

EN
2025

Grooving

Metric

ELMEC is an engineering and manufacturing company of high performance cutting tools.

More than 50 years Mastering Precision

elmec.com.mx



ELMEC

For over 50 years, Elmec has been a pioneer in developing specialized cutting tool solutions for the automotive, aerospace, construction and agriculture, oil and gas, energy generation and general manufacturing industries.

Our mission is to exceed our customers expectations on service, quality and performance in the manufacturing of tailored rotary cutting tools, made with the clear objective of increasing the productivity in the operation of your plants and making work more more efficient, reliable and accurate.

Industrial sectors



ELMEC is the Manufacturing Line First Responder

As the frontline personnel for manufacturing lines, ELMEC offers: experience, quick response and effective solutions.

Highly trained personnel and high technology equipment guarantee the quality and precision in each of our products.

We are committed to continuing positioning ourselves as the #1 solution provider in solving our customers' needs.

Product lines:

- **Solid carbide cutting tools, for materials:**
 - Forged steel
 - Titanium
 - Alloy steels
 - Cast iron
 - Inconel
 - Stainless steels
 - Nodular iron
 - Aluminum
 - Hardened steels

- **PCD cutting tools, for materials:**
 - High "Si" content aluminum
 - Plastics
 - Composites
 - GFRP (Fiberglass)
 - Non-ferrous materials
 - CFRP (Carbon fiber)

- **Indexable Inserts.**

ELMEC is a privately owned Mexican company located in Hidalgo, México. ELMEC has always differentiated as a supplier that excels in innovation, quality, service and support, values that serve as guidelines on our daily work.



Our values



INNOVATION



QUALITY



SERVICE



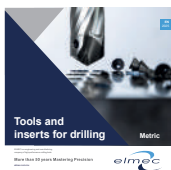
SUPPORT

Our product portfolio of Indexable Inserts

Milling



Drilling



Multicut



Turning



Grooving

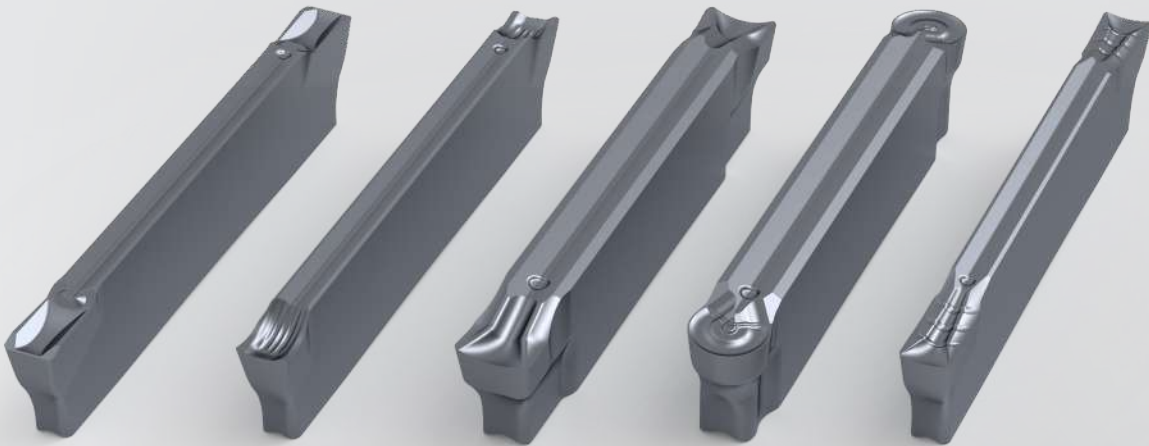
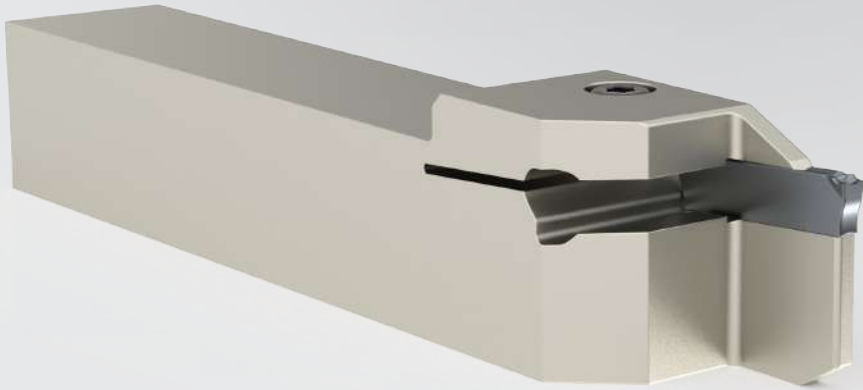


Your vision, our innovation

ELMEC stands for innovative products and solutions, unique expertise in powder metallurgy, state of the art technology and absolute reliability – making it the ideal partner for your successful private label.

Couldn't find what you were looking for?
In closely collaborating with you, we will find the optimal solution for the demands of your customers which perfectly reflects your position on the market. If our presentation of standard tools in this catalogue does not fit your needs, please contact us to discuss your customised solution – whether it may be blanks, semi-finished products or finished products.





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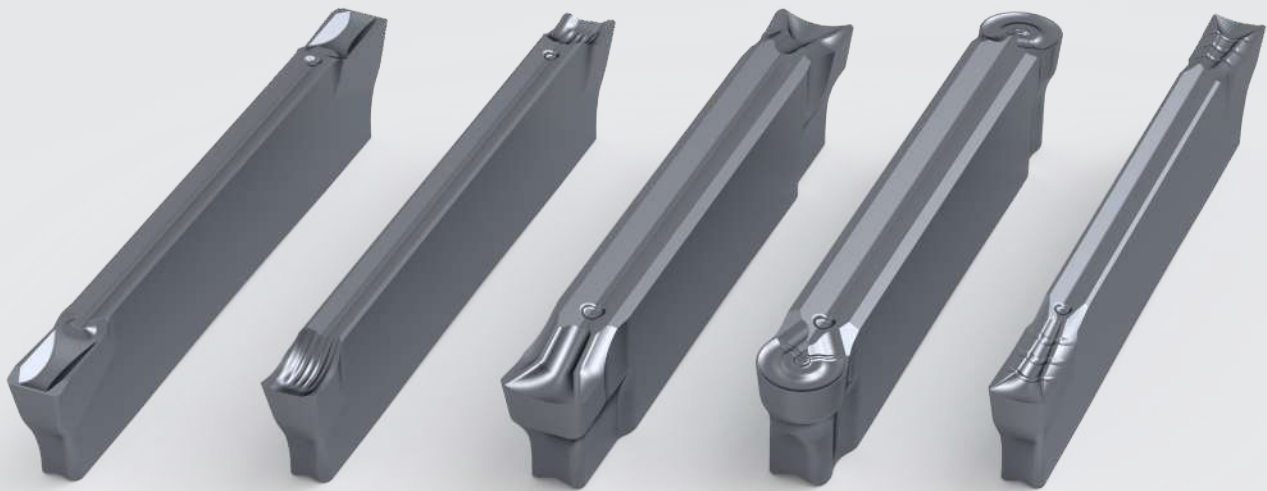
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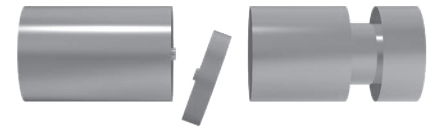
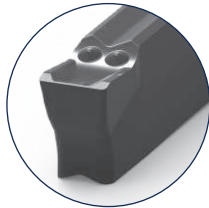
Cutting geometries



GD/GO

■ ■ GPP – Medium cutting

- ▲ Insert with narrow negative chamfer
- ▲ Suitable for all steel materials with high strength
- ▲ Suitable for all applications
- ▲ For steel and grey cast iron

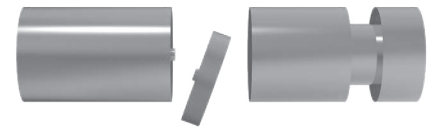
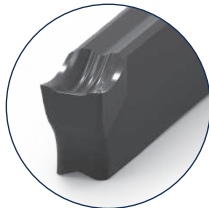


Parting

Grooving

■ ■ GUP – Very soft cutting

- ▲ Excellent cutting chipbreaker with low cutting forces
- ▲ For low or medium strength materials
- ▲ Particularly suitable for parting off tubes and thin-walled work pieces
- ▲ High cutting edge stability
- ▲ Excellent chip control also with low feed
- ▲ Low built up edge

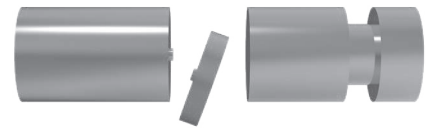
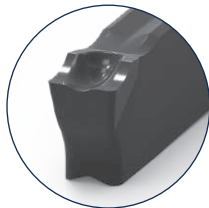


Parting

Grooving

■ ■ GMP – Stainless und super alloys

- ▲ Especially for stainless steel
- ▲ Problem solver for steel machining



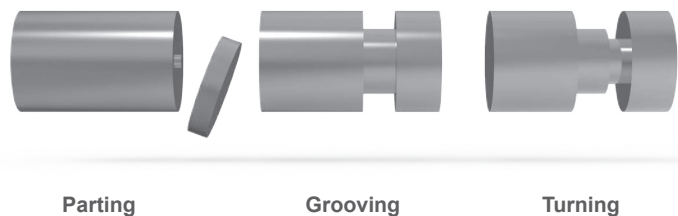
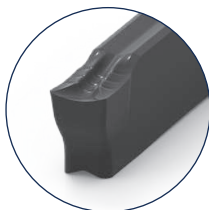
Parting

Grooving

GD/GO

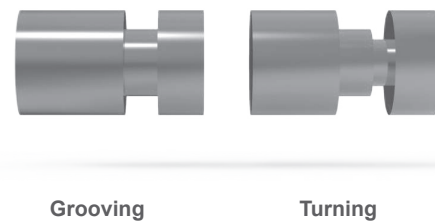
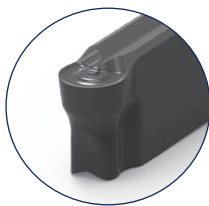
■ ■ GUT – Grooving and Turning

- ▲ For grooving and turning
- ▲ Suitable for all steel and stainless steel materials
- ▲ Very good chip control



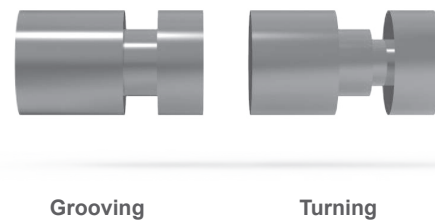
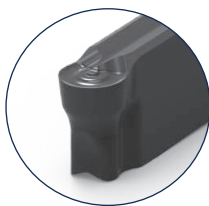
■ ■ GPR – Radius grooves

- ▲ Insert for radius grooves
- ▲ For copy turning
- ▲ Suitable for all steel and cast iron materials



■ GMR – General application and Turning

- ▲ Especially for stainless steel materials

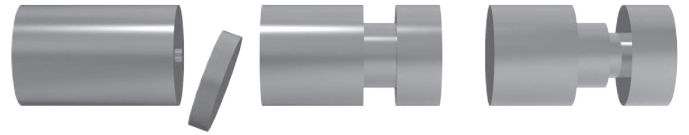


GD/GO



GNT – Non ferrous metals

- ▲ Insert with highly positive cutting chipbreaker and sharp cutting edge
- ▲ Extra-smooth rake face through “microfinish”
- ▲ Reduced built-up edge



Parting

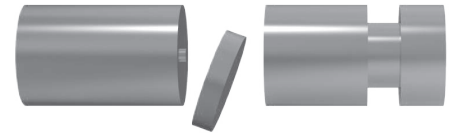
Grooving

Turning

GS

■ ■ GPP – Medium cutting

- ▲ Insert with narrow negative chamfer
- ▲ Suitable for all steel materials with high strength
- ▲ Suitable for all applications
- ▲ For steel and grey cast iron



Parting

Grooving

■ ■ GMP – Stainless and super alloys

- ▲ Especially for stainless steel
- ▲ Problem solver for steel machining

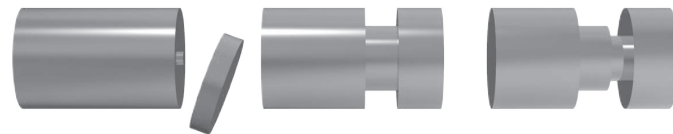


Parting

Grooving

■ ■ GUT – Grooving and Turning

- ▲ For grooving and turning
- ▲ Suitable for all steel and cast iron materials
- ▲ Very good chip control



Parting

Grooving

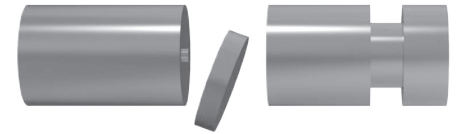
Turning

GS



GNT – Non ferrous metals

- ▲ Insert with highly positive cutting chipbreaker and sharp cutting edge
- ▲ Extra-smooth rake face through “microfinish”
- ▲ Reduced built-up edge



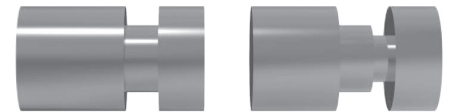
Parting

Grooving



GPR – General application and Turning

- ▲ Insert for radius grooves
- ▲ For copy turning
- ▲ Suitable for all steel and cast iron materials



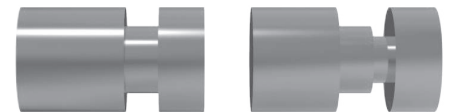
Grooving

Turning



GMR – General application and Turning

- ▲ Especially for stainless steel materials



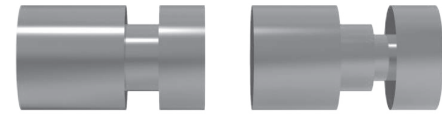
Grooving

Turning

GA

■ ■ GUT – Grooving and Turning

- ▲ For grooving and turning
- ▲ Suitable for all steel and stainless steel materials
- ▲ Very good chip control

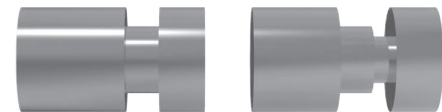


Grooving

Turning

■ ■ ■ GPR – General application and Turning

- ▲ Insert for radius grooves
- ▲ For copy turning
- ▲ Suitable for all steel and cast iron materials



Grooving

Turning

Application

GD/GO/GA

Material Group	Choice chipbreaker	First choice	Grades	
			First choice	Higher wear resistance
Steel	GPP – GUP	CTP1340	CTCP320ST	CTPP345
	GUT – GPR	CTP1340		
Stainless steel	GMP – GUP – GUT – GMR	CTP1340		CTPP345
	GPP	CTP1340	CTCP320ST	CTPP345
Cast iron	GPR	CTP1340		
	GMP	CTPP345		
Exotic	GNT	CTWN715		

GS

Material Group	Choice chipbreaker	First choice	Grades	
			First choice	Higher wear resistance
Steel	GPP – GUT – GPR	CTP1340	CTCP320ST	CTPP345
Stainless steel	GMP – GMR	CTP1340		CTPP345
Cast iron	GPP – GUT	CTP1340		CTPP345
Non-ferrous metals	GNT	CTWN715		

Inserts



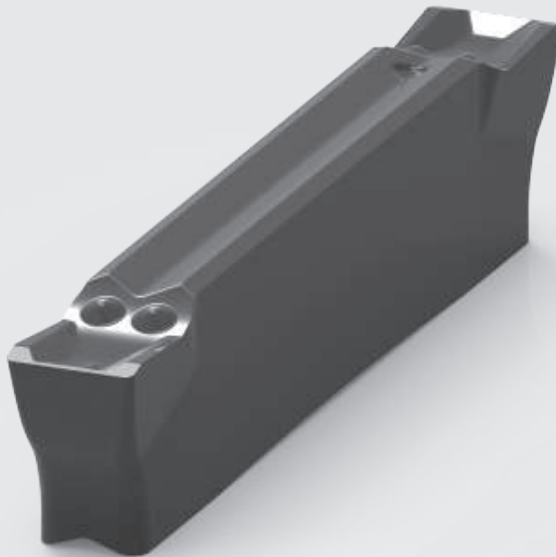
GD

Double-sided











GPP







1.5 – 8



GD – GPP

Insert		Designation	Material number	Available
1.5		GD24NT-15.015-00-GPP CTCP320ST	12599663	○
		GD24NT-15.015-00-GPP CTP1340	12599660	●
		GD24NT-15.015-00-GPP CTPP345	12599666	●
2.0		GD24LT-20.015-06-GPP CTCP320ST	12248387	○
		GD24LT-20.015-06-GPP CTP1340	12248382	●
		GD24LT-20.015-06-GPP CTPP345	12248392	●
		GD24NT-20.02-00-GPP CTCP320ST	12158331	●
		GD24NT-20.02-00-GPP CTP1340	12158330	●
		GD24NT-20.02-00-GPP CTPP345	12158332	●
		GD24RT-20.015-06-GPP CTCP320ST	12248400	○
		GD24RT-20.015-06-GPP CTP1340	12248396	●
		GD24RT-20.015-06-GPP CTPP345	12248401	●
3.0		GD24LT-30.02-06-GPP CTCP320ST	12235866	○
		GD24LT-30.02-06-GPP CTP1340	12235863	●
		GD24LT-30.02-06-GPP CTPP345	12235868	●
		GD24NT-30.02-00-GPP CTCP320ST	12149223	●
		GD24NT-30.02-00-GPP CTP1340	12141178	●
		GD24NT-30.02-00-GPP CTPP345	12149224	●
		GD24RT-30.02-06-GPP CTCP320ST	12235873	○
		GD24RT-30.02-06-GPP CTP1340	12235871	●
		GD24RT-30.02-06-GPP CTPP345	12235877	●

● available from stock, ○ available upon request

	Insert	Designation	Material number	Available
4.0		GD24LT-40.03-04-GPP CTCP320ST	12416667	○
		GD24LT-40.03-04-GPP CTP1340	12416662	●
		GD24LT-40.03-04-GPP CTPP345	12416668	●
		GD24NT-40.03-00-GPP CTCP320ST	12149566	●
		GD24NT-40.03-00-GPP CTP1340	12149565	●
		GD24NT-40.03-00-GPP CTPP345	12149567	●
		GD24RT-40.03-04-GPP CTCP320ST	12416653	○
		GD24RT-40.03-04-GPP CTP1340	12416651	●
		GD24RT-40.03-04-GPP CTPP345	12416656	●
5.0		GD24NT-50.04-00-GPP CTCP320ST	12336861	●
		GD24NT-50.04-00-GPP CTP1340	12336856	●
		GD24NT-50.04-00-GPP CTPP345	12336862	●
6.0		GD24NT-60.04-00-GPP CTCP320ST	12536051	○
		GD24NT-60.04-00-GPP CTP1340	12536043	●
		GD24NT-60.04-00-GPP CTPP345	12536052	●
8.0		GD35NT-80.08-00-GPP CTP1340	57004597	●











● available from stock, ○ available upon request

GUP

2 – 5



GD – GUP

Insert	Designation	Material number	Available
	GD24LT-20.015-06-GUP CTCP320ST	12245958	○
	GD24LT-20.015-06-GUP CTP1340	12245957	●
	GD24LT-20.015-06-GUP CTPP345	12245959	●
2.0 	GD24NT-20.02-00-GUP CTCP320ST	12218962	○
	GD24NT-20.02-00-GUP CTP1340	12218959	●
	GD24NT-20.02-00-GUP CTPP345	12218963	●
	GD24RT-20.015-06-GUP CTCP320ST	12245961	○
	GD24RT-20.015-06-GUP CTP1340	12245960	●
	GD24RT-20.015-06-GUP CTPP345	12245962	●
	GD24LT-30.02-06-GUP CTCP320ST	12236951	○
	GD24LT-30.02-06-GUP CTP1340	12236949	●
	GD24LT-30.02-06-GUP CTPP345	12236952	●
3.0 	GD24NT-30.02-00-GUP CTCP320ST	12149218	○
	GD24NT-30.02-00-GUP CTP1340	12141176	●
	GD24NT-30.02-00-GUP CTPP345	12149221	●
	GD24RT-30.02-06-GUP CTCP320ST	12236947	○
	GD24RT-30.02-06-GUP CTP1340	12236946	●
	GD24RT-30.02-06-GUP CTPP345	12236948	●
	GD24LT-40.03-05-GUP CTCP320ST	12416716	○
	GD24LT-40.03-05-GUP CTP1340	12416713	●
	GD24LT-40.03-05-GUP CTPP345	12416718	●
4.0 	GD24NT-40.03-00-GUP CTCP320ST	12218967	○
	GD24NT-40.03-00-GUP CTP1340	12218965	●
	GD24NT-40.03-00-GUP CTPP345	12218969	●
	GD24RT-40.03-05-GUP CTCP320ST	12416699	○
	GD24RT-40.03-05-GUP CTP1340	12416695	●
	GD24RT-40.03-05-GUP CTPP345	12416703	●
5.0 	GD24NT-50.04-00-GUP CTCP320ST	12395254	○
	GD24NT-50.04-00-GUP CTP1340	12395243	○
	GD24NT-50.04-00-GUP CTPP345	12395259	●

● available from stock, ○ available upon request

GMP








1.5 – 6

M






S



GD – GMP

	Insert	Designation	Material number	Available
1.5		GD24NT-15.015-00-GMP CTCP320ST	12269418	●
		GD24NT-15.015-00-GMP CTP1340	12269406	●
		GD24NT-15.015-00-GMP CTPP345	12269420	●
2.0		GD24LT-20.015-06-GMP CTCP320ST	12248411	○
		GD24LT-20.015-06-GMP CTP1340	12248409	●
		GD24LT-20.015-06-GMP CTPP345	12248413	●
		GD24NT-20.02-00-GMP CTCP320ST	12158334	○
		GD24NT-20.02-00-GMP CTP1340	12158333	●
		GD24NT-20.02-00-GMP CTPP345	12158335	●
		GD24RT-20.015-06-GMP CTCP320ST	12248416	○
		GD24RT-20.015-06-GMP CTP1340	12248415	●
		GD24RT-20.015-06-GMP CTPP345	12248418	●
3.0		GD24LT-30.02-06-GMP CTCP320ST	12236942	○
		GD24LT-30.02-06-GMP CTP1340	12236941	●
		GD24LT-30.02-06-GMP CTPP345	12236943	●
		GD24NT-30.02-00-GMP CTCP320ST	12149214	○
		GD24NT-30.02-00-GMP CTP1340	12141184	●
		GD24NT-30.02-00-GMP CTPP345	12149216	●
		GD24RT-30.02-06-GMP CTCP320ST	12236937	○
		GD24RT-30.02-06-GMP CTP1340	12236932	●
		GD24RT-30.02-06-GMP CTPP345	12236939	●

● available from stock, ○ available upon request

	Insert	Designation	Material number	Available
4.0		GD24LT-40.03-06-GMP CTCP320ST	12416683	○
		GD24LT-40.03-06-GMP CTP1340	12416682	●
		GD24LT-40.03-06-GMP CTPP345	12416686	●
		GD24NT-40.04-00-GMP CTCP320ST	12149563	○
		GD24NT-40.04-00-GMP CTP1340	12149561	●
		GD24NT-40.04-00-GMP CTPP345	12149564	●
		GD24RT-40.03-06-GMP CTCP320ST	12416679	○
		GD24RT-40.03-06-GMP CTP1340	12416676	●
		GD24RT-40.03-06-GMP CTPP345	12416681	●
5.0		GD24NT-50.04-00-GMP CTCP320ST	12382664	○
		GD24NT-50.04-00-GMP CTP1340	12382661	●
		GD24NT-50.04-00-GMP CTPP345	12382668	●
6.0		GD24NT-60.04-00-GMP CTCP320ST	12545248	○
		GD24NT-60.04-00-GMP CTP1340	12545222	●
		GD24NT-60.04-00-GMP CTPP345	12545261	●







● available from stock, ○ available upon request

GUT




2-6



GD – GUT

Insert	Designation	Material number	Available
	GD24LT-20.02-06-GUT CTCP320ST	12312069	○
	GD24LT-20.02-06-GUT CTP1340	12312068	●
	GD24LT-20.02-06-GUT CTPP345	12312070	●
2.0 	GD24NT-20.02-00-GUT CTCP320ST	12158328	○
	GD24NT-20.02-00-GUT CTP1340	12158327	●
	GD24NT-20.02-00-GUT CTPP345	12158329	●
	GD24RT-20.02-06-GUT CTCP320ST	12312059	○
	GD24RT-20.02-06-GUT CTP1340	12312058	●
	GD24RT-20.02-06-GUT CTPP345	12312060	●
	GD24LT-30.02-06-GUT CTCP320ST	12312076	○
	GD24LT-30.02-06-GUT CTP1340	12312075	●
	GD24LT-30.02-06-GUT CTPP345	12312077	●
3.0 	GD24NT-30.03-00-GUT CTCP320ST	12149211	○
	GD24NT-30.03-00-GUT CTP1340	12141172	●
	GD24NT-30.03-00-GUT CTPP345	12149213	●
	GD24RT-30.02-06-GUT CTCP320ST	12312073	○
	GD24RT-30.02-06-GUT CTP1340	12312072	●
	GD24RT-30.02-06-GUT CTPP345	12312074	●

● available from stock, ○ available upon request

	Insert	Designation	Material number	Available
4.0		GD24NT-40.04-00-GUT CTCP320ST	12149559	●
		GD24NT-40.04-00-GUT CTP1340	12149558	●
		GD24NT-40.04-00-GUT CTPP345	12149560	●
5.0		GD24NT-50.04-00-GUT CTCP320ST	12391983	○
		GD24NT-50.04-00-GUT CTP1340	12391945	●
		GD24NT-50.04-00-GUT CTPP345	12395234	●
6.0		GD24NT-60.04-00-GUT CTCP320ST	12545289	○
		GD24NT-60.04-00-GUT CTP1340	12545272	●
		GD24NT-60.04-00-GUT CTPP345	12545301	●

● available from stock, ○ available upon request

GPR

2-6



GD – GPR

	Insert	Designation	Material number	Available
2.0		GD24NR-20.00-00-GPR CTCP320ST	12218982	○
		GD24NR-20.00-00-GPR CTP1340	12218980	●
		GD24NR-20.00-00-GPR CTPP345	12218983	●
3.0		GD24NR-30.00-00-GPR CTCP320ST	12149207	●
		GD24NR-30.00-00-GPR CTP1340	12142965	●
		GD24NR-30.00-00-GPR CTPP345	12149210	●
4.0		GD24NR-40.00-00-GPR CTCP320ST	12218975	●
		GD24NR-40.00-00-GPR CTP1340	12218974	●
		GD24NR-40.00-00-GPR CTPP345	12218977	●
5.0		GD24NR-50.00-00-GPR CTCP320ST	12391880	○
		GD24NR-50.00-00-GPR CTP1340	12391847	●
		GD24NR-50.00-00-GPR CTPP345	12391882	●
6.0		GD24NR-60.00-00-GPR CTCP320ST	12545446	○
		GD24NR-60.00-00-GPR CTP1340	12545433	●
		GD24NR-60.00-00-GPR CTPP345	12545456	●

● available from stock, ○ available upon request

GMR

2 – 6



GD – GMR

Insert	Designation	Material number	Available
2.0 	GD24NR-20.00-00-GMR CTP1340	14689252	●
3.0 	GD24NR-30.00-00-GMR CTP1340	14689249	●
4.0 	GD24NR-40.00-00-GMR CTP1340	14689254	●
5.0 	GD24NR-50.00-00-GMR CTP1340	14689250	●
6.0 	GD24NR-60.00-00-GMR CTP1340	14689253	●


● available from stock, ○ available upon request

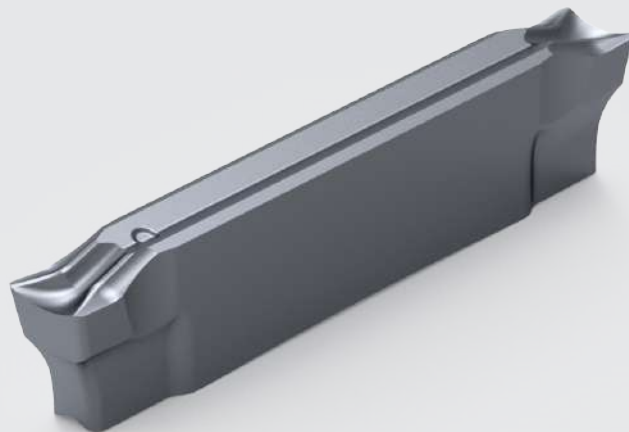
GNT

2 – 6

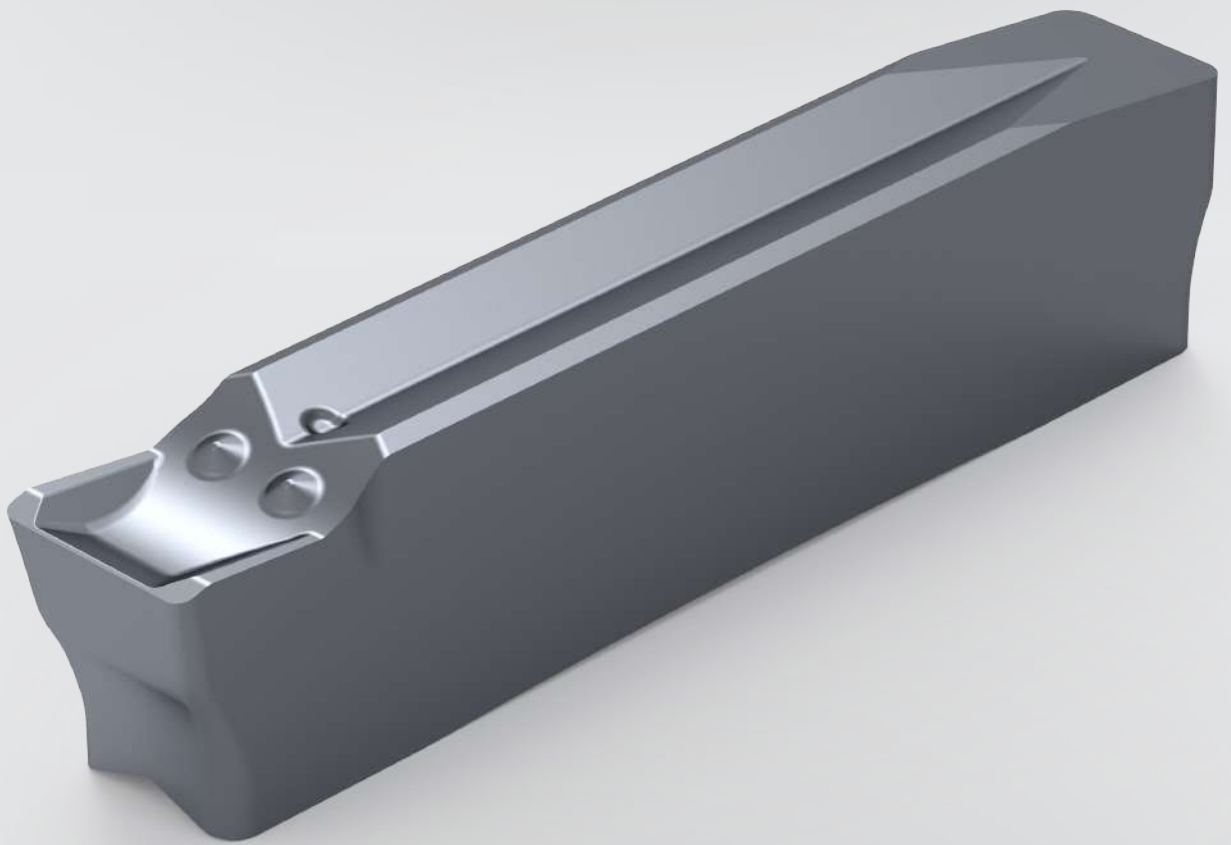


GD – GNT

Insert	Designation	Material number	Available
	GD24NT-20.02-00-GNT CTWN715	12596998	●
	GD24NT-30.03-00-GNT CTWN715	12597001	●
	GD24NT-40.04-00-GNT CTWN715	12597002	●
	GD24NT-50.04-00-GNT CTWN715	14603779	●
	GD24NT-60.05-00-GNT CTWN715	14603782	●



● available from stock, ○ available upon request



GO

Single-sided

GPP

2-4



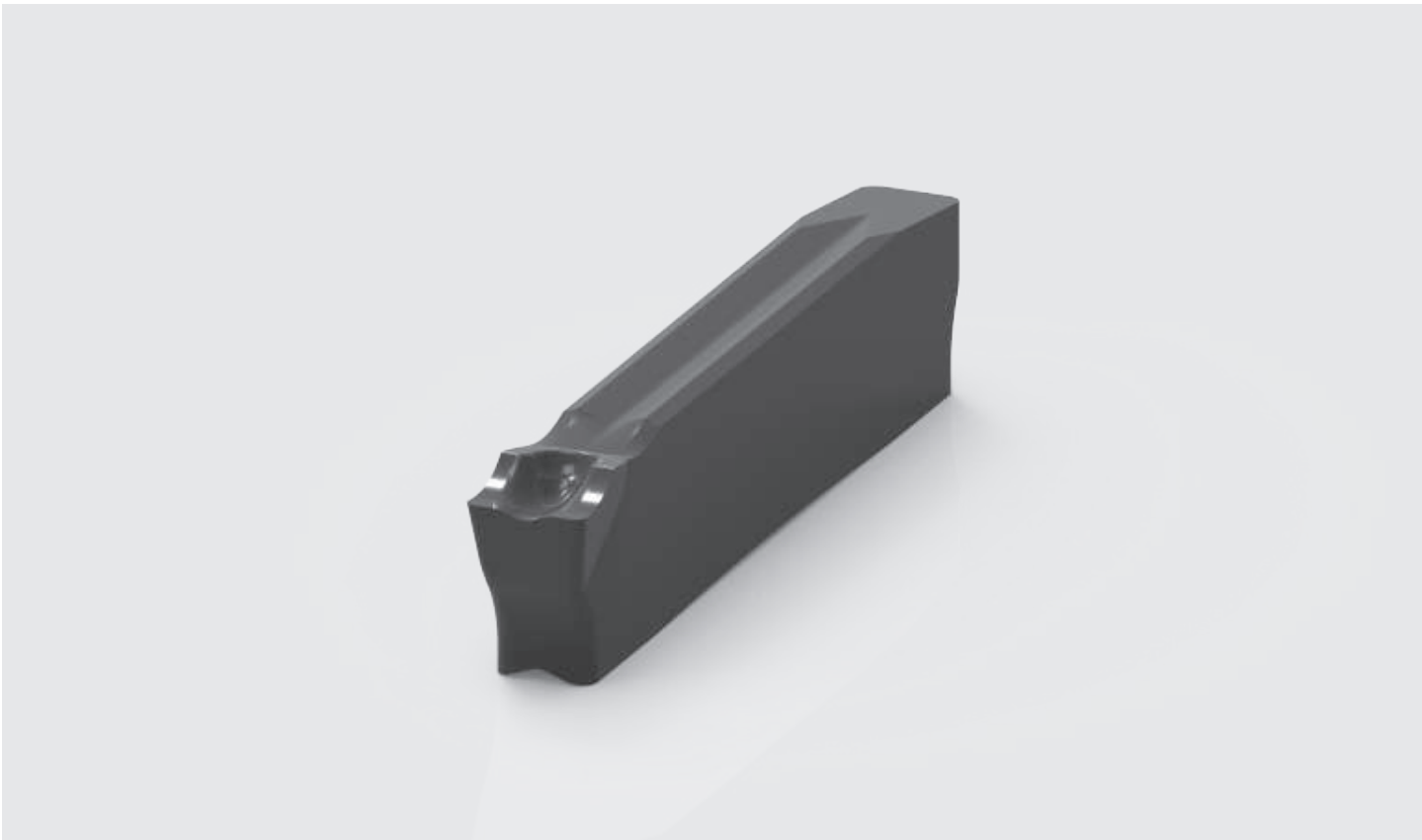
GO – GPP

Insert	Designation	Material number	Available
2.0 	GO24NT-20.02-00-GPP CTCP320ST	12193962	○
	GO24NT-20.02-00-GPP CTP1340	12193961	●
	GO24NT-20.02-00-GPP CTPP345	12193963	●
3.0 	GO24LT-30.02-06-GPP CTCP320ST	12407644	○
	GO24LT-30.02-06-GPP CTP1340	12407642	●
	GO24LT-30.02-06-GPP CTPP345	12407645	●
3.0 	GO24NT-30.02-00-GPP CTCP320ST	12193971	○
	GO24NT-30.02-00-GPP CTP1340	12143095	●
	GO24NT-30.02-00-GPP CTPP345	12193973	●
3.0 	GO24RT-30.02-06-GPP CTCP320ST	12407602	○
	GO24RT-30.02-06-GPP CTP1340	12407600	●
	GO24RT-30.02-06-GPP CTPP345	12407605	●
4.0 	GO24NT-40.03-00-GPP CTCP320ST	12193967	○
	GO24NT-40.03-00-GPP CTP1340	12193966	●
	GO24NT-40.03-00-GPP CTPP345	12193969	●




● available from stock, ○ available upon request

GMP

2-4



GO – GMP

	Insert	Designation	Material number	Available
2.0		GO24NT-20.02-00-GMP CTCP320ST	12330151	○
		GO24NT-20.02-00-GMP CTP1340	12330143	●
		GO24NT-20.02-00-GMP CTPP345	12330152	●
3.0		GO24NT-30.03-00-GMP CTCP320ST	12330173	○
		GO24NT-30.03-00-GMP CTP1340	12330172	●
		GO24NT-30.03-00-GMP CTPP345	12330175	●
4.0		GO24NT-40.04-00-GMP CTCP320ST	12330219	○
		GO24NT-40.04-00-GMP CTP1340	12330218	●
		GO24NT-40.04-00-GMP CTPP345	12330220	●




● available from stock, ○ available upon request

GUT

2-4



GO – GUT

	Insert	Designation	Material number	Available
2.0		GO24NT-20.02-00-GUT CTCP320ST	12330165	○
		GO24NT-20.02-00-GUT CTP1340	12330163	●
		GO24NT-20.02-00-GUT CTPP345	12330166	●
3.0		GO24NT-30.03-00-GUT CTCP320ST	12330178	○
		GO24NT-30.03-00-GUT CTP1340	12330176	●
		GO24NT-30.03-00-GUT CTPP345	12330179	●
4.0		GO24NT-40.04-00-GUT CTCP320ST	12330223	○
		GO24NT-40.04-00-GUT CTP1340	12330222	●
		GO24NT-40.04-00-GUT CTPP345	12330224	●

● available from stock, ○ available upon request

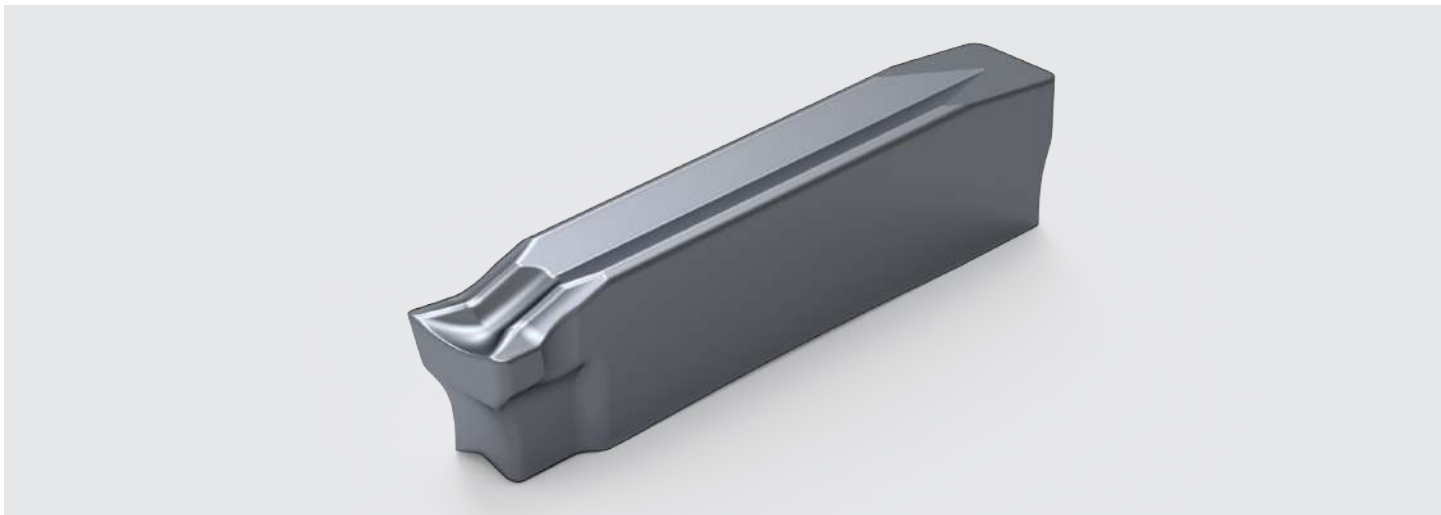
GNT



2 – 6

GO – GNT

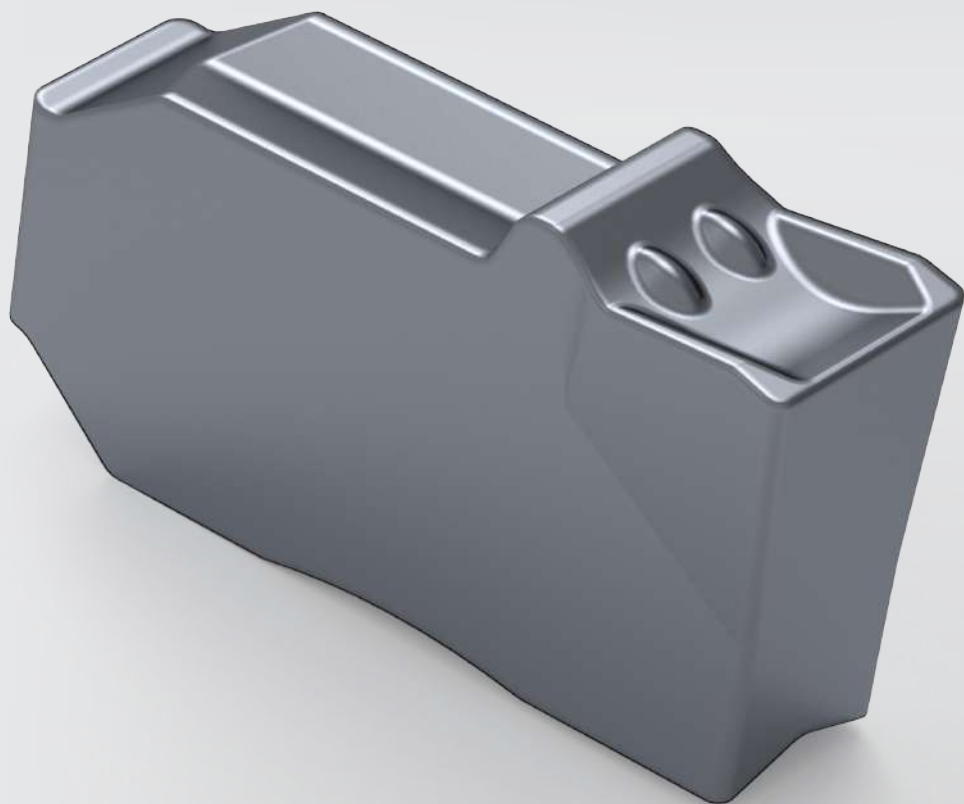
Insert	Designation	Material number	Available
2.0	GO24NT-20.02-00-GNT CTWN715	12597003	●
3.0	GO24NT-30.03-00-GNT CTWN715	12597004	●
4.0	GO24NT-40.04-00-GNT CTWN715	12597008	●
5.0	GO24NT-50.04-00-GNT CTWN715	14640017	●
6.0	GO24NT-60.05-00-GNT CTWN715	14640013	●



● available from stock, ○ available upon request

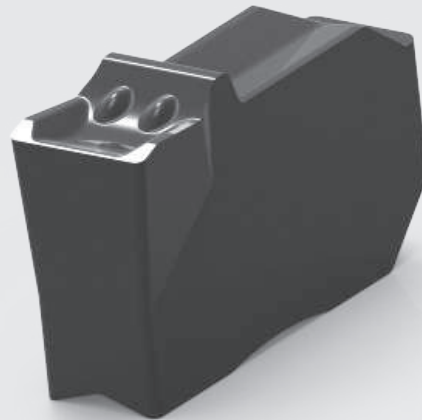
GS

Small size insert








GPP

2 – 6



GS – GPP

	Insert	Designation	Material number	Available
2.0		GSNT-20.02-00-GPP CTCP320ST	12220987	○
		GSNT-20.02-00-GPP CTP1340	12331961	●
		GSNT-20.02-00-GPP CTPP345	12122435	●
3.0		GSNT-30.02-00-GPP CTCP320ST	12220994	●
		GSNT-30.02-00-GPP CT1340	12331985	●
		GSNT-30.02-00-GPP CTPP345	11888187	●
4.0		GSNT-40.03-00-GPP CTCP320ST	12220998	○
		GSNT-40.03-00-GPP CTP1340	12332006	●
		GSNT-40.03-00-GPP CTPP345	11888182	●
5.0		GSNT-50.03-00-GPP CTCP320ST	12169163	○
		GSNT-50.03-00-GPP CTP1340	12332013	●
		GSNT-50.03-00-GPP CTPP345	12169161	●
6.0		GSNT-60.04-00-GPP CTCP320ST	12169145	○
		GSNT-60.04-00-GPP CTP1340	12332029	●
		GSNT-60.04-00-GPP CTPP345	12169142	●






● available from stock, ○ available upon request

GUT

2 – 6



GS – GUT

Insert	Designation	Material number	Available
2.0 	GSNT-20.02-00-GUT CTCP320ST	12220991	○
	GSNT-20.02-00-GUT CTP1340	12331971	●
	GSNT-20.02-00-GUT CTPP345	12122433	●
3.0 	GSNT-30.03-00-GUT CTCP320ST	12220996	○
	GSNT-30.03-00-GUT CTP1340	12331988	●
	GSNT-30.03-00-GUT CTPP345	11888973	●
4.0 	GSNT-40.04-00-GUT CTCP320ST	12220999	○
	GSNT-40.04-00-GUT CTP1340	12332008	●
	GSNT-40.04-00-GUT CTPP345	11888968	●
5.0 	GSNT-50.04-00-GUT CTCP320ST	12169158	○
	GSNT-50.04-00-GUT CTP1340	12332021	●
	GSNT-50.04-00-GUT CTPP345	12169151	●
6.0 	GSNT-60.05-00-GUT CTCP320ST	12169139	○
	GSNT-60.05-00-GUT CTP1340	12332036	●
	GSNT-60.05-00-GUT CTPP345	12169134	●






● available from stock, ○ available upon request

GMP

2 – 6



GS – GMP

Insert	Designation	Material number	Available
2.0 	GSNT-20.02-00-GMP CTCP320ST	12262690	○
	GSNT-20.02-00-GMP CTP1340	12262689	●
	GSNT-20.02-00-GMP CTPP345	12262692	●
3.0 	GSNT-30.02-00-GMP CTCP320ST	12262695	○
	GSNT-30.02-00-GMP CTP1340	12262694	●
	GSNT-30.02-00-GMP CTPP345	12262696	●
4.0 	GSNT-40.04-00-GMP CTCP320ST	12416760	○
	GSNT-40.04-00-GMP CTP1340	12416758	●
	GSNT-40.04-00-GMP CTPP345	12416763	●
5.0 	GSNT-50.04-00-GMP CTCP320ST	12416750	○
	GSNT-50.04-00-GMP CTP1340	12416747	●
	GSNT-50.04-00-GMP CTPP345	12416752	●
6.0 	GSNT-60.04-00-GMP CTCP320ST	12416735	○
	GSNT-60.04-00-GMP CTP1340	12416725	●
	GSNT-60.04-00-GMP CTPP345	12416742	●

● available from stock, ○ available upon request

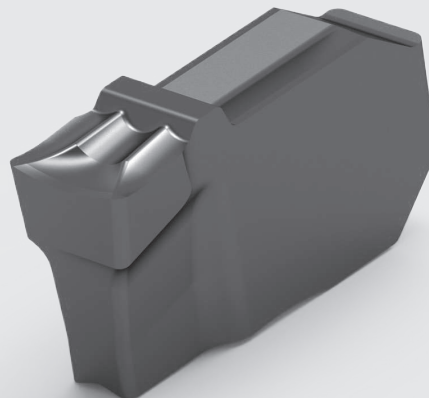
GNT

2 – 6



GS – GNT

Insert	Designation	Material number	Available
2.0	GSNT-20.02-00-GNT CTWN715	12596993	●
3.0	GSNT-30.03-00-GNT CTWN715	12596989	●
4.0	GSNT-40.04-00-GNT CTWN715	12596991	●
5.0	GSNT-50.04-00-GNT CTWN715	14447754	●
6.0	GSNT-60.04-00-GNT CTWN715	14447755	●



● available from stock, ○ available upon request

GPR

2 – 6



GS – GPR

Insert	Designation	Material number	Available
2.0	GSNR-20.00-00-GPR CTP1340	14617248	●
3.0	GSNR-30.00-00-GPR CTP1340	14617250	●
4.0	GSNR-40.00-00-GPR CTP1340	14617254	●
5.0	GSNR-50.00-00-GPR CTP1340	14617259	●
6.0	GSNR-60.00-00-GPR CTP1340	14617263	●



● available from stock, ○ available upon request

GMR

2 – 6



GS – GMR

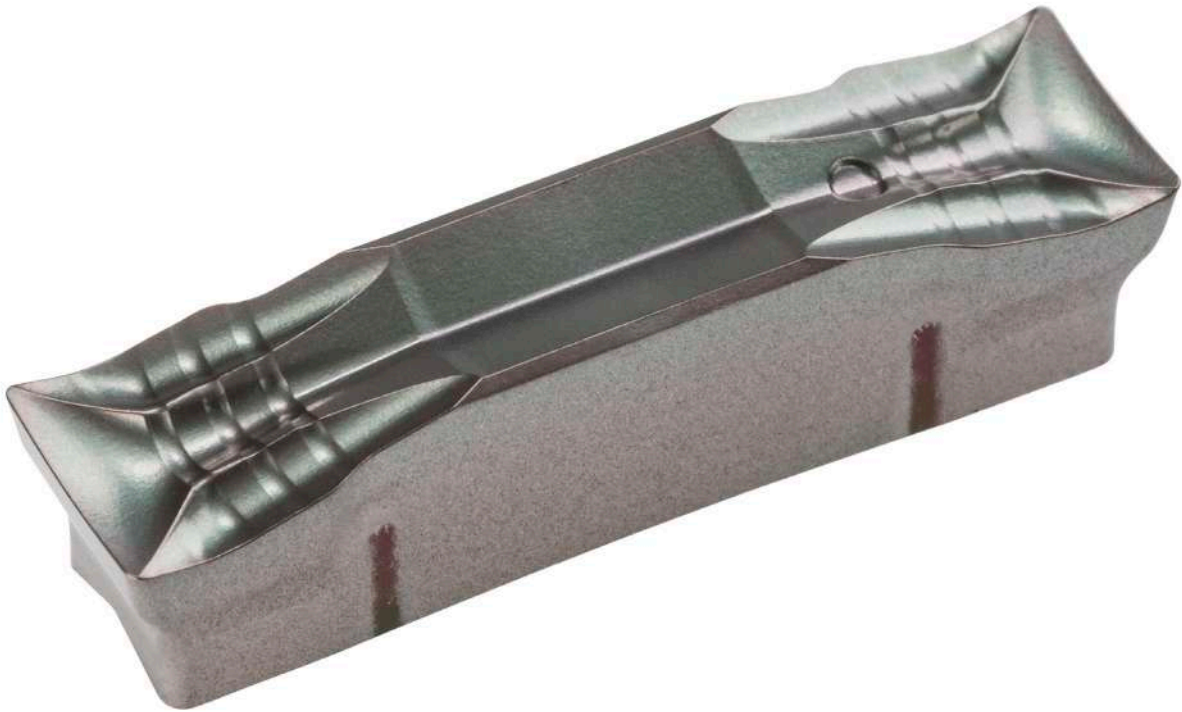
Insert	Designation	Material number	Available
2.0	GSNR-20.00-00-GMR CTP1340	14617264	●
3.0	GSNR-30.00-00-GMR CTP1340	14617265	●
4.0	GSNR-40.00-00-GMR CTP1340	14617268	●
5.0	GSNR-50.00-00-GMR CTP1340	14617270	●
6.0	GSNR-60.00-00-GMR CTP1340	14617272	●



● available from stock, ○ available upon request

GA

Axial grooving






GUT

3 – 5

P

M

GA – GUT

Insert	Designation	Material number	Available
3.0 	GA24NT-30.03-00-GUT CTCP320ST	12358352	○
	GA24NT-30.03-00-GUT CTP1340	12358346	●
	GA24NT-30.03-00-GUT CTPP345	12358353	●
4.0 	GA24NT-40.04-00-GUT CTCP320ST	14467538	○
	GA24NT-40.04-00-GUT CTP1340	14467537	●
	GA24NT-40.04-00-GUT CTPP345	14467539	●
5.0 	GA24NT-50.04-00-GUT CTCP320ST	14646114	●
	GA24NT-50.04-00-GUT CTP1340	14646112	●
	GA24NT-50.04-00-GUT CTPP345	14646115	●





● available from stock, ○ available upon request

GPR

3 – 4



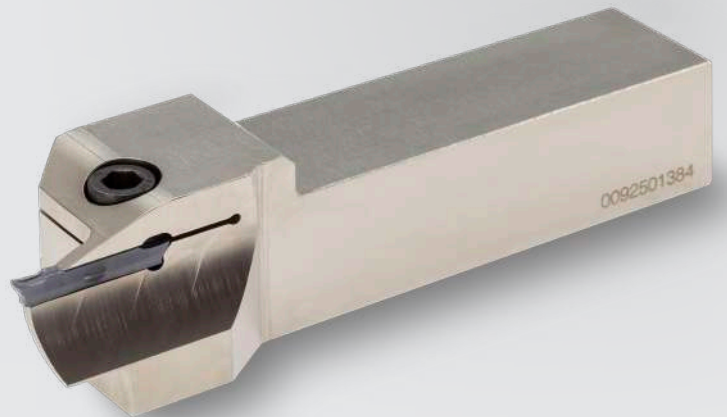
GA – GPR

Insert	Designation	Material number	Available
3.0 	GA24NR-30.00-00-GPR CTCP320ST	14595669	●
	GA24NR-30.00-00-GPR CTP1340	14595666	●
	GA24NR-30.00-00-GPR CTPP345	14595672	●
4.0 	GA24NR-40.00-00-GPR CTCP320ST	14598108	●
	GA24NR-40.00-00-GPR CTP1340	14598096	●
	GA24NR-40.00-00-GPR CTPP345	14598110	●



● available from stock, ○ available upon request


Tools




Blade

GO/GD



Blades	Designation	T _{max} [mm]	Material number	Available
	GBL-2602-GO2402	25	12295514	●
	GBL-3202-GO2402	25	12295534	●
	GBR-2602-GO2402	25	12295505	●
	GBR-3202-GO2402	25	12295510	●
	GBN-2602-GO2402	25	12295540	●
	GBN-3202-GO2402	25	12295546	●
	GBN-2603-GO2403	35	12167262	●
	GBN-3203-GO2403	50	12167255	●
	GBN-2604-GO2404	35	12167260	●
	GBN-3204-GO2404	50	12167253	●
	GBN-3205-GO2405	60	14442164	●
	GBN-3206-GO2406	60	14442166	●

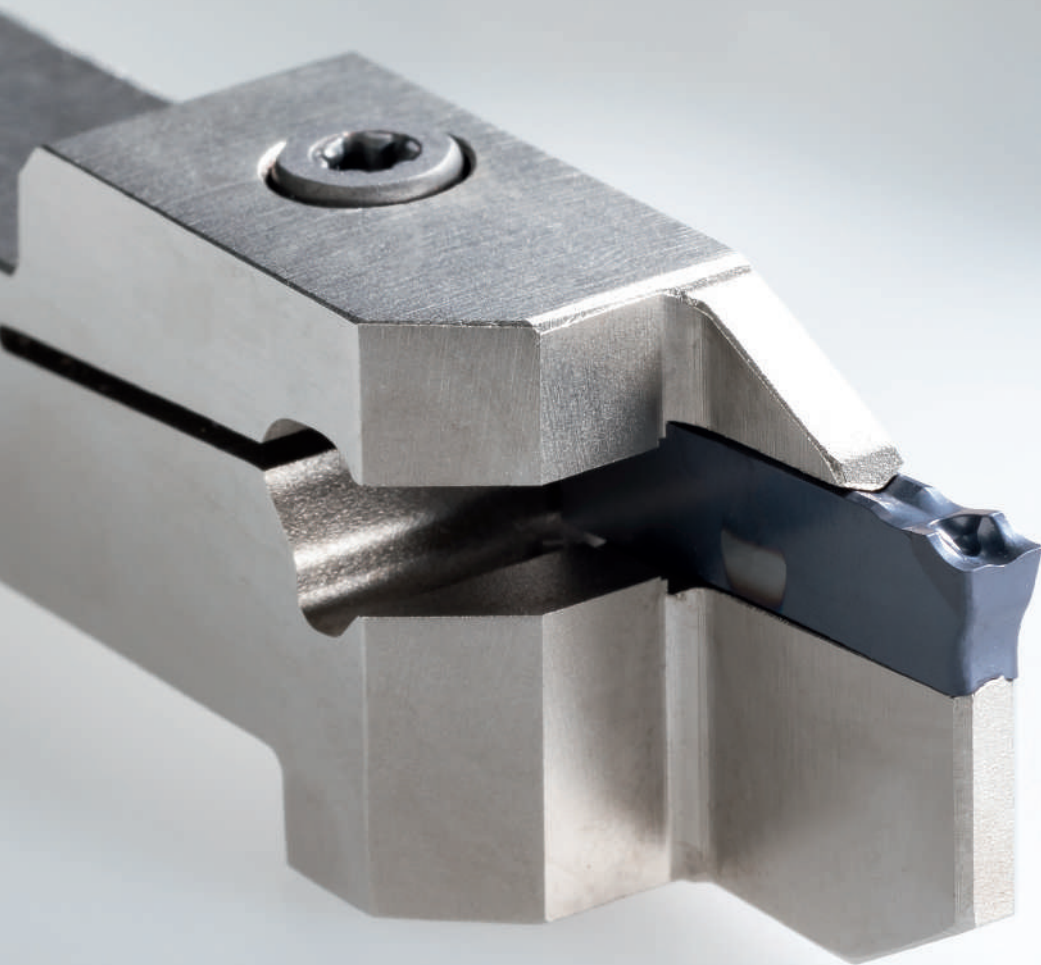
Spare parts *	Designation	Material number	Available
	GK-3 (2 and 3 mm)	12154231	●
	GK-4 (4, 5 and 6 mm)	12154233	●


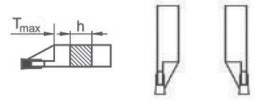
For information on how to use the system go to page 98.

● available from stock, ○ available upon request



Monoblocks

GO/GD

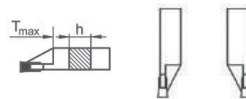






Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-12-GD2402-K-T13	13	12	L	12162709	●
	GMER-12-GD2402-K-T13	13	12	R	12162706	●
	GMEL-16-GD2402-K-T13	13	16	L	12162703	●
	GMER-16-GD2402-K-T13	13	16	R	12162693	●
	GMEL-20-GD2402-K-T13	13	20	L	12162691	●
	GMER-20-GD2402-K-T13	13	20	R	12162690	●
	GMEL-12-GD24015-K-T23	23	12	L	12599654	●
	GMER-12-GD24015-K-T23	23	12	R	12599653	●
	GMEL-16-GD24015-K-T23	23	16	L	12269982	●
	GMER-16-GD24015-K-T23	23	16	R	12599646	●

Spare parts	Designation	Material number
	Key T15	12380791
	Key T20	12380793
	Key SW4	4209
	M3.5X14,0/T15 (for h=12)	11081190
	M4.0X16/T20 (for h=16)	12003031
	M4.0X18/T20 (for h=20)	11007006
	M5.0X20	4492

● available from stock, ○ available upon request



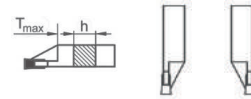
Tool	Designation	T_{max} [mm]	h		Material number	Available
	GMEL-12-GD2403-K-T13	13	12	L	12148458	●
	GMER-12-GD2403-K-T13	13	12	R	12148456	●
	GMEL-16-GD2403-K-T13	13	16	L	12148455	●
	GMER-16-GD2403-K-T13	13	16	R	12148450	●
	GMEL-20-GD2403-K-T13	13	20	L	12148443	●
	GMER-20-GD2403-K-T13	13	20	R	12148440	●
	GMEL-25-GD2403-K-T13	13	25	L	12148436	●
	GMER-25-GD2403-K-T13	13	25	R	12148434	●
	GMEL-16-GD2403-K-T25	25	16	L	12148452	●
	GMER-16-GD2403-K-T25	25	16	R	12148445	●
	GMEL-20-GD2403-K-T25	25	20	L	12148441	●
	GMER-20-GD2403-K-T25	25	20	R	12148437	●
	GMEL-25-GD2403-K-T25	25	25	L	12148435	●
	GMER-25-GD2403-K-T25	25	25	R	12148433	●
	GMEL-32-GD2403-P-T25	25	32	L	14543475	●
	GMER-32-GD2403-P-T25	25	32	R	14543466	●
	GMEL-40-GD2403-S-T25	25	40	L	14543525	●
	GMER-40-GD2403-S-T25	25	40	R	14543492	●


Spare parts








Designation	Material number
Key T15	12380791
Key T20	12380793
M3.5X14.0/T15 (for h=12)	11081190
M4.0X16/T20 (for h=16)	12003031
M4.0X18/T20 (for h=20/25)	11007006

● available from stock, ○ available upon request



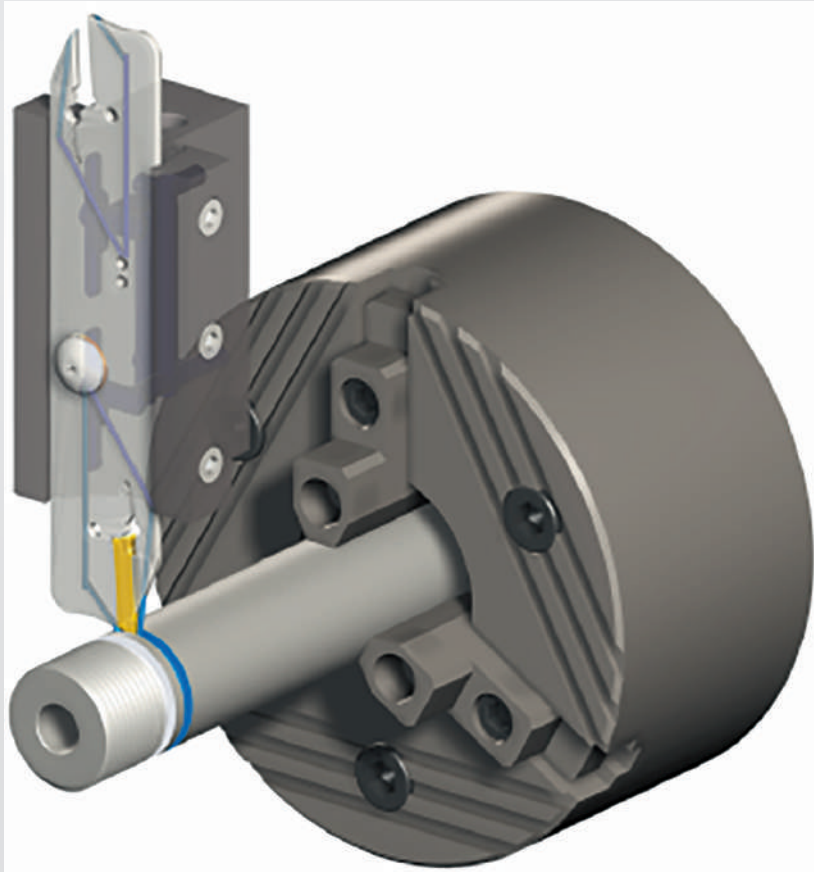
Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-16-GD2404-K-T25	25	16	L	12162689	●
	GMER-16-GD2404-K-T25	25		R	12162737	●
	GMEL-20-GD2404-K-T25	25	20	L	12162734	●
	GMER-20-GD2404-K-T25	25		R	12162729	●
	GMEL-25-GD2404-K-T25	25	25	L	12162726	●
	GMER-25-GD2404-K-T25	25		R	12162714	●
	GMEL-32-GD2404-P-T25	25	32	L	14543480	●
	GMER-32-GD2404-P-T25	25	32	R	14543478	●
	GMEL-40-GD2404-S-T25	25	40	L	14543534	●
	GMER-40-GD2404-S-T25	25	40	R	14543527	●
	GMEL-20-GD2405-M-T25	25	20	L	12545199	●
	GMER-20-GD2405-M-T25	25		R	12545190	●
	GMEL-25-GD2405-M-T25	25	25	L	12376613	●
	GMER-25-GD2405-M-T25	25		R	12376612	●
	GMEL-20-GD2406-M-T25	25	20	L	12545152	●
	GMER-20-GD2406-M-T25	25		R	12545139	●
	GMEL-25-GD2406-M-T25	25	25	L	12545182	●
	GMER-25-GD2406-M-T25	25		R	12545172	●
	GMEL-25-GD3508-P-T32	32	25	L	14420699	●
	GMER-25-GD3508-P-T32	32	25	R	14420698	●
GMEL-32-GD3508-P-T32	32	32	L	14420703	●	
GMER-32-GD3508-P-T32	32	32	R	14420702	●	




Spare parts	Designation	Material number
	Key T20	12380793
	M4.0X16 T20 (for h=16)	12003031
	M4.0X18/T20 (for h=20/25)	11007006
	Key SW5	4496
	M6.0X20	4493


● available from stock, ○ available upon request


Blades GO/GD

with internal cooling



Blades	Designation	T _{max} [mm]	Material number	Available
	GBL-2602-GO2402-C	25	12416853	●
	GBL-3202-GO2402-C	25	12416844	●
	GBR-2602-GO2402-C	25	12416829	●
	GBR-3202-GO2402-C	25	12416818	●
	GBN-2602-GO2402-C	25	12416839	●
	GBN-3202-GO2402-C	25	12295549	●
	GBN-2603-GO2403-C	35	12154026	●
	GBN-3203-GO2403-C	50	12154027	●
	GBN-2604-GO2404-C	35	12528755	●
	GBN-3204-GO2404-C	50	12528758	●
	GBN-3205-GO2405-C	60	14442167	●
	GBN-3206-GO2406-C	60	14442170	●

Spare parts	Designation	Material number
	Key T15 58MM	8095101500
	Coolant screw plug M4X3	11998618

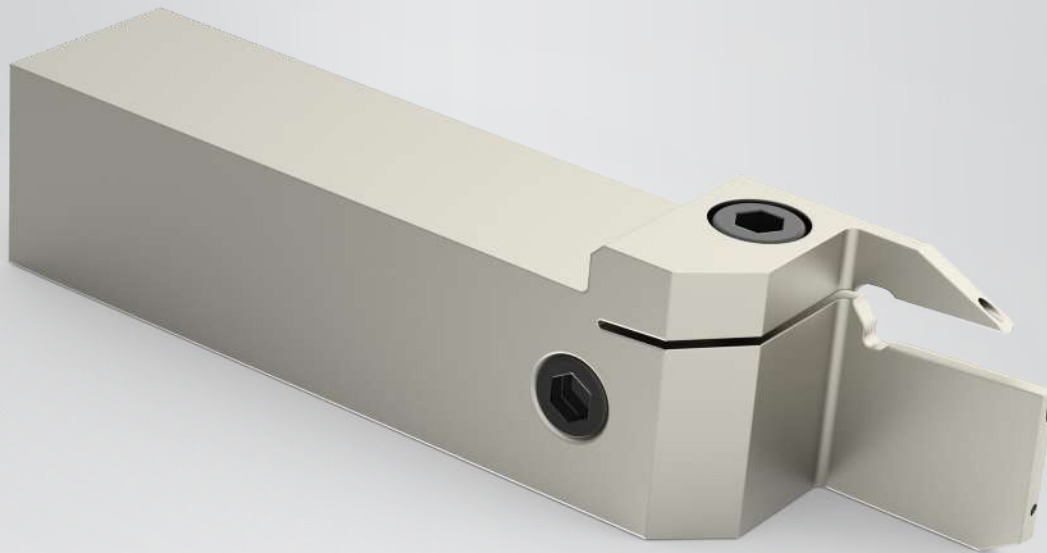
Spare parts *	Designation	Material number
	GK-3 (2 and 3 mm)	12154231
	GK-4 (4, 5 and 6 mm)	12154233

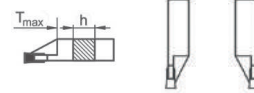
● available from stock, ○ available upon request


For information on how to use the system go to page 96.

Monoblocks GO/GD

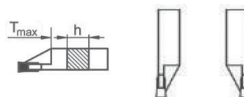
with internal cooling










Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-12-GD2403-K-T13-C	13	12	L	14620950	●
	GMER-12-GD2403-K-T13-C	13	12	R	14620948	●
	GMEL-16-GD2402-K-T13-C	13	16	L	12317045	●
	GMER-16-GD2402-K-T13-C	13	16	R	12317044	●
	GMEL-20-GD2402-K-T13-C	13	20	L	12317048	●
	GMER-20-GD2402-K-T13-C	13	20	R	12317046	●
	GMEL-16-GD2403-K-T25-C	25	16	L	12213519	●
	GMER-16-GD2403-K-T25-C	25	16	R	12213518	●
	GMEL-20-GD2403-K-T25-C	25	20	L	12213516	●
	GMER-20-GD2403-K-T25-C	25	20	R	12213513	●
	GMEL-25-GD2403-K-T25-C	25	25	L	12213509	●
	GMER-25-GD2403-K-T25-C	25	25	R	12213508	●
	GMEL-16-GD2404-K-T25-C	25	16	L	12317036	●
	GMER-16-GD2404-K-T25-C	25	16	R	12317035	●
	GMEL-20-GD2404-K-T25-C	25	20	L	12317041	●
	GMER-20-GD2404-K-T25-C	25	20	R	12317040	●
	GMEL-25-GD2404-K-T25-C	25	25	L	12317034	●
	GMER-25-GD2404-K-T25-C	25	25	R	12317043	●
	GMEL-32-GD2403-P-T25-C	25	32	L	14543537	●
	GMER-32-GD2403-P-T25-C	25	32	R	14543535	●
GMEL-32-GD2404-P-T25-C	25	32	L	14543543	●	
GMER-32-GD2404-P-T25-C	25	32	R	14543540	●	
GMEL-40-GD2403-S-T25-C	25	40	L	14543558	●	
GMER-40-GD2403-S-T25-C	25	40	R	14543546	●	
GMEL-40-GD2404-S-T25-C	25	40	L	14543566	●	
GMER-40-GD2404-S-T25-C	25	40	R	14543564	●	

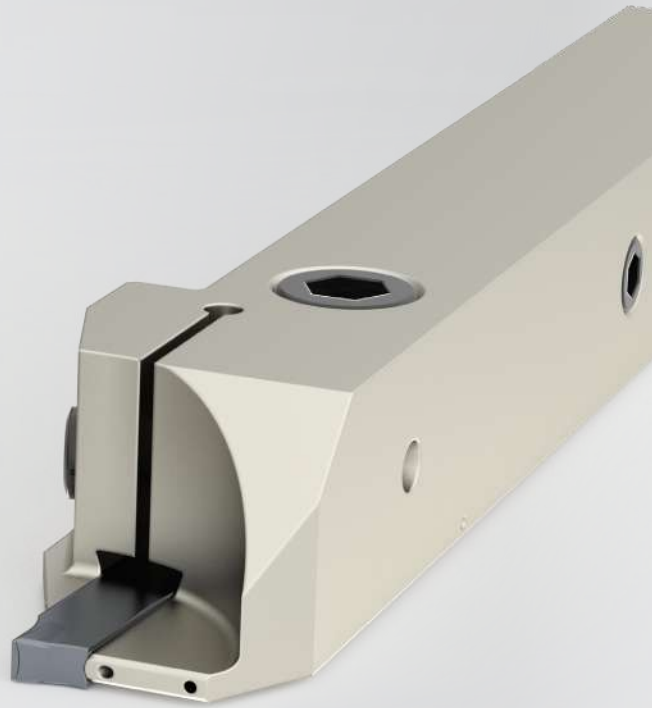
● available from stock, ○ available upon request



Tool	Designation	T_{max} [mm]	h		Material number	Available
	GMEL-20-GD2405-K-T25-C	25	20	L	14752973	●
	GMER-20-GD2405-K-T25-C	25	20	R	14752969	●
	GMEL-20-GD2406-K-T25-C	25	20	L	14752983	●
	GMER-20-GD2406-K-T25-C	25	20	R	14752982	●
	GMEL-25-GD2405-M-T25-C	25	25	L	14753272	●
	GMER-25-GD2405-M-T25-C	25	25	R	14753268	●
	GMEL-25-GD2406-M-T25-C	25	25	L	14753358	●
	GMER-25-GD2406-M-T25-C	25	25	R	14753360	●
	GMEL-40-GD3508-S-T32-C	32	40	L	14543572	●
	GMER-40-GD3508-S-T32-C	32	40	R	14543567	●

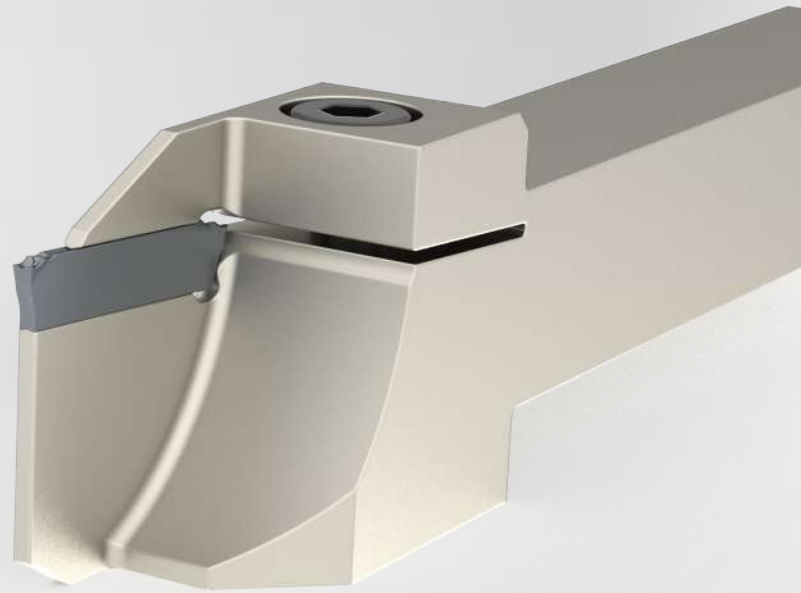
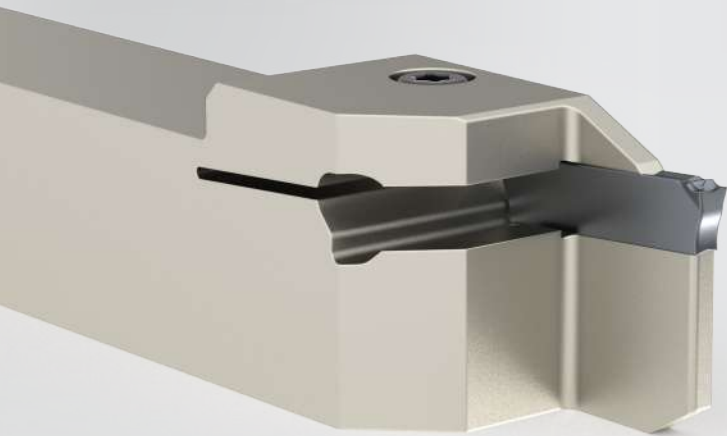
Spare parts	Designation	Material number
	Key SW5	4496
	M6.0x20	4493
	M6x6 DIN 913	11040843
	G1/8 DIN 913	12089802

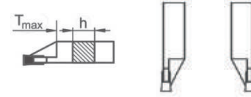
● available from stock, ○ available upon request




Monoblocks GO/GD

– R (reinforced)





Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-12-GD2402-K-T13-R	13	12	L	12562846	●
	GMER-12-GD2402-K-T13-R	13		R	12522212	●
	GMEL-16-GD2402-K-T13-R	13	16	L	12562848	●
	GMER-16-GD2402-K-T13-R	13		R	12522214	●
	GMEL-12-GD2402-K-T21-R	21	12	L	12562851	●
	GMER-12-GD2402-K-T21-R	21		R	12522215	●
	GMEL-16-GD2402-K-T21-R	21	16	L	12562855	●
	GMER-16-GD2402-K-T21-R	21		R	12522216	●
	GMEL-12-GD2403-K-T13-R	13	12	L	12562831	●
	GMER-12-GD2403-K-T13-R	13		R	12522181	●
	GMEL-16-GD2403-K-T13-R	13	16	L	12562835	●
	GMER-16-GD2403-K-T13-R	13		R	12522183	●
	GMEL-12-GD2403-K-T21-R	21	12	L	12562836	●
	GMER-12-GD2403-K-T21-R	21		R	12522210	●
	GMEL-16-GD2403-K-T21-R	21	16	L	12562843	●
	GMER-16-GD2403-K-T21-R	21		R	12522211	●

Spare parts

Designation

Material number



Key T15

12380791



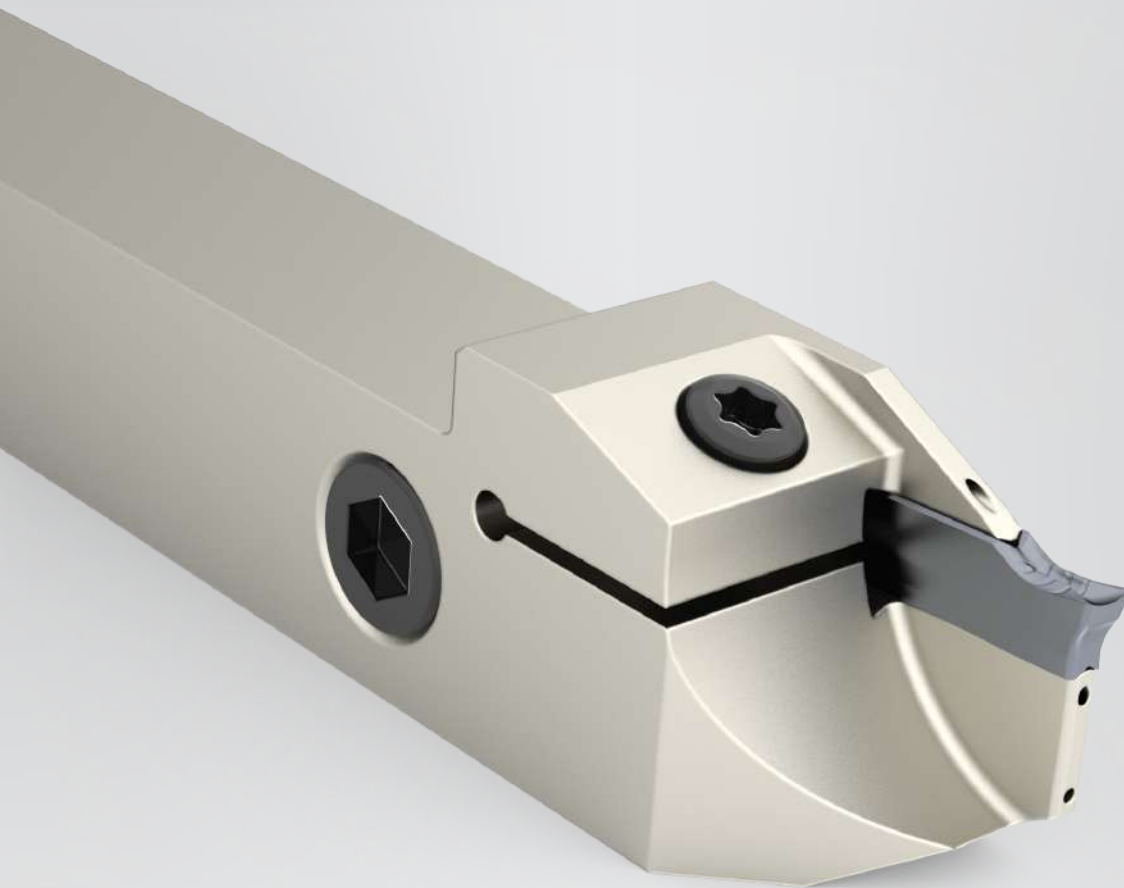
M4.0X14/T15

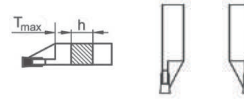
195068


● available from stock, ○ available upon request

Monoblocks GO/GD

-R (reinforced) with internal cooling





Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-12-GD2402-K-T13-R-C	13	12	L	12595600	●
	GMER-12-GD2402-K-T13-R-C	13	12	R	12595599	●
	GMEL-16-GD2402-K-T13-R-C	13	16	L	12562862	●
	GMER-16-GD2402-K-T13-R-C	13	16	R	12522219	●
	GMEL-16-GD2402-K-T21-R-C	21	16	L	12562868	●
	GMER-16-GD2402-K-T21-R-C	21	16	R	12562866	●
	GMEL-12-GD2403-K-T13-R-C	13	12	L	12595597	●
	GMER-12-GD2403-K-T13-R-C	13	12	R	12595596	●
	GMEL-16-GD2403-K-T13-R-C	13	16	L	12562859	●
	GMER-16-GD2403-K-T13-R-C	13	16	R	12562875	●
	GMEL-16-GD2403-K-T21-R-C	21	16	L	12562861	●
	GMER-16-GD2403-K-T21-R-C	21	16	R	12522218	●

Spare parts



Designation

Material number

Key T15

12380791

M4.0X14/T15

195068

M6.0X6.0 DIN 913

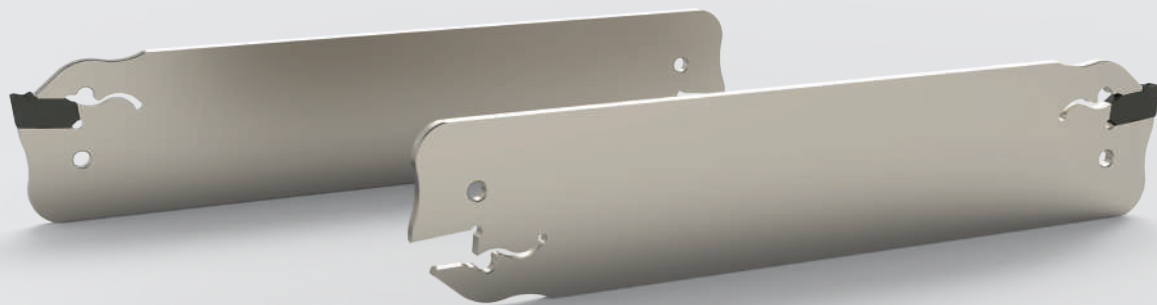
11040843


G1/8 DIN 913


12089802


● available from stock, ○ available upon request

Blades GS



Blades	Designation	T _{max} [mm]	Material number	Available
	GBR-2602-GS02	25	12167546	●
	GBL-2602-GS02	25	12167544	●
	GBR-3202-GS02	25	12167553	●
	GBL-3202-GS02	25	12167550	●
	GBN-2603-GS03	35	11896198	●
	GBN-3203-GS03	50	11896189	●

Blades	Designation	T _{max} [mm]	Material number	Available
	GBN-2604-GS04	40	11896196	●
	GBN-3204-GS04	50	11896181	●
	GBN-3205-GS05	55	12170445	●
	GBN-3206-GS06	60	12170446	●

Spare parts *	Designation	Material number
	GK-3 (2 and 3 mm)	12154231
	GK-4 (4, 5 and 6 mm)	12154233




● available from stock, ○ available upon request


For information on how to use the system go to page 96.


Blades GS

with internal cooling



Blades	Designation	T _{max} [mm]	Material number	Available
	GBL-2602-GS02-C	25	12258634	●
	GBL-3202-GS02-C	25	12258689	●
	GBR-2602-GS02-C	25	12258498	●
	GBR-3202-GS02-C	25	12258693	●
	GBN-2603-GS03-C	35	12258695	●
	GBN-3203-GS03-C	50	12258698	●
	GBN-2604-GS04-C	40	12260542	●
	GBN-3204-GS04-C	50	12260546	●

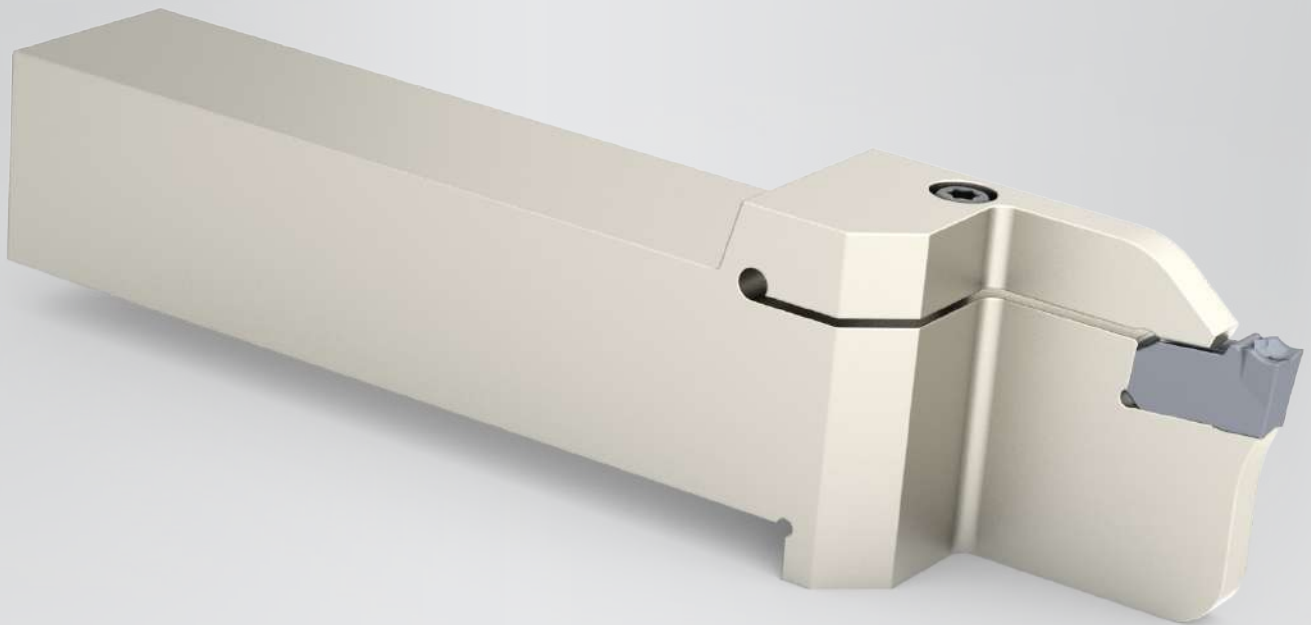
Spare parts	Designation	Material number
	Key T15 58 MM	8095101500
	Coolant screw plug M4X3	11998618

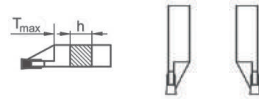
Spare parts *	Designation	Material number
	GK-3 (2 and 3 mm)	12154231
	GK-4 (4, 5 and 6 mm)	12154233


● available from stock, ○ available upon request



For information on how to use the system go to page 96.

Monoblocks GS



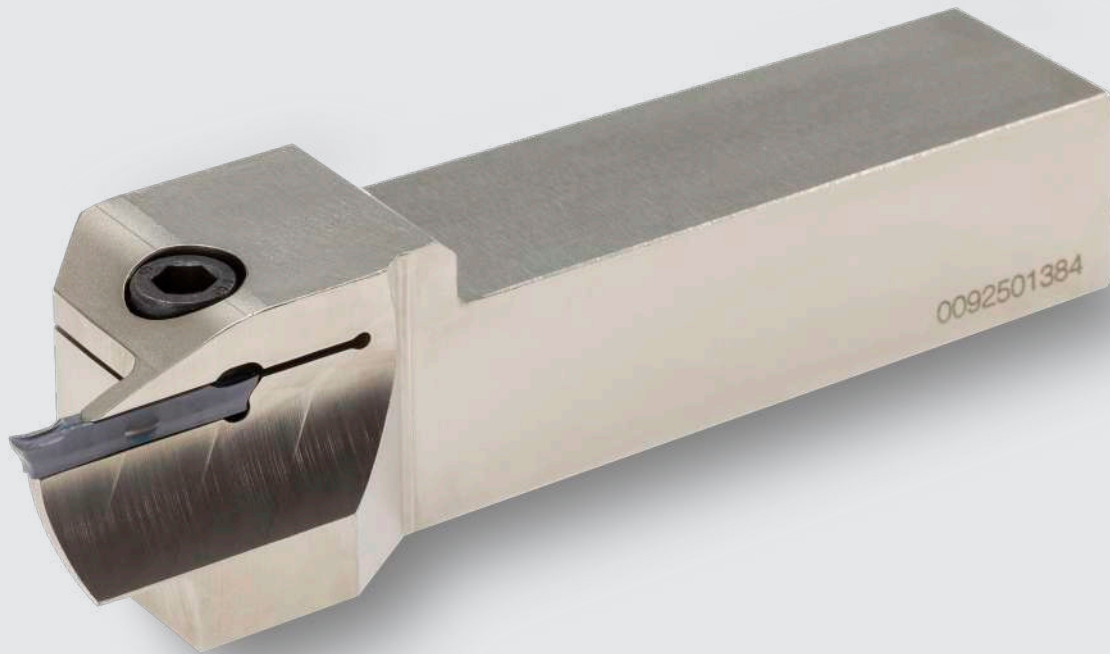


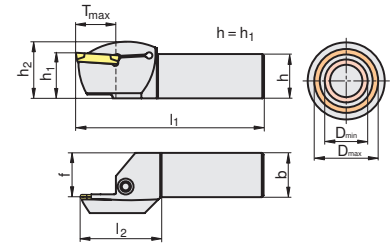
Tool	Designation	T _{max} [mm]	h		Material number	Available
	GMEL-16-GS02-K-T20	20	16	L	14640098	●
	GMER-16-GS02-K-T20	20	16	R	14640108	●
	GMEL-16-GS03-K-T20	20	16	L	14418730	●
	GMER-16-GS03-K-T20	20	16	R	12014659	●
	GMEL-20-GS02-K-T20	20	20	L	14640088	●
	GMER-20-GS02-K-T20	20	20	R	14640093	●
	GMEL-20-GS03-K-T20	20	20	L	14418731	●
	GMER-20-GS03-K-T20	20	20	R	12014658	●
	GMEL-20-GS04-K-T25	25	20	L	14640077	●
	GMER-20-GS04-K-T25	25	20	R	14640086	●
	GMEL-20-GS05-K-T25	25	20	L	14640019	●
	GMER-20-GS05-K-T25	25	20	R	14640027	●
	GMEL-20-GS06-K-T25	25	20	L	14640035	●
	GMER-20-GS06-K-T25	25	20	R	14640057	●
	GMEL-25-GS03-M-T20	20	25	L	14418735	●
	GMER-25-GS03-M-T20	20	25	R	12014657	●
	GMEL-25-GS04-M-T25	25	25	L	14640046	●
	GMER-25-GS04-M-T25	25	25	R	14640064	●
	GMEL-25-GS05-M-T25	25	25	L	12172251	●
	GMER-25-GS05-M-T25	25	25	R	12172252	●
	GMEL-25-GS06-M-T32	32	25	L	12172246	●
	GMER-25-GS06-M-T32	32	25	R	12172249	●

Spare parts	Designation	Material number
	Key T20	12380793
	M4.0X18/T20	11007006

● available from stock, ○ available upon request

Monoblocks GA



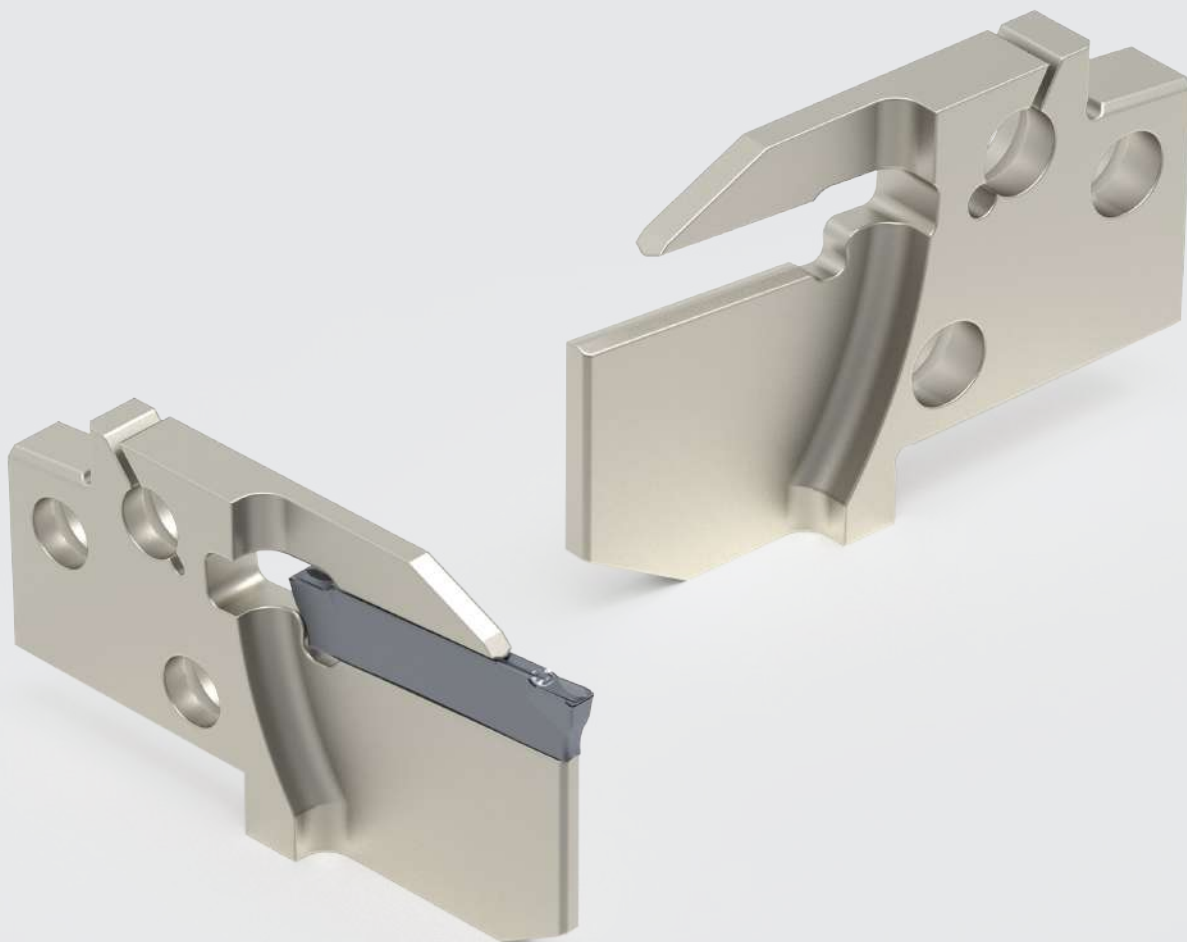


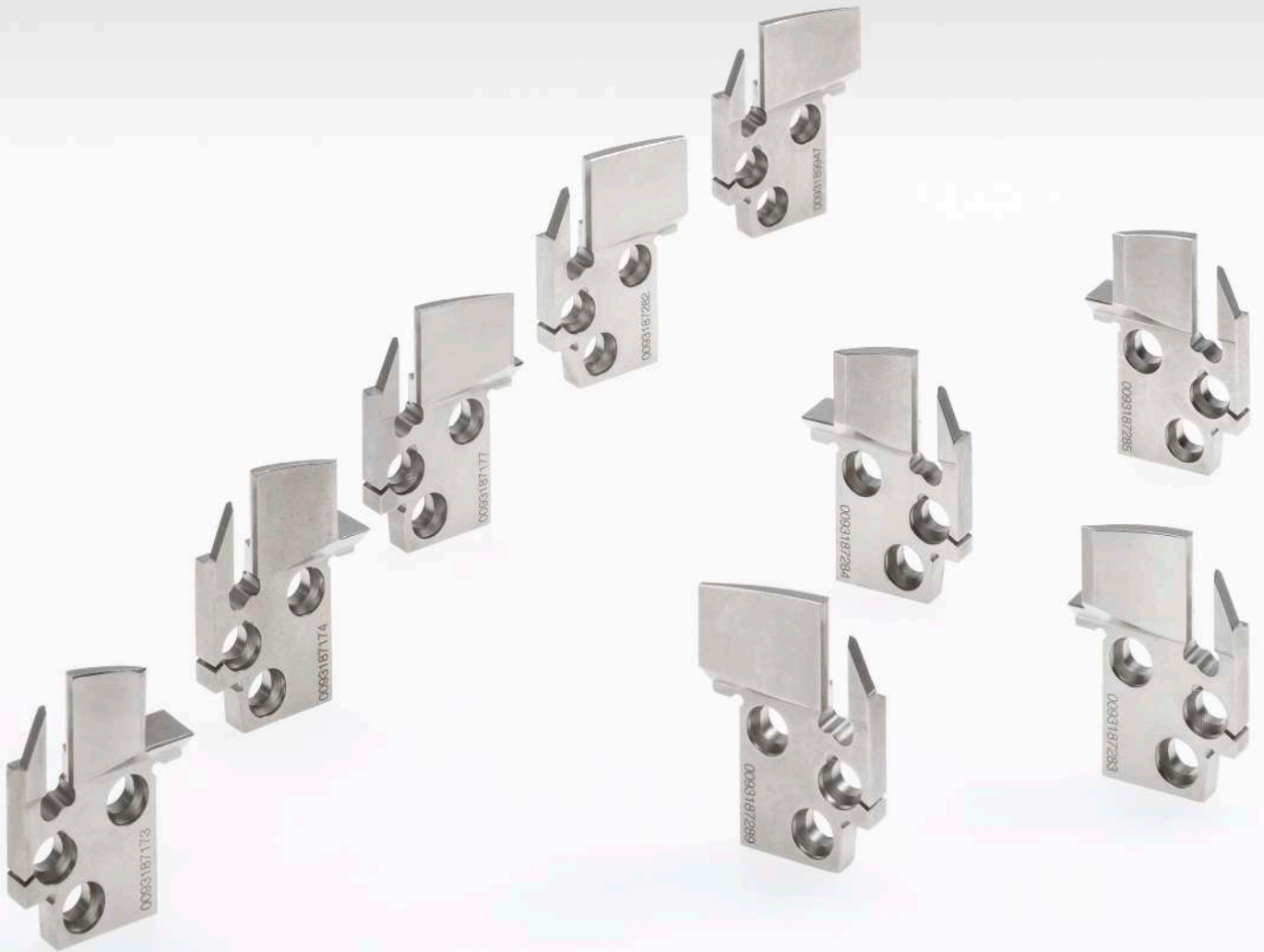
Designation	s [mm]	T _{max} [mm]	D _{min} [mm]	D _{max} [mm]	h = h ₁ [mm]	h ₂ [mm]	b [mm]	l ₁ [mm]	l ₂ [mm]	f [mm]	Material number	Available
GMAR-25-GA03-K-T13-40-50	3	13	40	50	25	33	25	125	39.7	24.3	12624781	●
GMAR-25-GA03-K-T13-50-60	3	13	50	60	25	33	25	125	39.7	24.3	12624782	●
GMAR-25-GA03-K-T13-60-75	3	13	60	75	25	33	25	125	39.7	24.3	12624787	●
GMAR-25-GA03-K-T13-75-100	3	13	75	100	25	33	25	125	39.7	24.3	12624789	●
GMAR-25-GA03-K-T13-100-140	3	13	100	140	25	33	25	125	39.7	24.3	12624778	●
GMAR-25-GA03-K-T13-140-200	3	13	140	200	25	33	25	125	39.7	24.3	12624779	●
GMAL-25-GA03-K-T13-40-50	3	13	40	50	25	33	25	125	39.7	24.3	12624771	●
GMAL-25-GA03-K-T13-50-60	3	13	50	60	25	33	25	125	39.7	24.3	12624773	●
GMAL-25-GA03-K-T13-60-75	3	13	60	75	25	33	25	125	39.7	24.3	12624775	●
GMAL-25-GA03-K-T13-75-100	3	13	75	100	25	33	25	125	39.7	24.3	12624776	●
GMAL-25-GA03-K-T13-100-140	3	13	100	140	25	33	25	125	39.7	24.3	12624767	●
GMAL-25-GA03-K-T13-140-200	3	13	140	200	25	33	25	125	39.7	24.3	12624769	●
GMAR-25-GA04-K-T13-40-50	4	13	40	50	25	33	25	125	39.7	24.3	14590378	●
GMAR-25-GA04-K-T13-50-60	4	13	50	60	25	33	25	125	39.7	24.3	14590379	●
GMAR-25-GA04-K-T13-60-75	4	13	60	75	25	33	25	125	39.7	24.3	14590380	●
GMAR-25-GA04-K-T13-75-100	4	13	75	100	25	33	25	125	39.7	24.3	14590384	●
GMAR-25-GA04-K-T13-100-140	4	13	100	140	25	33	25	125	39.7	24.3	14590388	●
GMAR-25-GA04-K-T13-140-200	4	13	140	200	25	33	25	125	39.7	24.3	14590389	●
GMAL-25-GA04-K-T13-40-50	4	13	40	50	25	33	25	125	39.7	24.3	14590390	●
GMAL-25-GA04-K-T13-50-60	4	13	50	60	25	33	25	125	39.7	24.3	14590392	●
GMAL-25-GA04-K-T13-60-75	4	13	60	75	25	33	25	125	39.7	24.3	14590393	●
GMAL-25-GA04-K-T13-75-100	4	13	75	100	25	33	25	125	39.7	24.3	14590394	●
GMAL-25-GA04-K-T13-100-140	4	13	100	140	25	33	25	125	39.7	24.3	14590395	●
GMAL-25-GA04-K-T13-140-200	4	13	140	200	25	33	25	125	39.7	24.3	14590396	●
GMAR-25-GA05-M-20-45-60	5	20	45	60	25	33	25	150	39	23.3	14646118	●
GMAR-25-GA05-M-20-60-75	5	20	60	75	25	33	25	150	39	23.3	14646121	●
GMAR-25-GA05-M-28-75-100	5	28	75	100	25	33	25	150	47	23.3	14646122	●
GMAR-25-GA05-M-28-100-180	5	28	100	180	25	33	25	150	47	23.3	14646123	●
GMAR-25-GA05-M-32-180-400	5	32	180	400	25	33	25	150	51	23.3	14646128	●
GMAL-25-GA05-M-20-45-60	5	20	45	60	25	33	25	150	39	23.3	14646129	●
GMAL-25-GA05-M-20-60-75	5	20	60	75	25	33	25	150	39	23.3	14646130	●
GMAL-25-GA05-M-28-75-100	5	28	75	100	25	33	25	150	47	23.3	14646131	●
GMAL-25-GA05-M-28-100-180	5	28	100	180	25	33	25	150	47	23.3	14646132	●
GMAL-25-GA05-M-32-180-400	5	32	180	400	25	33	25	150	51	23.3	14646133	●

● available from stock, ○ available upon request

Module

NEW

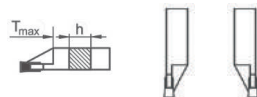





Module GO/GD

Radial





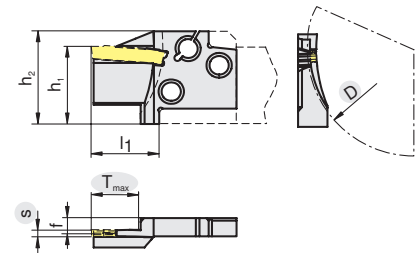
Tool	Designation	T _{max} [mm]	h	Material number	Available	
	GEML-2002-GO2402-T25	25	20	L	12578880	●
	GEMR-2002-GO2402-T25	25	20	R	12578890	●
	GEML-2003-GO2403-T25	25	20	L	12578885	●
	GEMR-2003-GO2403-T25	25	20	R	12578892	●
	GEML-2004-GO2404-T25	25	20	L	12578889	●
	GEMR-2004-GO2404-T25	25	20	R	12578893	●
	GEML-2005-GO2405-T25	25	20	L	14741456	●
	GEMR-2005-GO2405-T25	25	20	R	14743054	●
	GEML-2006-GO2406-T25	25	20	L	14743055	●
	GEMR-2006-GO2406-T25	25	20	R	14743056	●
	GEML-2502-GO2402-T25	25	25	L	12599637	●
	GEMR-2502-GO2402-T25	25	25	R	12599628	●
	GEML-2503-GO2403-T25	25	25	L	12599640	●
	GEMR-2503-GO2403-T25	25	25	R	12599630	●
	GEML-2504-GO2404-T25	25	25	L	12599643	●
	GEMR-2504-GO2404-T25	25	25	R	12599635	●
	GEML-2505-GO2405-T25	25	25	L	14743057	●
	GEMR-2505-GO2405-T25	25	25	R	14743058	●
	GEML-2506-GO2406-T25	25	25	L	14743059	●
	GEMR-2506-GO2406-T25	25	25	R	14743061	●

Module GA

Axial

NEW

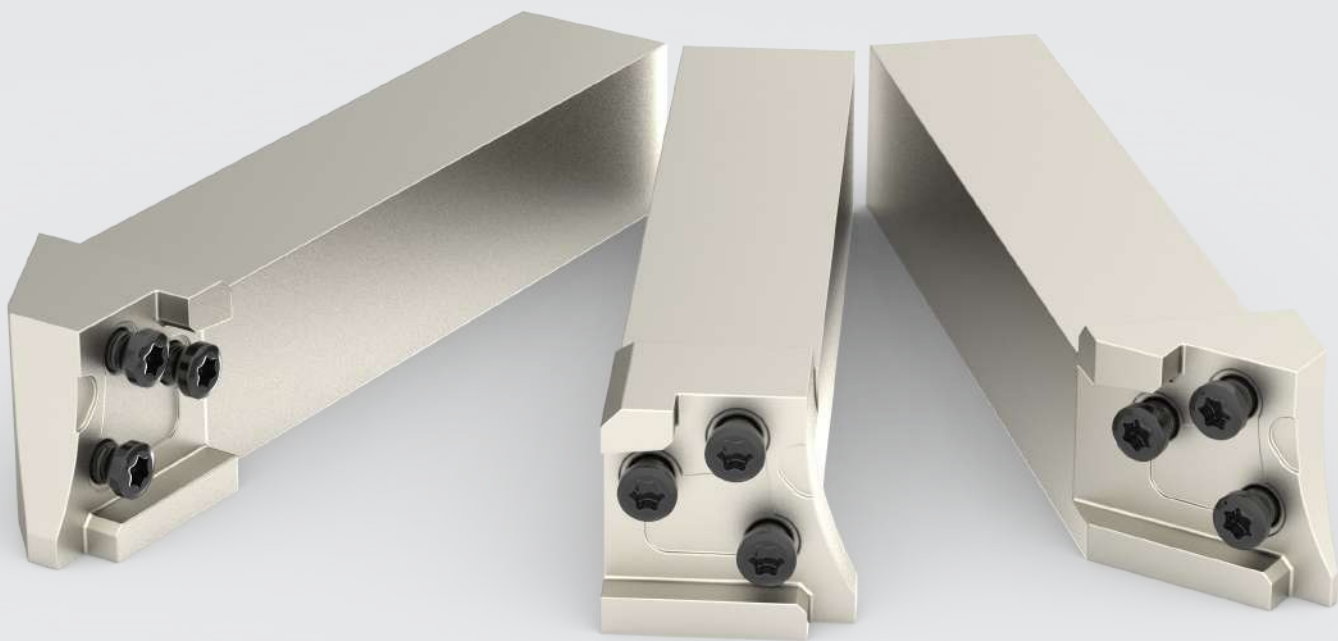






Designation	s [mm]	T _{max} [mm]	D _{min} [mm]	D _{max} [mm]	h = h ₁ [mm]	h ₂ [mm]	l ₁ [mm]	f [mm]	Material number	Available
GAMR-2503-GA2403-T15-40-50	3	15	40	50	25	30	22	4.9	14463975	●
GAMR-2503-GA2403-T15-50-60	3	15	50	60	25	30	22	4.9	14463983	●
GAMR-2503-GA2403-T15-60-75	3	15	60	75	25	30	22	4.9	14464017	●
GAMR-2503-GA2403-T15-75-100	3	15	75	100	25	30	22	4.9	14464019	●
GAMR-2503-GA2403-T15-100-140	3	15	100	140	25	30	22	4.9	14464021	●
GAMR-2503-GA2403-T15-140-200	3	15	140	200	25	30	22	4.9	14464024	●
GAML-2503-GA2403-T15-40-50	3	15	40	50	25	30	22	4.9	14463992	●
GAML-2503-GA2403-T15-50-60	3	15	50	60	25	30	22	4.9	14464003	●
GAML-2503-GA2403-T15-60-75	3	15	60	75	25	30	22	4.9	14464004	●
GAML-2503-GA2403-T15-75-100	3	15	75	100	25	30	22	4.9	14464005	●
GAML-2503-GA2403-T15-100-140	3	15	100	140	25	30	22	4.9	14464007	●
GAML-2503-GA2403-T15-140-200	3	15	140	200	25	30	22	4.9	14464009	●
GAMR-2504-GA2404-T15-40-50	4	15	40	50	25	30	22	4.4	14482809	●
GAMR-2504-GA2404-T15-50-60	4	15	50	60	25	30	22	4.4	14482811	●
GAMR-2504-GA2404-T15-60-75	4	15	60	75	25	30	22	4.4	14482813	●
GAMR-2504-GA2404-T15-75-100	4	15	75	100	25	30	22	4.4	14482815	●
GAMR-2504-GA2404-T15-100-140	4	15	100	140	25	30	22	4.4	14482816	●
GAMR-2504-GA2404-T15-140-200	4	15	140	200	25	30	22	4.4	14482819	●
GAML-2504-GA2404-T15-40-50	4	15	40	50	25	30	22	4.4	14482788	●
GAML-2504-GA2404-T15-50-60	4	15	50	60	25	30	22	4.4	14482790	●
GAML-2504-GA2404-T15-60-75	4	15	60	75	25	30	22	4.4	14482794	●
GAML-2504-GA2404-T15-75-100	4	15	75	100	25	30	22	4.4	14482797	●
GAML-2504-GA2404-T15-100-140	4	15	100	140	25	30	22	4.4	14482800	●
GAML-2504-GA2404-T15-140-200	4	15	140	200	25	30	22	4.4	14482804	●

● available from stock, ○ available upon request

Module Holder



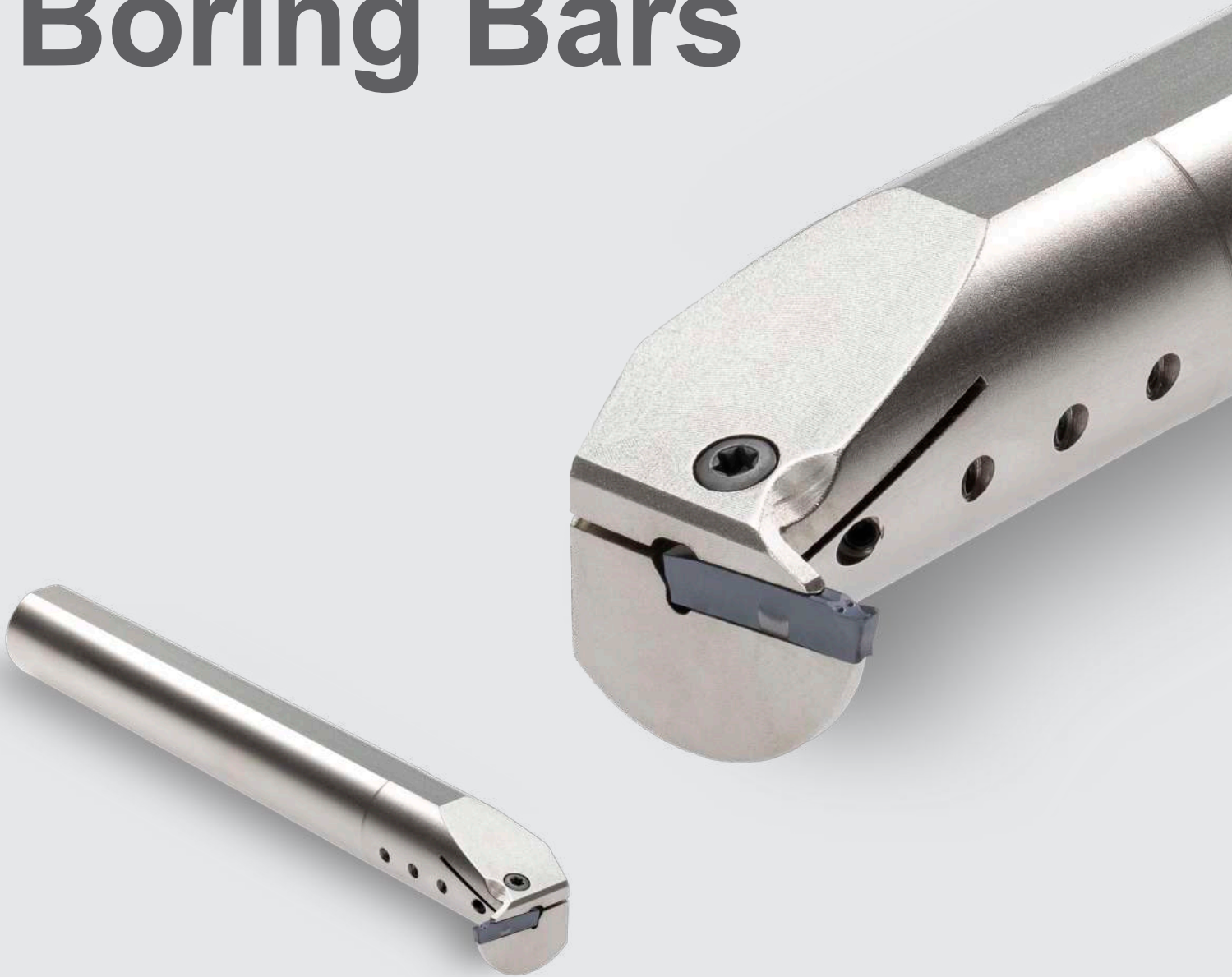
Tool	Designation	s	Module Radial	Module axial	Material number	Available
	GEMHL-M-2020-00-J	0	GEML-20		12578894	●
	GEMHR-M-2020-00-J	0	GEMR-20		12578903	●
	GEMHL-M-2020-45-J	45	GEMR-20		12578896	●
	GEMHR-M-2020-45-J	45	GEML-20		12578904	●
	GEMHL-M-2020-90-J	90	GEML-20		12578897	●
	GEMHR-M-2020-90-J	90	GEMR-20		12578905	●
	GEMHL-M-2525-00-L	0	GEML-25	GAML-25	12578898	●
	GEMHR-M-2525-00-L	0	GEMR-25	GAMR-25	12578906	●
	GEMHL-M-2525-45-L	45	GEMR-25	GAMR-25	12578899	●
	GEMHR-M-2525-45-L	45	GEML-25	GAML-25	12578908	●
	GEMHL-M-2525-90-L	90	GEMR-25	GAMR-25	12578900	●
	GEMHR-M-2525-90-L	90	GEML-25	GAML-25	12578918	●

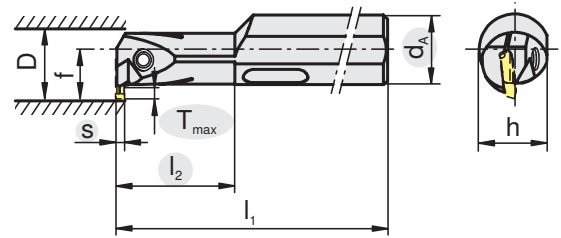
Spare parts	Designation	Material number
	Key T15	220983
	Key T20	220985
	M4.0X11/T15	219981
	M4.0X14/T15	195068
	M5.0X13.5/T20	219982
	M5.0X18/T20	195069

● available from stock, ○ available upon request

Boring Bars

NEW





Designation	d_A [mm]	T_{max} [mm]	s [mm]	h [mm]	f [mm]	l_1 [mm]	l_2 [mm]	D_{min} [mm]	Material number	Available
GMIR-25-GD2402-T08-C	25	8	2	24.4	21	200	52	32	14579550	●
GMIR-25-GD2403-T09-C	25	9	3	24.5	22	200	52	32	14579559	●
GMIR-32-GD2403-T11-C	32	11	3	31	27.5	250	64	42	14531572	●
GMIR-32-GD2404-T11-C	32	11	4	31	27.5	250	64	42	14579577	●
GMIR-40-GD2404-T12-C	40	12	4	38.5	32.5	300	80	53	14579584	●
GMIR-40-GD2405-T12-C	40	12	5	38.5	32.5	300	80	53	14579589	●
GMIL-25-GD2402-T08-C	25	8	2	24.4	21	200	52	32	14579552	●
GMIL-25-GD2403-T09-C	25	9	3	24.5	22	200	52	32	14579575	●
GMIL-32-GD2403-T11-C	32	11	3	31	27.5	250	64	42	14579548	●
GMIL-32-GD2404-T11-C	32	11	4	31	27.5	250	64	42	14579582	●
GMIL-40-GD2404-T12-C	40	12	4	38.5	32.5	300	80	53	14579587	●
GMIL-40-GD2405-T12-C	40	12	5	38.5	32.5	300	80	53	14579592	●

Spare parts



Designation

Material number

Key T20

220985

M5.0X18/T20

195069

M4.0X4.0 DIN 913

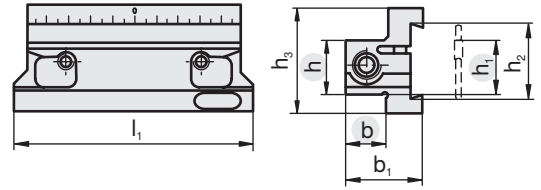
12102130

● available from stock, ○ available upon request

Clamping block




SCB



Designation	Material	h_2 [mm]	h [mm]	h_1 [mm]	h_3 [mm]	l_1 [mm]	b [mm]	b_1 [mm]	For blade	Available
SCB-GB26-2020	12279141	26	20	20	43	90	20	37	GBN...26...	●
SCB-GB32-2520	12279142	32	25	25	49	110	20	38	GBN...32...	●

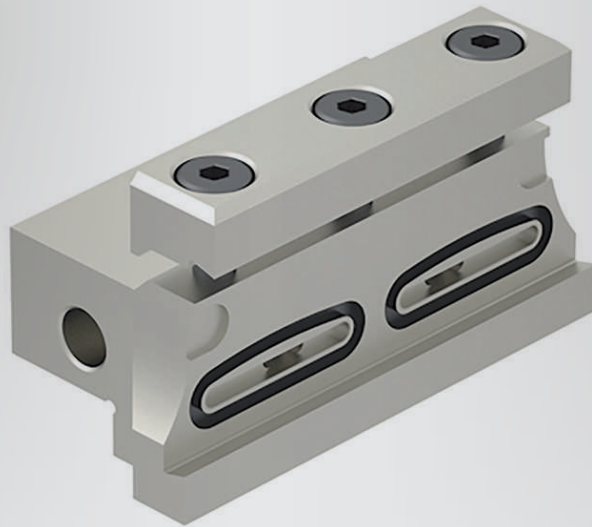
Spare part for clamping block without cooling

Spare parts	Designation	Material number
	Clamping screw M6.0x25	22485

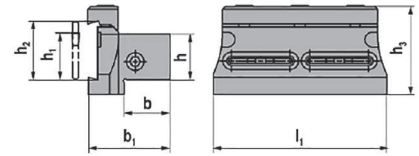
● available from stock, ○ available upon request

Clamping block

with internal cooling





Range



Designation	Material	h_2 [mm]	h [mm]	h_1 [mm]	h_3 [mm]	l_1 [mm]	b [mm]	b_1 [mm]	For blade	Available
SCB-GB26-2020-C	12279139	26	20	20	43	82	20	40	GBN...26...	●
SCB-GB32-2525-C	12279137	32	25	25	49	95	25	44.5	GBN...32...	●

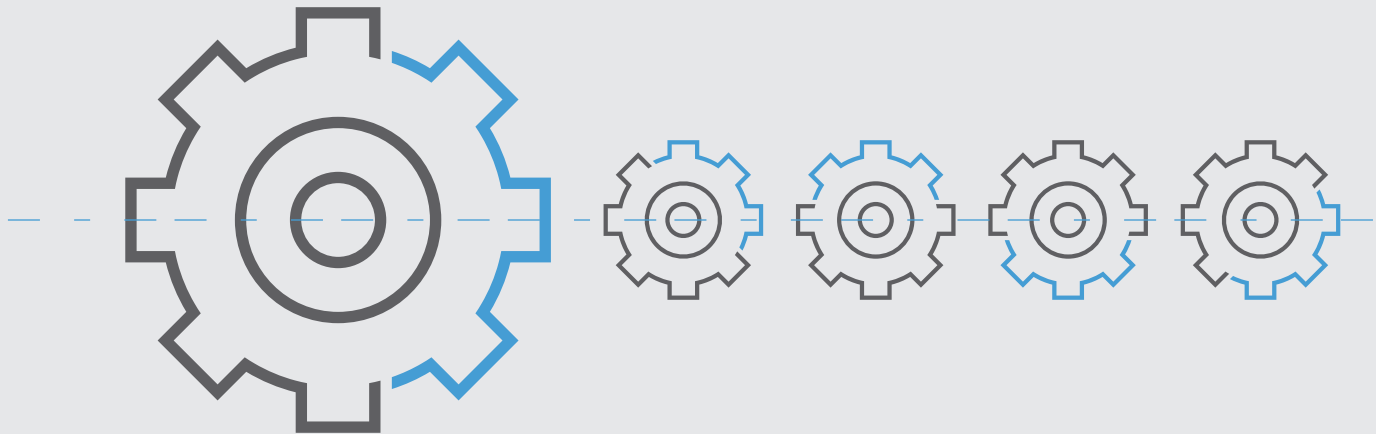
Spare part for clamping block with cooling

Spare parts	Designation	Material number
	Grub screw M6.0x8	11960993
	Clamping screw M6.0x12	11776816

● available from stock, ○ available upon request



Technical information



How to use the system?



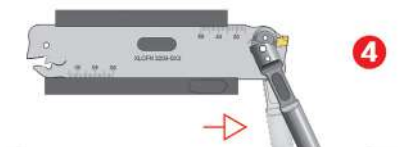
Insert mounting key with handle towards the front into the 2 tool location points



When moving the mounting key in the direction of the arrows the insert seat is opened



Position the insert pressing it against the location face



Moving the mounting key forward the insert seat locks and insert is clamped securely



i When changing the inserts, always maintain tension on the key!

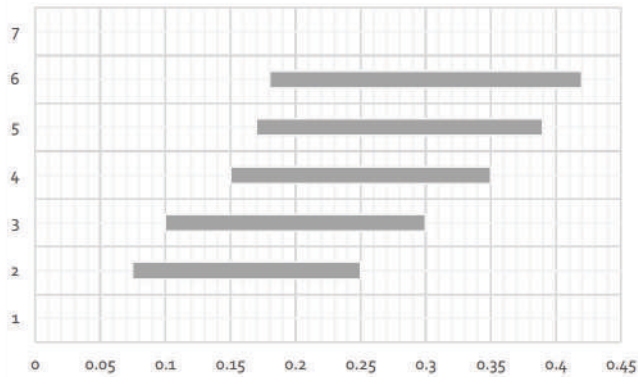
Feed rate recommendation



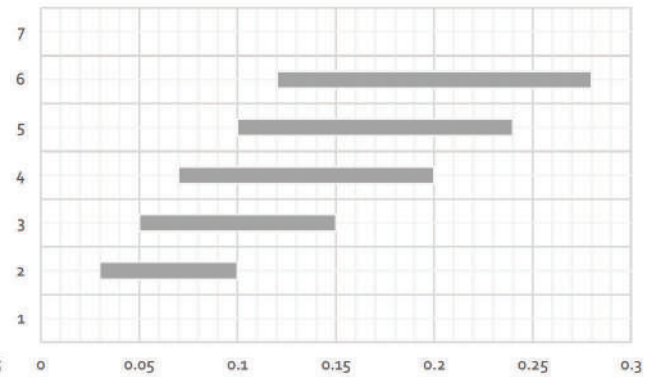
When axial grooving reduce feed by 40%.

Cutting width s [mm]

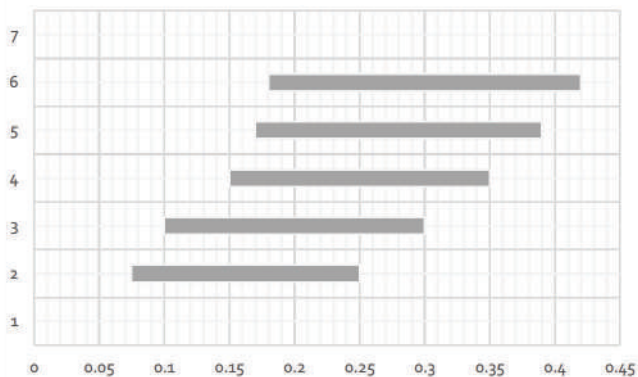
GPP



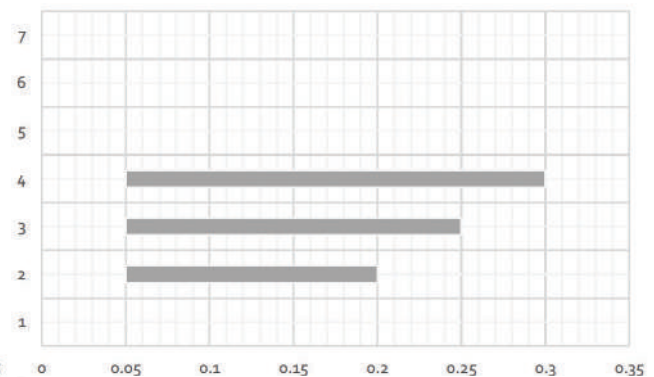
GUP



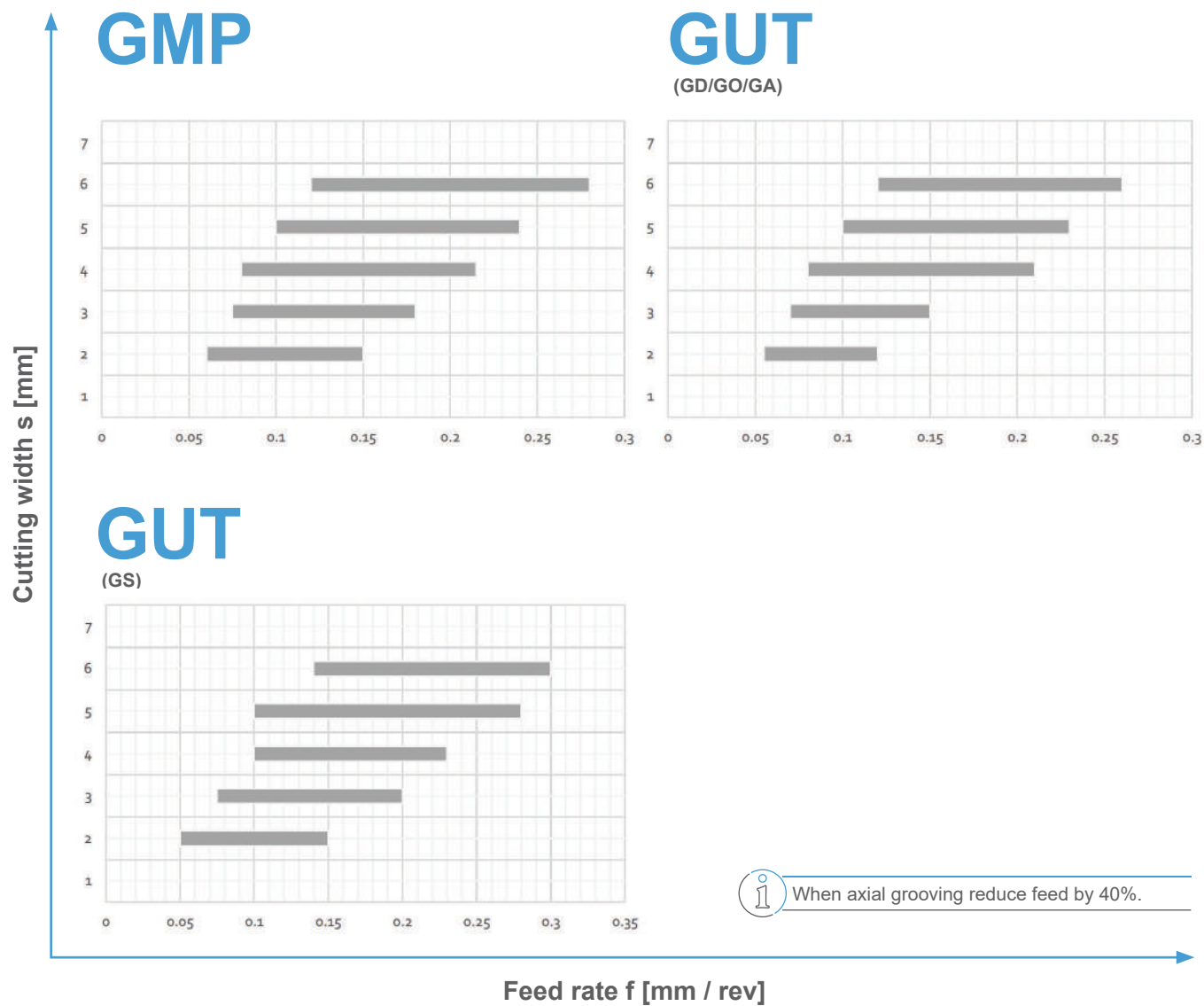
GPR



GNT



Feed rate f [mm / rev]



Feed rate recommendation

GUT

(GD/GO/GA)

Cutting width	0.5	1	1.5	2	2.5	3	3.5
	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)
	feed rate f mm/rev						
2	0.10 – 0.15	0.05 – 0.15	0.05 – 0.12	0.05 – 0.10			
3	0.10 – 0.17	0.05 – 0.17	0.05 – 0.17	0.05 – 0.15	0.05 – 0.12		
4	0.10 – 0.20	0.07 – 0.20	0.07 – 0.20	0.07 – 0.20	0.07 – 0.17	0.07 – 0.15	
5	0.10 – 0.25	0.10 – 0.25	0.07 – 0.25	0.07 – 0.25	0.07 – 0.22	0.07 – 0.20	
6	0.15 – 0.30	0.15 – 0.30	0.15 – 0.30	0.15 – 0.30	0.15 – 0.30	0.15 – 0.25	0.15 – 0.22

GUT

(GS)

Cutting width	0.5	1	1.5	2	2.5	3
	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)
	feed rate f mm/rev					
2	0.05 – 0.17	0.05 – 0.13	0.05 – 0.10			
3	0.07 – 0.20	0.07 – 0.20	0.07 – 0.18	0.07 – 0.15		
4	0.10 – 0.25	0.10 – 0.25	0.10 – 0.25	0.10 – 0.22	0.10 – 0.18	
5	0.12 – 0.27	0.12 – 0.27	0.12 – 0.27	0.12 – 0.25	0.12 – 0.22	
6	0.15 – 0.30	0.15 – 0.30	0.15 – 0.30	0.15 – 0.30	0.15 – 0.25	0.15 – 0.20

GPR / GMR

Cutting width	0.5	1	1.5	2	2.5	3
	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)	a_p (mm)
	feed rate f mm/rev					
2	0.15 – 0.30	0.15 – 0.27				
3	0.15 – 0.35	0.15 – 0.35	0.15 – 0.30			
4	0.15 – 0.40	0.15 – 0.40	0.15 – 0.40	0.15 – 0.30		
5	0.15 – 0.50	0.15 – 0.50	0.15 – 0.50	0.15 – 0.40	0.15 – 0.35	
6	0.20 – 0.70	0.20 – 0.70	0.20 – 0.70	0.20 – 0.60	0.20 – 0.50	0.20 – 0.40

Cutting speed recommendation

GPP, GUP, GUT, GPR

Work piece material	Type of treatment/ally	Hardness HB	Coated carbide			
			CTP1340 v_c [m/min]	CTCP320ST v_c [m/min]	CTPP345 v_c [m/min]	
P	Steel	non alloyed steel 0.15% – 0.45% C	150 – 250	80 – 180	110 – 190	80 – 150
		low alloyed steel tempered	250 – 300	60 – 150	110 – 180	70 – 120
		high alloyed steel tempered	350	50 – 120	70 – 160	60 – 100
		corrosion resistant steel annealed	200	50 – 200	120 – 200	90 – 160
M	Stainless steel	annealed pearlitic	200	50 – 200	120 – 200	100 – 180
		quenched austenitic	180	50 – 180	100 – 170	80 – 150
		quenched duplex	230 – 260	50 – 100	70 – 110	70 – 110
		hardened martensitic	330	50 – 80	60 – 90	60 – 90
K	Cast iron	grey cast iron	180	100 – 200	90 – 180	–
		spheroidal	160	100 – 180	100 – 160	–
		malleable pearlitic	130	80 – 160	80 – 150	–

GMP, GMR

Work piece material	Type of treatment/ally	Hardness HB	Coated carbide			
			CTP1340 v_c [m/min]	CTCP320ST v_c [m/min]	CTPP345 v_c [m/min]	
M	Stainless steel	annealed pearlitic	200	50 – 200	120 – 200	100 – 180
		quenched austenitic	180	50 – 180	100 – 170	80 – 150
		quenched duplex	230 – 260	50 – 100	70 – 110	70 – 110
		hardened martensitic	330	50 – 80	60 – 90	60 – 90
S	Exotic	Fe base	200	–	–	20 – 45
		Nickel or cobalt base	250	–	–	15 – 25
		Titanium	Rm 440	–	–	50 – 120

GNT

Work piece material	Type of treatment/alloy	Hardness HB	Uncoated carbide CTWN715 v_c [m/min]	
N	Non-ferrous	Aluminium wrought alloys	100	200 – 2000
		Aluminium cast alloys < 12% Si	90	400 – 1500
		Copper alloys (bronze)	90	200 – 600

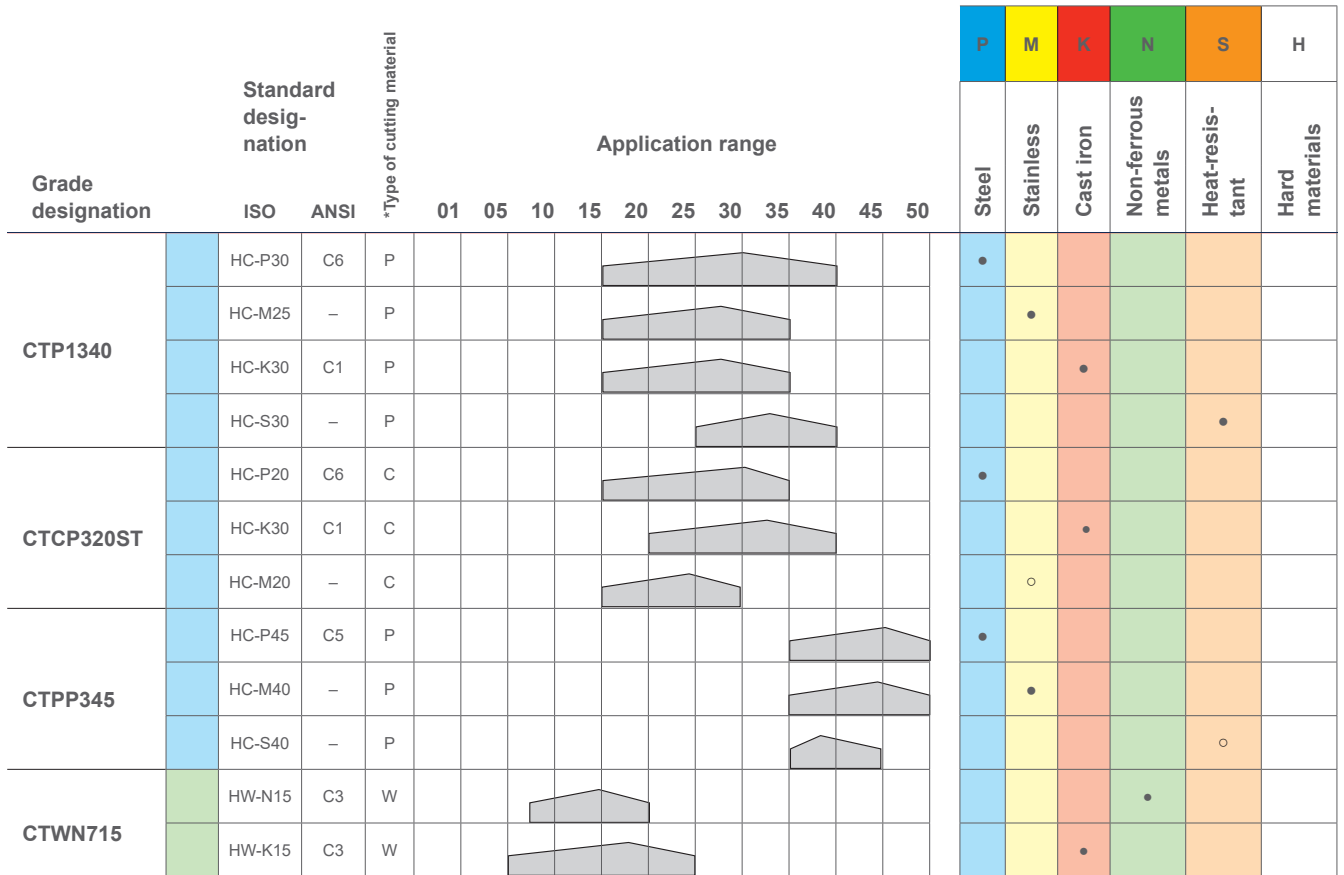
Maximal torque for screws

Designation	max. torque/Nm	Material
7812115/M6X20 DIN 912	7	4493
7802115/M6X25 DIN 912-12.9	7	22485
7897218/M4.0X18/T20	4	11007006
M6X6 DIN 913	0	11040843
7897221/M3.5X14.0/T15	3.2	11081190
10010029/M6X12 DIN 912-12.9	7	11776816
M0102554/M4.0X16/T20 SCREW	4	12003031
7897203/M4.0X14/T15	4	195068
7897209/M4.0X11/T15	4	219981
7897205/M5.0X18/T20	5	195069
7897210/M5.0X13.5/T20	5	219982

Grade overview



Grade overview

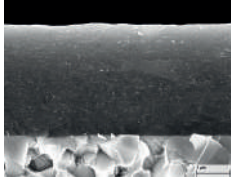


• Main application
◦ Extended application

Grade description

CTP1340

HC-P30 | HC-M25 | HC-K30 | HC-S30



Specification:

Composition: Co 9.0 %; WC balance | Grain size: 0.5-0.8 μm | Hardness: HV₃₀ 1590 |
Coating specification: PVD TiAlN

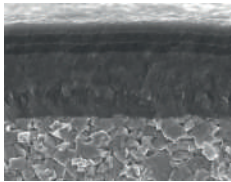
Recommended application:

The universal high-performance grade for steel, austenitic steel, cast iron and heat-resistant alloys.

- ▲ Excellent suitability for universal application
- ▲ High cutting edge stability

CTCP320ST

HC-P20 | HC-K30 | HC-M20



Specification:

Composition: Co 9.0 %; WC balance | Grain size: 0.5-0.8 μm | Hardness: HV₃₀ 1590 |
Coating specification: CVD TiCN-Al₂O₃ multi-layer

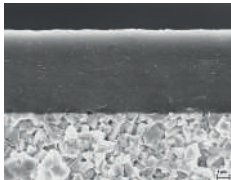
Recommended application:

The reliable choice for the machining of steel and cast iron.

- ▲ Excellent wear resistance
- ▲ Good resistance to oxidation
- ▲ High toughness
- ▲ Good heat resistance

CTPP345

HC-P45 | HC-M40 | HC-S40



Specification:

Composition: Co 12.5 %; mixed carbides 2.0 %; WC balance | Grain size: 1-1.5 μm |
Hardness: HV₃₀ 1380 | Coating specification: PVD TiAlTaN

Recommended application:

The reliable solution for steel and austenitic steels under unstable conditions.

- ▲ Ideal for stainless steel
- ▲ Excellent toughness
- ▲ Good wear resistance
- ▲ High application security

CTWN715**HW-K15****Specification:**

Composition: Co 6.0% | WC balance; other: 0.20% | Grain size: 0.8-1.3 μm | Hardness: HV₃₀ 1650

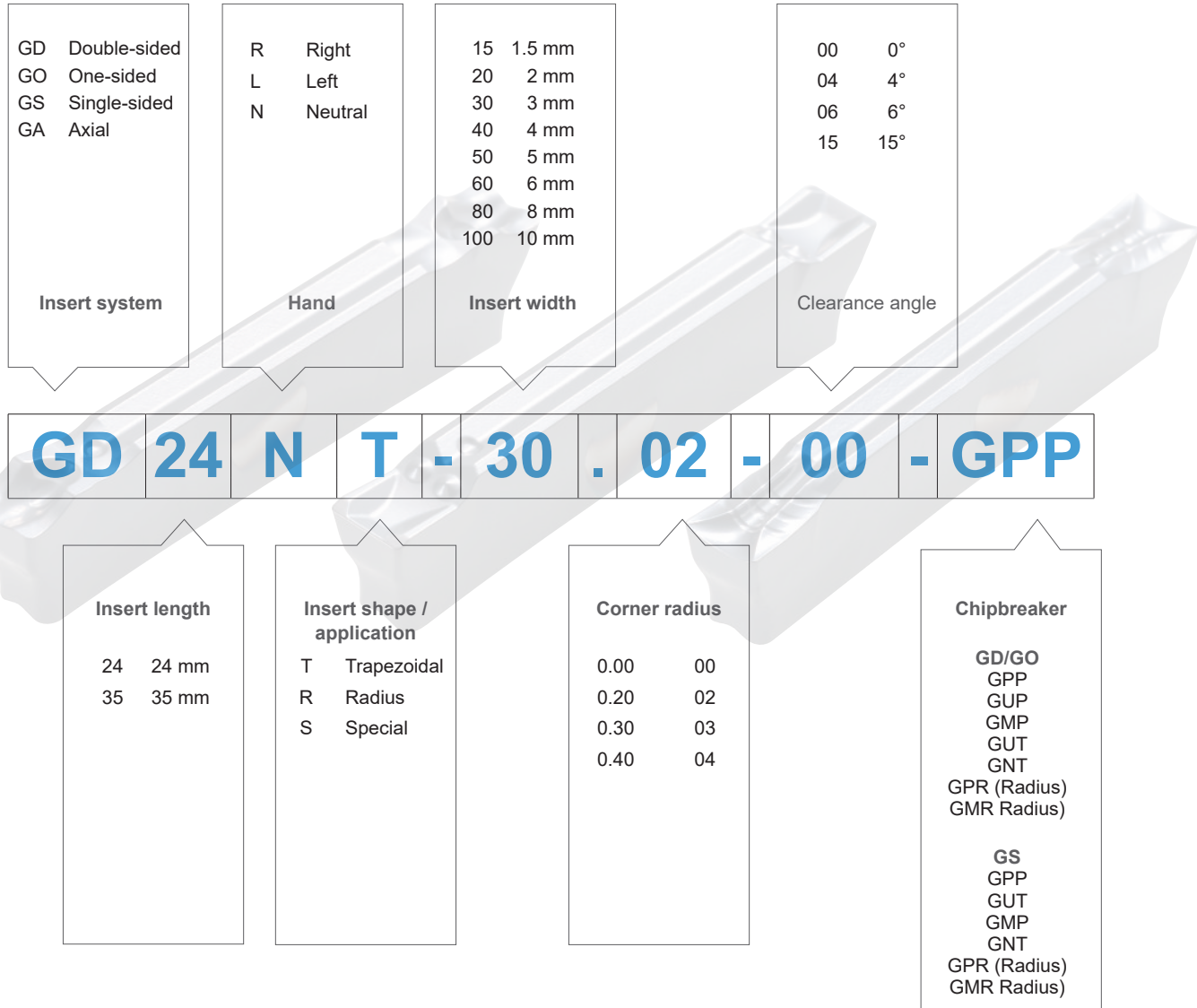
Recommended application:

The uncoated carbide grade for the machining of aluminium and other non-ferrous metals.

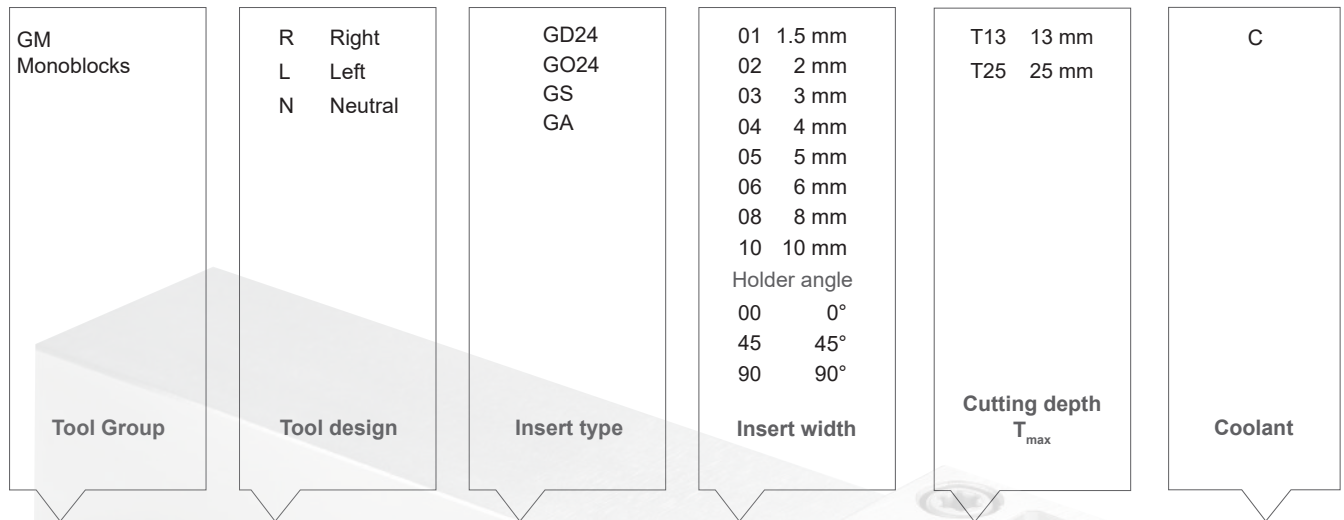
- ▲ Optimal suitable for aluminium
 - ▲ High wear resistance
 - ▲ High heat resistance
 - ▲ Low tendency to adhesion
-

ELMEC designation system

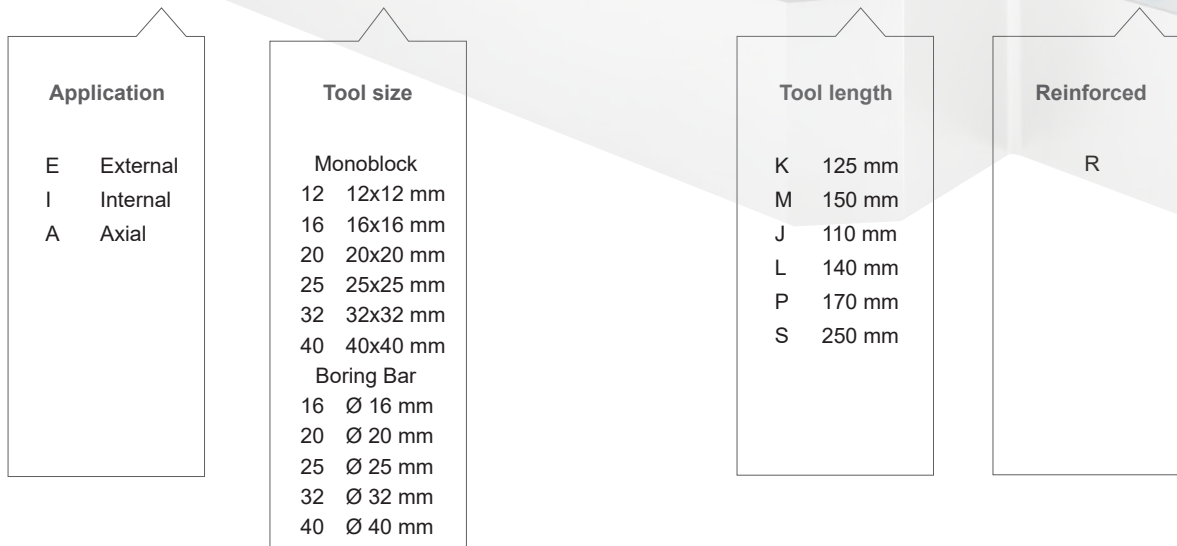
Designation system for inserts



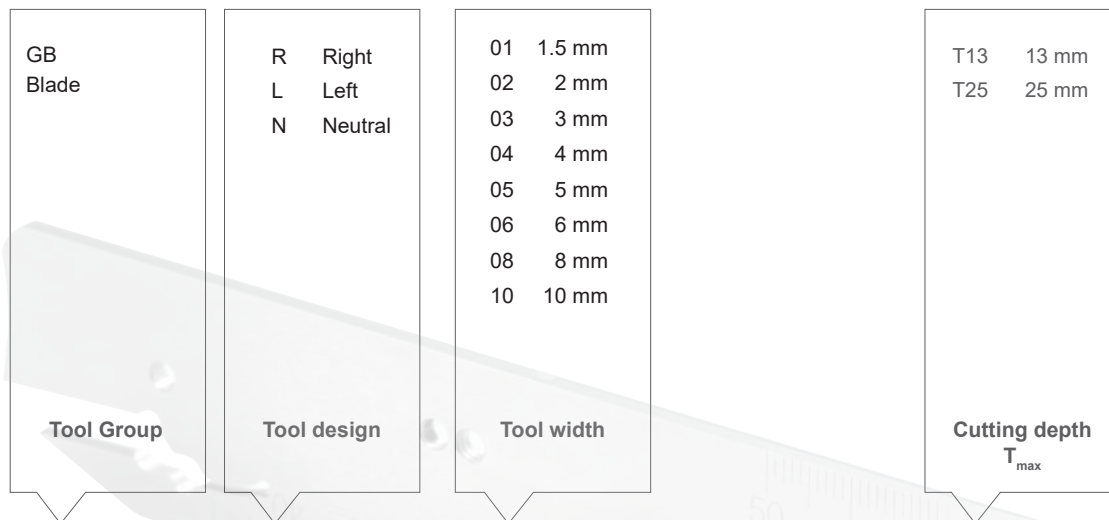
Designation system for Monoblocks tools



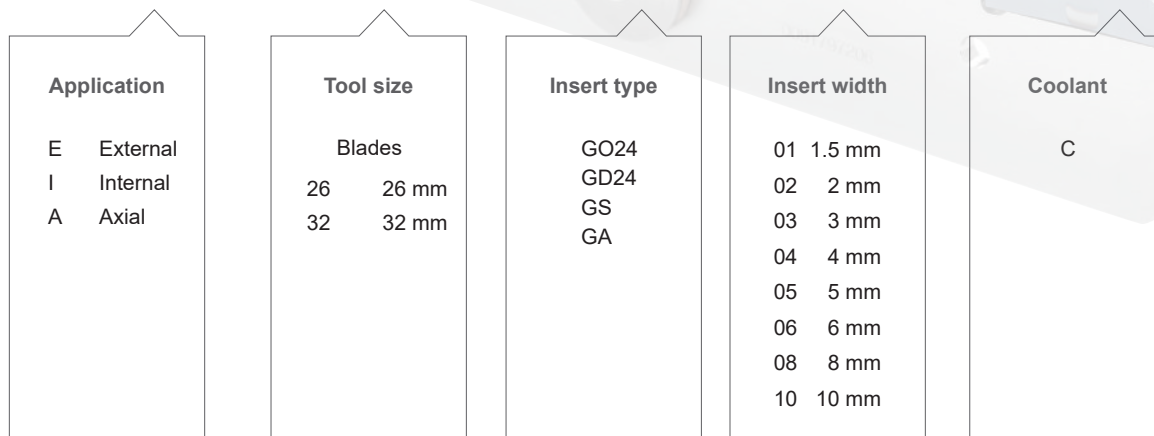
GM E R - 16 - GD24 02 - K - T13 - R - C



Designation system for blades



GB E R - 26 03 - GO24 02 T13 - C



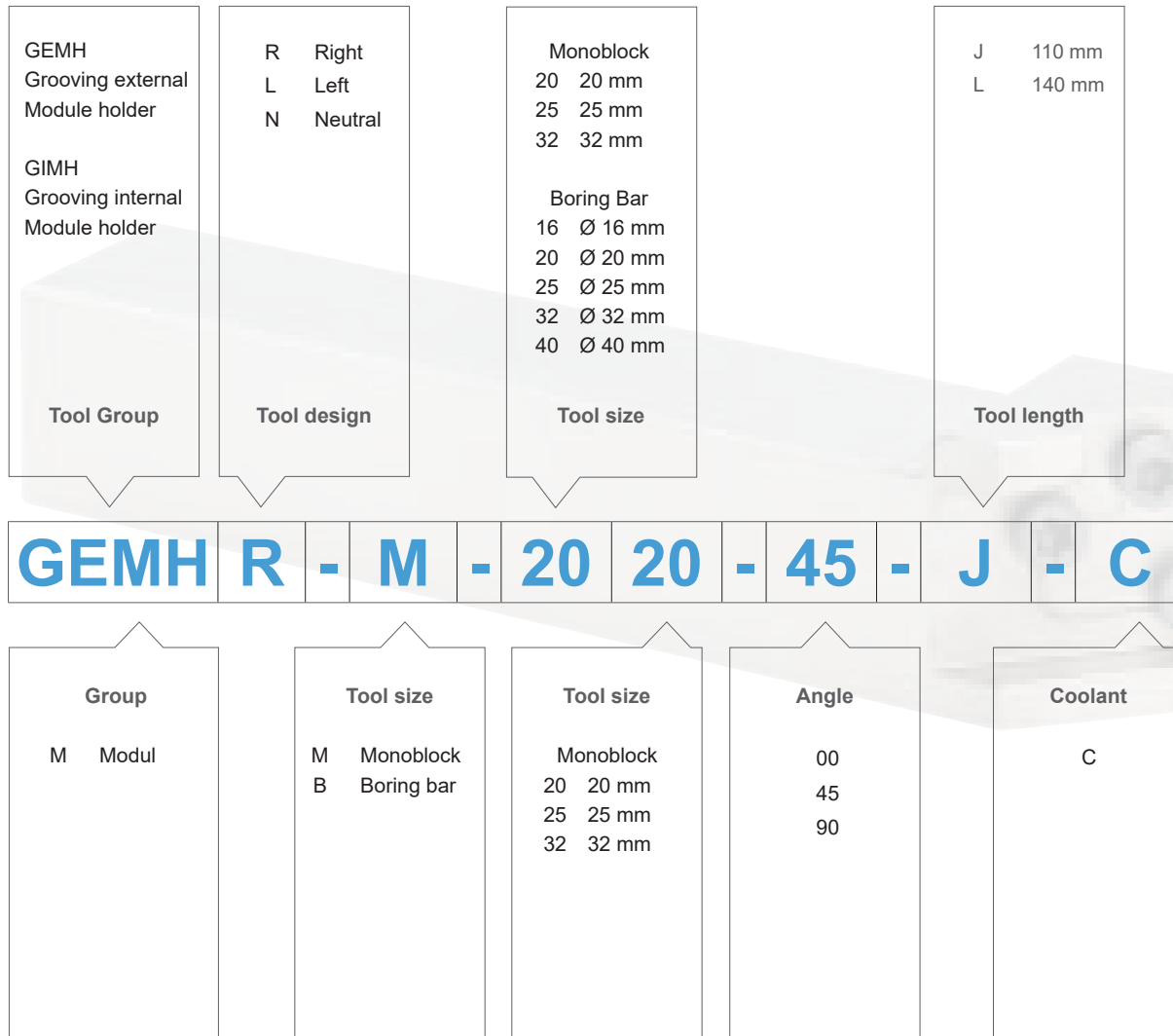
Designation system for moduls

<p>GE External Grooving</p> <p>GA Axial Grooving</p> <p>GI Internal Grooving</p> <p>Tool Group</p>	<p>R Right</p> <p>L Left</p> <p>N Neutral</p> <p>Tool design</p>	<p>01 1.5 mm</p> <p>02 2 mm</p> <p>03 3 mm</p> <p>04 4 mm</p> <p>05 5 mm</p> <p>06 6 mm</p> <p>08 8 mm</p> <p>10 10 mm</p> <p>Tool width</p>	<p>24</p> <p>35</p> <p>Insert type</p>	<p>T13 13 mm</p> <p>T25 25 mm</p> <p>Cutting depth T_{max}</p>	<p>40–50 D_{min} = Ø 40 mm</p> <p>D_{max} = Ø 50 mm</p> <p>Diameter range D_{min} – D_{max}</p>
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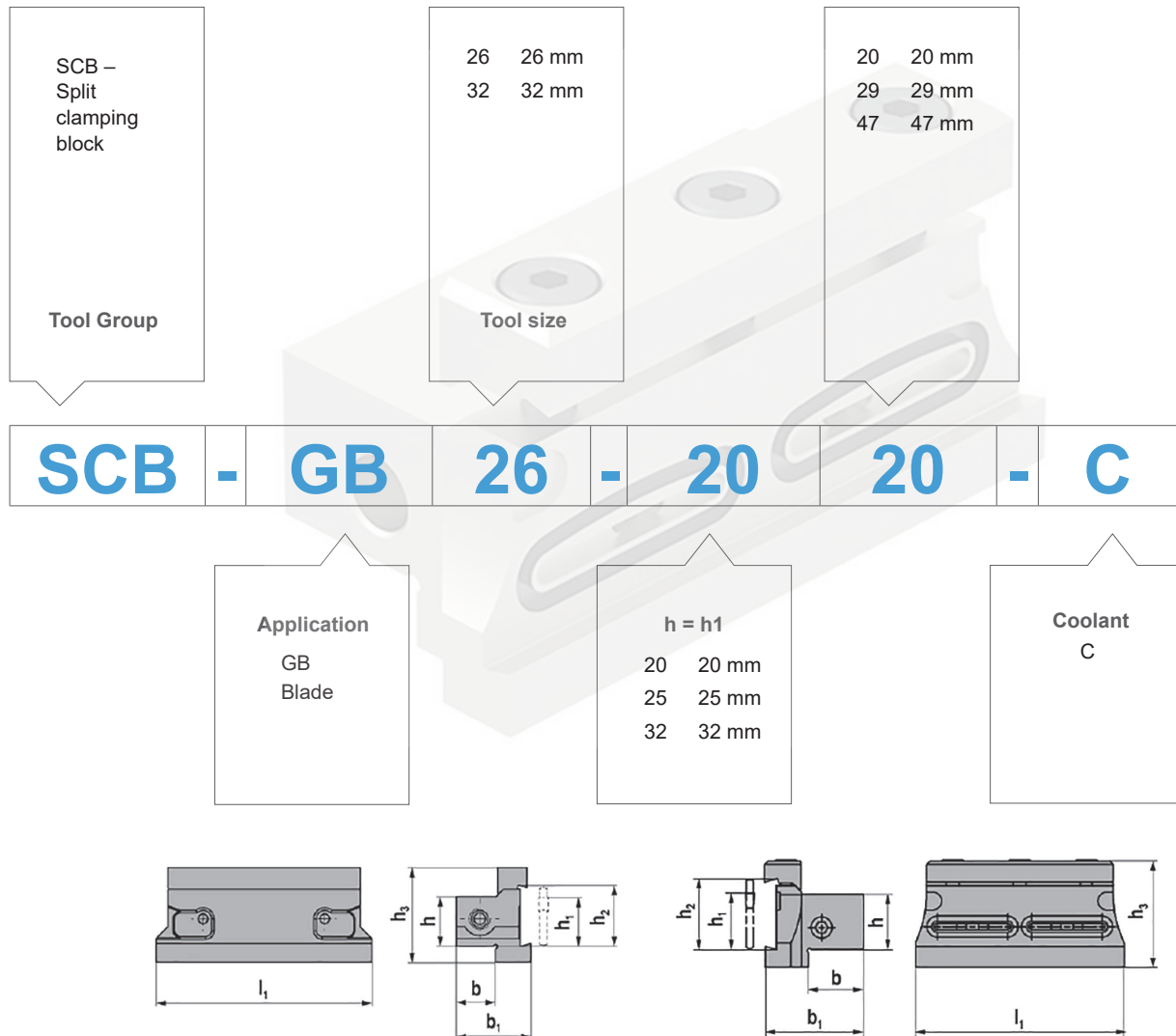
GE M R - 20 03 - GO 24 02 T13 - 40-50 - C

<p>Group</p> <p>M Module</p>	<p>Tool size</p> <p>20 20 mm</p> <p>25 25 mm</p>	<p>Insert type</p> <p>GO</p> <p>GD</p> <p>GS</p> <p>GA</p>	<p>Insert width</p> <p>01 1.5 mm</p> <p>02 2 mm</p> <p>03 3 mm</p> <p>04 4 mm</p> <p>05 5 mm</p> <p>06 6 mm</p> <p>08 8 mm</p> <p>10 10 mm</p>	<p>Coolant</p> <p>C</p>
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Designation system for module holders



Designation system for clamping blocks



Production



The carbide formula for success

ELMEC has the metallurgical competence that allows it to control the entire process chain of carbide production: from raw materials production and powder preparation to forming, sintering and finishing, we can make the right adjustments at any time and adapt the material properties to your individual requirements, and with a dedicated production line for private label and toolmakers customers, and with a dedicated production line for private label and toolmakers customers.

Composite materials with valuable properties

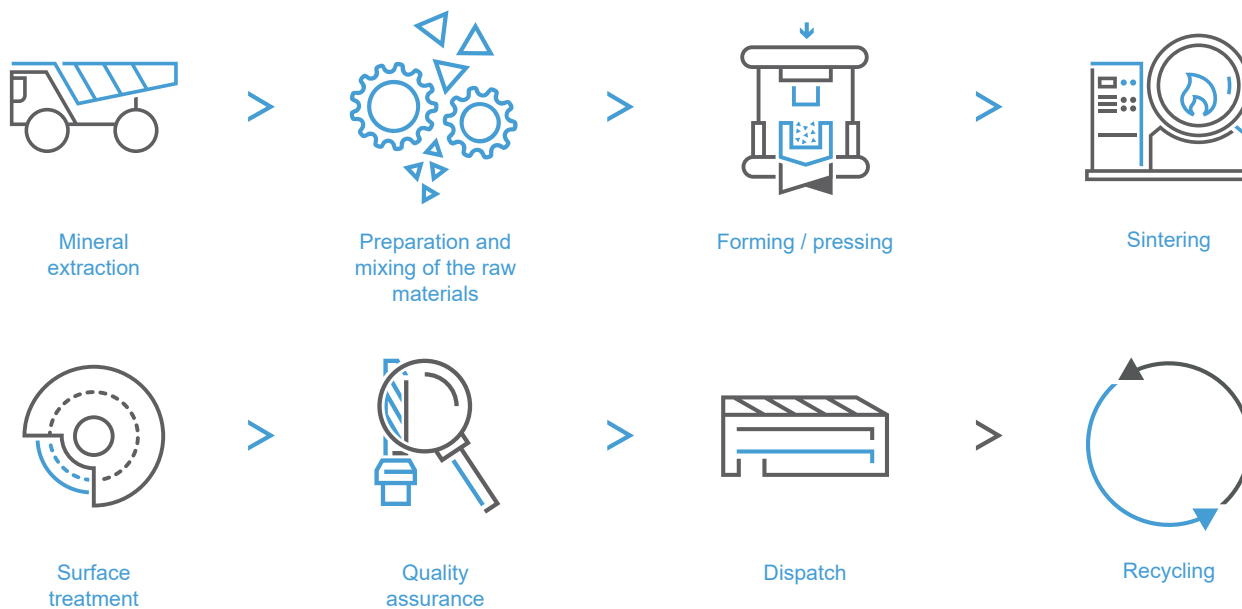
Cemented carbides are composite materials consisting of a hard component and a comparatively soft binder metal, such as cobalt. The performance characteristics of carbide are determined by hardness, transverse rupture strength and fracture toughness. With regard to their application, important parameters for the optimisation of the characteristics here are the cobalt content and the grain size of the metal binder phase. The tungsten carbide grains have an average size of 0.5 up to several micrometres (μm). The cobalt fills the gaps between the carbide grains. On the one hand, when extremely high toughness is required, the cobalt content can amount up to 30%. On the other, the cobalt content is reduced and the grain size decreased to the submicron range (for example $0.3 \mu\text{m}$), in order to guarantee maximum wear resistance.

ELMEC produces far more than 100 different carbide grades particularly for wear parts and cutting tools, thus offering a customised solution for every one of your applications.



Passion for cemented carbide

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



Notes

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We reserve the right to make technical changes and product improvements.

