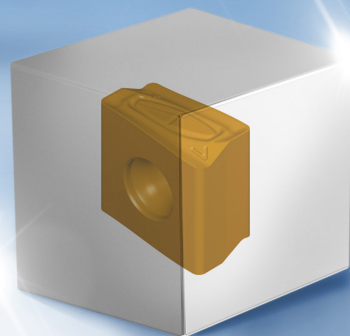
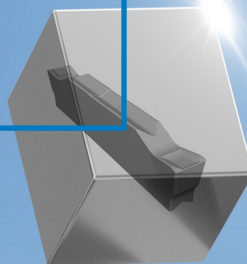
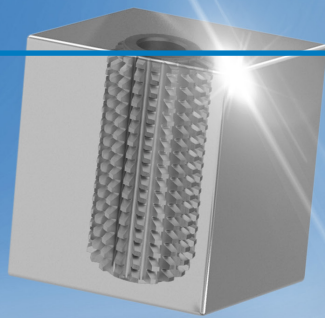


# boehlerit

## Toolmaker

The independent development  
partner for toolmaker



# Boehlerit – the independent carbide experts

Böhler AG began to produce carbide materials under the Böhlerit brand in 1932. When the company realigned the focus of its strategic orientation along its core competency of steel in 1991, Boehlerit was taken over by the Leitz Group, manufacturers of precision tools for timber and plastic machining. Since then the company has enjoyed significant growth, expanding into new business fields, innovative product developments and new subsidiaries in Europe and overseas employing a staff of more than 800 globally; and it has achieved a fourfold increase in turnover. Today, the name Boehlerit is an internationally renowned high-value brand, synonymous with innovative and future-oriented carbide and cutting materials for special quality tools. The company owes this international esteem to the loyalty of its customers.

## **Technological leadership in the production of carbide materials since 1932**

The Metallurgy Centre of Boehlerit soon took up fundamental research into machining processes and wear behaviour of cutting materials in cooperation with research partners. Boehlerit is involved in numerous projects geared at determining the technologies of the future and cooperates here with universities, academies, public research institutions and other companies of the Leitz Group.





## Expertise and core area for toolmaker

Thanks to its decades of experience, ongoing development of production procedures and advanced production systems, Boehlerit is in a position to meet special customer demands and requirements.

From minute carbide parts of less than one gram to huge parts weighing more than 100 kilos; from piece production to mass production; from special forms based on customer specifications to standard components ... Boehlerit provides it all!

Our strength is based in our powder production department, toolmaking, indexable insert production and forming.

### **THE independent development partner for toolmaker**

As a family-run business, Boehlerit is THE independent carbide partner of the tooling industry. High metallurgical flexibility, state-of-the-art pressing and grinding engineering plus all the latest coating technologies that are available at the development and production centre in Kapfenberg ensure top-quality indexable inserts for all the most exacting machining applications.

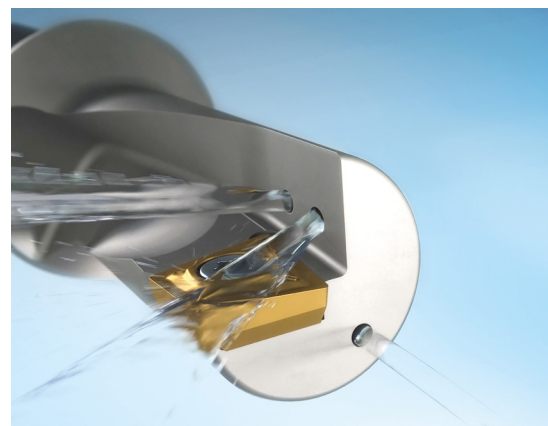


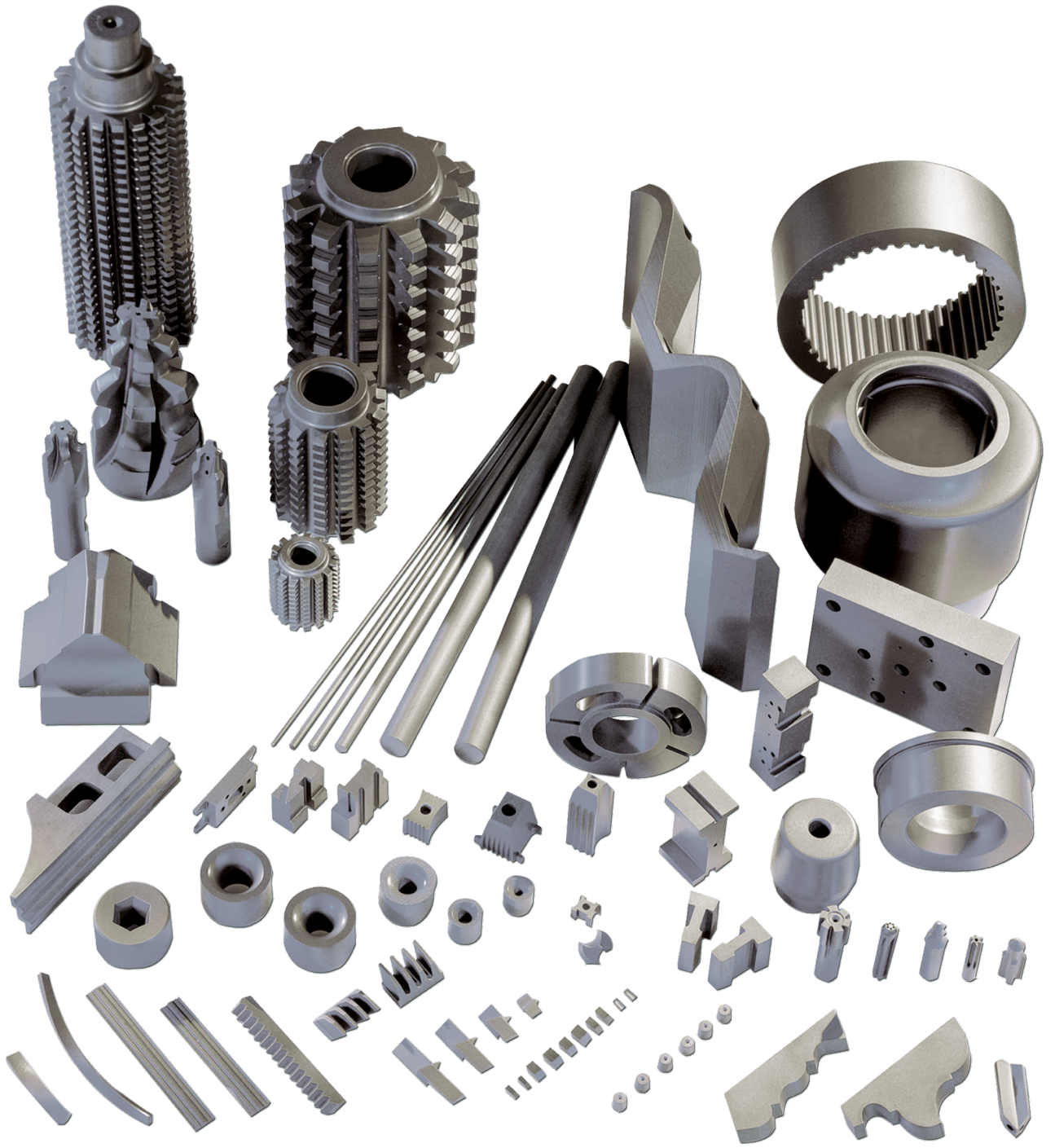
## Our product range for toolmaker

### Product range

- Milling
- Turning
- Grooving
- Reaming
- Threading
- Drilling
- Forming tools
- Carbide extensions
- Solid carbide hobs
- Carbide rods

- Customised design and production of indexable inserts and blanks
  - 20 standard carbide substrates for indexable inserts and up to 60 carbide grades including chipless forming and wear protection
  - The right coating for every machining requirement, 10 standard CVD coatings and 30 standard PVD coatings
  - Development of individual geometries, carbide grades and coatings
  - Customised carbide granulate
  - Rapid Prototyping
  - Machining tests and trials including test analysis and consulting
  - Direct support provided by the manufacturer
- Discretion is our business; we assure total product protection for toolmakers
  - Boehlerit stands for long-term partnership





## All technologies in-house



### 1. Powder production

In a production area spanning more than 2.000 m<sup>2</sup>, the highest metallurgical flexibility is ensured.

### 2. Toolmaking

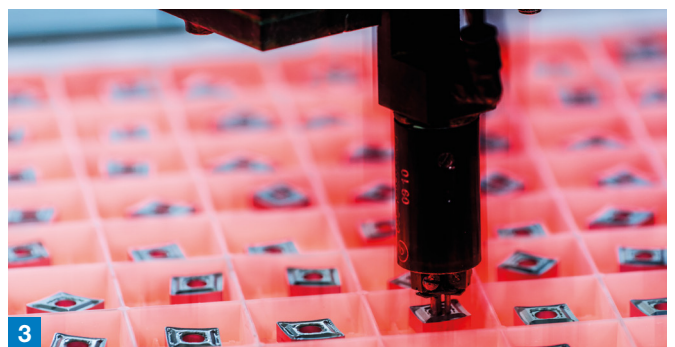
State-of-the-art pressing tools that are precise to the  $\mu\text{m}$  for the production of complex indexable inserts.

### 3. Indexable insert production

The latest press technology for precision manufacturing of complex geometries.

### 4. Forming

20.000 different types of carbide parts are produced every year.





## Pressing

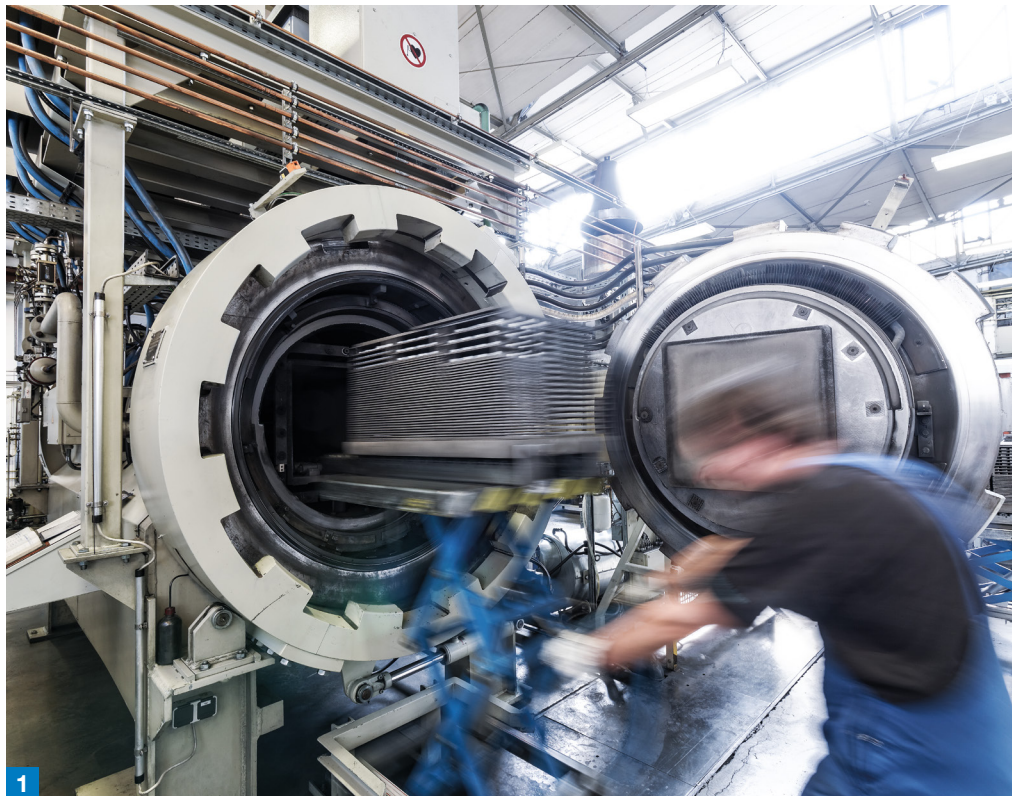
The expertise acquired through decades of granulate production and pressing tool building is precisely adjusted to the various pressing technologies and the carbide blank.

tion, to isostatic presses, monobloc presses, rotary presses for saw teeth and servo-electric presses where the most complex geometries from 1.5 g to 450 g indexable inserts can be pressed.

### State-of-the-art pressing technologies

From the largest press of the industry (650 tons) for cost-efficient production of large carbide products in serial produc-





## Sintering and coating

### 1. Sintering

With its process-optimised sintering procedures for a range of more than 60 different carbide grades, Boehlerit ensures the highest degree of metallurgical flexibility for its customers.

### 2. Coating

All modern coating technologies (HiPIMS PVD, HT-CVD and MT-CVD) for hard substance coating of indexable inserts are available at Boehlerit's coating centre.



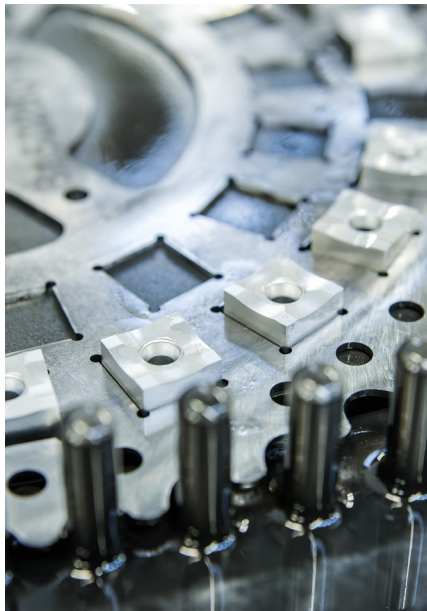


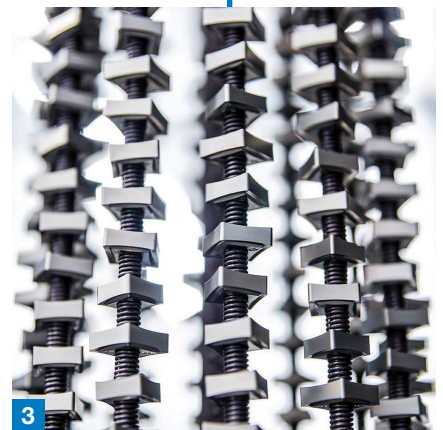
#### MACHINE FLEET

- Surface grinding machines
- 4-axis grinding machines
- 5-axis grinding machines
- Cylindrical grinders
- Wet honing equipment
- Dry honing equipment

## Grinders and cutting edge rounding equipment

More than fifty different grinders and equipment for cutting edge honing guarantee high precision products.





## Quality pushed to the limit

The demands of our customers define the development tasks of Boehlerit. Process-optimised production technologies – from our own powder production to the most advanced coating technologies – ensure a competitive edge for our customers in terms of productivity. The industry's most modern testing and packaging system for indexable inserts ensures 100% quality assurance in the  $\mu\text{m}$  range. The strictest dimensional checks and monitoring of metallurgical parameters ensure consistently high quality, a priority of Boehlerit.

### 1. PVD coating

The highest care and optimised mounting ensure the best, consistent coating results.

### 2. Die production

Manually polished and adjusted die sets ensure pressing tools precise to the  $\mu$  and thus burr-free pressing.

### 3. Charging

Special attention is paid to the optimum position when charging for various processes.



## Sustainability is not an empty promise

All-encompassing environmental protection is not only „greenwashing“ but every day reality and a fixed element of Boehlerit's corporate policy. The three practice-oriented focal areas here are: Development and production of recyclable quality products with the longest possible service life, production that is gentle on the environment and minimum environmental burden in the application of the products.

### **The world is only lent to us**

Boehlerit sets standards in environmental protection and safety at work. The carbide specialist was, for example, the first industrial operation in Upper Styria to be approved under the new Austrian environmental management law. Boehlerit has thus secured itself a place among the top Austrian companies.

### **The staff makes Boehlerit**

In line with the corporate philosophy of the privately managed family enterprise, the workforce holds the top position in the scale of values. The appreciation of each individual member of staff is made apparent in the fact that Boehlerit often employs three generations of one family.

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**boehlerit**