

Premium blanks for rotary cutters



CERATIZIT is a high-technology engineering group specialised in cutting tools and hard material solutions.

Tooling a Sustainable Future

ceratizit.com





Rotary cutter blanks for the most demanding requirements

If you process rotary cutter blanks which are used for the production of hygiene articles or packaging solutions ... or are looking for premium products which impress with their long service life and precision ... or if you are in search for the best individual solution for you – then Hard Material Solutions by CERATIZIT provides you with tailor-made carbide blanks, even for the most demanding requirements in terms of dimension and geometry.

Created by the pioneer with over 95 years of experience in carbide manufacture, and well-thought out by the technology leader who manages the entire process chain of cemented carbide production, from the raw material to the premium blank – customers appreciate the unique hard material quality which results in more efficient processes while increasing productivity and added value.

Sophistication as a standard

Your wish is our guideline: you make your model available, and CERATIZIT will deliver – always under the premise of strict confidentiality! At company headquarters in Mamer, Luxembourg, our experts will create your rotary cutter blank with up to 20 mm cutting height, which can be reground. High-volume components are part of the day's work for us. Our production line allows for diameters up to 610 mm and heights up to 500 mm. Internationally renowned brands benefit from customer-specific solutions delivered within only a few weeks.



Together towards profitable growth: we can give you the decisive competitive advantage.

Individual

You will receive exactly the right solution for your needs: every rotary cutter blank is developed under maximum confidentiality and results from the 2D or 3D specifications you provide. You can choose between the blank and partly ground product. If required, the blank can be provided with pockets, axial and radial holes or milling cutouts, and of course brand logos can be milled as well. Matching side rings (which can also be ordered as single items), rotary anvils and cutting inserts complete the range.

Highly resistant

Cutting pulp materials causes high wear, so particularly hard tools have to be used. Where high stress occurs, cemented carbide is your solution of choice. Compared to products made of tempered steel, carbide tools have a considerably longer life, which results in a better cost-benefit ratio. With CERATIZIT products, over 100 million cutting operations are virtually standard. When the cutting edge is worn, it can normally be reground five to six times before the tool has to be replaced.

Highly precise

The cutting edges of CERATIZIT blanks are manufactured with precision and near netshape. This is why finish machining to achieve your specific final product can be carried out rapidly and productively. Dimensional tolerance of +/- 0.1 mm is standard, though when necessary we can also produce smaller tolerances. When it comes to form accuracy, a tolerance of 0.008 mm is achievable.

Stability and precision combined for your optimum tool production.

Advantages and benefits

The all-round package with no worries: from the blank to the return of the cemented carbide after the cutting edge has worn out, we have been your premium partner for more than 95 years.



Advantages

Benefits

Minimum grinding allowance.

> Less outlay/time/costs of further processing.

Highly qualified employees, numerous manufacturing possibilities, up-to-date facilities (sinter furnace, presses, CNC machines).

> Customised production of the most complex geometries and large dimensions; our production line allows for diameters up to 610 mm and heights up to 500 mm.

More than 100 million cutting operations for cutters made of our carbide are not unusual.

> Higher productivity thanks to longer tool life and less downtime compared to steel.

The cutting edges can be reground several times.

> Better cost-benefit ratio as compared with steel.

Flexible production planning with efficient data interchange.

> Short delivery times – no matter how demanding.

CERATIZIT commands the entire production chain.

> Premium quality and process reliability formatching carbide grades (also corrosion-resistant when needed).

**Premium blanks
for your application**

**Ladies' hygiene
products**

**Cosmetic
pads**

Nappies

Our products at a glance:

The most suitable solution for every industry

Every day companies produce several million pulp products. To produce these articles with maximum efficiency, rotary cutting tools offering excellent process reliability are required. These can be manufactured quickly and easily from carbide blanks.

Process reliability right from the beginning – with Hard Material Solutions by CERATIZIT.

- ▲ Hygiene industry (pulp materials, e.g. nappies, sanitary towels and cotton pads)
- ▲ Packaging industry (e.g. cardboard boxes)
- ▲ Medical sector (e.g. poultices)

Hard metal rotary cutter
HMRC



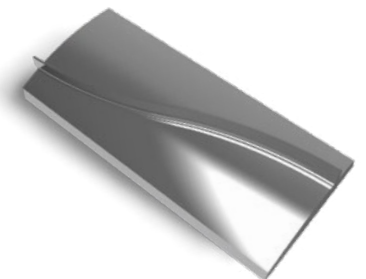
Hard metal rotary anvil
HMRA



Hard metal side ring
HMSR



Hard metal segment
HMSE Other parts (e.g. knife blades)



Hard Material Solutions

Hard cases are our speciality

We are your ideal partner when it comes to **high-quality hard materials for production processes, tool manufacturing and wear protection.**

From standard products to tailor-made solutions, from massive components to minute parts, from the blank to the fully finished product – a product that meets the highest standards of precision, surface treatment, and user-friendly assembly – our carbide solutions ensure improved efficiency and outstanding total cost of ownership.

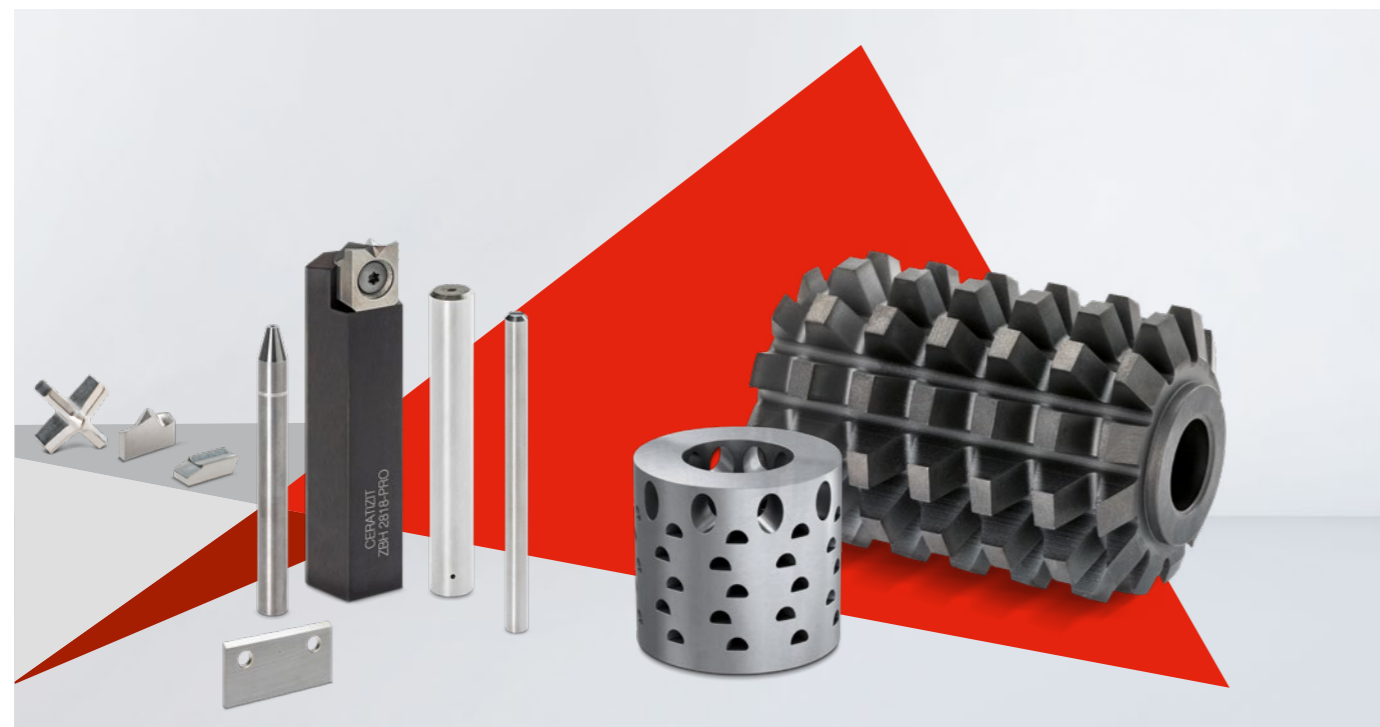
This is the case in a variety of application fields and industrial sectors. Even when subjected to extreme stress, our cemented carbides are notable for the high flexibility they offer in numerous industries. Our products are specially designed for extreme working conditions, making our Hard Material Solutions impressive tools for optimising your processes and increasing wear resistance.

Product portfolio

- ▲ Blanks and semi-finished products
- ▲ Water jet nozzles
- ▲ Blanks for hobs
- ▲ Drawing tools and drawing nibs

Solutions for:

- ▲ Tool and die industry
- ▲ Fastening industry
- ▲ Injection technology
- ▲ Health industry
- ▲ Plastics industry



CERATIZIT Group

For over 100 years, CERATIZIT has been a pioneer in developing exceptional hard material solutions for machining and wear protection. The private company, with registered offices in Mamer, Luxembourg, develops and produces highly specialised cutting tools, indexable inserts, rods made from hard materials and wear parts.

The CERATIZIT Group is the global market leader in various application segments and successfully develops new carbide and cermet grades, such as for wood and stone working.

Facts and figures

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