

# CERATIZIT Round Tool Solutions

High-tech solutions for  
private label partners

2019 EN



CERATIZIT is a high-tech engineering group specialised in tooling and hard material technologies.

**Tooling the Future**

[www.ceratizit.com](http://www.ceratizit.com)

# Dear customers,

CERATIZIT stands for unique expertise in powder metallurgy, innovative products and solutions based on cemented carbide, up-to-date modern technology and maximum reliability. This makes us the ideal partners for your successful private label.

Resulting from Günther Wirth Hartmetallwerkzeuge GmbH, founded in 1981, and KLENK GmbH, CERATIZIT Balzheim GmbH has supplied tooling solutions for private label partners to the highest standards of quality for over 35 years.

At our principal plant in Balzheim and other production sites in Germany, France, Poland, India, the USA and Mexico, we manufacture the complete product range of round tools for milling, drilling and reaming. The portfolio includes high-performance tools for a wide range of applications and materials.

In our modern and continually expanding production fields, we manufacture several million solid carbide tools per year.

As a private label manufacturer you will benefit from our R&D centre of excellence for tool geometries, coatings and customer applications, as well as from our 'Restore' service, which reconditions tools by regrinding so they recover the quality of the original. When it comes to warehousing and logistics we specialise in customer-specific labelling and packaging, so we are well able to offer you the all-round-package you require, from the ore right through to the cemented carbide. Just see for yourself!

**Yours,  
the CERATIZIT Balzheim GmbH team**

## CERATIZIT Group facts & figures



**1 headquarters**  
Mamer, Luxembourg



**33**  
production sites



**> 50**  
sales subsidiaries



**> 9,000**  
employees



**> 100,000**  
different products



**> 1,000**  
patents and utility models



**> 200**  
employees in R&D



**> 10**  
innovation awards



**30 %**  
new products developed in the last 5 years

# Passion for cemented carbide

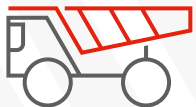
## From the ore to the ready-to-use tool

CERATIZIT is one of the few carbide manufacturers who manages the entire process chain single-handedly: from ore extraction to the ready-to-use product.

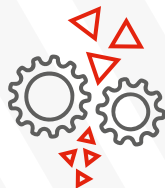
In the different areas that are involved, our highly qualified experts are familiar with every single step of the production process. With our ultra-modern machine park and great manufacturing depth, we guarantee that you will be able to count on a strong partner.

To ensure the high quality of our products and the environmental friendliness of our production methods, our processes are certified to DIN ISO 9001 standards.

What this means for you is that you will find the sum of all the skills of the entire CERATIZIT Group combined in each one of our products.



Mineral extraction



Preparation and mixing of the raw materials



Forming / pressing



▼ CERATIZIT produces more than a hundred carbide grades. In order to optimise different characteristics, like hardness, toughness or transverse rupture strength, the cobalt quantity and the WC grain sizes vary. This is a challenge by which we are driven every day. ▲



▼ The production of a cemented carbide blank is teamwork. First the powder mixture is pressed to make the blank, then the blank is machined and finally sintered at temperatures ranging between 1,300 and 1,500 Celsius and at a pressure of up to 100 bar. ▲



Sintering



Grinding



Quality assurance



Dispatch

# What we offer you

## Our portfolio for private label partners

When developing customer-specific tools we can rely on an extensive portfolio of state-of-the-art tooling specifications. Choose from a unique range

of geometries, carbide grades and coatings for milling, drilling and reaming in a variety of material groups.

<b>Application</b>	<b>Milling cutters</b>	<b>Drills</b>	<b>Reamers</b>
<b>Tool types</b>			
	<ul style="list-style-type: none"> <li>▲ Standard milling cutters</li> <li>▲ HPC milling cutters</li> <li>▲ Solid carbide milling cutters for plastics</li> <li>▲ Chamfer milling cutters</li> <li>▲ Deburring cutters</li> <li>▲ Ball nose and torus milling cutters</li> </ul>	<ul style="list-style-type: none"> <li>▲ Standard drills</li> <li>▲ HPC drills</li> <li>▲ Micro-drills</li> <li>▲ Pilot drills</li> <li>▲ HPC deep hole drills</li> <li>▲ Spot drills</li> </ul>	<ul style="list-style-type: none"> <li>▲ Standard reamers</li> <li>▲ HSC reamers</li> </ul>
<b>Cutting materials</b>	Cemented carbide, cermet		
<b>Coatings</b>	PVD, DLC and diamond coatings		
<b>Materials</b>	Steel / cast iron, stainless steel, non-ferrous metals, hardened materials, titanium, heat-resistant alloys and special alloys		



## Our range of special tools

When it comes to customer-specific applications, our experience, customer focus and expertise in development are particularly evident. We will help you to develop customised special tools, based on your drawings and tailor-made to meet the needs of your customers – all with your own label and your specific packaging.

Our tooling solutions for private labels are used throughout the world in the aerospace and automotive industries, as well as in mechanical engineering and dentistry. For the dental industry we offer biocompatible tools and coatings with accredited in-vitro cytotoxicity certification.

# Our solution – your product

## Development and design of customer-specific cutting tools

With decades of experience in the design and production of cutting tools, and more than 300 tool families for drilling, milling and reaming, we are experts in the manufacture of round tools.

Our research and development sector is staffed by specialists in geometry, coating and tool design, ensuring that we can respond quickly at all times to your product requests for serial or special tools.

To meet your requests we rely on CAD design, simulation of tooling geometries, a professional project management team and digitalised processes. Apart from this we have an in-house machine park to carry out functional checks and benchmark and endurance tests.

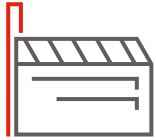
All our processes are subject to DIN ISO 9001/50001 quality management, so you can be sure that all private label tools from CERATIZIT measure up to the highest standards of quality.



### Comprehensive product expertise

- ▲ Every single article is identified by an article number and production specifications.
- ▲ Master data for cross-media use are available for all products.
- ▲ For every serial product supplied, a double-checked table of cutting data is available.
- ▲ 2D, 3D drawings and CAD models are available for all products, e.g. in the form of STEP files.





### Supply chain

- ▲ CERATIZIT Balzheim GmbH makes a point of on-time delivery. No matter what the batch size, we guarantee our customers a fixed replenishment lead time for both serial and special products.
- ▲ To make this possible we rely on an up-to-date modern machine park of more than 100 CNC machines for production every day.
- ▲ To simplify the purchasing process, all kinds of EDI links to SAP are provided.



### Individual labelling

- ▲ Depending on your preference, we will supply your products either with laser marking or in a neutral design, though always with your individual packaging label.
- ▲ All our tools come with batch labelling.
- ▲ Smart, reliable and tested and in case of need we can also be flexible: that is how we package all our standard and special products.
- ▲ The entire packaging and labelling process is also handled by SAP.



# Equipment and service: optimally adapted to your needs

Whether for production, development or innovation – at CERATIZIT Balzheim everything is state of the art. Production relies on a fully equipped CNC machine park, while the tooling lab looks after testing and documentation of the results.

And it isn't just the equipment – the service you receive from our cutting tool specialists is no less important. They can assist you with their expertise if you have any questions or train your team directly on site in Balzheim.





At our **Technical Service Centre (TSC)** application engineers and specialists are on hand to answer your technical queries, draw up quotes and offer help when problems arise. You reach them via phone, e-mail or on site at any time of day.

Your individual contact person at the Customer Service Centre will be happy to answer your questions about order processing and delivery schedules. For standard products, you will generally be sent the order confirmation, including the confirmed delivery date, on the same day.

## RESTORE

### **Our regrinding service for your private label tools**

At some point even the best solid carbide tool reaches the wear limit. Then it is time for our regrinding service giving you a reconditioned tool which has all the quality of a new one.

This service is a sustainable addition to our resource-conserving production process, which is certified to EN ISO 14001:2004 + AC:2009.

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