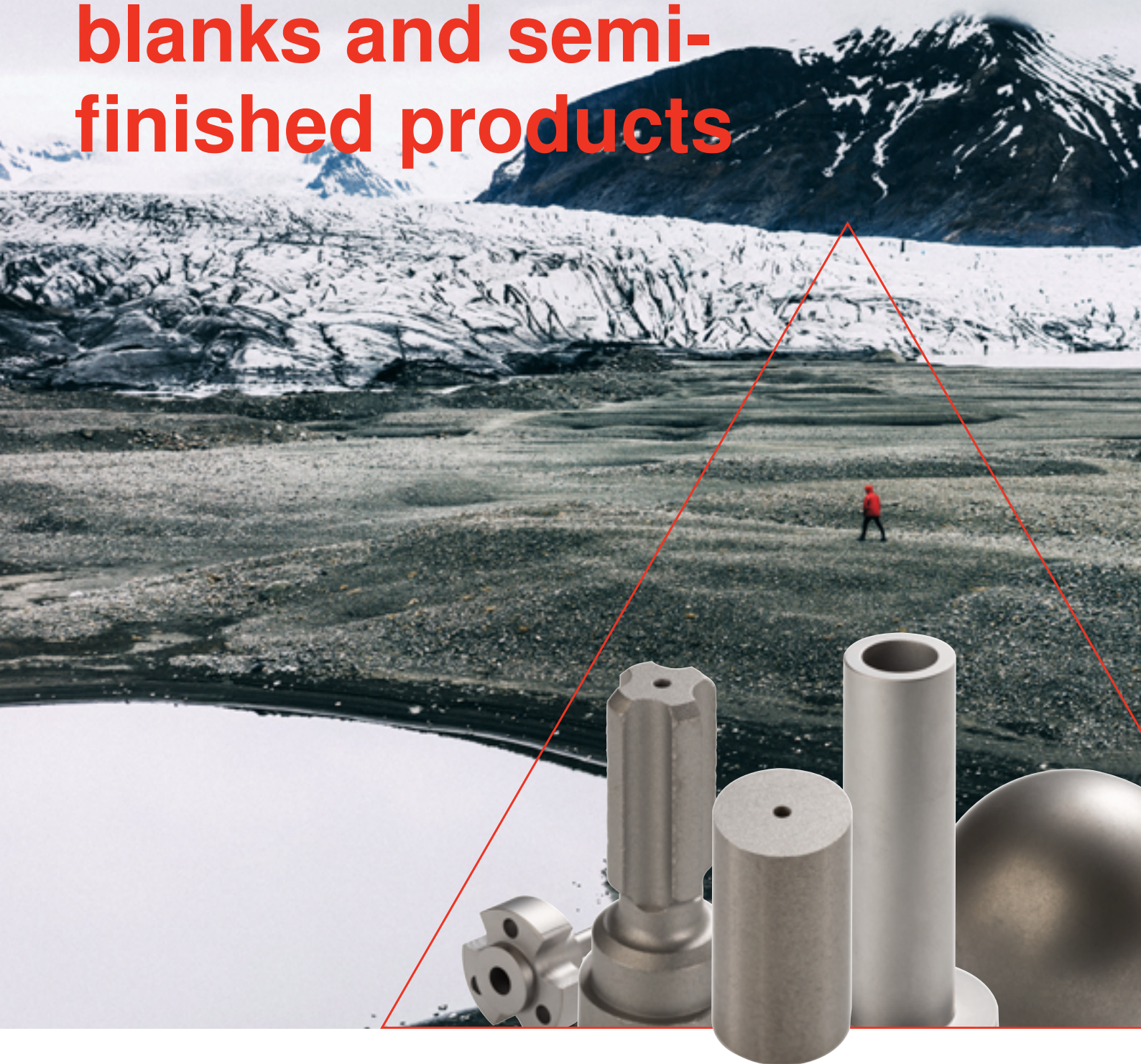


# Specialist for customised **blanks and semi- finished products**



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

**Tooling the Future.**

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



Sarah-Jane Breitenreiter,  
Customer Service Centre

**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.

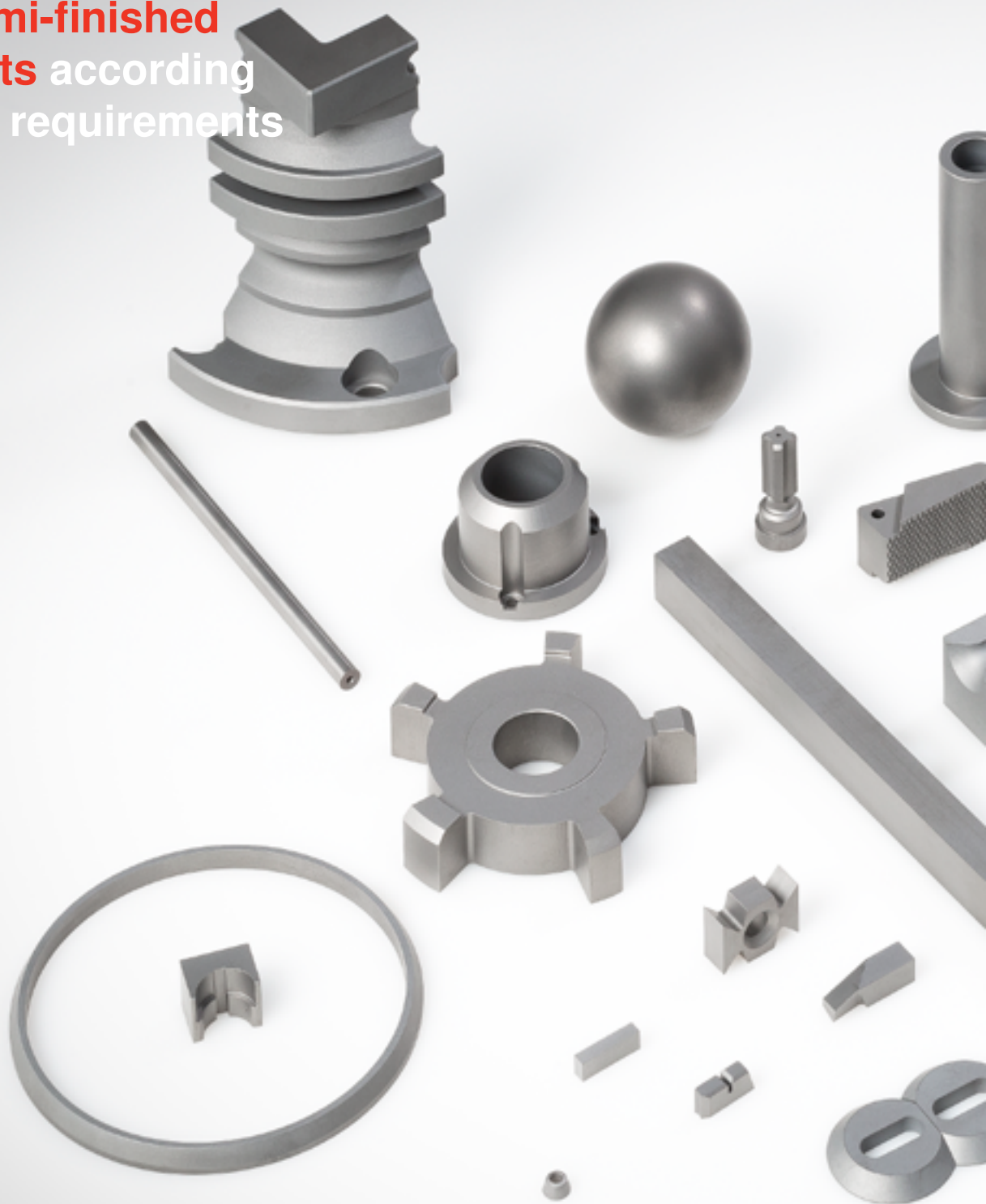
#### Product portfolio:

- ▲ Customised blanks and pre-ground, semi-finished articles
- ▲ Wear parts
- ▲ Customised parts for metal forming, e.g. drawing dies, hammering tools, mandrels, extrusion components, calibration components, components for deep drawing tools

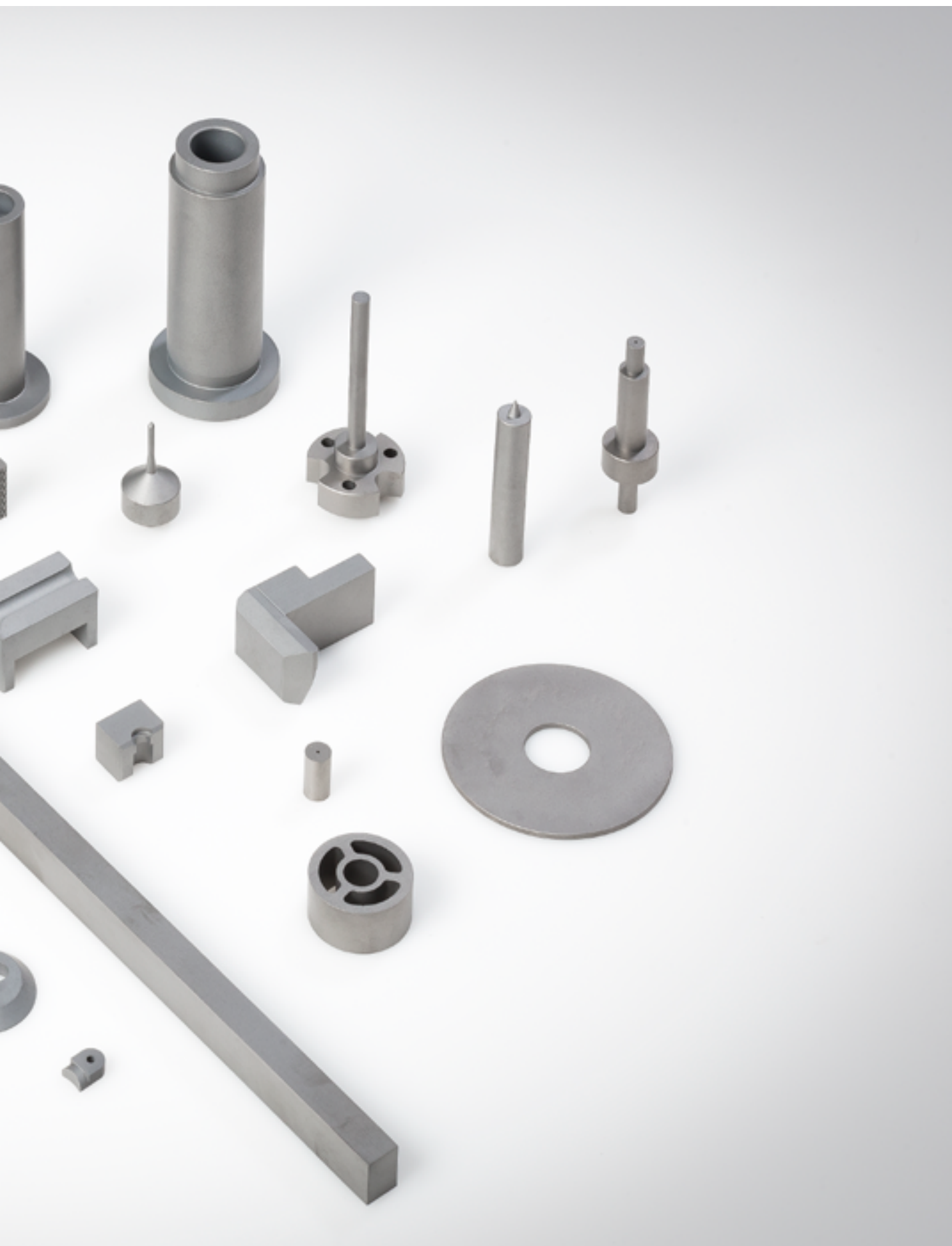
## Our carbide grades

Grade	ISO code	Binder (in %)	HV10	Hardness HV30	HRA	Transverse rupture strength		Fracture toughness
						MPa	P.S.I.	MPa*m <sup>1/2</sup>
CTS12	K05-K10	6,0	1820	1790	93,0	3500	508.000	8,2
CTS20	K20-40	10,0	1610	1590	91,9	3700	537.000	10,1
CTS30	>K40	15,0	1330	1320	89,7	3800	552.000	11,9
CTF11	K10 G05	5,6	1760	1730	92,7	2150	312.000	9,2
CTF12	K20 G10	6,0	1640	1620	92,1	2200	319.000	9,9
CTF24	K40	12,0	1330	1320	89,7	3000	435.000	12,0
CTF30	>K40 G30	15,0	1250	1240	88,8	3100	450.000	13,1
CTF40	G40	20,0	1070	1060	86,8	3400	493.000	18,0
CTF50	GC55	25,0	950	940	85,1	3400	493.000	21,0
CTF54	>G50	27,0	920	910	84,8	3200	464.000	22,0
CTM17		8,5	1420	1400	90,4	2800	406.000	11,3
CTM30		15,0	1130	1120	87,6	3000	435.000	13,3
CTM40		20,0	950	940	85,3	3100	450.000	18,6
CTE20	G20	10,0	1130	1120	87,6	2600	377.000	18,0
CTE30	G30	15,0	970	960	85,6	2800	406.000	22,0
CTE35		17,5	910	900	84,8	2850	413.000	23,0
CTE40	G40	20,0	850	840	84,2	2900	421.000	24,0
CTE50	G50	25,0	760	750	82,6	2800	406.000	26,0
CTE60	G60	30,0	690	680	81,4	2700	331.000	27,0

**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 speci-

cations – 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

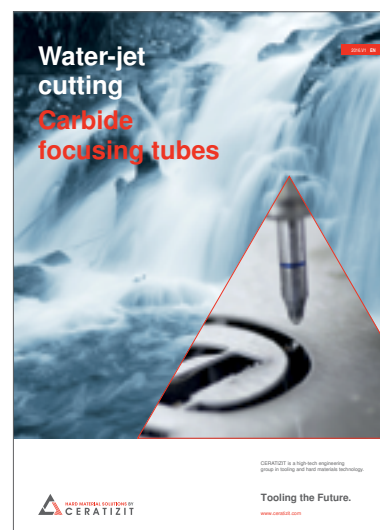
Wear protection for all application  
and industries



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



## Our product portfolio



# CERATIZIT Group

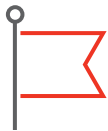
## Carbide pioneer and global player

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

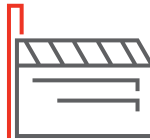
The privately owned company, headquartered in Mamer, Luxembourg, develops and manufactures highly specialised tungsten carbide cutting tools, inserts, rods and wear parts.

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

## Headquarters

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