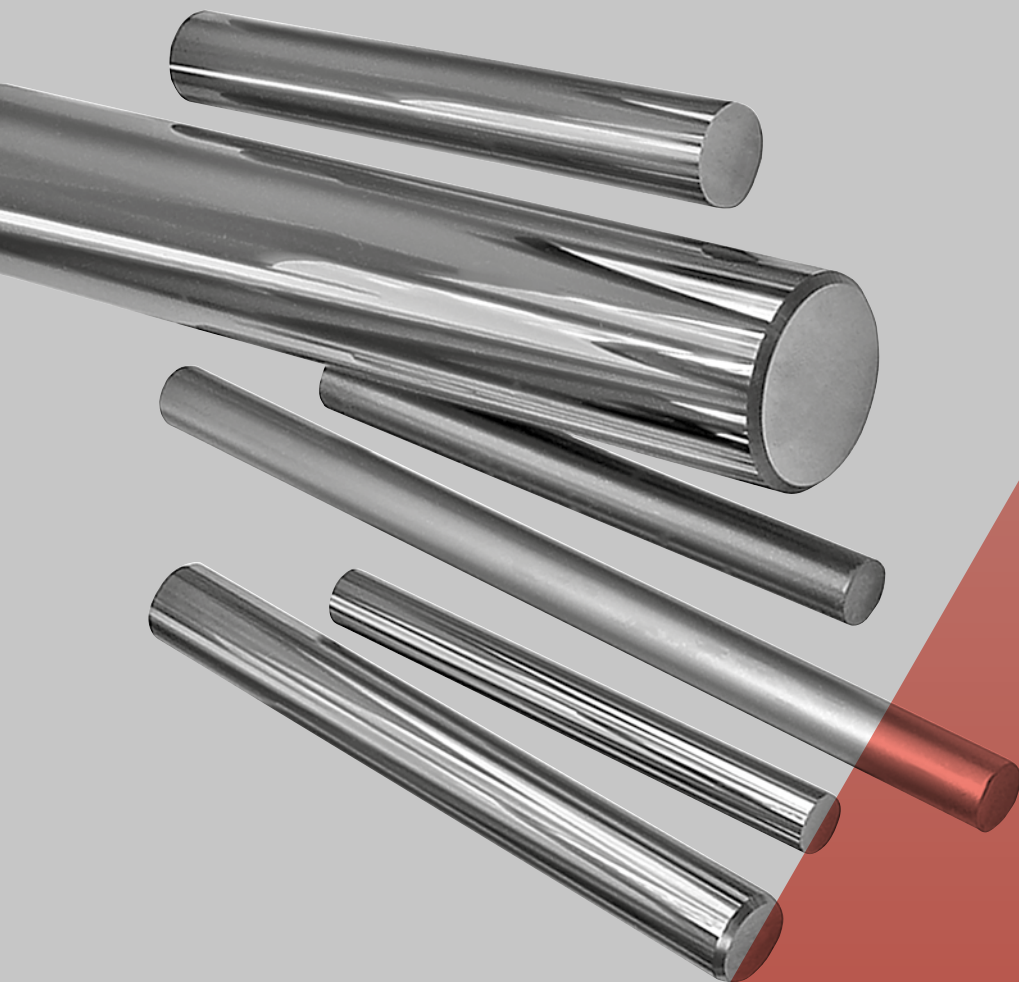




TOOLMAKER SOLUTIONS BY CERATIZIT

S-LINE – HARD METAL FOR **PRECISION TOOLS** 2016

EN

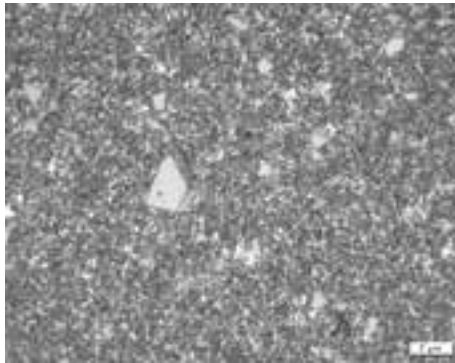
Grades

Composition and properties

Composition and properties

Grade	Grain size	Mixed carbide	Binder	Density	Hardness			Transverse rupture strength TRS		K_{IC}^* SEVNB
					HV10	HV30	HRA	MPa	P.S.I.	
			(%)	g/cm ³						MPa·m ^{1/2}
TUNGSTEN CARBIDE COBALT GRADE										
TMG30	submicron	< 2%	10%	14,40	1590	1570	91,7	3600	522.000	9,3

TMG30 is a submicron grade for the ISO application field **K30-K40**. The share of secondary raw materials from the in-house CERATIZIT recycling plant provides a good price-performance ratio for all general cutting tool applications.



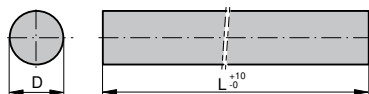
Classification of the tungsten carbide grain size

Tungsten carbide grain size [μm]	Classification
< 0,2	nano
0,2 - 0,5	ultrafine
0,5 - 0,8	submicron
0,8 - 2,5	fine/medium
2,5 - 6,0	coarse
> 6,0	extra-coarse

Comments:

1. The data in this table represents typical material parameters. We reserve the right to modify the data due to technical progress or due to further development within our company.
2. K_{IC}^* : the measured critical tension intensity factors (K_{IC}) depend to a high degree on the sample geometry and sample preparation. A direct comparison with parameters which have been determined by means of a different method is therefore not admissible.

Sintered rods



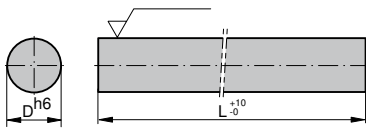
Ø D 2.20 – 34.20 mm

D [mm]	Type, description	L [mm]	Dia. tol. [mm]	TMG30
2.20	RR 0220-330	330	-0/+0.20	●
3.25	RR 0325-330	330	-0/+0.10	●
4.20	RR 0420-330	330	-0/+0.20	●
4.70	RR 0470-330	330	-0/+0.20	●
5.20	RR 0520-330	330	-0/+0.25	●
5.70	RR 0570-330	330	-0/+0.25	●
6.20	RR 0620-330	330	-0/+0.25	●
6.70	RR 0670-330	330	-0/+0.25	●
7.20	RR 0720-330	330	-0/+0.30	●
7.70	RR 0770-330	330	-0/+0.30	●
8.20	RR 0820-330	330	-0/+0.30	●
8.70	RR 0870-330	330	-0/+0.30	●
9.20	RR 0920-330	330	-0/+0.30	●
9.70	RR 0970-330	330	-0/+0.30	●
10.20	RR 1020-330	330	-0/+0.30	●
10.70	RR 1070-330	330	-0/+0.30	●
11.20	RR 1120-330	330	-0/+0.30	●
12.20	RR 1220-330	330	-0/+0.30	●
12.70	RR 1270-330	330	-0/+0.30	●
13.20	RR 1320-330	330	-0/+0.30	●
14.20	RR 1420-330	330	-0/+0.30	●
15.20	RR 1520-330	330	-0/+0.30	●
16.20	RR 1620-330	330	-0/+0.45	●
17.20	RR 1720-330	330	-0/+0.45	●
18.20	RR 1820-330	330	-0/+0.45	●
19.20	RR 1920-330	330	-0/+0.45	●
20.20	RR 2020-330	330	-0/+0.45	●
24.20	RR 2420-330	330	-0/+0.55	●
25.20	RR 2520-330	330	-0/+0.65	●
30.20	RR 3020-330	330	-0/+0.65	●
32.20	RR 3220-330	330	-0/+0.65	●
34.20	RR 3420-330	330	-0/+0.65	●

● = stock item
○ = limited stock or upon request

Rods

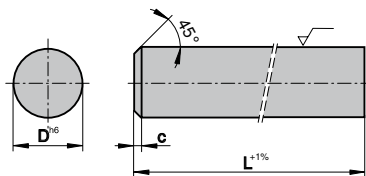
Ground rods - h6



Ø D 3.00 – 32.00 mm

D [mm]	Type, description	L [mm]	Dia. tol. [mm]	TMG30
3.00	RGM 0300-330	330	+0/-0.006	●
4.00	RGM 0400-330	330	+0/-0.008	●
5.00	RGM 0500-330	330	+0/-0.008	●
6.00	RGM 0600-330	330	+0/-0.008	●
8.00	RGM 0800-330	330	+0/-0.009	●
10.00	RGM 1000-330	330	+0/-0.009	●
11.00	RGM 1100-330	330	+0/-0.011	●
12.00	RGM 1200-330	330	+0/-0.011	●
13.00	RGM 1300-330	330	+0/-0.011	●
14.00	RGM 1400-330	330	+0/-0.011	●
15.00	RGM 1500-330	330	+0/-0.011	●
16.00	RGM 1600-330	330	+0/-0.011	●
18.00	RGM 1800-330	330	+0/-0.011	●
20.00	RGM 2000-330	330	+0/-0.013	●
22.00	RGM 2200-330	330	+0/-0.013	●
25.00	RGM 2500-330	330	+0/-0.013	●
32.00	RGM 3200-330	330	+0/-0.016	●

Ground rods - h6



Semi-finished products for solid carbide milling cutters to DIN 6527 K+L
Ø 6.00 – 20.00 mm

D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	TMG30
6.00	RGMC 0600-051	51	+0/-0.008	0.60	●
6.00	RGMC 0600-055	55	+0/-0.008	0.60	●
6.00	RGMC 0600-058	58	+0/-0.008	0.60	●
8.00	RGMC 0800-059	59	+0/-0.009	0.60	●
8.00	RGMC 0800-064	64	+0/-0.009	0.60	●
10.00	RGMC 1000-067	67	+0/-0.009	0.90	●
10.00	RGMC 1000-073	73	+0/-0.009	0.90	●
12.00	RGMC 1200-074	74	+0/-0.011	0.80	●
12.00	RGMC 1200-084	84	+0/-0.011	0.80	●
14.00	RGMC 1400-084	84	+0/-0.011	0.80	●
16.00	RGMC 1600-093	93	+0/-0.011	0.80	●
20.00	RGMC 2000-105	105	+0/-0.013	1.00	●

- = stock item
○ = limited stock or upon request

The new CERATIZIT E-Techstore

Our new online shop comes with a new look and feel, we are offering a greater variety of products and even more services.

E-TECHSTORE



More than 25,000 products

- o Standard and specialty products for cutting tools / inserts & solid carbide tools
- o Wood working products
- o Solid carbide rods
- o Die and mould industry, focusing tubes, slitting knife blanks, knives

Many new service features

- o Tablet computer optimised
- o Even more detailed product information
- o Simple and quick navigation by user-friendly design
- o Simplified ordering by e.g. repeat order
- o Enhanced section on personal user profile

CERATIZIT linkage

Would you like to link your system with CERATIZIT? CERATIZIT supports all common link formats (EDI, XML, OCI, etc.). Our technical engineer will analyse your requirements together with you and will help you when choosing the suitable technology.

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Subject to technical changes and improvements in production.



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