QUALITY

SAVINGS

SPEED

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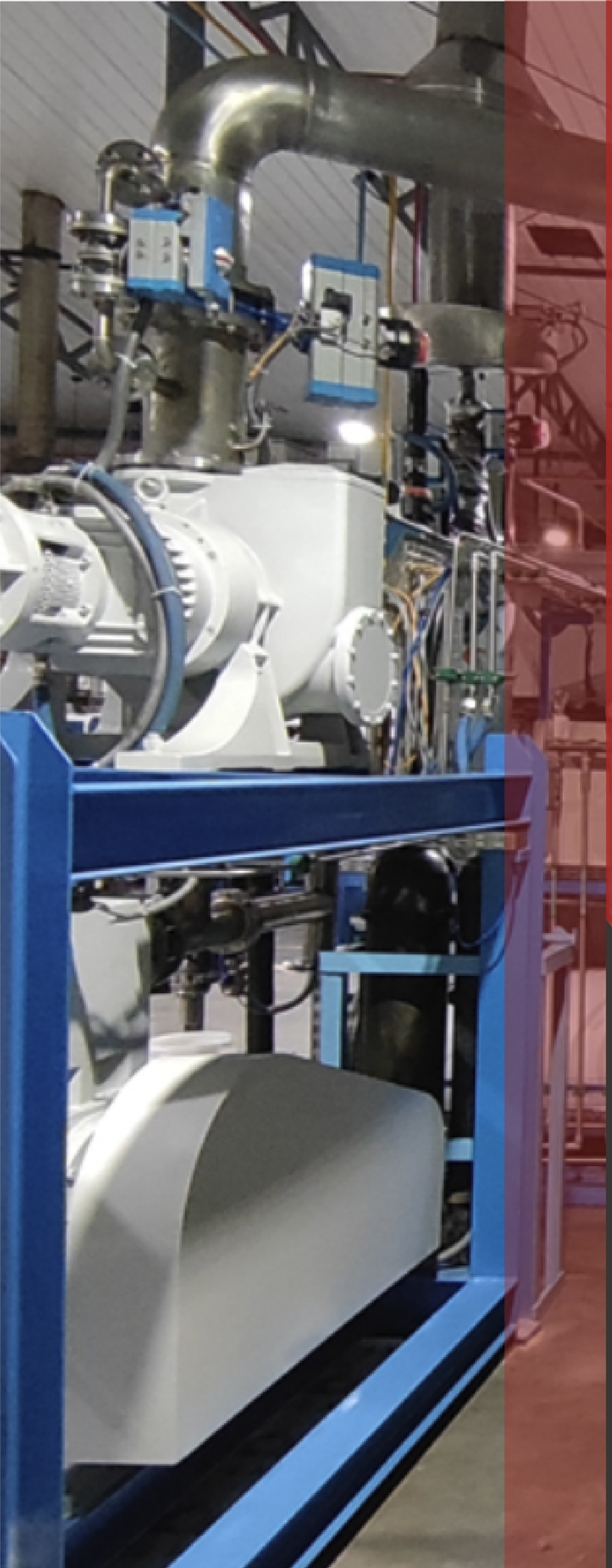
CARBIDE RODS

Sierra Tooltech.



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ABOUT US

Sierra ToolTech, established in 2016, stands proudly as an integral division of the esteemed Sierra Group of Companies. This lineage traces back to the inception of Sierra Manufacturing in San Luis Potosi, Mexico, in 1995. Rooted in a rich legacy of craftsmanship and innovation, Sierra ToolTech has emerged as a leading provider of high-quality cutting tools, carbide blanks, abrasives, toolholders, and an array of cutting tool - related products.

At Sierra ToolTech, our core commitment revolves around delivering excellence at exceptional value. We prioritize the provision of standardized cutting tools and related items without compromising on quality, ensuring that our clientele receives nothing short of excellence. Our dedication to offering these premium products directly to our customers allows us to maintain competitive and unparalleled pricing, making high-caliber tools accessible and affordable for businesses and professionals alike.

Driven by a passion for precision and a relentless pursuit of customer satisfaction, Sierra ToolTech operates with a firm belief in the synergy of quality, affordability, and customer-centric service.

Sierra ToolTech welcomes you to explore our comprehensive range of superior cutting tools and related products. Experience the precision, reliability, and affordability that define our commitment to empowering your success.

GRADES CHART

CHEMICAL COMP			PHYSICAL DATA					
GRADE	WC	CO	GRAIN (μ)	HARDNESS (HV30)	HARDNESS (HRA)	TRS (N/mm^2)	TRS (KPSI)	DENSITY (g/cm^3)
VP06F	94.0%	6.0%	0.5	1860	93.5	3800	551.0	14.90
VP10X	90.0%	10.0%	0.7	1600	92.1	3800	551.0	14.50
VP06G	94.0%	6.0%	1.2	1450	90.5	2400	348.1	14.90

Various sizes and grades available, per customer request

CARBIDE RODS, ROUND: TYPES

Cut-Length Carbide Rods
h6 Ground,Polished,Chamfered

Long-Length Carbide Rods
h6 Ground,Polished,Chamfered

Random Rods, RR Series

2 Coolant holes, 30° Helix

CUT-LENGTH CARBIDE RODS, h6 GROUND, POLISHED, CHAMFERED

Sizes in inches

CUT-LENGTHS, CHAMFERED 1 END				
OD x Length	OD x Length	OD x Length	OD x Length	OD x Length
1/8 x 1-1/2	1/4 x 1-1/2	3/8 x 2-1/2	1/2 x 3-1/2	3/4 x 3
1/8 x 2	1/4 x 2	3/8 x 3	1/2 x 4	3/4 x 4
1/8 x 3	1/4 x 2-1/2	3/8 x 3-1/2	1/2 x 5	3/4 x 5
1/8 x 4	1/4 x 3	3/8 x 4	1/2 x 6	3/4 x 6
1/8 x 4-1/2	1/4 x 3-1/2	3/8 x 5	9/16 x 3	7/8 x 4
5/32 x 2	1/4 x 4	3/8 x 6	9/16 x 3-1/2	7/8 x 5
5/32 x 2 -1/2	9/32 x 1-1/2	7/16 x 2-1/2	9/16 x 6	1 x 4
11/64 x6-1/2	5/16 x 1-1/4	7/16 x 2-3/4	5/8 x 3	1 x 5
3/16 x 1-1/2	5/16 x 2	7/16 x 3	5/8 x 3-1/2	1 x 6
3/16 x 2	5/16 x 2-1/2	7/16 x 4	5/8 x 4	1 x 7
3/16 x 2-1/2	5/16 x 3	7/16 x 6	5/8 x 4-1/2	1 x 8
3/16 x 3	5/16 x 4	1/2 x 2-1/2	5/8 x 5	1-1/4 x 6
3/16 x 4	3/8 x 2	1/2 x 3	5/8 x 6	

Various sizes and grades available, per customer request

CUT-LENGTH CARBIDE RODS, h6 GROUND, POLISHED, CHAMFERED

Sizes in mm.

CHAMFERED 1 END, CUT-LENGTHS				
OD x Length	OD x Length	OD x Length	OD x Length	OD x Length
3 x 38	4 x 80	6 x 66	9.5 x 84	16 x 93
3 x 46	4.5 x 58	6 x 75	10 x 66	18 x 84
3 x 50	4.5 x 62	6 x 80	10 x 70	18 x 93
3 x 52	4.5 x 80	6 x 93	10 x 73	18 x 130
3 x 61	4.5 x 86	6.5 x 70	10 x 75	20 x 93
3 x 65	5 x 50	6.5 x 74	10 x 90	20 x 100
3 x 70	5 x 62	7 x 60	10.5 x 89	20 x 105
3 x 75	5 x 66	7 x 80	10.5 x 95	20 x 130
3 x 100	5 x 75	7.5 x 74	11 x 95	25 x 74
3.5 x 55	5 x 86	8 x 60	12 x 75	25 x 125
3.5 x 70	5 x 93	8 x 64	14 x 75	25 x 150
4 x 40	5.5 x 66	8 x 75	14 x 82	25 x 170
4 x 51	5.5 x 93	8 x 80	14 x 85	
4 x 55	6 x 50	8.5 x 79	15 x 92	
4 x 58	6 x 54	9 x 67	16 x 82	
4 x 75	6 x 60	9 x 84	16 x 89	

Various sizes and grades available, per customer request

LONG-LENGTH CARBIDE RODS, h6 GROUND & POLISHED

Sizes in mm.

LONG-LENGTHS 310 mm, 330 mm									
OD	OD	OD	OD	OD	OD	OD	OD	OD	OD
0.5	3	5.5	8	10.5	13	15.5	18	20.5	23
1	3.5	6	8.5	11	13.5	16	18.5	21	23.5
1.5	4	6.5	9	11.5	14	16.5	19	21.5	24
2	4.5	7	9.5	12	14.5	17	19.5	22	24.5
2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
									26

Various sizes and grades available, per customer request

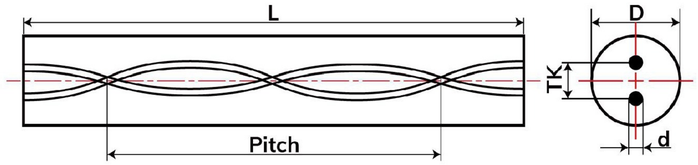
RANDOM RODS, RR SERIES

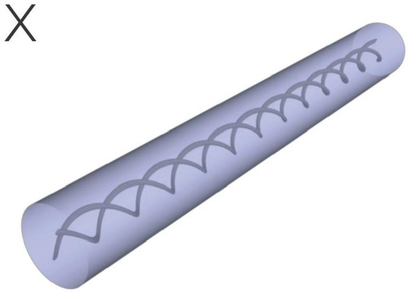
Sizes in inches

Iterm	OD	L	Iterm	O	L
RR-6	3/32	12.5	RR-22	11/32	12.5
RR-7	7/64	12.5	RR-23	23/64	12.5
RR-8	1/8	12.5	RR-24	3/8	12.5
RR-9	9/64	12.5	RR-25	25/64	12.5
RR-10	5/32	12.5	RR-26	13/32	12.5
RR-11	11/64	12.5	RR-27	27/64	12.5
RR-12	3/16	12.5	RR-28	7/16	12.5
RR-13	13/64	12.5	RR-30	15/32	12.5
RR-14	7/32	12.5	RR-32	1/2	12.5
RR-15	15/64	12.5	RR-40	5/8	12.5
RR-16	1/4	12.5	RR-44	11/16	12.5
RR-17	17/64	12.5	RR-48	3/4	12.5
RR-18	9/32	12.5	RR-52	52/64	12.5
RR-19	19/64	12.5	RR-56	56/64	12.5
RR-20	5/16	12.5	RR-60	60/64	12.5
RR-21	21/64	12.5	RR-64	64/64	12.5

Various sizes and grades available, per customer request

2 COOLANT HOLES, 30° HELIX



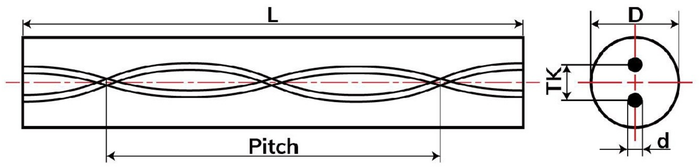


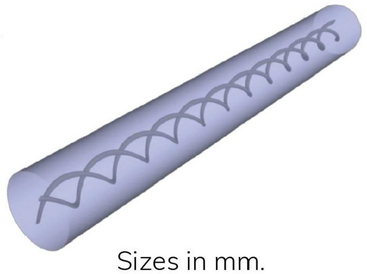
Sizes in mm.

D	D h5/h6	d	TK	Pitch
3.3 +0.3/+0.7	3	0.40 ±0.10	1.60 ±0.10	16.32
4.3 +0.3/+0.7	4	0.60 ±0.10	2.10 ±0.10	21.77
5.3 +0.3/+0.7	5	0.70 ±0.10	2.10 ±0.20	27.21
6.3 +0.3/+0.7	6	0.70 ±0.10	2.40 ±0.20	32.65
7.3 +0.3/+0.7	7	1.00 ±0.15	3.50 ±0.20	38.09
8.3 +0.3/+0.7	8	1.00 ±0.15	3.80 ±0.20	43.53
9.3 +0.3/+0.7	9	1.40 ±0.15	4.50 ±0.30	48.97
10.3 +0.3/+0.7	10	1.40 ±0.15	4.50 ±0.30	54.41
11.3 +0.4/+0.9	11	1.40 ±0.15	4.90 ±0.40	59.86
12.3 +0.4/+0.9	12	1.40 ±0.15	5.85 ±0.40	65.30
13.3 +0.4/+0.9	13	1.75 ±0.20	6.10 ±0.40	70.74
14.3 +0.4/+0.9	14	1.75 ±0.20	6.70 ±0.40	76.18
15.3 +0.4/+0.9	15	1.75 ±0.20	7.30 ±0.40	81.62
16.3 +0.4/+0.9	16	1.75 ±0.20	7.90 ±0.40	87.06
17.3 +0.4/+1.0	17	1.75 ±0.20	8.50 ±0.40	92.50
18.3 +0.4/+1.0	18	2.00 ±0.25	9.15 ±0.40	97.95
19.3 +0.4/+1.0	19	2.00 ±0.25	9.70 ±0.40	103.39
20.3 +0.4/+1.0	20	2.00 ±0.25	9.90 ±0.40	108.83
22.3 +0.4/+1.0	22	2.00 ±0.25	11.10 ±0.40	119.71
25.3 +0.4/+1.0	25	2.00 ±0.25	12.80 ±0.40	136.03

Various sizes and grades available, per customer request

2 COOLANT HOLES, 40° HELIX



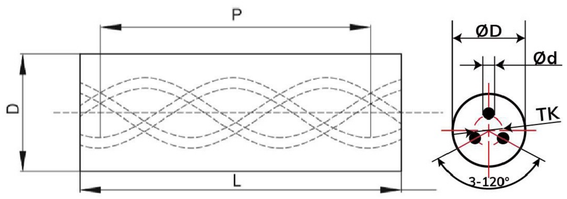


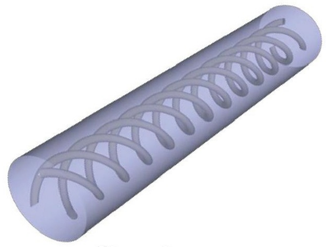
Sizes in mm.

D	D h5/h6	d	TK	Pitch
6.3 +0.3/+0.7	6	0.50 ±0.10	2.00 ±0.15	22.46
8.3 +0.3/+0.7	8	0.65 ±0.15	2.40 ±0.30	29.95
10.3 +0.3/+0.7	10	0.80 ±0.15	3.10 ±0.40	37.44
12.3 +0.4/+0.9	12	0.90 ±0.15	3.80 ±0.40	44.93
14.3 +0.4/+0.9	14	1.00 ±0.20	4.30 ±0.40	52.42
16.3 +0.4/+0.9	16	1.20 ±0.20	5.10 ±0.40	59.90
18.3 +0.4/+1.0	18	1.40 ±0.25	5.90 ±0.40	67.39
20.3 +0.4/+1.0	20	1.50 ±0.25	6.60 ±0.50	74.88
22.3 +0.4/+1.0	22	1.70 ±0.25	7.20 ±0.50	82.35
25.3 +0.4/+1.0	25	1.75 ±0.25	7.60 ±0.50	93.58

Various sizes and grades available, per customer request

3 COOLANT HOLES, 30° HELIX



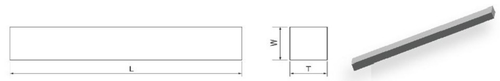


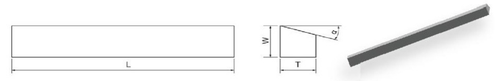
Sizes in mm.

D	D h5/h6	d	TK	Pitch
6.3 +0.3/+0.7	6	0.50 ±0.10	2.75 ±0.20	32.65
8.3 +0.3/+0.7	8	0.70 ±0.15	3.85 ±0.20	43.53
10.3 +0.3/+0.7	10	0.85 ±0.15	4.95 ±0.30	54.41
12.3 +0.4/+0.9	12	1.10 ±0.15	6.05 ±0.40	65.30
14.3 +0.4/+0.9	14	1.40 ±0.20	7.05 ±0.40	76.18
16.3 +0.4/+0.9	16	1.60 ±0.20	8.05 ±0.40	87.06
18.3 +0.4/+1.0	18	1.70 ±0.25	9.25 ±0.50	97.95
20.3 +0.4/+1.0	20	1.90 ±0.25	9.85 ±0.50	108.83

Various sizes and grades available, per customer request

CARBIDE STANDARD UNGROUND BLANKS (STB)





Sizes in inches

Blank Style	Dimensions	Blank Style	Dimensions	Blank Style	Dimensions
STB13	3/64 × 3/32 × 1	STB328	3/32 × 7/8 × 6	STB420	1/8 × 5/8 × 6
STB13A	3/64 × 3/32 × 13/16	STB332	3/32 × 1 × 6	STB424	1/8 × 3/4 × 6
STB14	5/64 × 1/8 × 1-1/8	STB336	3/32 × 1-1/8 × 6	STB428	1/8 × 7/8 × 6
STB206	1/16 × 3/16 × 6	STB34	3/32 × 1/8 × 5	STB432	1/8 × 1 × 6
STB208	1/16 × 1/4 × 6	STB340	3/32 × 1-1/4 × 6	STB436	1/8 × 1-1/8 × 6
STB210	1/16 × 5/16 × 6	STB348	3/32 × 1-1/2 × 6	STB440	1/8 × 1-1/4 × 6
STB212	1/16 × 3/8 × 6	STB34A	3/32 × 1/8 × 1	STB448	1/8 × 1-1/2 × 6
STB216	1/16 × 1/2 × 6	STB36	3/32 × 3/16 × 1-1/8	STB46	1/8 × 3/16 × 6
STB220	1/16 × 5/8 × 6	STB36A	3/32 × 3/16 × 1-1/4	STB48A	1/8 × 1/4 × 1
STB224	1/16 × 3/4 × 6	STB36B	3/32 × 3/16 × 1	STB48B	1/8 × 1/4 × 1-1/4
STB228	1/16 × 7/8 × 6	STB38A	3/32 × 1/4 × 1	STB48C	1/8 × 1/4 × 2-1/4
STB24A	1/16 × 1/8 × 1	STB38B	3/32 × 1/4 × 1-1/2	STB48D	1/8 × 1/4 × 3
STB24B	1/16 × 1/8 × 3	STB38D	3/32 × 1/4 × 5	STB48E	1/8 × 1/4 × 6
STB24C	1/16 × 1/8 × 1-1/4	STB406	1/8 × 3/16 × 6	STB510	5/32 × 5/16 × 6
STB24E	1/16 × 1/8 × 3/4	STB408	1/8 × 1/4 × 6	STB512	5/32 × 3/8 × 6
STB26A	1/16 × 3/16 × 1	STB410	1/8 × 5/16 × 6	STB516	5/32 × 1/2 × 6
STB26C	1/16 × 3/16 × 3	STB410A	1/8 × 5/16 × 1-1/2	STB520	5/32 × 5/8 × 6
STB28A	1/16 × 1/4 × 1	STB410B	1/8 × 5/16 × 3	STB524	5/32 × 3/4 × 6
STB28B	1/16 × 1/4 × 1-1/4	STB410C	1/8 × 5/16 × 2-1/2	STB528	5/32 × 7/8 × 6
STB28D	1/16 × 1/4 × 3	STB412	1/8 × 3/8 × 6	STB532	5/32 × 1 × 6
STB310	3/32 × 5/16 × 3	STB412A	1/8 × 3/8 × 2	STB536	5/32 × 1-1/8 × 6
STB310A	3/32 × 5/16 × 2	STB412B	1/8 × 3/8 × 3	STB540	5/32 × 1-1/4 × 6
STB310B	3/32 × 5/16 × 3	STB412C	1/8 × 3/8 × 6	STB610	3/16 × 5/16 × 6
STB310C	3/32 × 5/16 × 5	STB412D	1/8 × 3/8 × 1	STB610A	3/16 × 5/16 × 3
STB312	3/32 × 3/8 × 5	STB416	1/8 × 1/2 × 6	STB612	3/16 × 3/8 × 6
STB312W	3/32 × 3/8 × 6	STB416A	1/8 × 1/2 × 1	STB612A	3/16 × 3/8 × 3
STB316	3/32 × 1/2 × 6	STB416B	1/8 × 1/2 × 1-1/2	STB616	3/16 × 1/2 × 6
STB320	3/32 × 5/8 × 6	STB416C	1/8 × 1/2 × 3	STB616A	3/16 × 1/2 × 3
STB324	3/32 × 3/4 × 6	STB416D	1/8 × 1/2 × 2-1/2		

Various sizes and grades available, per customer request