Specialist for customised blanks and semi-finished products

CERATIZIT is a high-tech engineering group in tooling and hard materials technology.

Tooling the Future.

www.ceratizit.com
Together towards profitable growth: we can give you the decisive competitive advantage.
Custom blanks and semi-finished products exactly according to your requirements: fast, flexible, straightforward

Hard Material Solutions by CERATIZIT at the Hitzacker site in Germany offers a wide range of custom blanks and semi-finished products for a variety of applications.

Our long-time customers particularly appreciate our short response and delivery times, as well as the diverse production possibilities: we even manufacture complex components along with small, long, thin and delicate parts with high precision according to customer drawings.

We also produce small batch sizes without additional set-up costs for you.
Advantages & benefits

### Advantages

#### Profitability
- Production of small batch sizes in no time without additional set-up costs
  - economical prices, quick and flexible delivery reduces inventory costs

- Near net shape production possible depending on part and grade, small components made from material with low cobalt content can be manufactured without grinding allowance
  - economical and quick machining of carbide blanks and semi-finished products

- In-house development, manufacturing and detailed quality analysis within the CERATIZIT Group guarantees highest product quality
  - high-quality and individually adapted carbide grades guarantee long tool life and save on production costs

#### Technical competence
- Centre of excellence in Hitzacker for carbides with high cobalt content
  - individual development and high-precision production possible according to customer drawings; consulting in design development to optimise the application

#### Safety
- Consistent processes in production and know-how accumulated over decades in all manufacturing and machining technologies
  - low tolerances and consistent quality of the blanks as well as stable forming processes at the same parameters
Hard Material Solutions by CERATIZIT offers a wide range of diverse carbide blanks.

In addition to the standard type (round with cylindrical hole), our portfolio also features small parts, long and thin components, thin-walled sleeves, but also complex components with complicated profiles.

Our carbide grades

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<th>Grade</th>
<th>ISO code</th>
<th>Binder (in %)</th>
<th>HV10</th>
<th>HV30</th>
<th>HRA</th>
<th>Transverse rupture strength MPa</th>
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Customised blanks and semi-finished products according to your requirements
Economical and fast

We produce smaller components made of material with low cobalt content with little to no grinding allowance, so that you can start to use the components straight away - this way, additional complicated and cost-intensive finishing operations are no longer necessary.

We generally manufacture individual products according to 2D customer drawings and specifications – even in small batches with no additional set-up costs.

We use modern CAD/CAM solutions in operations scheduling as well as in production so that we can also produce complicated components almost as quickly as those from the standard product portfolio.

Application areas

Blanks from Hard Material Solutions by CERATIZIT are particularly suited for the following materials:

- Stainless and non-stainless steels
- Non-ferrous metals

Our products can be used in a broad range of industries, e.g.

- Mechanical engineering industry
- Automotive industry
- Medical systems
- Wire production
- Electric and electronic industry
- Nail and rivet production
- Mining, road construction
- Bearings industry
- Tool and die construction
Sophisticated

In close collaboration with our customers, we also create 3D models wherever necessary in order to clarify technical questions before production and to thereby secure an optimal end result.

We use modern turning and milling machines for complex components. There are almost no restrictions to our production, as we can machine components on up to five axes simultaneously.
Hard Material Solutions by CERATIZIT

Wear protection for all application and industries

Customer-specific carbide solutions for your application
Tools for metal forming
High-performance components for the tool and die industry

Our product portfolio

Specialist for customised blanks and semi-finished products
Solutions for the tool and die industry
Water-jet cutting Carbide focusing tubes

www.ceratizit.com/blanks
CERATIZIT Group
Carbide pioneer and global player

For over 90 years, CERATIZIT has been a pioneer in the development of exceptional hard material products for cutting tools and wear protection.

The privately owned company, headquartered in Mamer, Luxembourg, develops and manufactures highly specialised tungsten carbide cutting tools, inserts, rods and wear parts.

The CERATIZIT Group is the market leader in several wear part application areas and develops successful new types of hard metal, cermet and ceramic grades, which are used for instance in the wood and stone working industry.

Facts and figures

1 headquarters
Mamer / Luxembourg

24 production sites

50 sales subsidiaries

6,000 employees

> 90,000 different products

> 600 patents and utility models

> 100 employees in R&D

> 100 innovation awards

30% new products created in the last 5 years