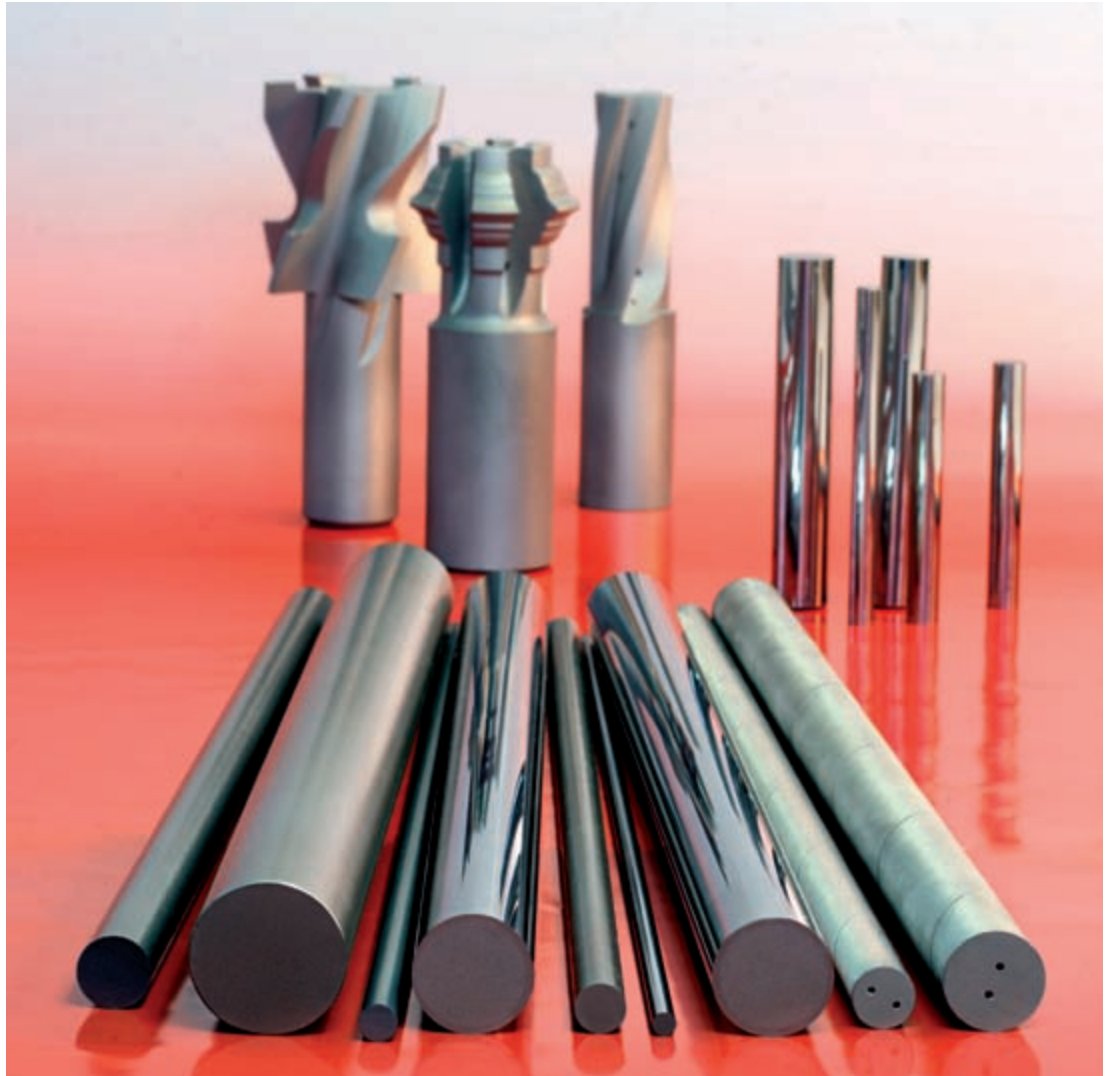


hard material matters



Hard metals for precision tools

EN



Certificates

Our quality management systems meet the highest standards.





SPEED

- > Configure over 900 products online and order immediately
- > Immediate order confirmation
- > Online check regarding delivery status of product
- > Extended product search especially for rods
- > Orders placed by 6 p.m. (C.E.T.) will be dispatched on the same day

INFORMATION

- > On-line availability check for all standard items
- > Up-to-the-minute high-performing CERATIZIT product catalogue including all technical and graphical details
- > Well-structured navigation, easy user guidance

SERVICES

- > Access 24 hours a day
- > Direct link to your personal contact person
- > Online solution - no software installation necessary
- > Optimum safety by means of SSL-encoding and personal access authorization

BUSINESS




- > Order online at individual net prices and conditions
- > Check invoices, consignments and payments
- > 'Last-minute' changes of open orders possible
- > Usage of personal order templates possible
- > Shipment tracking via Internet (Track & Trace)

Rods - individually
manufactured!



hard material matters



-  Enables the production of rods in recognised CERATIZIT quality, in individual styles, and in small quantities.
-  Let us know your requirements for diameter, length and grade. Decide if you want the rods sintered or ground, with or without coolant holes. Various chamfer widths and angles are also possible.
-  You will be provided with the feasibility of manufacture during the telephone enquiry. Providing the necessary components to manufacture the rods are available, your order will arrive at your door within 3 working days.



Special blanks



*Near net-shape
Quick delivery*

Special blanks



Coolant channels to tight tolerances



Threads

- metric
- inch

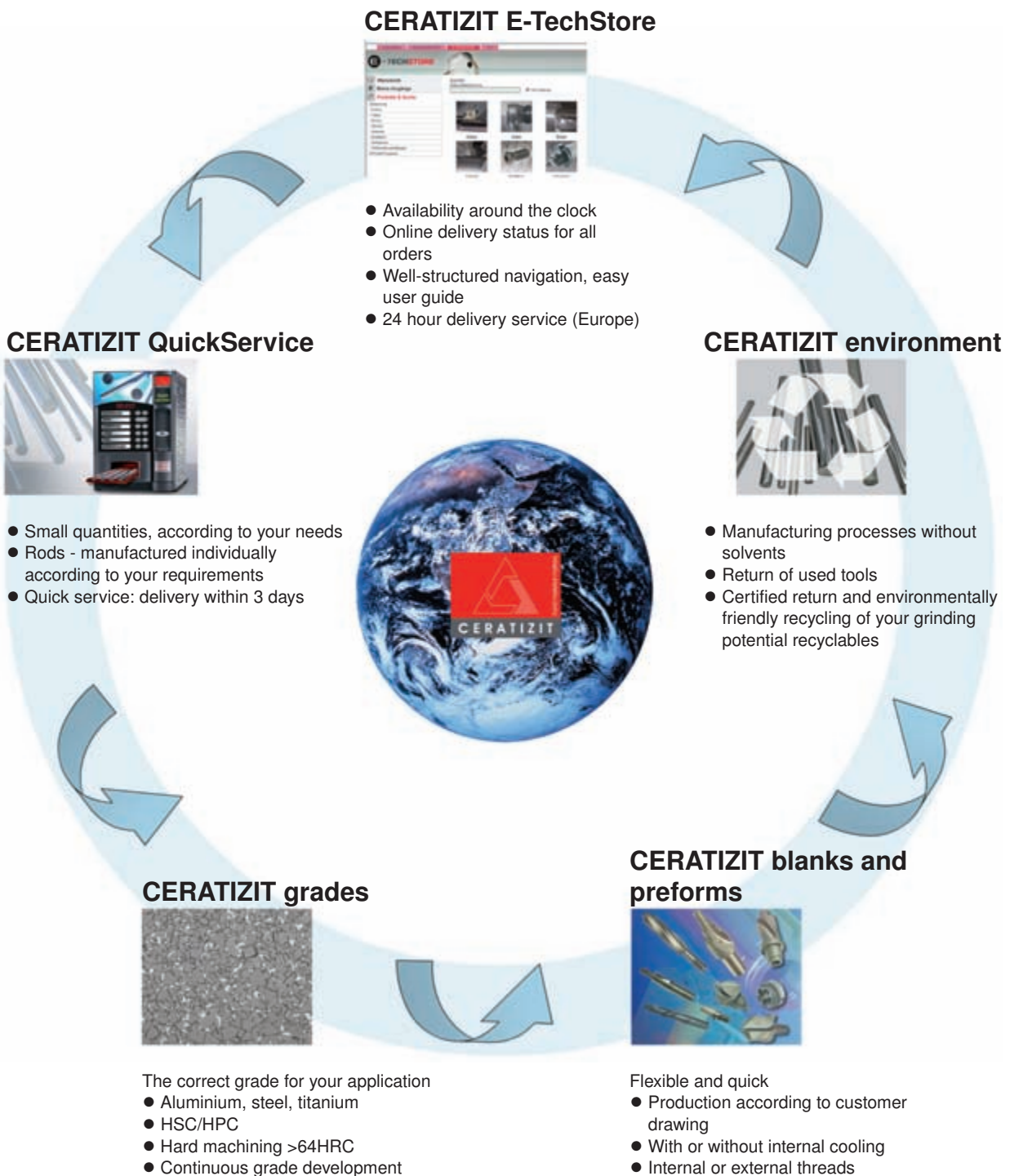
Fine-pitch threads are also possible.



- Specially formed insert seat for PCD

CERATIZIT - strengths and services

In addition to competent advice a tool manufacturer also expects a complete product and service package. The stock program adapted to the needs of the tool makers with the most common dimensions from 1 to 46 mm in up-to-the-minute grades helps to produce tools successfully.



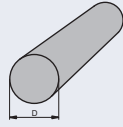
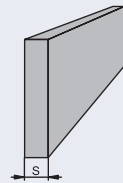
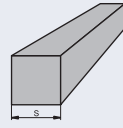
Contents



	Designation system	10-11
	Grade guide	12-14
RR	Sintered rods	15-18
RG RGI	Ground rods	19-22
RGDC RGDF + RGDCW	Ground rods with fixed length	23-26
RGDO	Ground rods for extra-long end mills	27
RRK2 + SBR2	Sintered rods with two helical coolant holes	28-32
LRRK2	Sintered rods with two helical coolant holes - extra-long	33
FBR2	Sintered rods with two helical coolant holes <math><30^\circ</math>	34
SBG2	Ground rods with two helical coolant holes >math>>30^\circ</math>	35
RRK3 + SBR3	Sintered rods with three helical coolant holes	36-37
RRG2	Sintered rods with two straight coolant holes	38-41
RGG2	Ground rods with two straight coolant holes	42
RRG1	Sintered rods with central coolant hole	43
FR	Sintered rectangular rods	44
SR	Sintered square rods	45
RGDF	Silicon nitride rods	46
GDRK + GDVK + GDV2/P	Blanks for deep hole drills	47-50
RTU	Tips for reamers and brazing tips	51




CERATIZIT designation system

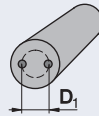
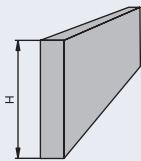
Type of rod	
RR	Sintered rods
RG	Ground rods
RGI	Ground rods for inch dimensions
RGDC	Ground rods with fixed length
RGDF	Ground rods with fixed length
RGDCW	Ground rods with Weldon clamping face
RCDO	Ground rods for extra-long end mills
RRK	Sintered rods with helical coolant holes 30°
SBR	Sintered rods with helical coolant holes >30°
FBR	Sintered rods with helical coolant holes <30°
RGK	Ground rods with helical coolant holes 30°
SBG	Ground rods with helical coolant holes >30°
RRG	Sintered rods with straight coolant holes
RGG	Ground rods with straight coolant holes
GDRK	Blanks for deep hole drills
GDVK	
GDV2	
GDV2P	
FR	Rectangular rods
SR	Square rods

External diameter [mm]

Thickness [mm]



L | RRK | 2 | 1030 / 4,8 /

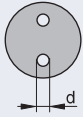
Extra-long rods

Coolant hole	
1 =	
2 =	
3 =	

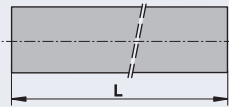
Pitch circle of coolant holes [mm]

Height [mm]


CERATIZIT designation system

Diameter of coolant holes
[mm]

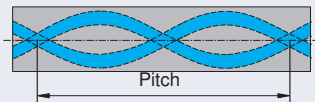


Rod length
[mm]



1,3 / 54,4 - 430 TSM33

Nominal pitch of coolant hole
[mm]



Grade



TSM33

·
·
·

Grades

Composition and properties

Grade	ISO code	U.S. code	Grain size	TiC/ Ta(Nb)C	Binder	Density	Hardness			Transverse rupture strength TRS		K _{IC} [*] SEVNB MPa·m ^{1/2}
							(%)	g/cm ³	HV10	HV30	HRA	
TUNGSTEN CARBIDE COBALT GRADE												
CTU08L	K10	C-2	ultrafine	–	4,2	15,05	2300	2200	95,2	3700	536.600	6,3
TSF22	K10-K20	C-2	ultrafine	–	8,2	14,55	1970	1930	93,7	4400	638.000	7,5
TSF44	K10-K30	C-2	ultrafine	–	12,0	14,10	1760	1730	92,7	4600	667.000	7,8
MG12	K05-K10	C-3	submicron	–	6,0	14,80	1820	1790	93,0	3500	507.500	8,2
TSM20	K10-K30	C-3	submicron	–	7,5	14,75	1750	1720	92,6	3500	507.500	8,6
MG15						14,70	1740	1710	92,6	3600	522.000	8,6
TSM33	K20-K40	C-2	submicron	–	10,0	14,50	1610	1590	91,9	3700	536.500	9,4
MG18						14,45	1680	1660	92,3	3700	536.500	9,4
CTS18D	K20-K40	C-2	submicron	–	9,0	14,55	1610	1590	91,9	3600	522.000	10,4
CTF12A	K15	C-2	fine	–	6,0	15,00	1650	1630	92,1	2600	377.000	10,2
H20X	K15	C2	fine	–	6,0	14,95	1670	1650	92,2	2200	333.500	9,9
HC20	K20	C2	fine	–	6,0	14,95	1640	1620	92,1	2200	319.000	9,9
CERMET												
TCN54	HAT-P20	–	–	–	14,1	6,40	1650	1630	92,1	2000	290.000	8,5
SILICON NITRIDE GRADE												
SNC1	CN-K20	–	–	–	9,0	3,25	1550	1530	91,5	1100	159.500	6,5


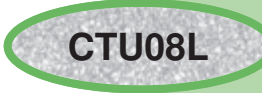



Classification of tungsten carbide grain size	
Tungsten carbide grain size [µm]	Classification
< 0,2	nano
0,2 - 0,5	ultrafine
0,5 - 0,8	submicron
0,8 - 1,3	fine
1,3 - 2,5	medium
2,5 - 6,0	coarse
> 6,0	extra-coarse

Comments:



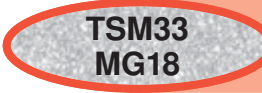
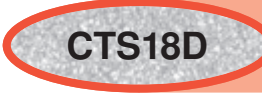

1. The data in this table represents typical material parameters. We reserve the right to modify the data due to technical progress or due to further development within our company.
2. K_{IC}^{*}: the measured critical tension intensity factors (K_{IC}) depend to a high degree on the sample geometry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

Grade description



Ultrafine grades

	 CTU08L	Ultrafine carbide grade with grain size 0.2µm for ultra-hard machining. For machining ultra-hard materials > 65HRC. Excellent suitability for abrasive materials.	
	 TSF22	Special ultrafine carbide grade for HSC machining. For machining hard and ultra-hard materials >60 HRC.	
	 TSF44	Special ultrafine carbide grade for HSC machining. For example: 1.2311 or 1.2312; hardened up to 59 HRC.	

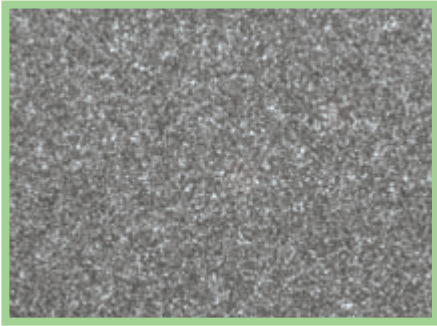
Fine grain / submicron grades

 MG12	Submicron grain grade for rotating solid carbide tools. For the machining of non ferrous metals. Aluminium alloys, fibre-reinforced plastics (carbon fibre, glass fibre), artificial carbon, graphite, cast iron of low or medium hardness, chilled castings, hardened steels.
 CTF12A	Fine grain grade for solid carbide tools with diamond coating. Diamond coating manufacturers acknowledge CTF12A's outstanding properties with regard to coating adhesion. Therefore excellent suitability for graphite machining and machining of aluminium with a high silicon content.
 TSM33 MG18	Submicron grade for rotating solid carbide tools. For machining stainless steels, acid and heat resistant steels, chromium alloyed steels, nickel & cobalt alloyed steels, titanium alloys, non ferrous metals, plastics.
 CTS18D	Special submicron grade for high-performance machining of steel, stainless steel and difficult to machine materials, for example titanium or Inconel. Optimum toughness and very good wear resistance.
 TSM20 MG15	Submicron grade for rotating solid carbide tools. For machining grey cast iron, tempered iron, non alloyed steels, super alloys, titanium and tantalum alloys, non ferrous metals, heat resistant steels, plastics.

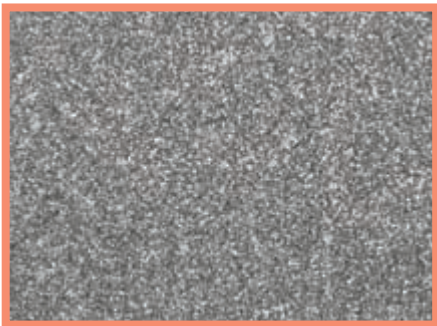
Specialities

 TCN54	Special cermet quality for the production of high-performance tools for finishing when good surface quality and high dimensional accuracy are required.
 SNC1	Silicon nitride for the production of tools for grey cast iron machining.

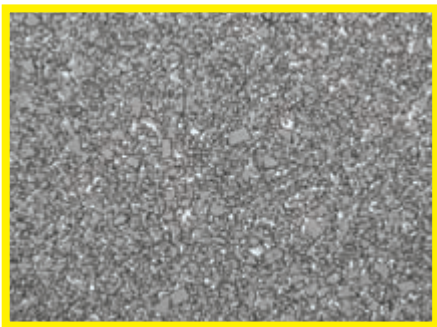
The basis for optimum quality



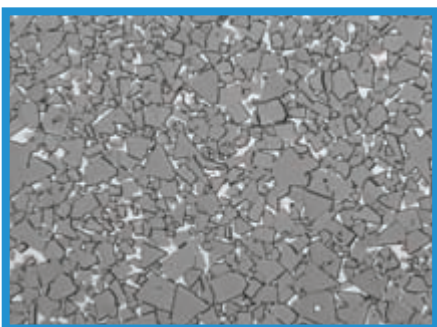
Ultrafine grade



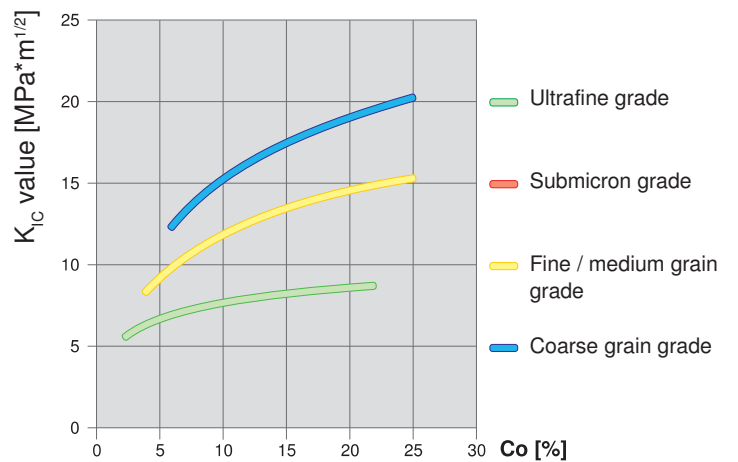
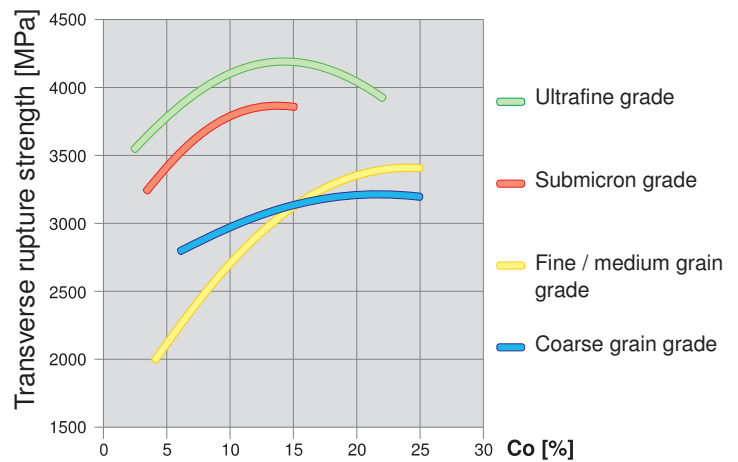
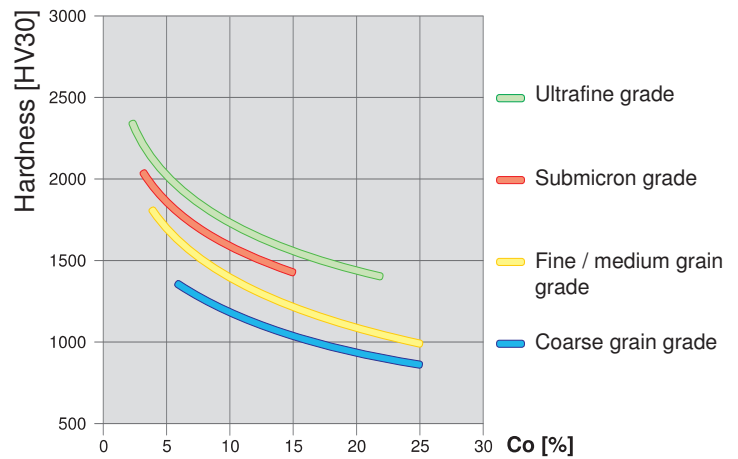
Submicron grade



Fine / medium grain grade



Coarse grain grade



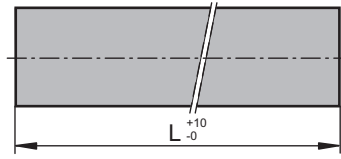
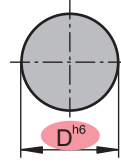
Demands on carbide as a material applied in the precision tooling industry are enormous. We keep pace with our customers' requirements and we are often even a step ahead of them.

The extensive grade range from CERATIZIT demonstrates the technological edge which combined with years of experience in the sector of powder metallurgy guarantees maximum quality as well as consistency with regard to metallurgy.

Our competitive edge is the prerequisite for your success.

Sintered rods

Ø 1.15 – 8.20 mm

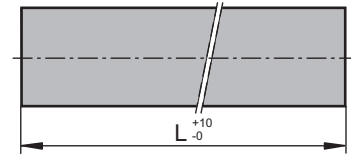
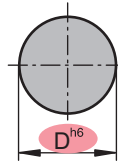


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG12	CTF12A	TSM20	MG18	TSM33	CTS18D
1.15	RR 0115-325	325	-0/+0.30				○		
	RR 0115-330	330	-0/+0.15					●	
1.65	RR 0165-325	325	-0/+0.30	○			○		
	RR 0165-330	330	-0/+0.15					●	
1.80	RR 0180-330	330	-0/+0.15					●	
2.20	RR 0220-325	325	-0/+0.30	○			●		
	RR 0220-330	330	-0/+0.20					●	
2.70	RR 0270-325	325	-0/+0.30				○		
	RR 0270-330	330	-0/+0.20					●	
3.25	RR 0325-325	325	-0/+0.30	●			●		
	RR 0325-330	330	-0/+0.10		●	○		●	○
3.70	RR 0370-325	325	-0/+0.30				○		
	RR 0370-330	330	-0/+0.20					●	
4.20	RR 0420-325	325	-0/+0.30	●			●		
	RR 0420-330	330	-0/+0.20		●	●		●	●
4.70	RR 0470-325	325	-0/+0.30				○		
	RR 0470-330	330	-0/+0.20					●	
5.20	RR 0520-325	325	-0/+0.30	○			○		
	RR 0520-330	330	-0/+0.25		○	○		●	
5.70	RR 0570-325	325	-0/+0.30				○		
	RR 0570-330	330	-0/+0.25					●	
6.20	RR 0620-325	325	-0/+0.30	●			●		
	RR 0620-330	330	-0/+0.25		●	●		●	●
6.70	RR 0670-325	325	-0/+0.30				●		
	RR 0670-330	330	-0/+0.25			○		●	
7.20	RR 0720-325	325	-0/+0.30				●		
7.70	RR 0770-330	330	-0/+0.30					●	
7.20	RR 0720-330	330	-0/+0.30					●	
8.20	RR 0820-325	325	-0/+0.30	●			●		
	RR 0820-330	330	-0/+0.30		●	●		●	●

- = stock item
 - = limited stock or upon request
 - ▲ = new products
 - = no longer in production, available as long as stocks last
- Other grades and dimensions upon request

Sintered rods

Ø 8.70 – 17.20 mm



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG12	CTF12A	TSM20	MG18	TSM33	CTS18D
8.70	RR 0870-325	325	-0/+0.30				○		
	RR 0870-330	330	-0/+0.30					●	
9.20	RR 0920-325	325	-0/+0.30				○		
	RR 0920-330	330	-0/+0.30					●	
9.70	RR 0970-325	325	-0/+0.30				○		
	RR 0970-330	330	-0/+0.30					●	
10.20	RR 1020-325	325	-0/+0.30	●			○		
	RR 1020-330	330	-0/+0.30		●	●		●	●
10.70	RR 1070-325	325	-0/+0.30				○		
	RR 1070-330	330	-0/+0.30					●	
11.20	RR 1120-325	325	-0/+0.30				○		
	RR 1120-330	330	-0/+0.30					●	
11.70	RR 1170-330	330	-0/+0.30					●	
12.20	RR 1220-325	325	-0/+0.30	●			●		
	RR 1220-330	330	-0/+0.30		○	●		●	●
12.70	RR 1270-325	325	-0/+0.30				○		
	RR 1270-330	330	-0/+0.30			○		●	
13.00	RR 1300-330 TSM33 (1/2")	330	-0/+0.30					○	
13.20	RR 1320-325	325	-0/+0.30				○		
	RR 1320-330	330	-0/+0.30					●	
14.20	RR 1420-325	325	-0/+0.30	○			○		
	RR 1420-330	330	-0/+0.30		○	○		●	○
14.70	RR 1470-330	330	-0/+0.30					○	
15.20	RR 1520-325	325	-0/+0.30				●		
	RR 1520-330	330	-0/+0.30					●	
16.20	RR 1620-325	325	-0/+0.30	○			●		
	RR 1620-330	330	-0/+0.45		○	●		●	●
17.20	RR 1720-330	330	-0/+0.45					●	

● = stock item

○ = limited stock or upon request

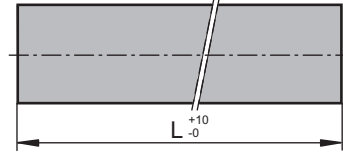
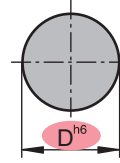
▲ = new products

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Other grades and dimensions upon request

Sintered rods

Ø 18.20 – 46.20 mm

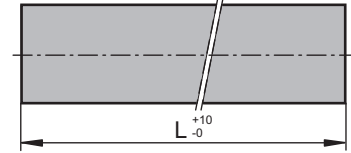
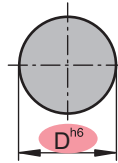


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG12	CTF12A	TSM20	MG18	TSM33	CTS18D
18.20	RR 1820-325	325	-0/+0.30	○			●		
	RR 1820-330	330	-0/+0.45		○	○		●	
19.20	RR 1920-325	325	-0/+0.30				○		
	RR 1920-330	330	-0/+0.45					●	
20.20	RR 2020-325	325	-0/+0.30	●			●		
	RR 2020-330	330	-0/+0.45		○	○		●	●
21.20	RR 2120-330	330	-0/+0.55					●	
22.20	RR 2220-325	325	-0/+0.30				○		
	RR 2220-330	330	-0/+0.55					●	
23.20	RR 2320-325	325	-0/+0.30				○		
	RR 2320-330	330	-0/+0.55					○	
24.20	RR 2420-325	325	-0/+0.30				○		
	RR 2420-330	330	-0/+0.55					○	
25.20	RR 2520-325	325	-0/+0.30				●		
	RR 2520-330	330	-0/+0.65			○		●	●
25.80	RR 2580-330	330	-0/+0.65					○	
26.20	RR 2620-325	325	-0/+0.60				○		
	RR 2620-330	330	-0/+0.65					●	
28.20	RR 2820-330	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					○	
36.20	RR 3620-330	330	-0/+0.65					○	
38.20	RR 3820-330	330	-0/+0.70					○	
40.20	RR 4020-330	330	-0/+0.70					○	
42.20	RR 4220-330	330	-0/+0.70					○	
46.20	RR 4620-330	330	-0/+0.70					○	

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- Other grades and dimensions upon request

Sintered rods

Mould making tools / for machining hard and ultra-hard materials



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	CTU08L	TSF22	TSF44			
3.25	RR 0325-330	330	-0/+0.10	●	●	●			
4.20	RR 0420-330	330	-0/+0.20	●	●	●			
5.20	RR 0520-330	330	-0/+0.25	○	●	●			
6.20	RR 0620-330	330	-0/+0.25	●	●	●			
6.70	RR 0670-330	330	-0/+0.25			○			
8.20	RR 0820-330	330	-0/+0.30	●	●	●			
10.20	RR 1020-330	330	-0/+0.30	●	●	●			
12.20	RR 1220-330	330	-0/+0.30	●	●	●			
14.20	RR 1420-330	330	-0/+0.30		●	●			
16.20	RR 1620-330	330	-0/+0.45		●	●			
18.20	RR 1820-330	330	-0/+0.45		○	●			
20.20	RR 2020-330	330	-0/+0.45		●	●			
25.20	RR 2520-330	330	-0/+0.65		○	●			

● = stock item

○ = limited stock or upon request

▲ = new products

- = no longer in production, available as long as stocks last

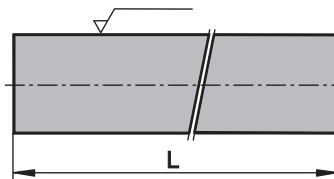
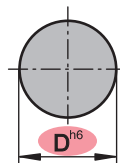
Other grades and dimensions upon request

Ground blanks

Ø 1.00 – 15.00 mm



h6

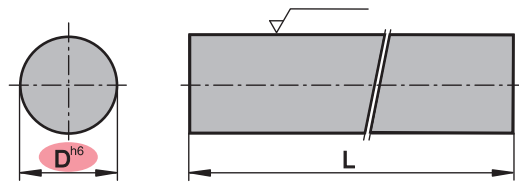


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG12	CTF12A	TSM20	MG18	TSM33	CTS18D
1.00	RG 0100-330	330	+0/-0.006					○	
1.50	RG 0150-330	330	+0/-0.006					○	
2.00	RG 0200-330	330	+0/-0.006					●	
2.50	RG 0250-330	330	+0/-0.006			●		○	
3.00	RG 0300-325	325	+0/-0.006	○			●		
	RG 0300-330	330	+0/-0.006		○			●	
3.50	RG 0350-330	330	+0/-0.008					○	
4.00	RG 0400-325	325	+0/-0.008	●			●		
	RG 0400-330	330	+0/-0.008		○			●	
4.50	RG 0450-330	330	+0/-0.008					○	
5.00	RG 0500-325	325	+0/-0.008				○		
	RG 0500-330	330	+0/-0.008					●	
5.50	RG 0550-330	330	+0/-0.008					○	
6.00	RG 0600-325	325	+0/-0.008	●			●		
	RG 0600-330	330	+0/-0.008		○	●		●	●
6.50	RG 0650-330	330	+0/-0.009					○	
7.00	RG 0700-330	330	+0/-0.009					●	
7.50	RG 0750-330	330	+0/-0.009					○	
8.00	RG 0800-325	325	+0/-0.009	●			●		
	RG 0800-330	330	+0/-0.009		○	●		●	●
8.50	RG 0850-330	330	+0/-0.009					○	
9.00	RG 0900-330	330	+0/-0.009					●	
9.50	RG 0950-330	330	+0/-0.009					○	
10.00	RG 1000-325	325	+0/-0.009	●			●		
	RG 1000-330	330	+0/-0.009		○	●		●	○
11.00	RG 1100-330	330	+0/-0.011					●	
12.00	RG 1200-325	325	+0/-0.011	○			○		
	RG 1200-330	330	+0/-0.011		○	●		●	●
13.00	RG 1300-330	330	+0/-0.011					●	
14.00	RG 1400-325	325	+0/-0.011	○			●		
	RG 1400-330	330	+0/-0.011		○			●	
15.00	RG 1500-330	330	+0/-0.011					●	

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- Other grades and dimensions upon request

Ground blanks

Ø 16.00 – 40.00 mm

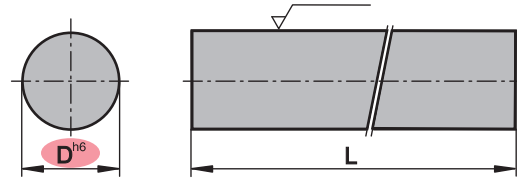


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG12	CTF12A	TSM20	TSM33	MG18	CTS18D
16.00	RG 1600-325	325	+0/-0.011	○				●	
	RG 1600-330	330	+0/-0.011		○	●	●		●
18.00	RG 1800-330	330	+0/-0.011		○	○	●		
19.00	RG 1900-330	330	+0/-0.013				○		
20.00	RG 2000-325	325	+0/-0.013	○				●	
	RG 2000-330	330	+0/-0.013		○	●	●		●
22.00	RG 2200-330	330	+0/-0.013				●		
24.00	RG 2400-330	330	+0/-0.013				○		
25.00	RG 2500-325	325	+0/-0.013					○	
	RG 2500-330	330	+0/-0.013				●		○
28.00	RG 2800-330	330	+0/-0.013				○		
30.00	RG 3000-330	330	+0/-0.013				○		
32.00	RG 3200-330	330	+0/-0.016				●		○
38.00	RG 3800-330	330	+0/-0.016				○		
40.00	RG 4000-330	330	+0/-0.016				○		

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Ground rods for inch dimensions

Ø .125 – 1.25 inch



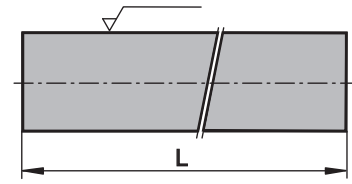
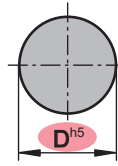
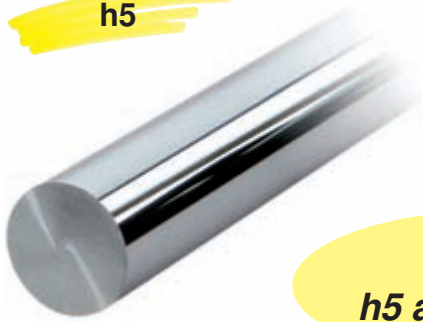
D [mm]	Type, description	L [mm]	Dia. tol. [mm]	TSM33					
3.175	RGI 1/8-13	330	+0/-0.008	▲					
4.763	RGI 3/16-13	330	+0/-0.008	▲					
6.350	RGI 1/4-13	330	+0/-0.009	▲					
7.938	RGI 5/16-13	330	+0/-0.009	▲					
9.525	RGI 3/8-13	330	+0/-0.009	▲					
11.113	RGI 7/16-13	330	+0/-0.011	▲					
12.700	RGI 1/2-13	330	+0/-0.011	▲					
14.288	RGI 9/16-13	330	+0/-0.011	▲					
15.875	RGI 5/8-13	330	+0/-0.011	▲					
19.050	RGI 3/4-13	330	+0/-0.013	▲					
25.400	RGI 1-13	330	+0/-0.013	▲					

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Ground blanks

Mould making tools / for machining hard and ultra-hard materials

h5



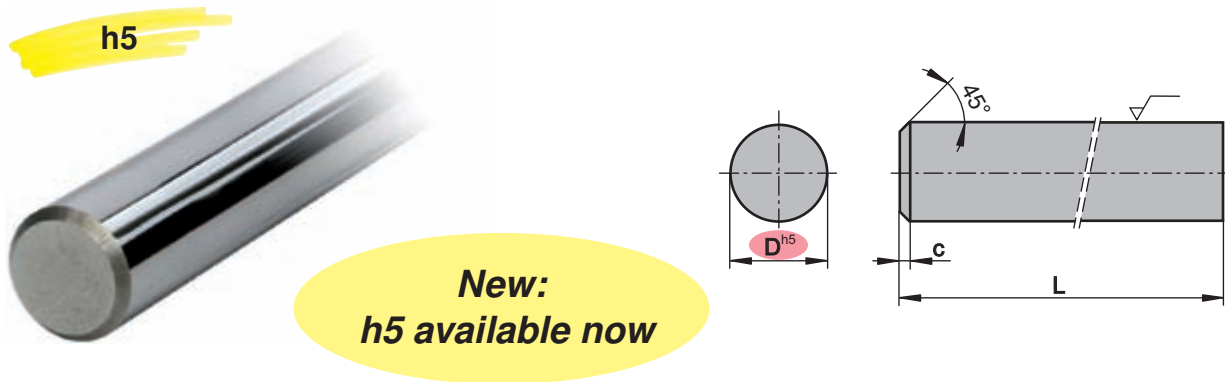
**New:
h5 available now**

D [mm]	Type, description	L [mm]	Dia. tol. [mm]	TSF22	TSF44				
2.00	RG 0200-330	330	+0/-0.004		●				
3.00	RG 0300-330	330	+0/-0.004	●	●				
4.00	RG 0400-330	330	+0/-0.005	●	●				
4.00	RG 0400-330	330	+0/-0.005						
5.00	RG 0500-330	330	+0/-0.005	○					
6.00	RG 0600-330	330	+0/-0.005	●	●				
8.00	RG 0800-330	330	+0/-0.006	●	●				
10.00	RG 1000-330	330	+0/-0.006	●	●				
12.00	RG 1200-330	330	+0/-0.008	●	●				
14.00	RG 1400-330	330	+0/-0.008		●				
16.00	RG 1600-330	330	+0/-0.008	●	●				
20.00	RG 2000-330	330	+0/-0.009	●	●				
25.00	RG 2500-330	330	+0/-0.009	●	●				

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Ground blanks

Semi-finished products for solid carbide milling cutters to DIN 6527, short or long

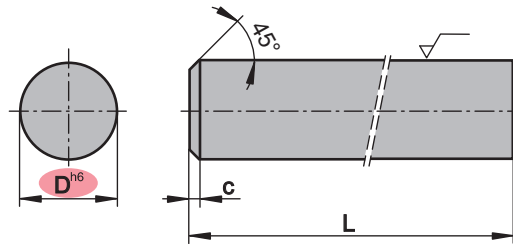
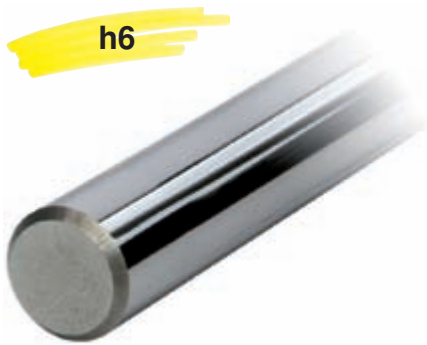


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	TSF22	TSF44		
3.00	RGDC 0300-039	39	+0/-0.004	0.30	●	●		
4.00	RGDC 0400-051	51	+0/-0.004	0.30	●	●		
5.00	RGDC 0500-051	51	+0/-0.005	0.40		●		
6.00	RGDC 0600-051	51	+0/-0.005	0.40	●	●		
6.00	RGDC 0600-058	58	+0/-0.005	0.40	●	●		
8.00	RGDC 0800-064	64	+0/-0.006	0.60	●	●		
10.00	RGDC 1000-067	67	+0/-0.006	0.60		●		
10.00	RGDC 1000-073	73	+0/-0.006	0.80		●		
12.00	RGDC 1200-084	84	+0/-0.008	0.80	●	●		
16.00	RGDC 1600-093	93	+0/-0.008	0.80	●	●		
20.00	RGDC 2000-105	105	+0/-0.009	1.00		●		

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Ground blanks

Semi-finished products for solid carbide milling cutters to DIN 6527, short or long

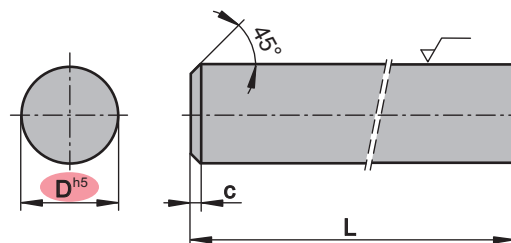
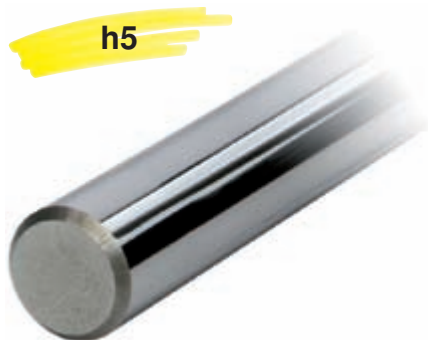


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	TSM33	CTS18D		
3.00	RGDC 0300-039	39	+0/-0.006	0.30	●			
4.00	RGDC 0400-051	51	+0/-0.008	0.40	●			
5.00	RGDC 0500-051	51	+0/-0.008	0.40	●			
6.00	RGDC 0600-051	51	+0/-0.008	0.40	●			
	RGDC 0600-055	55	+0/-0.008	0.40	●			
8.00	RGDC 0600-058	58	+0/-0.008	0.40	●	●		
	RGDC 0800-059	59	+0/-0.009	0.60	●			
10.00	RGDC 0800-064	64	+0/-0.009	0.60	●	●		
	RGDC 1000-067	67	+0/-0.009	0.60	●			
12.00	RGDC 1000-073	73	+0/-0.009	0.80	●	●		
	RGDC 1200-074	74	+0/-0.011	0.80	●			
14.00	RGDC 1200-084	84	+0/-0.011	0.80	●	●		
	RGDC 1400-076	76	+0/-0.011	0.80	●			
16.00	RGDC 1400-084	84	+0/-0.011	0.80	●			
	RGDC 1600-083	83	+0/-0.011	0.80	●			
18.00	RGDC 1600-093	93	+0/-0.011	0.80	●	●		
	RGDC 1800-093	93	+0/-0.011	1.00	●			
20.00	RGDC 2000-093	93	+0/-0.013	1.00	●			
	RGDC 2000-105	105	+0/-0.013	1.00	●	●		

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Ground blanks

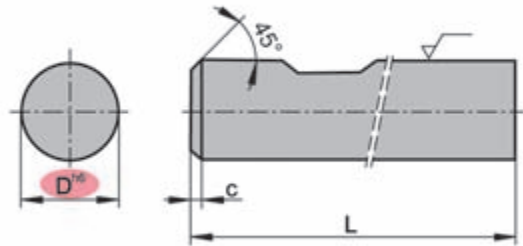
Semi-finished products for solid carbide milling cutters to DIN 6527, short or long



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	CTU08L			
3.00	RGDF 0300-039-F	39	+0/-0.004	0.30	●			
4.00	RGDF 0400-051-F	51	+0/-0.005	0.40	●			
6.00	RGDF 0600-058-F	58	+0/-0.005	0.40	●			
8.00	RGDF 0800-064-F	64	+0/-0.006	0.60	●			
10.00	RGDF 1000-073-F	73	+0/-0.006	0.80	●			

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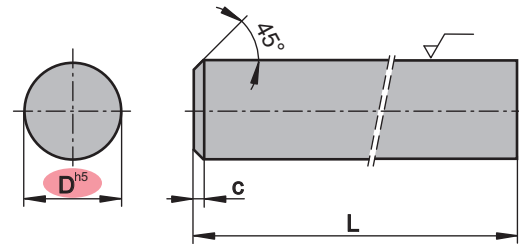
Blanks ground to DIN 6527 short/long (K+L) with Weldon clamping face to DIN 6535



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	TSM33			
6.00	RGDCW 0600-051	51	+0/-0.008	0.40	●			
6.00	RGDCW 0600-055	55	+0/-0.008	0.40	○			
6.00	RGDCW 0600-058	58	+0/-0.008	0.40	●			
8.00	RGDCW 0800-064	64	+0/-0.009	0.60	●			
10.00	RGDCW 1000-067	67	+0/-0.009	0.60	○			
10.00	RGDCW 1000-073	73	+0/-0.009	0.60	●			
12.00	RGDCW 1200-074	74	+0/-0.011	0.80	○			
12.00	RGDCW 1200-084	84	+0/-0.011	0.80	●			
16.00	RGDCW 1600-093	93	+0/-0.011	0.80	●			
20.00	RGDCW 2000-093	93	+0/-0.013	1.00	○			
20.00	RGDCW 2000-105	105	+0/-0.013	1.00	●			

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Ground blanks for extra-long end mills



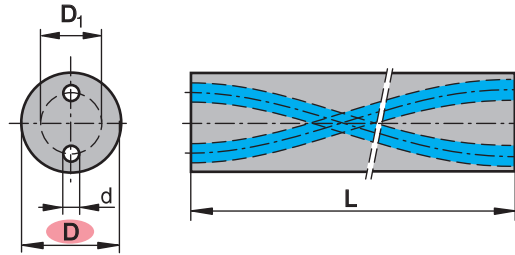
D [mm]	Type, description	L [mm]	Dia. tol. [mm]	c [mm]	TSF44	TSM33		
6.00	RGDO 0600-100	100	+0/-0.005	0.40	●	●		
8.00	RGDO 0800-100	100	+0/-0.006	0.60	●	●		
	RGDO 0800-120	120	+0/-0.006	0.60	○	●		
10.00	RGDO 1000-100	100	+0/-0.006	0.60	●	●		
	RGDO 1000-120	120	+0/-0.006	0.60	●			
12.00	RGDO 1200-100	100	+0/-0.008	0.80	●	●		
	RGDO 1200-120	120	+0/-0.008	0.80	●	●		
16.00	RGDO 1600-120	120	+0/-0.008	0.80	●	●		
20.00	RGDO 2000-150	150	+0/-0.009	1.00	○			
25.00	RGDO 2500-125	125	+0/-0.009	1.00	○	○		
	RGDO 2500-150	150	+0/-0.009	1.00	○			

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- Other grades and dimensions upon request



Sintered rods

with two helical coolant holes, \varnothing 3.30 – 7.30 mm



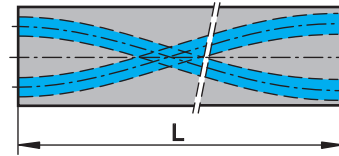
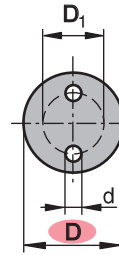
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM20	TSM33
					[mm]	[°]			
3.30	RRK2 0330/0,30/0,15/11,2-330	330	0.30	0.15	11.20	40.1			○
	RRK2 0330/0,80/0,23/11,5-330	330	0.80	0.23	11.50	39.3			○
4.20	RRK2 0420/1,3/0,7/18,0-330	330	1.30	0.70	18.00	34.9			○
	RRK2 0420/1,0/0,3/12,0-330	330	1.00	0.30	12.00	46.3	●		
4.30	RRK2 0430/2,1/0,45/21,8-325	325	2.10	0.45	21.80	30.0	○		
5.30	RRK2 0530/2,2/0,6/24,5-325	325	2.20	0.60	24.50	32.7	○		
6.30	RRK2 0630/1,6/0,5/18,0-325	325	1.60	0.50	18.00	46.3	●		
	RRK2 0630/1,6/0,5/18,0-350	350	1.60	0.50	18.00	46.3			●
	SBR2 0630/1,9/0,7/22,5-330	330	1.90	0.70	22.50	40.0		○	●
	SBR2 0630/1,9/0,7/22,5-350	350	1.90	0.70	22.50	40.0			●
	SBR2 0630/1,9/0,7/23,0-325	325	1.90	0.70	23.00	39.3	●		
	SBR2 0630/2,0/0,5/22,5-325	325	2.00	0.50	22.50	40.0	●		
	RRK2 0630/2,0/0,9/32,7-330	330	2.00	0.90	32.70	30.0			●
	RRK2 0630/2,2/0,7/32,7-330	330	2.20	0.70	32.70	30.0			○
	RRK2 0630/2,2/0,7/32,7-350	350	2.20	0.70	32.70	30.0			●
	RRK2 0630/2,2/0,9/29,0-350	350	2.20	0.90	29.00	33.0			○
6.80	RRK2 0630/2,5/1,0/32,7-325	325	2.50	1.00	32.70	30.0	●		
	RRK2 0630/2,7/0,8/32,7-330	330	2.70	0.80	32.70	30.0		○	●
	RRK2 0630/2,7/0,8/32,7-350	350	2.70	0.80	32.70	30.0			●
	RRK2 0680/2,7/0,8/35,4-330	330	2.70	0.80	35.40	28.0			○
7.30	SBR2 0730/2,3/0,7/26,2-325	325	2.30	0.70	26.20	40.0	○		
	RRK2 0730/3,2/0,9/40,8-330	330	3.20	0.90	40.80	28.3			○
	RRK2 0730/3,5/0,9/38,1-325	325	3.50	0.90	38.10	30.0	●		

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Sintered rods

with two helical coolant holes, \varnothing 8.30 – 11.80 mm



D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM20	TSM33
					[mm]	[°]			
8.30	SBR2 0830/2,3/0,7/27,2-330	330	2.30	0.70	27.20	42.7		○	●
	SBR2 0830/2,9/0,7/30,0-325	325	2.90	0.70	30.00	40.0	●		
	RRK2 0830/2,9/0,9/35,0-330	330	2.90	0.90	35.00	35.7			○
	RRK2 0830/3,3/1,0/35,0-325	325	3.30	1.00	35.00	35.7	●		
	RRK2 0830/3,3/1,0/35,0-330	330	3.30	1.00	35.00	35.7			○
	RRK2 0830/3,3/1,0/35,0-350	350	3.30	1.00	35.00	35.7			●
	RRK2 0830/3,3/1,0/43,5-325	325	3.30	1.00	43.50	30.0	●		
	RRK2 0830/3,4/1,0/43,5-330	330	3.40	1.00	43.50	30.0		●	●
	RRK2 0830/3,4/1,0/43,5-350	350	3.40	1.00	43.50	30.0			●
	RRK2 0830/3,6/0,9/38,1-325	325	3.60	0.90	38.10	33.4	○		
9.30	SBR2 0930/3,0/0,7/33,7-325	325	3.00	0.70	33.70	40.0	○		
	RRK2 0930/4,2/1,0/49,0-330	330	4.20	1.00	49.00	30.0			○
	RRK2 0930/4,35/1,0/49,0-325	325	4.35	1.00	49.00	30.0	○		
9.80	RRK2 0980/4,8/1,3/54,4-330	330	4.80	1.30	54.40	27.5			○
10.30	SBR2 1030/2,7/0,8/37,0-330	330	2.70	0.80	37.00	40.3		○	●
	SBR2 1030/3,2/0,8/37,4-325	325	3.20	0.80	37.40	40.0	●		
	RRK2 1030/3,9/1,1/46,0-330	330	3.90	1.10	46.00	34.3			○
	RRK2 1030/4,4/1,15/46,0-325	325	4.40	1.15	46.00	34.3	●		
	RRK2 1030/4,4/1,15/46,0-330	330	4.40	1.15	46.00	34.3			●
	RRK2 1030/4,8/1,3/54,0-325	325	4.80	1.30	54.00	30.2	●		
	RRK2 1030/4,8/1,3/54,4-330	330	4.80	1.30	54.40	30.0		○	●
RRK2 1030/5,0/1,2/49,0-325	325	5.00	1.20	49.00	32.7	●			
10.80	SBR2 1080/3,5/0,8/39,3-330	330	3.50	0.80	39.30	38.6			○
11.30	SBR2 1130/3,2/0,8/41,2-325	325	3.20	0.80	41.20	40.0	○		
	RRK2 1130/5,5/1,5/59,9-325	325	5.50	1.50	59.00	30.0	●		
11.80	RRK2 1180/6,3/1,7/65,3-330	330	6.30	1.70	65.30	27.9			○

● = stock item

○ = limited stock or upon request

▲ = new products

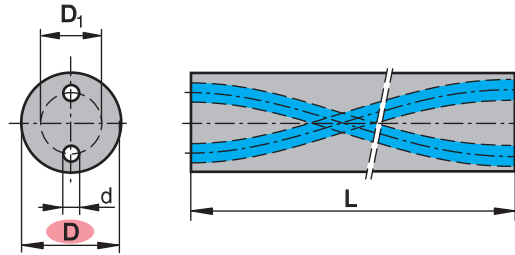
- = no longer in production, available as long as stocks last

Other grades and dimensions upon request



Sintered rods

with two helical coolant holes, \varnothing 12.30 – 15.30 mm



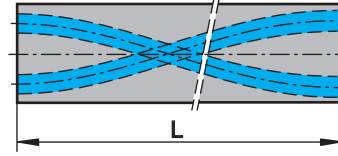
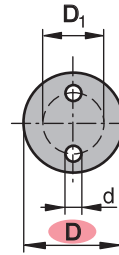
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM20	TSM33
					[mm]	[°]			
12.30	SBR2 1230/3,50/1,0/46,3-330	330	3.70	1.00	46.30	39.2			○
	SBR2 1230/3,7/1,0/46,3-330	330	3.70	1.00	46.30	39.2		○	●
	SBR2 1230/4,0/0,9/44,9-325	325	4.00	0.90	44.90	40.0	●		
	RRK2 1230/5,0/1,35/57,0-330	330	5.00	1.35	57.00	33.5			○
	RRK2 1230/5,4/1,5/57,0-250	250	5.40	1.50	57.00	33.5			●
	RRK2 1230/5,4/1,5/57,0-325	325	5.40	1.50	57.00	33.5	●		
	RRK2 1230/5,4/1,5/57,0-330	330	5.40	1.50	57.00	33.5			●
	RRK2 1230/6,0/1,5/59,9-325	325	6.00	1.50	59.90	32.2	○		
	RRK2 1230/6,3/1,6/65,3-325	325	6.30	1.60	65.30	30.0	●		
	RRK2 1230/6,3/1,7/65,3-250	250	6.30	1.70	65.30	30.0			●
RRK2 1230/6,3/1,7/65,3-330	330	6.30	1.70	65.30	30.0		●	●	
13.30	SBR2 1330/4,4/1,0/48,7-325	325	4.40	1.00	48.70	40.0	○		
	RRK2 1330/6,5/1,6/70,7-325	325	6.50	1.60	70.70	30.0	●		
	RRK2 1330/7,0/1,7/70,7-330	330	7.00	1.70	70.70	30.0			○
14.30	SBR2 1430/4,2/1,15/54,4-330	330	4.20	1.15	54.40	39.0			○
	SBR2 1430/4,65/1,1/52,4-325	325	4.65	1.10	52.40	40.0	●		
	SBR2 1430/4,8/1,3/54,4-330	330	4.80	1.30	54.40	39.0		○	●
	RRK2 1430/6,0/1,60/65,0-330	330	6.00	1.60	65.00	34.1			●
	RRK2 1430/6,7/1,8/76,2-265	265	6.70	1.80	76.20	30.0			○
	RRK2 1430/6,7/1,8/76,2-330	330	6.70	1.80	76.20	30.0			●
	RRK2 1430/7,0/2,0/76,2-265	265	7.00	2.00	76.20	30.0			●
	RRK2 1430/7,0/2,0/76,2-325	325	7.00	2.00	76.20	30.0	●		
	RRK2 1430/7,0/2,0/76,2-330	330	7.00	2.00	76.20	30.0			●
	RRK2 1430/7,2/1,6/70,7-325	325	7.20	1.60	70.70	31.9	○		
RRK2 1430/7,6/2,0/76,2-330	330	7.60	2.00	76.20	30.0		○	●	
14.80	SBR2 1480/4,9/1,1/54,4-330	330	4.90	1.10	54.40	39.0			○
15.30	SBR2 1530/4,9/1,2/56,1-325	325	4.90	1.20	56.10	40.0	○		
	RRK2 1530/7,6/2,0/81,6-330	330	7.60	2.00	81.60	30.0			○
	RRK2 1530/7,7/2,0/81,6-325	325	7.70	2.00	81.60	30.0	●		

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- Other grades and dimensions upon request



Sintered rods

with two helical coolant holes, \varnothing 16.30 – 21.30 mm



D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM20	TSM33
					[mm]	[°]			
16.30	SBR2 1630/4,9/1,4/62,0-330	330	4.90	1.40	62.00	39.0			●
	SBR2 1630/5,5/1,2/59,9-325	325	5.50	1.20	59.90	40.0	●		
	SBR2 1630/5,7/1,5/62,0-330	330	5.70	1.50	62.00	39.0			●
	RRK2 1630/7,0/2,0/73,0-330	330	7.00	2.00	73.00	34.6			○
	RRK2 1630/8,0/2,0/87,1-280	280	8.00	2.00	87.10	30.0			●
	RRK2 1630/8,0/2,0/87,1-330	330	8.00	2.00	87.10	30.0			●
	RRK2 1630/8,4/2,0/81,6-325	325	8.40	2.00	81.60	31.6	●		
	RRK2 1630/8,6/2,5/87,1-280	280	8.60	2.50	87.10	30.0			○
	RRK2 1630/8,6/2,5/87,1-325	325	8.60	2.50	87.10	30.0	●		
	RRK2 1630/8,6/2,5/87,1-330	330	8.60	2.50	87.10	30.0		○	●
17.30	SBR2 1730/5,75/1,3/63,6-325	325	5.75	1.30	63.60	40.0	○	○	
	RRK2 1730/8,9/2,5/92,5-325	325	8.90	2.50	92.50	30.0	●		
18.30	SBR2 1830/5,6/1,6/68,0-330	330	5.60	1.60	68.00	39.7			●
	SBR2 1830/6,25/1,5/68-325	325	6.25	1.50	68.0	40.0	●		
	SBR2 1830/6,3/1,7/74,2-330	330	6.30	1.70	74.20	37.3			●
	RRK2 1830/7,75/2,2/82,0-330	330	7.75	2.20	82.00	34.6			○
	RRK2 1830/9,0/2,3/98,0-330	330	9.00	2.30	98.00	30.0			●
	RRK2 1830/9,6/2,2/92,5-325	325	9.60	2.20	92.50	31.4	●		
	RRK2 1830/9,7/2,8/98,0-325	325	9.70	2.80	98.00	30.0	●		
	RRK2 1830/9,7/2,8/98,0-330	330	9.70	2.80	98.00	30.0			●
19.30	SBR2 1930/6,5/1,5/71,1-325	325	6.50	1.50	71.10	40.0	○		
	RRK2 1930/10,1/2,8/103,4-325	325	10.10	2.80	103.40	30.0	○		
20.30	SBR2 2030/6,0/1,0/84,3-330	330	6.00	1.00	84.30	36.7			●
	SBR2 2030/7,0/1,7/84,3-330	330	7.00	1.70	84.30	36.7		○	●
	SBR2 2030/7,1/1,5/74,9-325	325	7.10	1.50	74.90	40.0	●		
	RRK2 2030/10,0/2,5/108,8-330	330	10.00	2.50	108.80	30.0			●
	RRK2 2030/10,4/2,5/103,4-325	325	10.40	2.50	103.40	31.3	●		
	RRK2 2030/10,7/3,2/108,8-325	325	10.70	3.20	108.80	30.0	○		
	RRK2 2030/10,7/3,2/108,8-330	330	10.70	3.20	108.80	30.0			●
21.30	SBR2 2130/7,4/1,6/78,6-325	325	7.40	1.60	78.60	40.0	○		
	RRK2 2130/11,5/3,2/114,2-325	325	11.50	3.20	114.20	30.0	●		

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▲ = new products

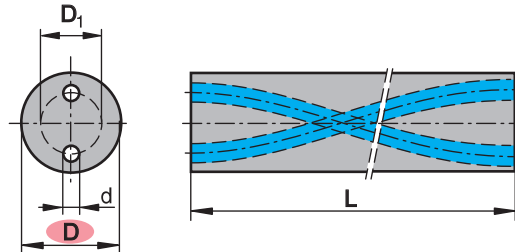
– = no longer in production, available as long as stocks last

Other grades and dimensions upon request



Sintered rods

with two helical coolant holes, \varnothing 22.30 – 35.30 mm



D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM33	
					[mm]	[°]			
22.30	SBR2 2230/7,7/1,7/82,4-325	325	7.70	1.70	82.40	40.0	○		
	RRK2 2230/10,0/2,50/108,0-330	330	10.00	2.50	108.00	32.6		●	
	RRK2 2230/11,7/3,2/119,7-330	330	11.70	3.20	119.70	30.0		●	
	RRK2 2230/12,0/3,2/119,7-325	325	12.00	3.20	119.70	30.0	○		
25.30	SBR2 2530/7,7/1,75/93,6-330	330	7.70	1.75	93.60	40.0		○	
	RRK2 2530/11,5/3,5/119,0-330	330	11.50	3.50	119.00	33.4		●	
	RRK2 2530/12,0/2,5/119,0-330	330	12.00	2.50	119.00	33.4		●	
	RRK2 2530/12,0/3,2/139,3-325	325	12.00	3.20	139.30	29.4	○		
26.30	RRK2 2630/12,0/2,5/148,0-330	330	12.00	2.50	148	28.9	○		
28.30	SBR2 2830/9,0/2,0/107,7-330	330	9.00	2.00	107.8	39.2	●		
	RRK2 2830/14,8/2,5/159,0-330	330	14.80	2.50	159	29.0	●		
30.30	SBR2 3030/10,0/2,0/116,0-330	330	10.00	2.00	116	39.0	●		
	RRK2 3030/16,0/2,5/172,0-330	330	16.00	2.50	172	28.7	●		
32.30	SBR2 3230/11,0/2,0/119,8-330	330	11.00	2.00	119.80	40.0	●		
	RRK2 3230/17,0/3,0/177,8-330	330	17.00	3.00	177.8	29.5	●		
35.30	RRK2 3530/18,0/3,0/189,5-330	330	18.00	3.00	189.5	30.0	●		

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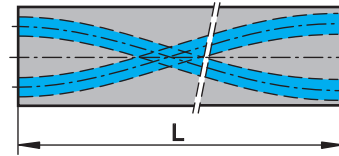
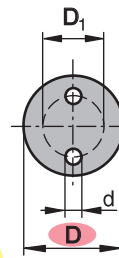
Other grades and dimensions upon request



Sintered rods with two helical coolant holes – XXL



**New: length 530 mm
also available!**



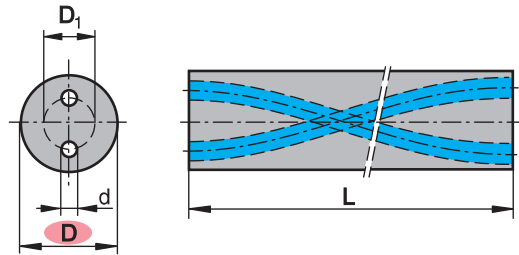
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		TSM33		
					[mm]	[°]			
6.30	LRRK2 0630/1,6/0,4/18,0-430	430	1.60	0.40	18.00	46.3	●		
	LSBR2 0630/2,0/0,5/22,5-430	430	2.00	0.50	22.50	40.5	●		
	LRRK2 0630/2,2/0,7/29,0-430	430	2.20	0.70	29.00	33.0	●		
	LRRK2 0630/2,7/0,8/32,7-430	430	2.70	0.80	32.70	30.0	●		
8.30	LRRK2 0830/3,4/1,0/43,5-430	430	3.40	1.00	43.50	30.0	●		
10.30	LRRK2 1030/4,8/1,3/54,4-430	430	4.80	1.30	54.40	30.0	●		
	LRRK2 1030/4,8/1,3/54,4-530	530	4.80	1.30	54.40	30.0	▲		
12.30	LRRK2 1230/6,3/1,7/65,3-430	430	6.30	1.70	65.30	30.0	●		
	LRRK2 1230/6,3/1,7/65,3-530	530	6.30	1.70	65.30	30.0	▲		
14.30	LRRK2 1430/6,7/1,8/76,2-430	430	6.70	1.80	76.20	30.0	●		
	LRRK2 1430/6,7/1,8/76,2-530	530	6.70	1.80	76.20	30.0	▲		
16.30	LRRK2 1630/8,0/2,0/87,1-430	430	8.00	2.00	87.10	30.0	●		
	LRRK2 1630/8,0/2,0/87,1-530	530	8.00	2.00	87.10	30.0	▲		
18.30	LRRK2 1830/9,0/2,3/98,0-430	430	9.00	2.30	98.00	30.0	●		
	LRRK2 1830/9,0/2,3/98,0-530	530	9.00	2.30	98.00	30.0	▲		
20.30	LRRK2 2030/10,0/2,5/108,8-430	430	10.00	2.50	108.80	30.0	●		
	LRRK2 2030/10,0/2,5/108,8-530	530	10.0	2.50	108.80	30.0	▲		
25.30	LRRK2 2530/12,0/2,5/119,0-430	430	12.00	2.50	119.00	33.4	●		
	LRRK2 2530/12,0/2,5/119,0-530	530	12.00	2.50	119.00	33.4	▲		

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Sintered rods

with two helical coolant holes ~ 15° pitch angle



D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		TSM33		
					[mm]	[°]			
6.30	FBR2 0630/1,9/0,6/46,9-415	415	1.90	0.60	46.90	21.9	●		
	FBR2 0630/2,6/0,7/70,35-330	330	2.60	0.70	70.35	15.0	○		
	FBR2 0630/2,6/0,7/70,35-415	415	2.60	0.70	70.35	15.0	●		
8.30	FBR2 0830/3,3/1,0/70,34-415	415	3.30	1.00	70.34	19.7	○		
	FBR2 0830/3,6/1,25/93,8-330	330	3.60	1.25	93.80	15.0	●		
	FBR2 0830/3,6/1,25/93,8-415	415	3.60	1.25	93.80	15.0	●		
10.30	FBR2 1030/4,4/0,1,20/93,80-415	415	4.40	1.20	93.80	18.5	●		
	FBR2 1030/4,8/0,1,40/117,25-330	330	4.80	1.40	117.25	15.0	●		
	FBR2 1030/4,8/0,1,40/117,25-415	415	4.80	1.40	117.25	15.0	●		
12.30	FBR2 1230/5,4/0,1,50/117,25-415	415	5.40	1.50	117.25	17.8	○		
	FBR2 1230/6,25/1,55/140,70-330	330	6.25	1.55	140.70	15.0	○		
	FBR2 1230/6,25/1,55/140,70-415	415	6.25	1.55	140.70	15.0	●		
14.30	FBR2 1430/6,70/1,90/164,14-330	330	6.70	1.90	164.14	15.0	●		
	FBR2 1430/6,70/1,90/164,14-415	415	6.70	1.90	164.14	15.0	●		
16.30	FBR2 1630/8,0/2,10/187,59-330	330	8.00	2.10	187.59	15.0	○		
18.30	FBR2 1830/9,0/2,3/211,0-330	330	9.00	2.30	211.00	15.0	○		
20.30	FBR2 2030/10,0/2,50/234,49-330	330	10.00	2.50	234.49	15.0	●		
22.30	FBR2 2230/12,0/2,5/257,94-330	330	12.00	2.50	257.94	15.0	●		

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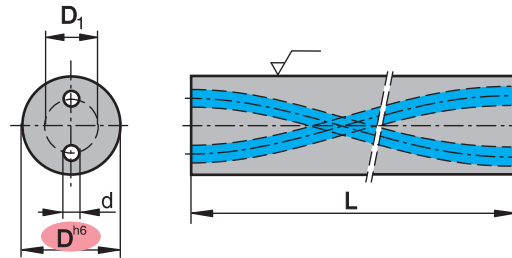
Other grades and dimensions upon request



Ground blanks with two helical coolant holes

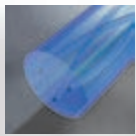


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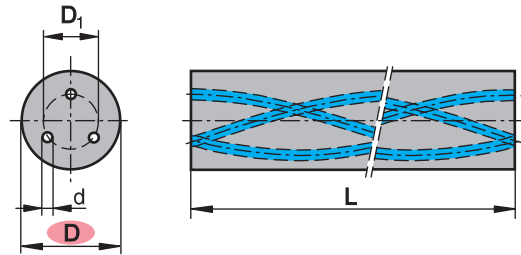
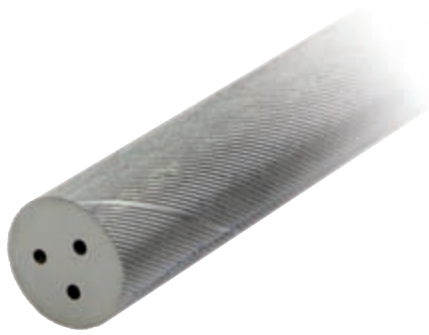
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		TSM33		
					[mm]	[°]			
6.00	SBG2 0600/1,9/0,7/22,5-330	330	1.90	0.70	22.50	40.0	●		
	RGK2 0600/2,7/0,8/32,7-330	330	2.70	0.80	32.70	30.0	●		
8.00	SBG2 0800/2,3/0,7/27,2-330	330	2.30	0.70	27.20	42.7	●		
	RGK2 0800/3,4/1,0/43,5-330	330	3.40	1.00	43.50	30.0	●		
10.00	SBG2 1000/2,7/0,8/37,0-330	330	2.70	0.80	37.00	40.3	●		
	RGK2 1000/4,8/1,3/54,4-330	330	4.80	1.30	54.40	30.0	●		
12.00	SBG2 1200/3,7/1,0/46,3-330	330	3.70	1.00	46.30	39.2	●		
	RGK2 1200/6,3/1,7/65,3-330	330	6.30	1.70	65.30	30.0	●		
14.00	SBG2 1400/4,8/1,3/54,4-330	330	4.80	1.30	54.40	39.0	●		
	RGK2 1400/6,7/1,8/76,2-330	330	6.70	1.80	76.20	30.0	●		
16.00	SBG2 1600/5,7/1,5/62,0-330	330	5.70	1.50	62.00	39.0	●		
	RGK2 1600/8,0/2,0/87,1-330	330	8.00	2.00	87.10	30.0	●		
18.00	SBG2 1800/6,3/1,7/74,2-330	330	6.30	1.70	74.20	37.3	○		
	RGK2 1800/9,0/2,3/98,0-330	330	9.00	2.30	98.00	30.0	●		
20.00	SBG2 2000/7,0/1,7/84,3-330	330	7.00	1.70	84.30	36.7	○		
	RGK2 2000/10,0/2,5/108,8-330	330	10.00	2.50	108.80	30.0	●		
25.00	SBG2 2500/7,7/1,75/93,6-330	330	7.70	1.75	93.60	40.0	○		
	RGK2 2500/12,0/2,5/119,0-330	330	12.00	2.50	119.00	33.4	○		

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Sintered rods

with three helical coolant holes, \varnothing 5.30 – 15.30 mm



D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM33	
					[mm]	[°]			
5.30	RRK3 0530/2,5/0,5/27,2-325	325	2.50	0.50	27.20	30.0	○		
6.30	RRK3 0630/2,7/0,8/32,7-330	330	2.70	0.80	32.70	30.0		●	
	RRK3 0630/3,0/0,6/32,7-325	325	3.00	0.60	32.70	31.2	○		
7.30	RRK3 0730/3,5/0,65/38,1-325	325	3.50	0.65	38.10	31.0	○		
8.30	SBR3 0830/2,9/0,7/30,0-330	330	2.90	0.70	30.00	40.0		○	
	SBR3 0830/2,9/0,7/30,0-325	325	2.90	0.70	30.00	40.0	○		
	RRK3 0830/3,7/0,8/43,5-330	330	3.70	0.80	43.50	30.0		○	
	RRK3 0830/4,0/0,75/43,5-325	325	4.00	0.75	43.50	30.0	●		
9.30	RRK3 0930/4,3/0,9/49,0-330	330	4.30	0.90	49.00	30.0		○	
	RRK3 0930/4,35/0,9/49,0-325	325	4.35	0.90	49.00	30.0	○		
10.30	RRK3 1030/4,9/1,0/54,4-325	325	4.90	1.00	54.40	30.0	●		
	SBR3 1030/3,5/0,75/37,0-330	330	3.50	0.75	37.00	40.3		○	
	RRK3 1030/4,8/0,9/54,4-330	330	4.80	0.90	54.40	30.0		○	
11.30	RRK3 1130/5,5/1,1/59,9-325	325	5.50	1.10	59.90	30.0	○		
12.30	SBR3 1230/4,0/0,9/44,9-325	325	4.00	0.90	44.90	40.0	●		
	SBR3 1230/4,0/0,9/44,9-330	330	4.00	0.90	44.90	40.0		○	
	RRK3 1230/6,0/1,1/65,3-325	325	6.00	1.10	65.30	30.0	●		
	RRK3 1230/6,3/1,3/65,3-330	330	6.30	1.30	65.30	30.0		○	
13.30	SBR3 1330/4,5/1,0/48,7-325	325	4.50	1.00	48.70	40.0	○		
	RRK3 1330/6,5/1,3/70,7-325	325	6.50	1.30	70.70	30.5	○		
14.30	SBR3 1430/4,65/1,2/54,4-330	330	4.65	1.20	54.40	39.0		○	
	SBR3 1430/4,65/1,2/52,4-325	325	4.65	1.20	52.40	40.0	○		
	RRK3 1430/7,1/1,3/76,2-325	325	7.10	1.30	76.20	30.5	●		
	RRK3 1430/7,6/1,5/76,2-330	330	7.60	1.50	76.20	30.0		●	
15.30	SBR3 1530/4,9/1,2/56,1-325	325	4.90	1.20	56.10	40.0	○		

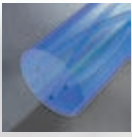
● = stock item

○ = limited stock or upon request

▲ = new products

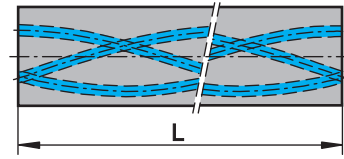
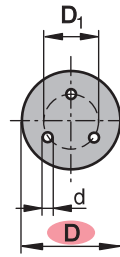
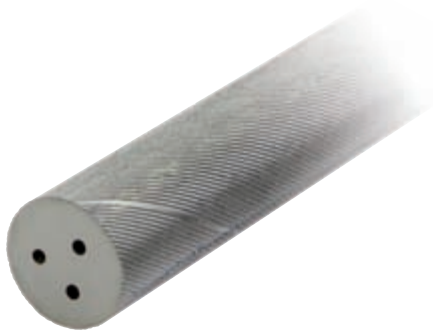
- = no longer in production, available as long as stocks last

Other grades and dimensions upon request



Sintered rods

with three helical coolant holes, \varnothing 16.30 – 25.30 mm



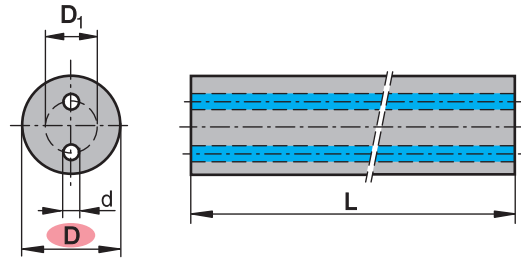
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	Nominal pitch		MG18	TSM33	
					[mm]	[°]			
16.30	RRK3 1630/8,6/1,7/87,1-330	330	8.60	1.70	87.10	30.0		○	
	SBR3 1630/5,5/1,2/59,9-325	325	5.50	1.20	59.90	40.0	●		
	RRK3 1630/8,3/1,5/87,0-325	325	8.30	1.50	87.00	30.0	●		
17.30	SBR3 1730/5,75/1,3/63,6-325	325	5.75	1.30	63.60	40.0	○		
	RRK3 1730/8,9/1,6/92,5-325	325	8.90	1.60	92.50	30.0	○		
18.3	SBR3 1830/6,25/1,5/67,4-325	325	6.25	1.50	67.40	40.0	○		
18.30	RRK3 1830/9,6/1,7/97,9-325	325	9.60	1.70	97.90	30.4	●		
	RRK3 1830/9,7/1,7/98,0-330	330	9.70	1.70	98.00	30.0		○	
19.30	SBR3 1930/6,5/1,5/71,1-325	325	6.50	1.50	71.10	40.0	○		
	RRK3 1930/10,1/1,9/103,4-330	330	10.10	1.90	103.40	30.0		○	
20.30	SBR3 2030/7,1/1,5/74,9-325	325	7.10	1.50	74.90	40.0	○		
	RRK3 2030/10,4/2,0/108,8-325	325	10.40	2.00	108.80	30.4	●		
	SBR3 2030/7,1/1,5/75,0-330	330	7.10	1.50	75.00	40.0		○	
	RRK3 2030/10,7/2,0/108,8-330	330	10.70	2.00	108.80	30.0		○	
21.30	SBR3 2130/7,4/1,6/78,6-325	325	7.40	1.60	78.60	40.0	○		
	RRK3 2130/11,5/2,0/114,2-325	325	11.5	2.00	114.2	30.0	○		
22.3	SBR3 2230/7,7/1,7/82,4-325	325	7.70	1.70	82.40	40.0	○		
22.30	RRK3 2230/12,0/2,0/119,7-325	325	12.00	2.00	119.70	30.0	○		
	RRK3 2230/10,7/2,0/119,7-330	330	10.70	2.00	119.70	30.0		○	
25.30	RRK3 2530/11,5/2,2/119,0-330	330	11.50	2.20	119.00	33.4		●	
	SBR3 2530/8,1/1,7/93,6-330	330	8.10	1.70	93.60	40.0		○	

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Sintered rods

with two straight coolant holes, \varnothing 3.30 – 8.20 mm



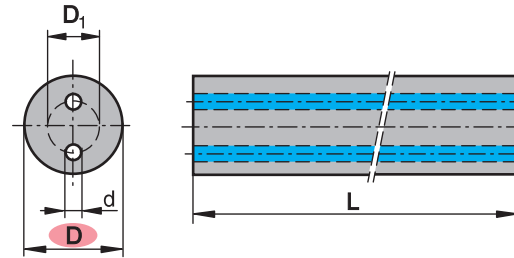
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	TSM20	MG18		
3.30	RRG2 0330/1,1/0,425-330	330	1.10	0.425	○			
4.20	RRG2 0420/1,1/0,45-330	330	1.10	0.45	○			
5.20	RRG2 0520/2,0/0,9-325	325	2.00	0.90		○		
	RRG2 0520/2,0/0,9-330	330	2.00	0.90	○			
6.20	RRG2 0620/1,1/0,5-330	330	1.10	0.50	●			
	RRG2 0620/1,5/0,9-330	330	1.50	0.90	○			
	RRG2 0620/1,7/0,6-325	325	1.70	0.60		●		
	RRG2 0620/1,7/0,6-330	330	1.70	0.60	○			
	RRG2 0620/2,0/0,9-325	325	2.00	0.90		●		
	RRG2 0620/2,0/1,0-330	330	2.00	1.00	○			
	RRG2 0620/2,3/0,9-330	330	2.30	0.90	○			
	RRG2 0620/2,6/0,9-325	325	2.60	0.90		○		
7.20	RRG2 0720/2,0/0,9-325	325	2.00	0.90		○		
	RRG2 0720/2,0/1,0-330	330	2.00	1.00	○			
	RRG2 0720/3,0/0,9-325	325	3.00	0.90		○		
8.20	RRG2 0820/2,0/0,8-330	330	2.00	0.80	○			
	RRG2 0820/2,0/0,9-325	325	2.00	0.90		●		
	RRG2 0820/2,0/1,0-330	330	2.00	1.00	○			
	RRG2 0820/2,6/0,9-330	330	2.60	0.90	●			
	RRG2 0820/3,4/1,0-325	325	3.40	1.00		●		
	RRG2 0820/3,5/1,5-330	330	3.50	1.50	●			
	RRG2 0820/4,0/0,9-325	325	4.00	0.90		○		
	RRG2 0820/4,0/1,0-330	330	4.00	1.00	○			

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Sintered rods

with two straight coolant holes, \varnothing 9.20 – 14.20 mm



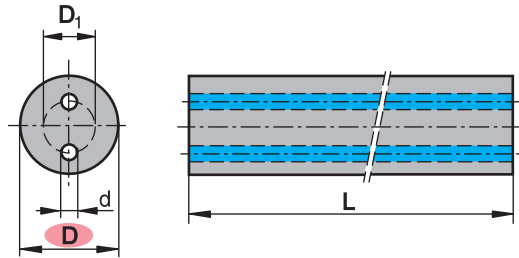
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	TSM20	MG18		
9.20	RRG2 0920/2,6/1,2-325	325	2.60	1.20		○		
	RRG2 0920/3,5/1,5-330	330	3.50	1.50	○			
	RRG2 0920/3,8/1,2-325	325	3.80	1.20		○		
	RRG2 0920/4,0/1,3-330	330	4.00	1.30	○			
10.20	RRG2 1020/2,0/1,0-330	330	2.00	1.00	○			
	RRG2 1020/2,6/1,2-325	325	2.60	1.20		●		
	RRG2 1020/2,8/1,0-330	330	2.80	1.00	○			
	RRG2 1020/3,5/1,5-330	330	3.50	1.50	●			
	RRG2 1020/4,0/1,4-330	330	4.00	1.40	●			
	RRG2 1020/4,2/1,4-325	325	4.20	1.40		●		
	RRG2 1020/5,0/1,2-330	330	5.00	1.20	●			
	RRG2 1020/5,2/1,4-330	330	5.20	1.40	○			
12.20	RRG2 1220/2,6/1,2-330	330	2.60	1.20	●			
	RRG2 1220/3,5/1,5-325	325	3.50	1.50		●		
	RRG2 1220/3,5/1,5-330	330	3.50	1.50	●			
	RRG2 1220/3,7/1,3-330	330	3.70	1.30	○			
	RRG2 1220/4,8/1,5-330	330	4.80	1.50	●			
	RRG2 1220/5,0/2,0-325	325	5.00	2.00		●		
	RRG2 1220/5,0/2,0-330	330	5.00	2.00	○			
	RRG2 1220/6,0/1,5-330	330	6.00	1.50	●			
13.20	RRG2 1220/6,2/2,0-415	415	6.20	2.00	○			
	RRG2 1320/5,4/2,0-325	325	5.40	2.00		●		
14.20	RRG2 1420/3,5/1,5-325	325	3.50	1.50		●		
	RRG2 1420/5,0/1,7-330	330	5.00	1.70	●			
	RRG2 1420/5,0/2,0-325	325	5.00	2.00		●		
	RRG2 1420/5,0/2,0-330	330	5.00	2.00	●			
	RRG2 1420/5,8/2,0-325	325	5.80	2.00		●		
	RRG2 1420/7,0/2,0-330	330	7.00	2.00	●			
	RRG2 1420/7,0/2,0-345	345	7.00	2.00	○			
	RRG2 1420/3,7/1,3-330	330	3.70	1.30	○			

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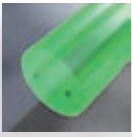
Sintered rods

with two straight coolant holes, \varnothing 15.20 – 21.20 mm



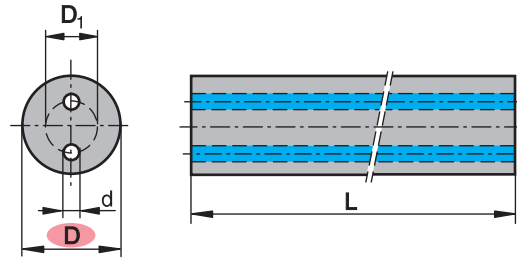
D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	TSM20	MG18		
15.20	RRG2 1520/5,0/2,0-330	330	5.00	2.00	●			
16.20	RRG2 1620/3,5/1,5-330	330	3.50	1.50	●			
	RRG2 1620/5,0/1,5-330	330	5.00	1.50	●			
	RRG2 1620/5,0/1,7-330	330	5.00	1.70	○			
	RRG2 1620/5,0/2,0-325	325	5.00	2.00		●		
	RRG2 1620/5,0/2,0-330	330	5.00	2.00	○			
	RRG2 1620/6,2/2,0-400	400	6.20	2.00	○			
	RRG2 1620/6,6/2,5-325	325	6.60	2.50		●		
	RRG2 1620/7,0/2,5-330	330	7.00	2.50	○			
	RRG2 1620/8,0/2,0-330	330	8.00	2.00	●			
	RRG2 1620/8,0/2,0-415	415	8.00	2.00	●			
18.20	RRG2 1820/5,0/2,0-330	330	5.00	2.00	●			
	RRG2 1820/6,0/2,0-325	325	6.00	2.00		●		
	RRG2 1820/6,3/2,0-330	330	6.30	2.00	○			
	RRG2 1820/7,5/2,5-325	325	7.50	2.50		○		
	RRG2 1820/9,0/2,0-325	325	9.00	2.00		○		
	RRG2 1820/9,0/2,0-330	330	9.00	2.00	○			
19.20	RRG2 1920/7,9/2,5-325	325	7.90	2.50		○		
20.20	RRG2 2020/3,5/1,5-330	330	3.50	1.50	○			
	RRG2 2020/6,0/2,0-325	325	6.00	2.00		●		
	RRG2 2020/8,2/2,5-330	330	8.20	2.50	○			
	RRG2 2020/10,0/2,5-330	330	10.00	2.50	●			
21.20	RRG2 2120/7,0/2,3-325	325	7.00	2.30		○		

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Sintered rods

with two straight coolant holes $\varnothing 22.20 - 34.40$ mm

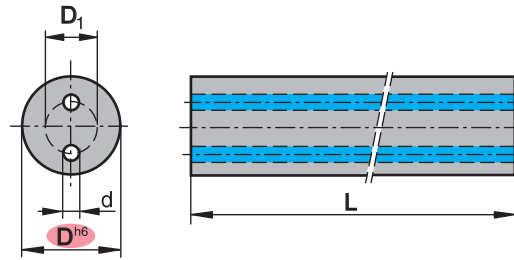


D [mm]	Type, description	L [mm]	D ₁ [mm]	d [mm]	TSM20	MG18		
22.20	RRG2 2220/7,0/2,3-325	325	7.00	2.30		○		
	RRG2 2220/10,5/3,0-325	325	10.50	3.00		○		
25.30	RRG2 2530/6,2/2,0-330	330	6.20	2.00	●			
	RRG2 2530/8,0/2,0-330	330	8.00	2.00	○			
	RRG2 2530/10,0/2,5-330	330	10.00	2.50	●			
	RRG2 2530/12,0/3,0-330	330	12.00	3.00	●			
26.30	RRG2 2630/7,5/2,0-330	330	7.50	2.00		●		
	RRG2 2630/12,0/3,0-330	330	12.00	3.00		○		
28.30	RRG2 2830/13,0/3,0-330	330	13.00	3.00		●		
30.30	RRG2 3030/13,0/3,0-330	330	13.00	3.00		●		
32.30	RRG2 3230/9,0/2,2-330	330	9.00	2.20		●		
	RRG2 3230/13,8/3,0-330	330	13.80	3.00		●		
34.30	RRG2 3430/13,8/3,0-330	330	13.80	3.00		●		

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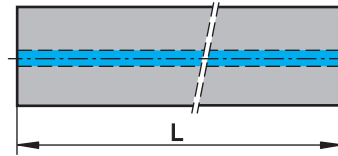
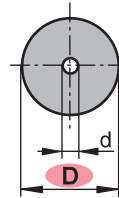
Ground rods with two straight coolant holes



D [mm]	Type, description	D ₁ [mm]	d [mm]	L [mm]	TSM20			
4.00	RG2 0400/1,8/0,8-330	1.80	0.80	330	○			
6.00	RG2 0600/1,5/0,9-330	1.50	0.90	330	●			
	RG2 0600/3,0/1,0-330	3.00	1.00	330	○			
8.00	RG2 0800/2,0/0,8-330	2.00	0.80	330	●			
	RG2 0800/4,0/1,0-330	4.00	1.00	330	○			
10.00	RG2 1000/2,7/1,3-330	2.70	1.30	330	●			
	RG2 1000/5,2/1,4-330	5.20	1.40	330	○			
12.00	RG2 1200/3,5/1,5-330	3.50	1.50	330	●			
	RG2 1200/6,0/1,5-330	6.00	1.50	330	●			
14.00	RG2 1400/5,0/1,7-330	5.00	1.70	330	●			
16.00	RG2 1600/8,0/2,0-330	8.00	2.00	330	○			
18.00	RG2 1800/6,3/2,0-330	6.30	2.00	330	○			
	RG2 1800/9,0/2,0-330	9.00	2.00	330	○			
20.00	RG2 2000/6,2/2,0-330	6.20	2.00	330	●			
	RG2 2000/10,0/2,5-330	10.00	2.50	330	○			
25.00	RG2 2500/8,0/2,0-330	8.00	2.00	330	○			

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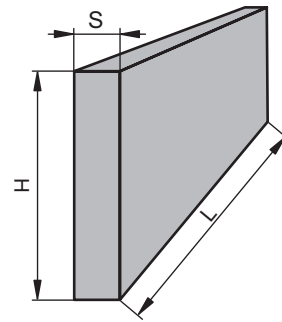
Sintered rods with central coolant hole



D [mm]	Type, description	L [mm]	d [mm]		TSF44	TSM20	TSM33	MG18
4.95	RRG1 0495/0,6-330	330	0.60			○		
6.30	RRG1 0630/1,0-325	325	1.00					●
6.45	RRG1 0645/1,0-330	330	1.00		○	●		
8.30	RRG1 0830/1,3-325	325	1.30					○
8.55	RRG1 0855/1,3-330	330	1.30		○	●		
	RRG1 0855/2,0-330	330	2.00			○		
9.55	RRG1 0955/1,3-330	330	1.30				●	
10.30	RRG1 1030/2,0-325	325	2.00					○
10.55	RRG1 1055/1,3-330	330	1.30		○	○		
	RRG1 1055/2,0-330	330	2.00		○	●		
11.30	RRG1 1130/2,0-325	325	2.00					○
12.30	RRG1 1230/2,0-325	325	2.00					●
12.55	RRG1 1255/2,0-330	330	2.00		○	●		
13.30	RRG1 1330/2,0-325	325	2.00					○
14.30	RRG1 1430/2,0-325	325	2.00					●
14.70	RRG1 1470/2,0-330	330	2.00		○	○		
16.30	RRG1 1630/2,0-325	325	2.00					●
16.70	RRG1 1670/2,0-330	330	2.00		●	●		
18.30	RRG1 1830/3,0-325	325	3.00					○
18.70	RRG1 1870/3,0-330	330	3.00			○		
20.30	RRG1 2030/3,0-325	325	3.00					●
20.70	RRG1 2070/3,0-330	330	3.00		○	●		
25.30	RRG1 2530/3,0-325	325	3.00					●
28.30	RRG1 2830/4,0-325	325	4.00					○
30.30	RRG1 3030/5,0-325	325	5.00					○
32.30	RRG1 3230/5,0-325	325	5.00					●

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Sintered rectangular strips



Type, description	H [mm]	S [mm]	L [mm]	MG18	TSM33		
FR 43-325	4.20	3.20	325	○			
FR 52-325	5.20	2.20	325	○			
FR 53-325	5.20	3.20	325	○			
FR 62-325	6.20	2.20	325	○			
FR 63-325	6.20	3.20	325	○			
FR 64-310	6.30	4.30	310		○		
FR 82-310	8.30	2.30	310		○		
FR 83-310	8.30	3.30	310		○		
FR 83-325	8.20	3.20	325	○			
FR 84-310	8.30	4.30	310		○		
FR 102-310	10.30	2.30	310		○		
FR 103-310	10.30	3.30	310		●		
FR 104-310	10.30	4.30	310		●		
FR 105-310	10.30	5.30	310		○		
FR 106-310	10.30	6.30	310		○		
FR 123-325	12.20	3.20	325	○			
FR 128-310	12.30	8.30	310		○		
FR 134-310	13.30	4.30	310		○		
FR 135-310	13.30	5.30	310		○		
FR 136-310	13.30	6.30	310		○		
FR 1610-310	16.30	10.30	310		○		
FR 162-310	16.30	2.30	310		○		
FR 163-310	16.30	3.30	310		○		
FR 164-310	16.30	4.30	310		○		
FR 168-310	16.30	8.30	310		○		
FR 203-310	20.30	3.30	310		○		
FR 203-325	20.20	3.20	325	○			
FR 204-325	20.20	4.20	325	○			

● = stock item

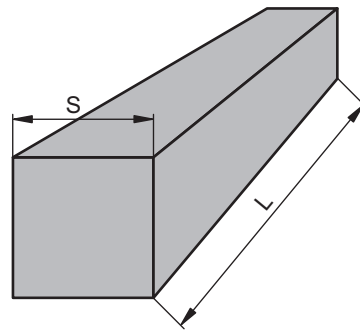
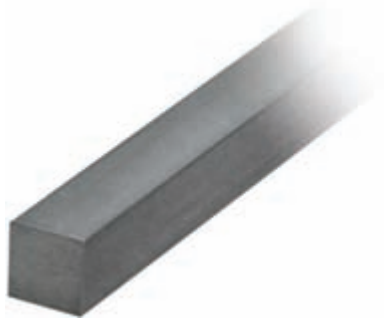
○ = limited stock or upon request

▲ = new products

- = no longer in production, available as long as stocks last

Other grades and dimensions upon request

Sintered square strips



Type, description	H [mm]	L [mm]		TSM33			
SR 3-310	3.30	310		○			
SR 5-310	5.30	310		○			
SR 8-310	8.30	310		○			
SR 10-310	10.30	310		○			

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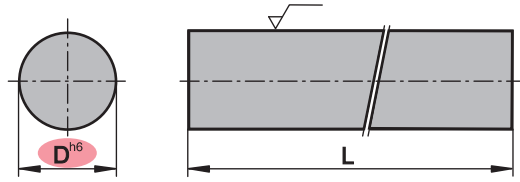
Other grades and dimensions upon request

Ground blanks

Silicon nitride



h6



D mm	Type, description	L mm	SNC1	
5,00	RGDF 0500-077 SNC1	77	□	
8,00	RGDF 0800-091 SNC1	91	□	
10,00	RGDF 1000-103 SNC1	103	○	
12,00	RGDF 1200-118 SNC1	118	□	
14,00	RGDF 1400-124 SNC1	124	□	
16,00	RGDF 1600-133 SNC1	133	□	
18,00	RGDF 1800-143 SNC1	143	□	
20,00	RGDF 2000-153 SNC1	153	□	

Tolerance:

Diameter: h6

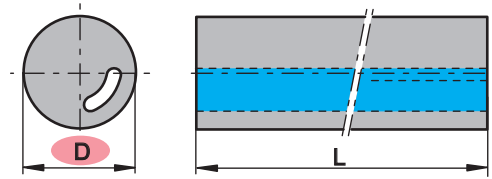
□ = available upon request

○ = limited stock or upon request

Other dimensions upon request

Blanks for deep hole drills

Ø 2.40 – 11.30 mm

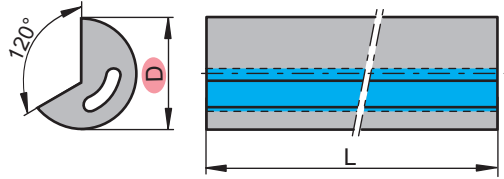


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG18	H20X				
2.40	GDRK 0240-310	310	--	○	○				
2.60	GDRK 0260-310	310	--	○	○				
2.90	GDRK 0290-310	310	--	○	○				
3.15	GDRK 0315-310	310	--	○	○				
3.45	GDRK 0345-310	310	--	○	○				
3.50	GDRK 0350-310	310	--	○	○				
3.90	GDRK 0390-310	310	--	○	○				
4.40	GDRK 0440-310 R 1,15	310	--	○	○				
4.90	GDRK 0490-310	310	--	○	○				
5.50	GDRK 0550-310	310	--	○	○				
6.00	GDRK 0600-310	310	--	○					
6.50	GDRK 0650-310	310	--	○	○				
7.10	GDRK 0710-310	310	--	○	○				
7.60	GDRK 0760-310	310	--	○	○				
8.10	GDRK 0810-310	310	--	○	○				
8.30	GDRK 0830-310	310	--	○	○				
8.70	GDRK 0870-310	310	--	○	○				
9.20	GDRK 0920-310	310	--	○	○				
10.60	GDRK 1060-310	310	--	○	○				
11.30	GDRK 1130-310	310	--	○	○				

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 - = no longer in production, available as long as stocks last
- Other grades and dimensions upon request

Blanks for deep hole drills

Ø 2.40 – 11.80 mm



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	MG18	H20X				
2.40	GDVK 0240-310	310	--	○	○				
2.60	GDVK 0260-310	310	--	○	○				
2.90	GDVK 0290-310	310	--	○	○				
3.15	GDVK 0315-310	310	--	○	○				
3.45	GDVK 0345-310	310	--	○	○				
3.90	GDVK 0390-310	310	--	○	○				
4.40	GDVK 0440-310	310	--	○	○				
4.90	GDVK 0490-310	310	--	○	○				
5.50	GDVK 0550-310	310	--	○	○				
6.00	GDVK 0600-310	310	--	○	○				
6.50	GDVK 0650-310	310	--	○	○				
7.10	GDVK 0710-310	310	--	○	○				
7.60	GDVK 0760-310	310	--	○	○				
8.10	GDVK 0810-310	310	--		○				
8.70	GDVK 0870-310	310	--	○	○				
9.20	GDVK 0920-310	310	--	○	○				
11.80	GDVK 1180-310	310	--	○					

● = stock item

○ = limited stock or upon request

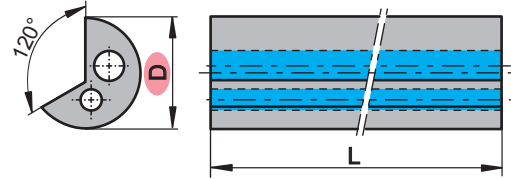
▲ = new products

- = no longer in production, available as long as stocks last

Other grades and dimensions upon request

Blanks for deep hole drills

Ø 5.50 – 16.50 mm

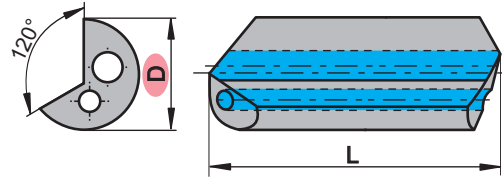


D [mm]	Type, description	L [mm]	Dia. tol. [mm]	H20X					
5.50	GDV2 0550-310	310	--	○					
6.00	GDV2 0600-310	310	--	○					
6.50	GDV2 0650-310	310	--	○					
7.10	GDV2 0710-310	310	--	○					
7.60	GDV2 0760-310	310	--	○					
8.10	GDV2 0810-310	310	--	○					
8.70	GDV2 0870-310	310	--	○					
9.20	GDV2 0920-310	310	--	○					
9.70	GDV2 0970-310	310	--	○					
10.80	GDV2 1080-310	310	--	○					
11.30	GDV2 1130-310	310	--	○					
11.80	GDV2 1180-310	310	--	○					
12.80	GDV2 1280-310	310	--	○					
13.50	GDV2 1350-310	310	--	○					
13.90	GDV2 1390-310	310	--	○					
14.50	GDV2 1450-310	310	--	○					
15.50	GDV2 1550-310	310	--	○					
16.50	GDV2 1650-310	310	--	○					

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 - ▲ = new products
 - = no longer in production, available as long as stocks last
- Other grades and dimensions upon request

Blanks for deep hole drills

Ø 13.50 – 45.00 mm



D [mm]	Type, description	L [mm]	Dia. tol. [mm]	HC20					
13.50	GDV2P 1350-040	40	--	○					
14.50	GDV2P 1450-040	40	--	○					
15.50	GDV2P 1550-040	40	--	○					
16.50	GDV2P 1650-040	40	--	○					
17.50	GDV2P 1750-040	40	--	○					
18.60	GDV2P 1860-040	40	--	○					
19.60	GDV2P 1960-045	45	--	○					
20.60	GDV2P 2060-045	45	--	○					
21.60	GDV2P 2160-045	45	--	○					
22.60	GDV2P 2260-050	50	--	○					
23.60	GDV2P 2360-050	50	--	○					
24.60	GDV2P 2460-055	55	--	○					
25.60	GDV2P 2560-055	55	--	○					
26.60	GDV2P 2660-055	55	--	○					
27.20	GDV2P 2720-055	55	--	○					
28.70	GDV2P 2870-065	65	--	○					
30.80	GDV2P 3080-065	65	--	○					
33.10	GDV2P 3310-065	65	--	○					
36.10	GDV2P 3610-075	75	--	○					
39.10	GDV2P 3910-075	75	--	○					
40.00	GDV2P 4000-080	80	--	○					
42.00	GDV2P 4200-080	80	--	○					
45.00	GDV2P 4500-080	80	--	○					

● = stock item

○ = limited stock or upon request

▲ = new products

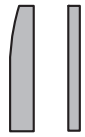
- = no longer in production, available as long as stocks last

Other grades and dimensions upon request

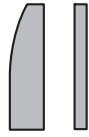
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Tips for reamers, brazing tips

Tips for reamers upon request



R



T



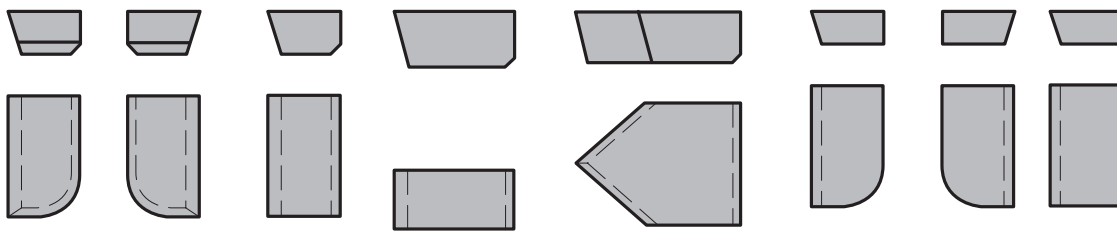
U



R

DIN 8011
special lengths

Brazing tips according to ISO, DIN 4950 ÖNORM M 4370 upon request



A

B

C

D

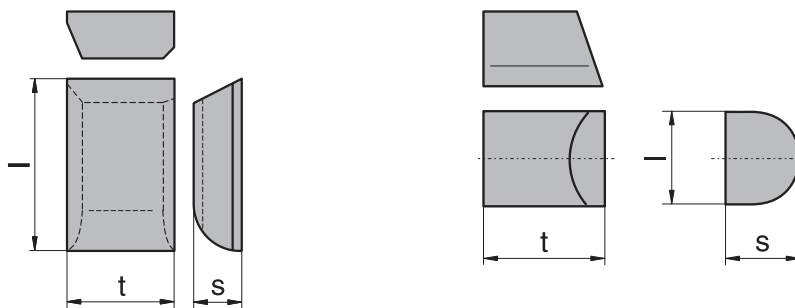
E

G

H

J

Brazing tips for spiral fluted milling cutters and long edge milling cutters upon request



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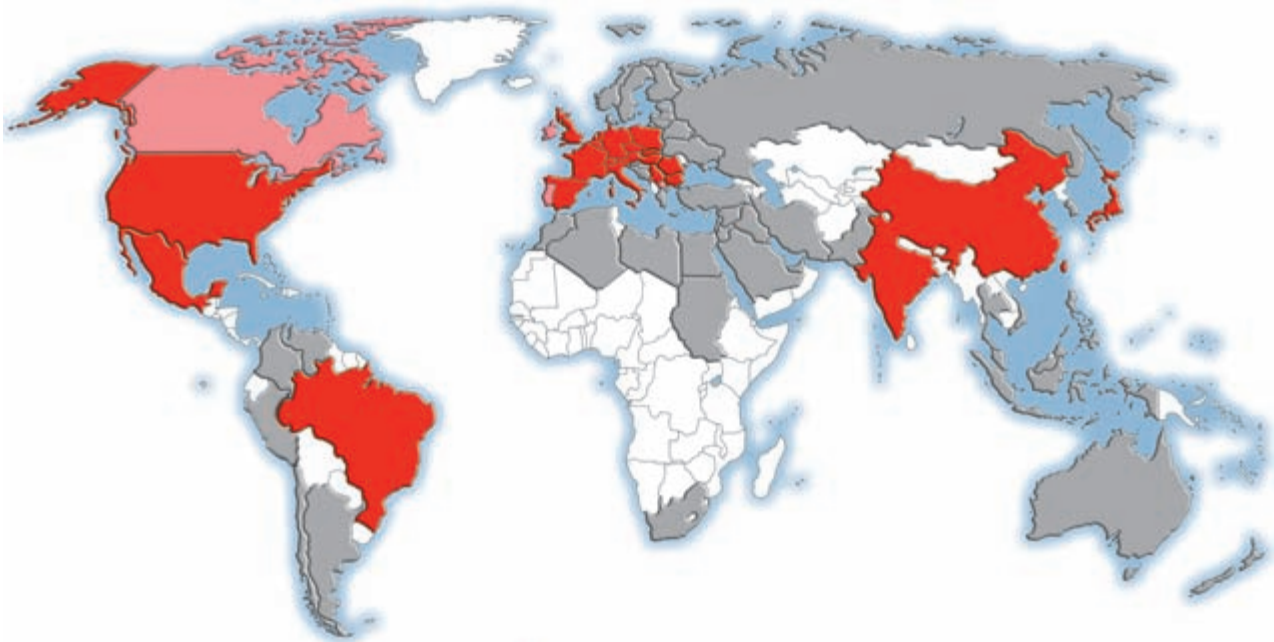
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