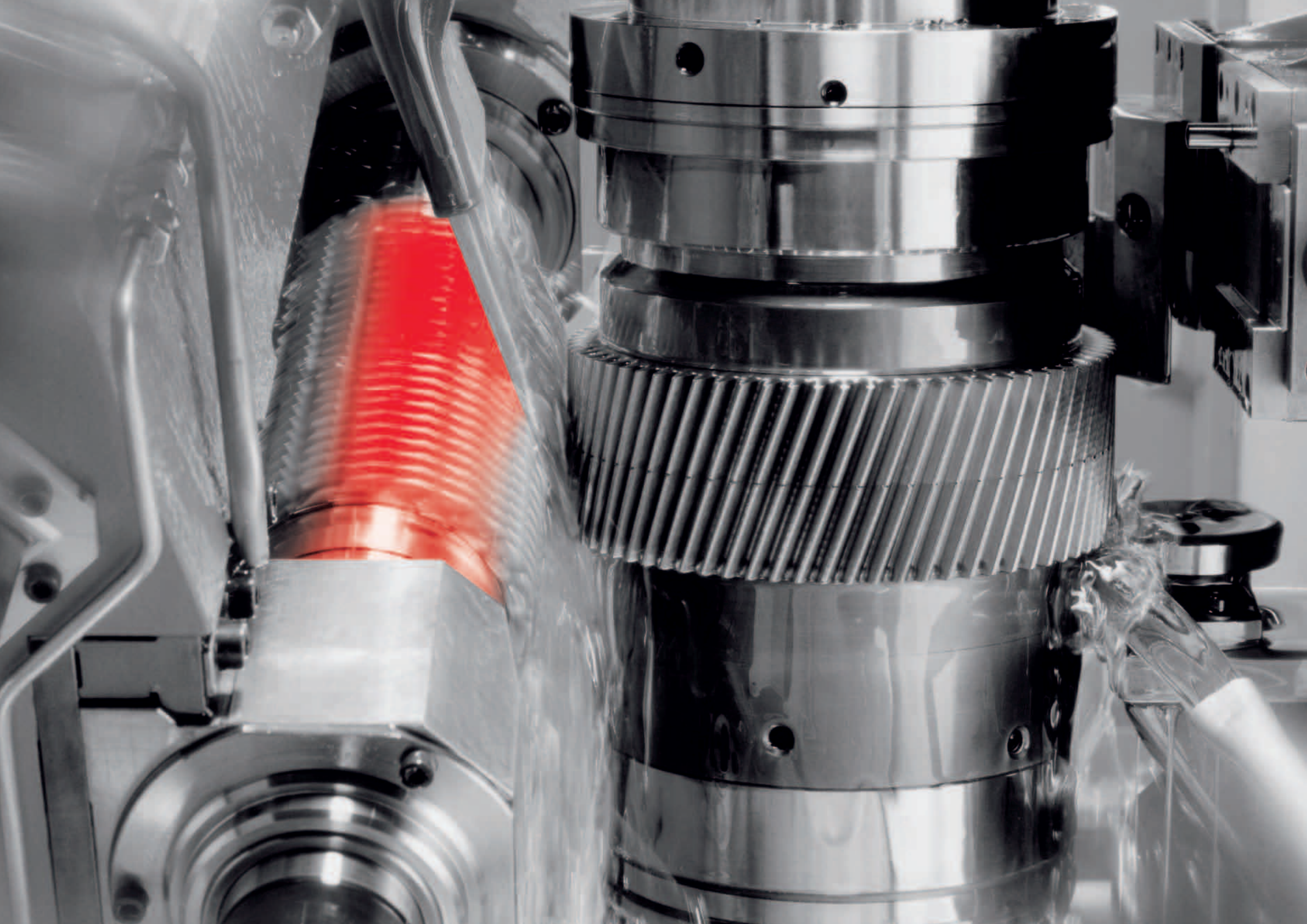
The optimum heat treatment of the HSS hobs is carried out on our own, environmentally friendly treatment lines and is an important component in the expertise of the company.

SAAZOR has its own PVD coating centre where both our products as well as tools from other manufacturers or users are coated. We also offer a comprehensive treatment service for all common tools.

The trust which has been placed in us during our decades of experience obliges us to continue to meet the demands of our customers into the future, by providing quality-conscious manufacturing at market-oriented prices while strictly adhering to delivery deadlines.





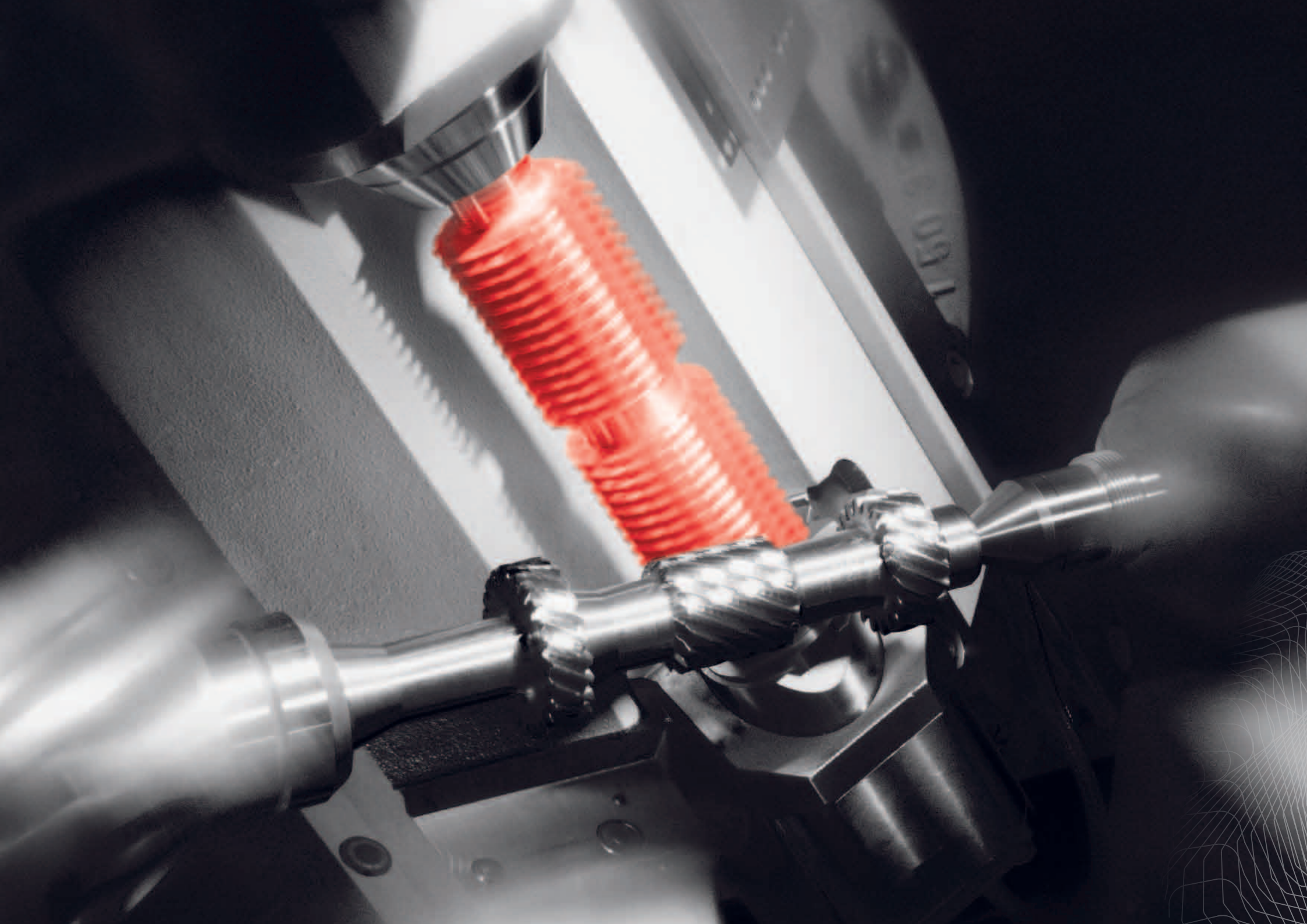


SAAZOR – THE RIGHT HOB FOR YOUR APPLICATION

SAAZOR manufactures standard and special hobs according to individual product requirements.

This results in milling tool profiles which are special within the hob sector in terms of both quality and special-purpose coating. The combination of precise machining and the right coating increases the durability of the hob.

SAAZOR offers a wide range of products - specifically and optimally adapted to your performance data. SAAZOR is happy to help with any queries you may have related to gearing technology.



SAAZOR – STATE-OF-THE-ART PRODUCTION TECHNOLOGY FOR RENOWNED COMPANIES



SAAZOR manufactures hobs in all quality classes and popular module sizes. SAAZOR also implements special customer requirements perfectly. SAAZOR hobs are characterised by their long service life and top-quality workmanship.

Employees with excellent qualifications guarantee a high degree of quality and adherence to deadlines.



SAAZOR – SKIVING HOBS

Skiving is an economical alternative to other precise machining processes for gearing, such as grinding, honing or shaving.

- Machining of tempered gears ranging from 58 to 64 HRC
- Skiving cut thanks to negative rake angle
- Precise machining is possible on a hobbing machine without requiring additional investment
- Runout and spacing errors are eliminated, for the most part, in a single step

SAAZOR provides you with the best solution for your precision machining processes.

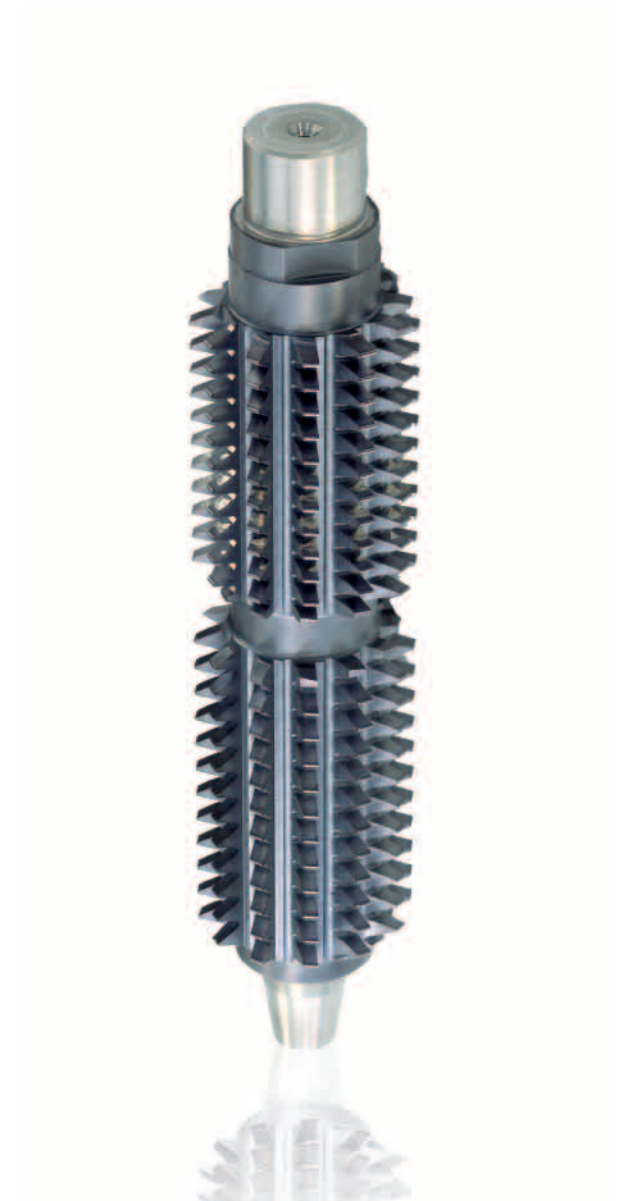


SAAZOR – SOLID CARBIDE HOBS

Solid carbide hobs are mainly used in large-scale series production processes. They stand out particularly for the following reasons:

- Short production times thanks to high cutting speeds
- High levels of surface quality
- Suitability for dry processing
- Extremely long service lives due to high-performance PVD coatings

SAAZOR offers you an efficient combination for your production processes with a choice of carbide type, hard coating and hob design.



SAAZOR – SOLID STEEL HOBS

Solid steel hobs can be recoated cost-effectively. Special features include:

- Improved gear profile shape thanks to the high number of flutes
- Low load on cutting edge thanks to good chip distribution
- Reduction of setup times by using shank type or tandem hobs
- Smaller manufacturing tolerances for gears thanks to top hob quality

Powder-metallurgical substrates with the appropriate hard coatings are being increasingly used for dry hobbing as well.



SAAZOR – FLUTE CUTTERS

The traditional flute cutter is particularly efficient and has the following outstanding properties:

- Homogeneously rolled and heat-treated flutes without tooth root tension allow greater tip chip thicknesses and thus higher feed rates
- Large flank clearance angle can be achieved through increased tip clearance angle
- Increased tooth lengths enables more re-sharpening

The use of flute cutters is particularly beneficial where no recoating is to be done.



SAAZOR PVD COATINGS TOOL CONDITIONING



Common hard coatings

TiN	Titanium nitride
TiCN	Titanium carbonitride
TiCN+	Titanium carbonitride/titanium nitride
TiALN	Titanium aluminium nitride
CrN	Chrome nitride
CrC/C	Chrome carbide carbon

Others available on request

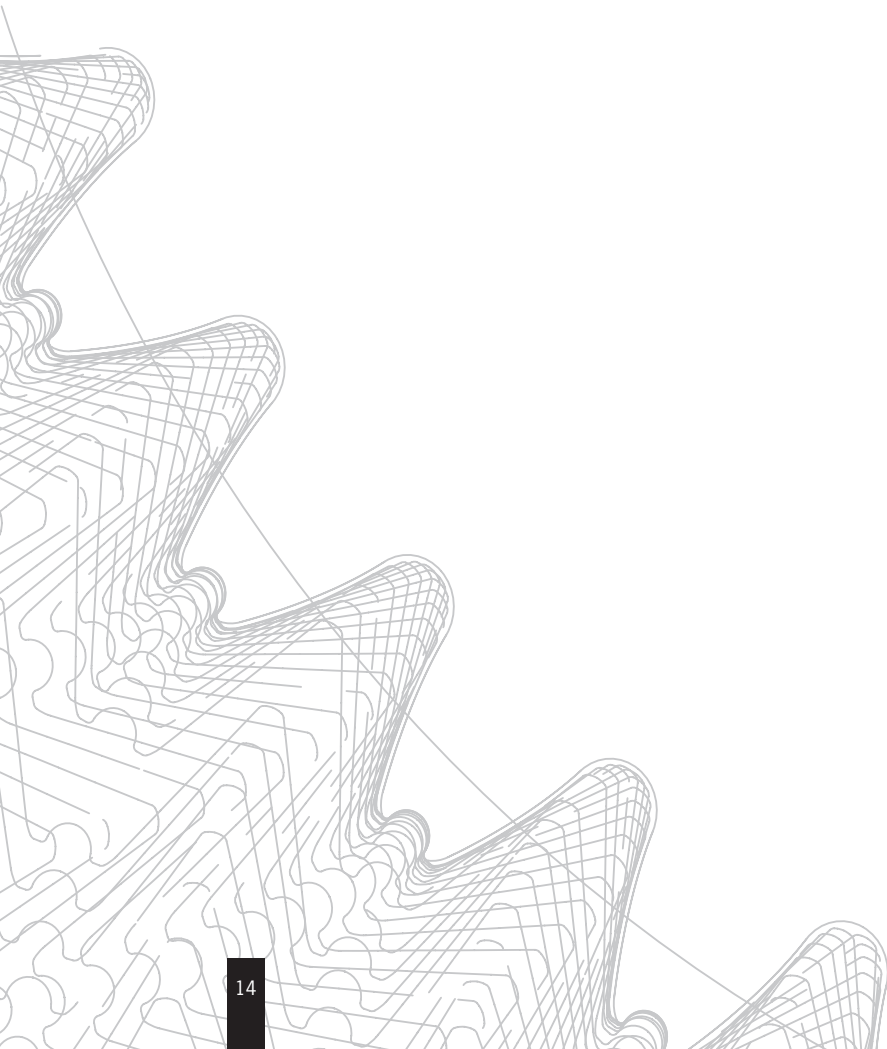
Today, our newly developed **DuraTec procedure** combines common coating technologies with sophisticated methods of surface treatment. **DuraTec** thus represents a high-performance approach to ensuring cost-efficient production.

Additional advantages:

- Experience of a well-coordinated team
- High-performance, ultra-modern technology
- Individual consultation on site
- Further development of high-performance coatings according to tools and production conditions

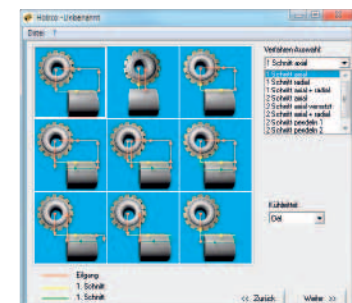
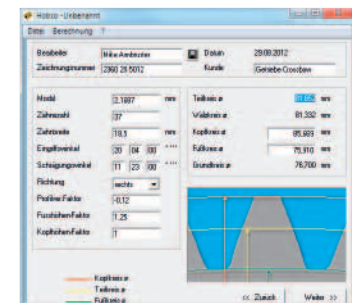


SAAZOR – HOBICO CUTTING DATA CALCULATION SOFTWARE



HOBICO – cutting data calculation for gear hobbing processes

Our cutting data calculation program for gear hobbing processes allows you to optimise your cutting data, to determine milling times and to perform calculations. The software is also available with a cutter and machine database as well as a simulation module and tool shift optimisation.





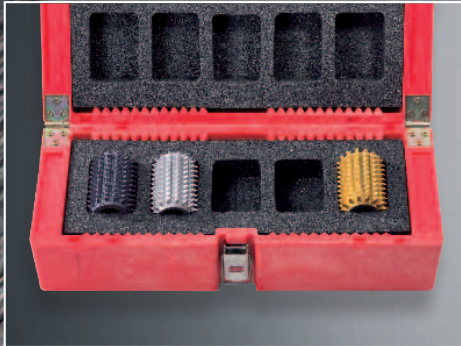
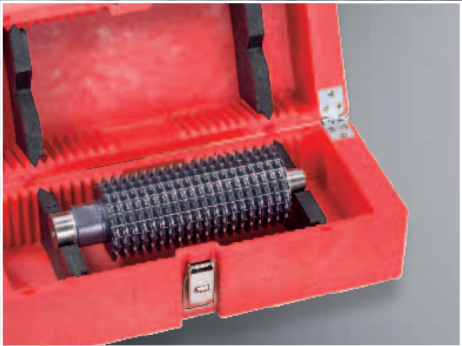
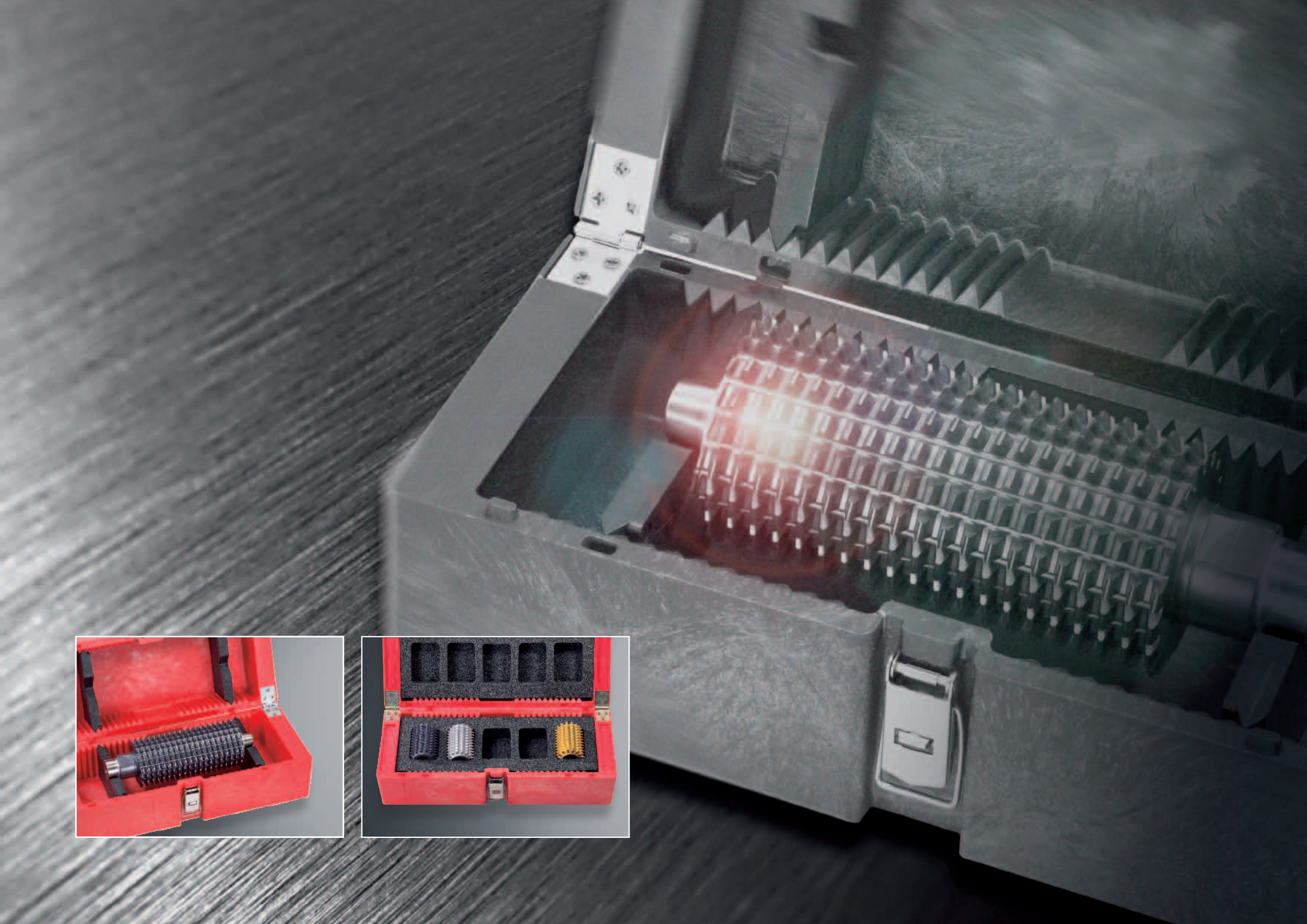
SAAZOR – TOOL SYSTEM STS HOB TRANSPORT SYSTEM

Hob transport system

We have developed our STS transport system for bore milling and end milling cutters to ensure the optimum protection of your tools from damage during transport.

The STS transport system can be individually designed using foam inlays for the safe transport of tools of any kind.







SAAZOR – A HISTORY OF SUCCESS



SAAZOR started as a pioneer in 1943 and has remained one of the leading manufacturers of hobs to this day. SAAZOR made in Europe.

SAAZOR is certified in accordance with DIN ISO 9001-2008.

Company history

1943 The company is founded by Walter Zorn in Pforzheim

1975 Plant is built in France

1983 Installation of the first PVD coating line

1984 Bernd Zorn joins the managing board

1992 Product range is expanded to include solid steel hobs

1996 Solid carbide hobs are launched on the market

2002 New company building is opened on the industrial estate Hohenäcker, Pforzheim/Germany

2012 Company is taken over by Bonos GmbH and Dr. Ing. Markus Weiler joins the managing board

69 Abteilung B

Nummer der Eintragung	a) Firma b) Sitz c) Gegenstand des Unternehmens	Grund- oder Stammkapital RM	Vorstand Persönlich haltende Gesellschafter Geschäftsführer Minister	Statuten
1	<p>a) Wälztechnik Gesellschaft mit be- schränkter Haftung Pforzheim. b) Pforzheim.</p> <p>c) Die Gesellschaft wird als Aktiengesellschaft zur Befriedigung von Bedürfnissen der Bevölkerung in Pforzheim gegründet. Die Gesellschaft hat ihren Sitz in Pforzheim. Die Gesellschaft hat ihren Sitz in Pforzheim. Die Gesellschaft hat ihren Sitz in Pforzheim.</p>	200.000		

**SAAZOR-WÄLZTECHNIK
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