CUTTING SOLUTIONS BY CERATIZIT

YOUR CREATIVE PARTNER

FOR COMPETENT DIALOGUE

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CUTTING SOLUTIONS BY
CERATIZIT

Herbert Ronacher, Product Manager Parting & Grooving

CUTTING SOLUTIONS BY CERATIZIT

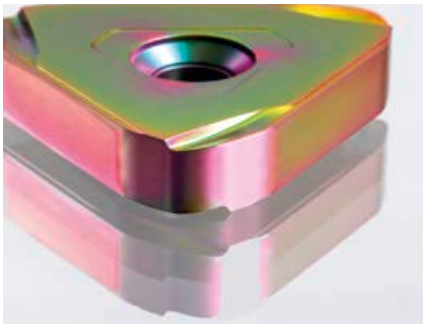
The top-class brand Cutting Solutions by CERATIZIT offers you a **comprehensive range of premium standard products** for the cutting tools sector: benefit from inserts and solid carbide tools with maximum precision and best performance. As a creative partner, we develop **industry-specific applications and individual solutions** in consultation with you. Trust in services which guarantee a real added value and quality from the raw material to the ready-to-use tooling solution.

“WHY CUTTING SOLUTIONS BY CERATIZIT IS THE BEST PARTNER FOR ME”

We are aware that our customers only want the best. Allow us to give you **five top-class reasons** why choosing one of the worldwide leading companies for carbide solutions as a partner is of benefit to you.

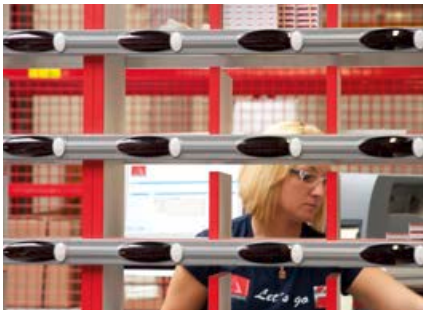
GUARANTEED **QUALITY STANDARD:**

As we at Cutting Solutions by CERATIZIT manage the **entire process chain of carbide production** whilst also constantly ensuring precision and performance of the highest level. Our quality promise to you is a premium-class cutting tools solution with **maximum tool life and optimal process security,** which guarantees added value both technically and economically.



UNIVERSAL **EXPERTISE IN SOLUTIONS:**

As you receive products from us which increase the **economic efficiency of your production:** for standard tools with an attractive price-performance ratio to **industry-specific and individual product innovations**. As a creative partner, we consult with you and therefore understand what your requirements are. Accordingly, we assuredly develop the right solution for your challenges.



RELIABLE **LOGISTICS:**

As you benefit from a logistics centre **which sets standards throughout the world** and keeps costs low thanks to harmonised processes. You can rely on **maximum availability** of the products which we deliver to you in minimum time and just in time to your desired destination.

TOP-CLASS **SERVICE:**

As you have the possibility to expand your knowledge about your tools and machining processes at our test and training centres, which leads to your **production being even more efficient** and to the development of new tooling solutions together with us. Furthermore you can benefit from special services like our **regrinding service,** which helps to reduce production and tooling costs. Additionally, you can even have **customised total concepts** created.

EXPERT **CONSULTATION:**

As your consultant partners and application engineers, we speak your language and provide support enriched by know-how, experience and passion. Our expertise in solutions will be evident in our consultation with you: it is always our top priority to understand **your requirements** in order to find the best solutions in cooperation with you. In addition, you will have the opportunity to consult **highly competent commercial partners** on site or to use our top-class online services 24/7.

>90 YEARS OF EXPERIENCE

>20 PRODUCTION SITES WORLDWIDE

>100 EMPLOYEES IN R&D

>5,800 CARBIDE EXPERTS

>10,000,000,000 SINTERED PARTS SOLD

€ >800 mill. SALES OF €800 M IN 2014

>90,000 ARTICLES IN THE PRODUCT PORTFOLIO

600 PATENTS

Let's talk!

CERATIZIT HIGHLIGHTS – MORE THAN A BRAND

Cutting Solutions by CERATIZIT is a top-class brand of the CERATIZIT GROUP. Our brand promise is supported by **a strong and creative partner** who has only one goal: to achieve the best for you together!

“ONLY SOMEONE WHO MANAGES AND CONTROLS THE ENTIRE PROCESS CHAIN CAN GUARANTEE YOU PREMIUM QUALITY.”

Dr Christoph Czettl, Manager of R&D for Coatings & Substrates

GUARANTEED
QUALITY STANDARD

In order to achieve premium quality at a consistently high level, we must ensure that every step of the manufacturing process of our tooling solutions meets the **highest standards.** The top-class brand Cutting Solutions by CERATIZIT relies on the metallurgic competence of the CERATIZIT GROUP, which enables us to manage and control the entire process chain of carbide production.

From the powder to your product solution

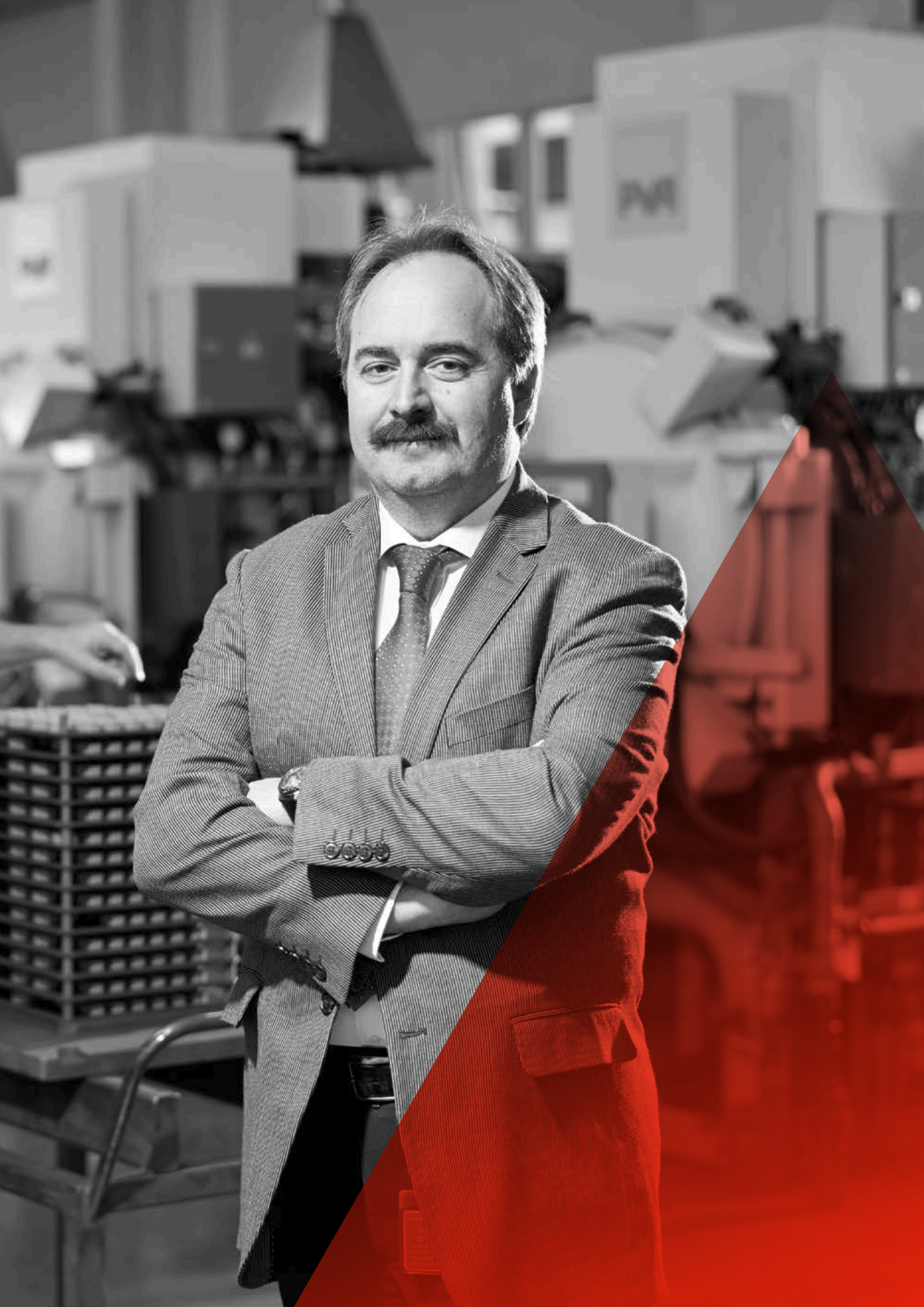
We extract the raw materials from mineral ores, analyse the composition of the carbide powder, undertake the preparation and forming process and subsequently sinter the high-quality tools in our most up-to-date facilities – always **with the aim of fulfilling your requirements.** In order to guarantee the **precision and performance** of your final cutting solution, we provide your products with a perfect form, grind them with exactly the same precision and refine their surface with innovative coatings. In these procedures and machining phases, the CERATIZIT GROUP is one of the forerunners of the industry.

Quality is created together

Ultimately, you as the customer define the quality you desire, and this is why our customer consultants and application engineers from Cutting Solutions by CERATIZIT will find **the perfectly right solution** to meet your demanding criteria **in cooperation with you.** No matter whether you then choose a product from the standard range or require an individual product innovation: at the end of our complete production chain there will be a tooling solution which guarantees you **maximum tool life, maximum process security,** optimised productivity and **added value, both economically and technically.**

“OUR BRAND PROMISE TO YOU IS TECHNICAL PERFORMANCE CAPACITY, INNOVATIVE STRENGTH AND ECONOMIC EFFICIENCY FOR YOUR PRODUCTION.”

Dr Uwe Schleinkofer, Head of R&D



Remus Venturini, R&D Cutting Tools

EXPERTISE
IN SOLUTIONS

Benefit from the comprehensive range of standard products such as inserts and solid carbide tools. Avail yourself of **industry-specific developments or special solutions individually optimised for you**. No matter whether drilling, turning, milling, parting and grooving or multifunction applications: Cutting Solutions by CERATIZIT will provide you with everything from one single source.

Premium standard range – available worldwide

Count on tried-and-tested products which have already proven their reliability in application to carry out your machining tasks: Cutting Solutions by CERATIZIT offers you over **25,000 universal solutions with great availability.** Experience consistent quality and attractive price-performance ratio every time. We optimise our tools and cutting materials continuously, setting ourselves apart through improved performance and creating new market standards.

Turning

Choose the optimal combination of inserts and clamping systems or adapters for your turning applications. The carbide grades available guarantee productivity, precision and process security for all relevant materials during manufacture. Using the MaxiLock D clamping system, you will be able to position the insert securely and precisely. Benefit from a quick insert change and good chip evacuation. The optimised coolant supply of our HSK-T tooling range additionally guarantees perfect repeatability and hence even more efficient processes.

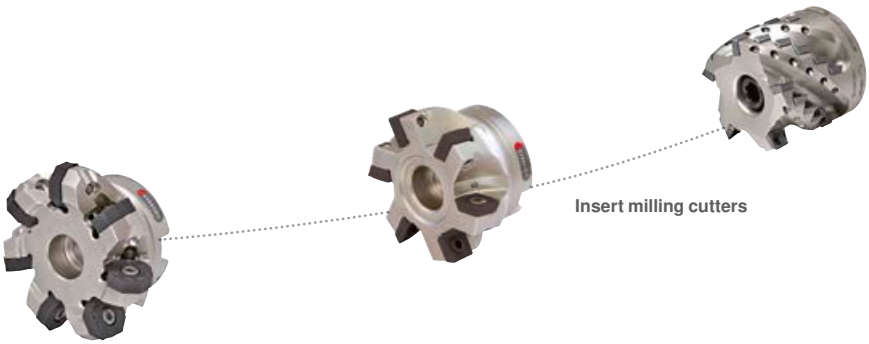
Clamping systems

Adapters

Milling

The new solid carbide milling cutters for a wide selection of materials complete the established MaxiMill insert cutter range. No matter whether efficient face milling, shoulder and slot or profile milling, you will achieve maximum metal removal rates with both product lines. Together with minimum vibration, this ensures that the surface quality produced is excellent and all your demands concerning the component are satisfied.

Solid carbide milling cutters

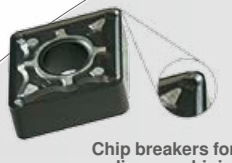


Insert milling cutters

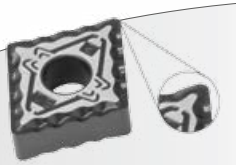
TURNING

Turning
Face turning
Profile turning
Threading

Chip breakers for rough machining



Chip breakers for medium machining



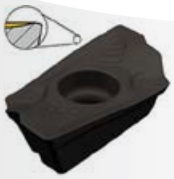
Chip breakers for finishing

MILLING

Face milling
Shoulder milling
Slot milling
Form milling
Turn milling
Profile milling
Hob milling
High-feed milling

Chip breakers for finishing

Chip breakers for medium machining



Chip breakers for rough machining

The materials to be machined:
steel, stainless steel, cast iron, non-ferrous metal (e.g. aluminium, composite materials, hard materials, high alloyed materials, titanium and titanium alloys).

MULTIFUNCTION TOOLS

EcoCut

Multifunction tools: EcoCut and ProfileMaster

With only one tool you can carry out several machining operations. Whatever the operation, drilling into solid material, internal turning, face milling or external turning, you will increase process stability with EcoCut thanks to reduced vibration and longer tool life. The inserts optimised for EcoCut are made of high performance grades which are suitable for a broad range of applications. Save up to 45% machining time.

ProfileMaster

Using ProfileMaster you can drill, turn, part-off or groove economically with only one tool. Reduce your inventory and make stock management easier while reducing capital commitment. Our standard concept will enable you to save on programming and set-up time as well as tool positions in the turret.

Straight cutting edge

Convex cutting edge

Concave cutting edge

Drilling
Spot drilling
Countersinking
Deep hole drilling

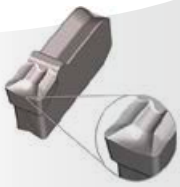
DRILLING

PARTING AND GROOVING

Part-off
Grooving
Parting, grooving and turning
Profile grooving
Deep grooving

Chip breakers for rough machining

Chip breakers for medium machining



Chip breakers for finishing

Solid carbide drills

Insert drills

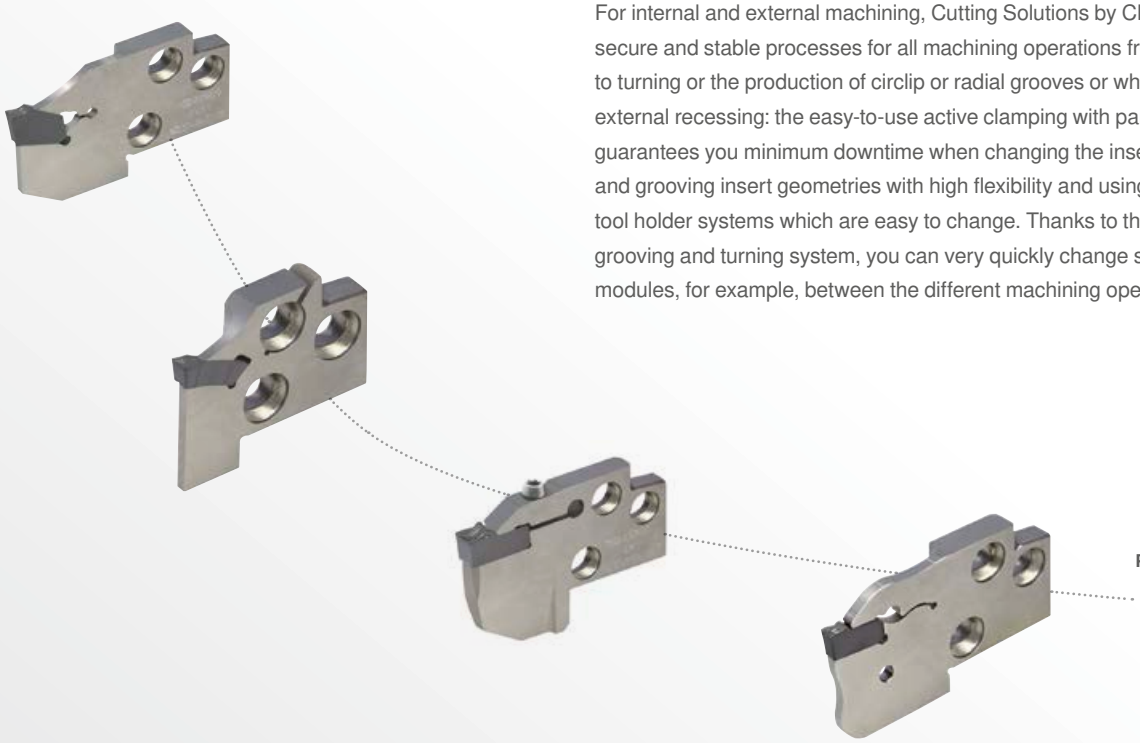
Drilling

MaxiDrill insert drills meet all the challenges of standard applications to high-performance requirements when drilling into solid material. The patented insert system ensures easy handling and reduces storage costs: both the peripheral and the central cutting edges are designed to have the same geometry, size and grade: the perfect system solution.

Our solid carbide drilling range offers you solutions for the entire range of precision spot drills, high-performance twist drills to deep hole drills and reamers for the most important materials in your production. Reduce your production costs thanks to short process times and maximum metal removal rates. Consistent surface quality means increased productivity and better quality for and from your production.

Parting and grooving

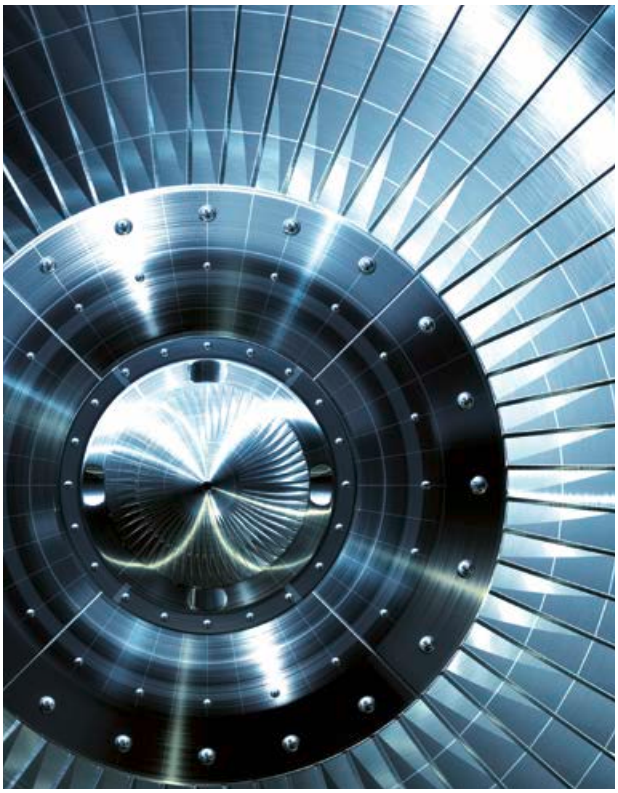
For internal and external machining, Cutting Solutions by CERATIZIT guarantees secure and stable processes for all machining operations from parting and grooving to turning or the production of circlip or radial grooves or when axial grooving and external recessing: the easy-to-use active clamping with parallel clamping faces guarantees you minimum downtime when changing the inserts. Combine parting and grooving insert geometries with high flexibility and using secure and precise tool holder systems which are easy to change. Thanks to the universal GX parting, grooving and turning system, you can very quickly change specially designed modules, for example, between the different machining operations.



Parting and grooving modules

Solutions for specific industries – your requirements are decisive for us

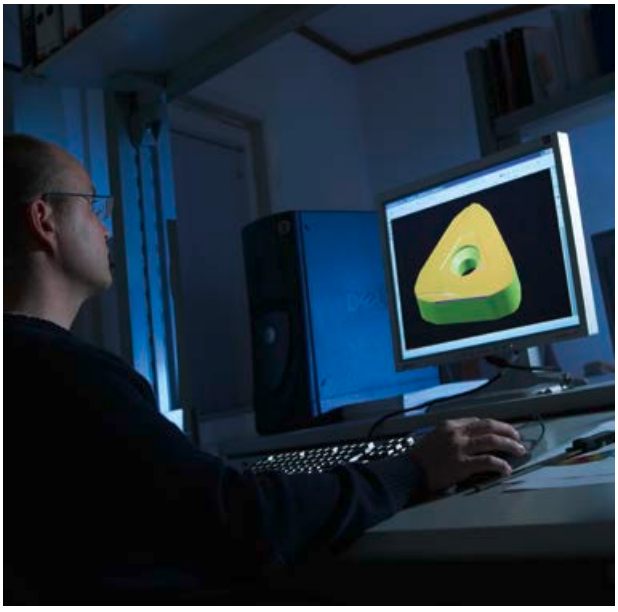
Every industry has specific demands. You certainly demand the maximum in cutting performance and wear resistance as well as precision and the quality of the tools and materials. No matter whether mechanical engineering or tool construction, power and transportation engineering – from the machining of high alloyed steels and super alloys to titanium machining: as the leading supplier of solutions for numerous industry-specific applications we use our know-how to provide you with innovative advice and support. In consultation with you, we will create a **successful concept to optimise your production.** Benefit from our development partnership.

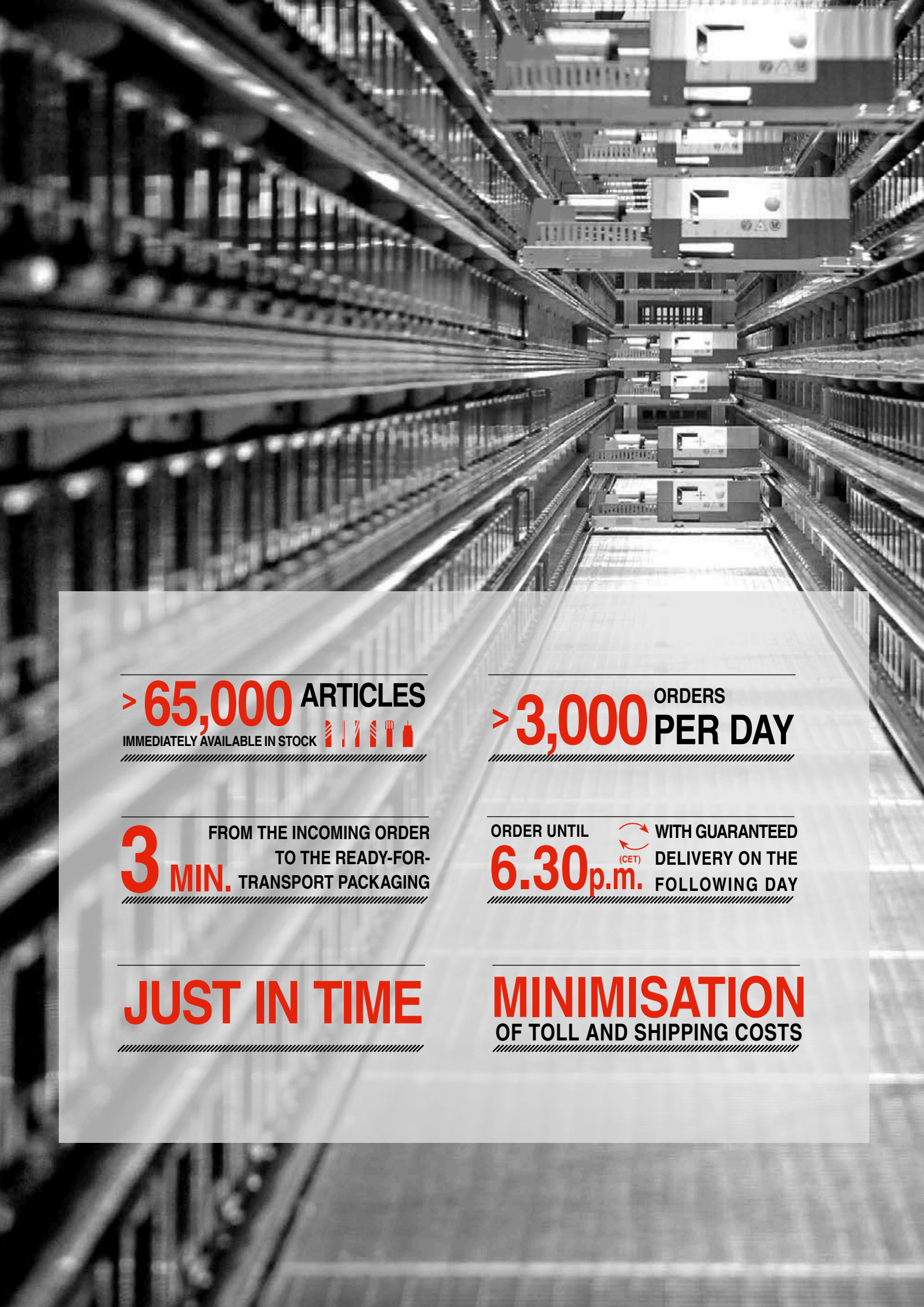


Your individual development – let's talk!

Do you have to face new challenges over and over again? Do you need to improve production or reduce costs or create innovations? Then rely on Cutting Solutions by CERATIZIT.

Because we love challenges! As we manage the entire process of carbide production, we are not only able to develop, upon request, **completely new and individual solutions** – even at short notice – but can also implement them **in serial production.** Our expertise in solutions includes the capacity to analyse existing products, to optimise or even to create product innovations from scratch. This is how our product range is continuously adapted to meet your demands.





> 65,000 ARTICLES
IMMEDIATELY AVAILABLE IN STOCK

> 3,000 ORDERS PER DAY

3 MIN. FROM THE INCOMING ORDER TO THE READY-FOR-TRANSPORT PACKAGING

ORDER UNTIL 6.30 p.m. (CET) WITH GUARANTEED DELIVERY ON THE FOLLOWING DAY

JUST IN TIME

MINIMISATION OF TOLL AND SHIPPING COSTS

RELIABLE LOGISTICS

Professional solutions require professional logistics: from storage to stock management, packaging and dispatch, the processes at our logistics are standardised in order to be able to offer you **optimal customer service at minimum costs.** To ensure that the right product arrives at the right time, our entire supply chain is optimised: we use up-to-the-minute software that coordinates the best transport service providers in the sector.

“THE BEST LOGISTICS SERVICE FOR YOU MEANS MINIMAL COSTS AND ABSOLUTE RELIABILITY. FOR US IT MEANS THAT THE PROCESSES OF OUR SUPPLY CHAIN ARE CONTINUOUSLY OPTIMISED AND STANDARDISED.”

Simon Jost, Managing Director CERATIZIT Logistik GmbH

TOP-CLASS SERVICE

The expertise in solutions of Cutting Solutions by CERATIZIT is not limited to our products. Rely on competent service from customer advice and after-sales service to training courses.

“ACTIVE COOPERATION FOR US MEANS CONNECTING OUR KNOW-HOW WITH YOUR SPECIFIC KNOWLEDGE IN CONSULTATION WITH YOU.”

Mario Wolf, Product Manager Milling

Tooling Academy – how well do you know your tools?

Get to know your tools in detail – watch them during the respective applications on machines which today are used in all production departments. As your creative partner, **we actively contribute our know-how to your processes**: to do so, at our Tooling Academy we have established up-to-date machining centres for tests and training courses and the latest analysis technology. In collaboration with you, we analyse the machinability of the materials and workpieces. Based on the findings of simulation and practical tests, we then deduce specific tool recommendations or develop specific tool solutions for you.

RESTORE – individual regrinding service

Benefit from the performance, which virtually corresponds to the performance of a new tool, at a fair price. In our RESTORE service, your solid carbide tools are tested, reground and, if required, also coated. For you, this means clearly **reduced production and tooling costs.** Thanks to our strict quality controls, process security is nevertheless guaranteed. Feel free to contact us! Upon request you will immediately receive the RESTORE service box for the safe transport of your tools.

OEM service: exactly your concept

With our OEM service, we offer you **customised total concepts** and tool packages for the optimal machining of complete workpieces on your machine. Learn exactly what machining and tooling costs and the performance characteristics of your tool package will be.

“INTENSIVE CONSULTATION WITH YOU AS OUR CUSTOMERS IS A TOP PRIORITY: WE ALWAYS FOCUS ON UNDERSTANDING FIRST, AND THEN PROVIDE ADVICE AND ARE THEN VENDORS.”

Andreas Graf, Sales Manager Central Europe

Our consultation with you is very important for our sales representatives and application engineers: as consultants we can offer you excellent solution and service expertise. Simultaneously, **consultation with you** provides important feedback and valuable suggestions. As our customer, you have the option of deciding upon which method of consultation suits you best:

Straight to target!

Your technical customer advisers and the experts from the **Customer Service Centres (CSC)** are available throughout the world and across all industry sectors: discuss solutions together with them and then make your decision based upon this. As a personally committed partner, we support you in realising your goals.

Your local trading contact

Benefit from the local availability we offer as we collaborate closely with particularly trained and selected **partners in the tooling or production-related trade**. These reliable contact persons will provide you with personal advice aimed at granting you the best solution and technical know-how as well as the **readiness to consult you.** In this way, they expand our know-how through additional practical experience in the respective area.

E-Business – anytime, anywhere

Do you need the right tooling solutions immediately? Simply order 24/7 at our **E-TECHSTORE:** on our online platform you will find an extensive range of standard and special products with direct information about availability of stock. Or, configure your **customised semi-standard solid carbide tool** with only a few mouse-clicks via the online module 'CONFIGURATE'.

COMPETENT
DIALOGUE

Headquarters:

CERATIZIT S.A.
LU-8232 Mamer
T. +352 31 20 85-1
E. info@ceratizit.com

www.ceratizit.com

Austria
CERATIZIT Austria GmbH
AT-6600 Reutte
T. +43 5672 200-0
E. info.austria@ceratizit.com

Brazil
CERATIZIT América Latina Ltda.
BR-06453-002 Barueri, São Paulo
T. +55 11 4133 2300
E. info.americalatina@ceratizit.com

Bulgaria
CERATIZIT Bulgaria AG
BG-5301 Gabrovo
T. +359 66 812 206
E. info.bulgaria@ceratizit.com

China
CB-CERATIZIT Tianjin
CN-300384 Tianjin
T. +86 22 5810 7000

Czech Republic /Slovak Republic
CERATIZIT Office Czech Republic
CZ-594 01 Velké Meziříčí
T. +420 566 520 341
E. info.czechrepublic@ceratizit.com

France/Luxembourg/Belgium
CERATIZIT Luxembourg S.à r.l.
LU-8232 Mamer
T. +352 31 20 85-1
E. info@ceratizit.com

Germany
CERATIZIT Deutschland GmbH
DE-72186 Empfingen
T. +49 7485 99802 0
E. info.deutschland@ceratizit.com

Great Britain
CERATIZIT Office UK
UK-Sheffield S9 1XU
Toll Free 0800 048 4877 / 4878
T. +44 1925 261 161
E. info.uk@ceratizit.com

Hungary
CERATIZIT Office Hungary
HU-1138 Budapest
T. +36 1 437 0930
E. info.hungary@ceratizit.com

India
CERATIZIT India Pvt. Ltd.
IN-Bengaluru 560099
T. +91 80 4043 1262
E. ctindia.south@ceratizit.com

CERATIZIT India Pvt. Ltd.
IN-Chennai 600037
T. +91 44 4269 4350
E. ctindia.south@ceratizit.com

CERATIZIT India Pvt. Ltd.
IN-Coimbatore 641009
T. +91 4224 273 373
E. ctindia.south@ceratizit.com

CERATIZIT India Pvt. Ltd.
IN-Gurgaon 122002
T. +91 124 4018 481
E. ctindia.north@ceratizit.com

CERATIZIT India Pvt. Ltd.
IN-Pune 411018
T. +91 20 6529 0628
E. ctindia.west@ceratizit.com

Indonesia
CB-CERATIZIT Indonesia
ID-17530 Bekasi
T. +62-21-2961-2351

Italy
CERATIZIT Italia S.p.A.
IT-22040 Alserio (CO)
T. +39 031 6349 211
E. info.italia@ceratizit.com

Mexico
CERATIZIT México, S.A. de C.V.
MX-76040 Querétaro, QRO
T. +52 442 225 9173
E. info.mexico@ceratizit.com

Netherlands
CERATIZIT Nederland B.V.
NL-4707 AT Roosendaal
T. +31 165 55 08 00
E. info.nederland@ceratizit.com

Poland
CERATIZIT Office Poland
PL-30-443 Kraków
T. +48 12 252 8591
E. info.polska@ceratizit.com

Spain / Portugal
CERATIZIT Ibérica S.L.
ES-28031 Madrid
T. +34 91 351 0609
E. info.iberica@ceratizit.com

Taiwan
CB-CERATIZIT Tamsui
TW-25152-Tamsui
T. +886 2 2622 1668

USA / Canada
CERATIZIT USA, Inc.
US-Warren, MI 48089-1833
Toll free +1-800-783-2280
T. +1-586-759-2280
E. info.usa@ceratizit.com

15033 - EN \ Subject to technical changes and improvements in production.

CERATIZIT GROUP

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