



We are a national high-tech enterprise based in Zhuzhou, Hunan Province, known as the "Hard Alloy Capital" of China.

Since 2009, we have been committed to the research and development, design and production of cemented carbide cutting tools and materials. The company has a 3,000-square-meter modern factory and a professional team of over 40 people, constantly providing high-performance products to ensure that our products are meticulously crafted, refined, strictly controlled and managed from the selection of raw materials to every process. The annual production capacity of various types of hard alloys is over 300 tons. The products include :

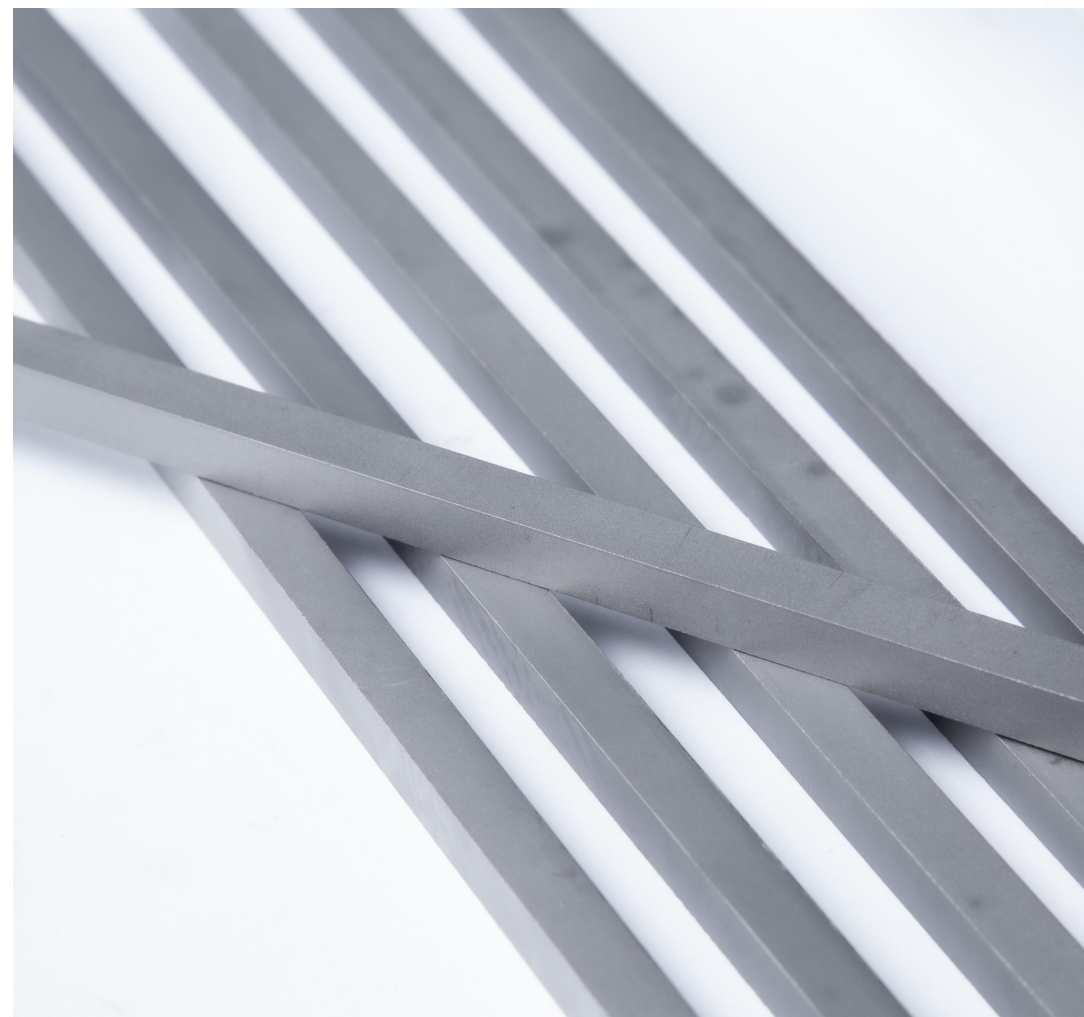
- anti-slip nails for car tires
- welded blades and machine clamping blades for mechanical processing
- rock drilling bits for mining, hard alloys for geological exploration and coal mining tools
- hard alloys for building materials processing
- hard alloys for woodworking tools
- hard alloy round bars, discs and plates
- tungsten carbide powder and mixed materials
- non-standard special-shaped alloys and non-ferrous metals Powder.

Carbide Grade 硬质合金牌号

国际分类号 ISO code	晶粒度 Grain size μm	钴含量 Cobalt content (wt-%)	密度 Density g/cm ³	硬度 Hardness		抗弯强度TRS(SO3327) C试样 Sample C	
				HV30	HRA	N/mm ²	K PSI
K05-K10	0.4	6.0	14.75	2050	94.3	3000	437.3
K30-K40	0.4	12.0	14.05	1700	92.5	4000	583.1
K05-K10	0.5	6.0	14.90	1850	93.5	3800	553.9
K05-K10	0.5	6.0	14.80	1900	93.8	4000	583.1
K20-K30	0.8	10.0	14.42	1600	91.8	4000	583.1
P30-P40	0.8	13.0	13.60	1470	91.0	3500	510.2
P20-P30	1.0	8.5	12.80	1600	91.5	3000	437.3
K30-K40	1.3	15.0	14.00	1110	87.6	4000	583.1

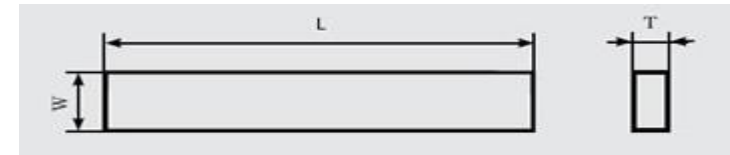
Carbide Strips

硬质合金长条



Carbide Strips

硬质合金长条



型号 Type	尺寸 Dimensions		
	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)
320×6×3.2	320	6	3.2
320×8×3.2	320	8	3.2
320×10×3.2	320	10	3.2
320×12×3.2	320	12	3.2
320×15×3.2	320	15	3.2
320×18×3.2	320	18	3.2
320×20×3.2	320	20	3.2
320×22×3.2	320	22	3.2
320×25×3.2	320	25	3.2
320×28×3.2	320	28	3.2
320×30×3.2	320	30	3.2
320×35×3.2	320	35	3.2

型号 Type	尺寸 Dimensions		
	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)
320×40×3.2	320	40	3.2
310×10×3.2	310	10	3.2
310×12×3.2	310	12	3.2
310×15×3.2	310	15	3.2
310×18×3.2	310	18	3.2
310×20×3.2	310	20	3.2
310×22×3.2	310	22	3.2
310×25×3.2	310	25	3.2
310×30×3.2	310	30	3.2
290×30×4	290	30	4.0
250×12×5	250	12	5.0
250×15×4	250	15	4.0

型号 Type	尺寸 Dimensions		
	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)
250×30×4	250	30	4.0
240×10×4	240	10	4.0
240×15×4	240	15	4.0
240×30×5	240	30	5.0
220×30×5	220	30	5.0
200×6×4	200	6	4.0
199×20×4	199	20	4.0
184×22×4	184	22	4.0
165×21×4	165	21	4.0
160×5×4	160	5	4.0
158×20×4	158	20	4.0
157×10×4	157	10	4.0

型号 Type	尺寸 Dimensions		
	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)
154×40×4	154	40	4.0
152.4×4.8×4	152.4	4.8	4.0
152.4×6.4×4	152.4	6.4	4.0
152.4×7.9×4	152.4	7.9	4.0
152.4×9.5×4	152.4	9.5	4.0
152.4×12.7×4	152.4	12.7	4.0
152.4×15.9×4	152.4	15.9	4.0
152.4×19.1×4	152.4	19.1	4.0
152.4×22.2×4	152.4	22.2	4.0
152.4×28.7×4	152.4	28.7	4.0
150×18×4	150	18	4.0
150×20×4	150	20	4.0

• 其他尺寸可以定制 Other size can be customized

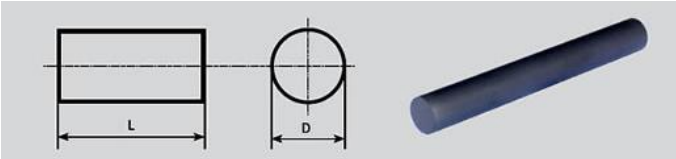
Carbide Rods

硬质合金圆棒



Carbide Rods

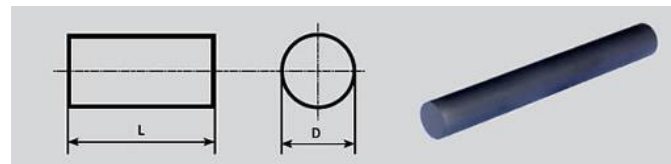
硬质合金圆棒



型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)	型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)	型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)	型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)	型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)
Φ0.5×330	+0.20/+0.45	-0/+5.0	Φ6.0×330	+0.20/+0.45	-0/+5.0	Φ12.5×330	+0.20/+0.60	-0/+5.0	Φ19.0×330	+0.20/+0.60	-0/+5.0	Φ1/8×13	+0.006/+0.018	-0/+0.197
Φ1.0×330	+0.20/+0.45	-0/+5.0	Φ6.5×330	+0.20/+0.45	-0/+5.0	Φ13.0×330	+0.20/+0.60	-0/+5.0	Φ19.5×330	+0.20/+0.60	-0/+5.0	Φ5/32×13	+0.006/+0.018	-0/+0.197
Φ1.2×330	+0.20/+0.45	-0/+5.0	Φ7.0×330	+0.20/+0.45	-0/+5.0	Φ13.5×330	+0.20/+0.60	-0/+5.0	Φ20.0×330	+0.20/+0.60	-0/+5.0	Φ3/16×13	+0.006/+0.018	-0/+0.197
Φ1.6×330	+0.20/+0.45	-0/+5.0	Φ7.5×330	+0.20/+0.45	-0/+5.0	Φ14.0×330	+0.20/+0.60	-0/+5.0	Φ21.0×330	+0.20/+0.80	-0/+5.0	Φ1/4×13	+0.006/+0.018	-0/+0.197
Φ1.8×330	+0.20/+0.45	-0/+5.0	Φ8.0×330	+0.20/+0.45	-0/+5.0	Φ14.5×330	+0.20/+0.60	-0/+5.0	Φ22.0×330	+0.20/+0.80	-0/+5.0	Φ3/8×13	+0.006/+0.018	-0/+0.197
Φ2.3×330	+0.20/+0.45	-0/+5.0	Φ8.5×330	+0.20/+0.45	-0/+5.0	Φ15.0×330	+0.20/+0.60	-0/+5.0	Φ23.0×330	+0.20/+0.80	-0/+5.0	Φ1/2×13	+0.006/+0.018	-0/+0.197
Φ2.5×330	+0.20/+0.45	-0/+5.0	Φ9.0×330	+0.20/+0.45	-0/+5.0	Φ15.5×330	+0.20/+0.60	-0/+5.0	Φ24.0×330	+0.20/+0.80	-0/+5.0	Φ5/16×13	+0.006/+0.018	-0/+0.197
Φ3.0×330	+0.20/+0.45	-0/+5.0	Φ9.5×330	+0.20/+0.45	-0/+5.0	Φ16.0×330	+0.20/+0.60	-0/+5.0	Φ25.0×330	+0.20/+0.80	-0/+5.0	- 其他尺寸可以定制 - Other size can be customized		
Φ3.5×330	+0.20/+0.45	-0/+5.0	Φ10.0×330	+0.20/+0.45	-0/+5.0	Φ16.5×330	+0.20/+0.60	-0/+5.0	Φ26.0×330	+0.20/+0.80	-0/+5.0			
Φ4.0×330	+0.20/+0.45	-0/+5.0	Φ10.5×330	+0.20/+0.45	-0/+5.0	Φ17.0×330	+0.20/+0.60	-0/+5.0	Φ27.0×330	+0.20/+0.80	-0/+5.0			
Φ4.5×330	+0.20/+0.45	-0/+5.0	Φ11.0×330	+0.20/+0.45	-0/+5.0	Φ17.5×330	+0.20/+0.60	-0/+5.0	Φ28.0×330	+0.20/+0.80	-0/+5.0			
Φ5.0×330	+0.20/+0.45	-0/+5.0	Φ11.50×330	+0.20/+0.45	-0/+5.0	Φ18.0×330	+0.20/+0.60	-0/+5.0	Φ29.0×330	+0.20/+0.80	-0/+5.0			
Φ5.5×330	+0.20/+0.45	-0/+5.0	Φ12.0×330	+0.20/+0.45	-0/+5.0	Φ18.5×330	+0.20/+0.60	-0/+5.0	Φ30.0×330	+0.20/+0.80	-0/+5.0			

PCD—Carbide Rods

硬质合金圆棒



型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)
BΦ3.25×38.5	-0/+0.05	-0.20/+0.20
BΦ3.5×38.5	-0/+0.05	-0.20/+0.20
BΦ4.0×38.5	-0/+0.05	-0.20/+0.20
BΦ4.5×38.5	-0/+0.05	-0.20/+0.20
BΦ5.0×38.5	-0/+0.05	-0.20/+0.20
BΦ5.5×38.5	-0/+0.05	-0.20/+0.20
BΦ6.0×38.5	-0/+0.05	-0.20/+0.20
BΦ6.5×38.5	-0/+0.05	-0.20/+0.20

型号 Type	外径公差 Tolerance of diameter(mm)	长度公差 Tolerance of length(mm)
BΦ3.25×38.7	-0/+0.05	-0.20/+0.30
BΦ3.5×12.8	+0.20/+0.50	-0.10/+0.10
BΦ4.0×12.8	+0.20/+0.50	-0.10/+0.10
BΦ4.5×12.8	+0.20/+0.50	-0.10/+0.10
BΦ5.0×12.8	+0.20/+0.40	-0.10/+0.10
BΦ5.5×12.8	+0.20/+0.40	-0.10/+0.10
BΦ6.0×12.8	+0.20/+0.40	-0.10/+0.10
BΦ6.5×12.8	+0.20/+0.40	-0.10/+0.10
BΦ6.85×12.8	+0.20/+0.40	-0.10/+0.10

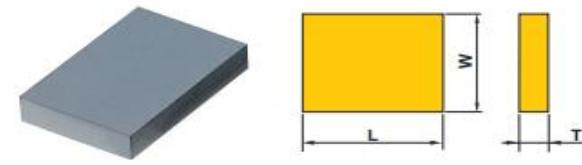
- 其他尺寸可以定制Other size can be customized

Carbide Plate

硬质合金板材



Carbide Plates 硬质合金板材



型号 Type	毛坯公差Unground Tolerance			精磨 Grounds
	长度 Length (L)	宽度Width (W)	厚度Thickness(T)	
1x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
2x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
3x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
4x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
5x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
6x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
8x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
10x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01

型号 Type	毛坯公差Unground Tolerance			精磨 Grounds
	长度 Length (L)	宽度Width (W)	厚度Thickness(T)	
15x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
26x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
30x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
40x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
50x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
60x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
70x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
75x100x100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01

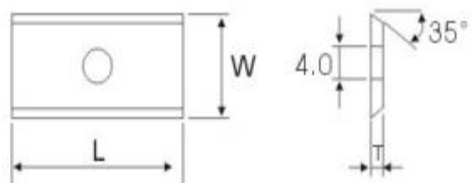
- 其他尺寸可以定制Other size can be customized

Carbide
Woodworking Insert
硬质合金木工刀片

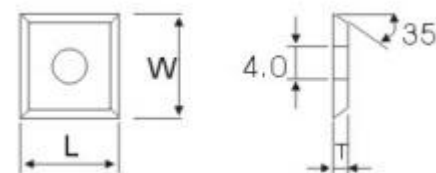


Carbide Indexable Knives

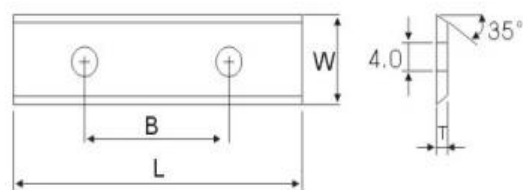
硬质合金可转位刀片



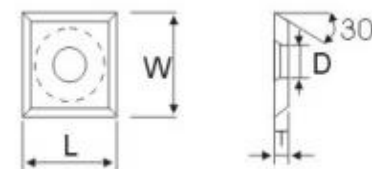
长度 Length (L)	宽度Width (W)	厚度Thickness(T)
9.6mm	12mm	1.5mm
15mm	12mm	1.5mm
20mm	12mm	1.5mm



长度 Length (L)	宽度Width (W)	厚度Thickness(T)
12mm	12mm	1.5mm
17mm	17mm	1.5mm
19mm	19mm	1.5mm



长度 Length (L)	宽度Width (W)	厚度 Thickness(T)	B
30mm	12mm	1.5mm	14mm
40mm	12mm	1.5mm	26mm
50mm	12mm	1.5mm	26mm
60mm	12mm	1.5mm	26mm

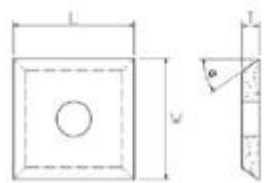


长度 Length (L)	宽度Width (W)	厚度 Thickness(T)	D
14mm	14mm	1.2mm	8.35mm
14mm	14mm	2.0mm	6.35mm

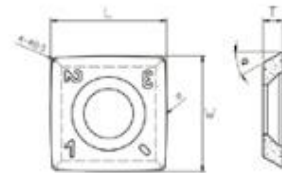
- 其他尺寸可以定制 Other size can be customized

Carbide Indexable Knives

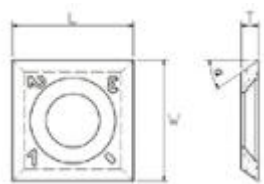
硬质合金可转位刀片



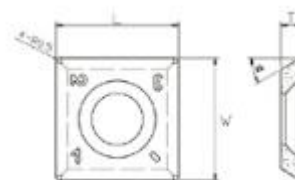
尺寸Size	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)	α
12x12x1.5-φ4	12mm	12mm	1.5mm	30° /35°
14x14x2.0-φ4	14mm	14mm	2mm	30° /35°
17x17x2.0-φ4	17mm	17mm	2mm	30° /35°
19x19x2.0-φ4	19mm	19mm	2mm	30° /35°



尺寸Size	长度 Length (L)	宽度Width (W)	厚度 Thickness (T)	R	α
15x15x2.5	15mm	15mm	2.5mm	50	30° /35°
15x15x2.5	15mm	15mm	2.5mm	100	30° /35°
15x15x2.5	15mm	15mm	2.5mm	150	30° /35°



尺寸Size	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)	α
14x14x2.0	14mm	14mm	2mm	30° /35°
15x15x2.5	15mm	15mm	2.5mm	30° /35°



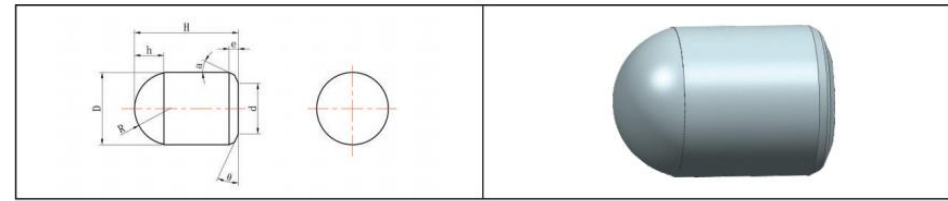
尺寸Size	长度 Length (L)	宽度Width (W)	厚度 Thickness(T)	α
14x14x2.0	14mm	14mm	2mm	30° /35°
15x15x2.5	15mm	15mm	2.5mm	30° /35°

- 其他尺寸可以定制 Other size can be customized

Carbide
Button Insert
硬质合金球齿



Carbide Button Insert— Hemispherical 硬质合金球齿—球形齿



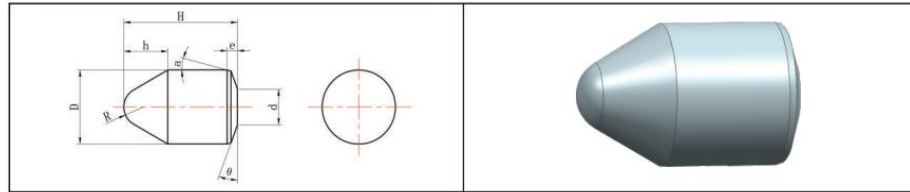
尺寸Size	直径 Diameter (D)	高度 Height (H)	R
RH0810	8.2	10	4.2
RH0811	8.2	11	4.2
RH0812	8.2	12	4.2
RH09135	9.2	13.5	4.7
RH1014	10.2	14	5.2
RH1015	10.2	15	5.2
RH1016	10.2	16	5.2
RH1115	11.2	15	5.7
RH1116	11.2	16	5.7
RH1216	12.2	16	6.2
RH1217	12.2	17	6.2

尺寸Size	直径 Diameter (D)	高度 Height (H)	R
RH1218	12.2	18	6.2
RH1220	12.2	20	6.2
RH13135	13.2	13.5	6.7
RH1318	13.2	18	6.7
RH1319	13.2	19	6.7
RH1320	13.2	20	6.7
RH1416	14.3	16	7.2
RH1418	14.3	18	7.2
RH1419	14.3	19	7.2
RH1420	14.3	20	7.2
RH1422	14.3	22	7.2

尺寸Size	直径 Diameter (D)	高度 Height (H)	R
RH1424	14.3	24	7.2
RH1619	16.3	19	8.2
RH1623	16.3	23	8.2
RH1624	16.3	24	8.2
RH1625	16.3	25	8.2
RH18265	18.3	26.5	9.2
RH1827	18.3	27	9.2
RH1830	18.3	30	9.2
RH2030	20.3	30	10.2
RH2540	25.3	40	12.7

- 直径可磨加到客户要求之尺寸 Diameters can be ground to customer specifications.
- 未列出之规格和材质可按客户需求订制。 Un-shown types and grades can be provided upon request.

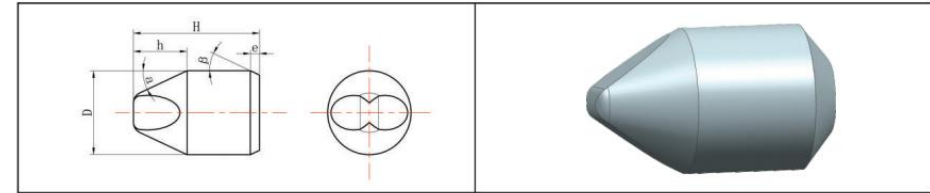
Carbide Button Insert— Conical 硬质合金球齿—锥形齿



尺寸Size	直径 Diameter (D)	高度 Height (H)
RC0711	7.2	11
RC0812	8.2	12
RC09145	9.2	14.5
RC1013	10.2	13
RC1015	10.2	15
RC1016	10.2	16
RC1017	10.2	17
RC1216	12.2	16
RC1218	12.2	18

尺寸Size	直径 Diameter (D)	高度 Height (H)
RC1219	12.2	19
RC1221	12.2	21
RC1319	13.2	19
RC1321	13.2	21
RC1419	14.3	19
RC1421	14.3	21
RC1424	14.3	24
RC1625	16.3	25
RC1628	16.3	28

Carbide Button Insert— Chisel 硬质合金球齿—楔形齿

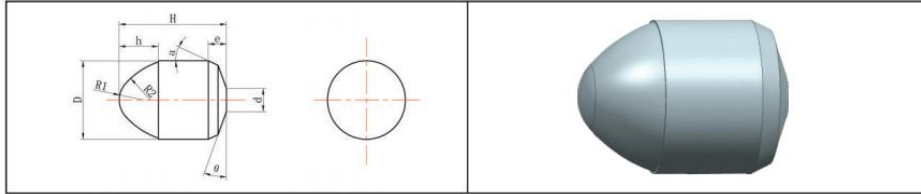


尺寸Size	直径 Diameter (D)	高度 Height (H)
RQ1013	10.2	13
RQ1014	10.2	14
RQ11124	11.2	12.4
RQ1114	11.2	14
RQ1214	12.2	14
RQ1215	12.2	15
RQ1418	14.3	18
RQ1420	14.3	20

尺寸Size	直径 Diameter (D)	高度 Height (H)
RQ1623	16.3	23
RQ1625	16.3	25
RQ1827	18.3	27
RQ2030	20.3	30
RQ2033	20.3	33
RQ2530	25.3	30
RQ2533	25.3	33

- 直径可磨加到客户要求之尺寸 Diameters can be ground to customer specifications.
- 未列出之规格和材质可按客户需求订制。 Un-shown types and grades can be provided upon request.

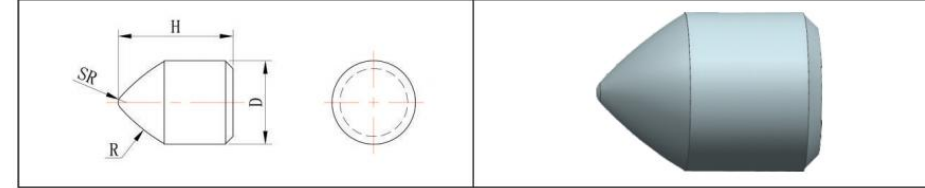
Carbide Button Insert— Parabolic 硬质合金球齿—弹形齿



尺寸Size	直径 Diameter (D)	高度 Height (H)
RP0812	8.2	12
RP0913	9.2	13
RP0914	9.2	14
RP0915	9.2	15
RP0918	9.2	18
RP1016	10.2	16
RP1017	10.2	17
RP10185	10.2	18.5

尺寸Size	直径 Diameter (D)	高度 Height (H)
RP1116	11.2	16
RP1118	11.2	18
RP1121	11.2	21
RP1217	12.2	17
RP1218	12.2	18
RP1220	12.2	20
RP1319	13.2	19

Carbide Inserts For Round Shank Picks 硬质合金截齿



尺寸Size	直径 Diameter (D)	高度 Height (H)
RJ1524	15	24
RJ1722	17.5	22
RJ1724	17.5	24
RJ1729	17.5	29
RJ1926	19	26

尺寸Size	直径 Diameter (D)	高度 Height (H)
RJ1928	19	28
RJ2228	22	28
RJ2230	22	30
RJ2234	22	34
RJ2434	25	34

- 直径可磨加到客户要求之尺寸 Diameters can be ground to customer specifications.
- 未列出之规格和材质可按客户需求订制。 Un-shown types and grades can be provided upon request.