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地矿工程系列
 Mining, Construction, Oil & Gas



ABOUT US

公司介绍



ISO9001:2015

昆山长鹰硬质材料科技股份有限公司创立于2003年，是一家专业的硬质合金、金属陶瓷材料制造商和供应商。我司生产的高性能的标准产品和特殊订制产品，可充分满足全球客户在金属加工、木材加工、采矿、建筑工程、石油和天然气、模具等行业的多种应用需求。

长鹰生产基地位于距上海50公里的昆山市，在江西有粉末原料生产基地。拥有3万平方米的生产车间、先进的实验室和完备的研发设施设备，超过800名熟练的员工，包括优秀的材质、模具和工艺设计工程师团队。

我司为德国莱茵TUV ISO9001:2015质量体系的认证企业，高标准、严要求是我们品质管理工作的核心原则。通过构建全面的品质管理系统，严格控制原材料供应链，保持生产工序的100%可追溯性，确保交付给客户品质如一的高性能产品。

长鹰硬科坚持负责任和可持续的商业行为，包括无冲突的原材料采购，积极的员工健康管理，以及对环境影响的持续关注。开放透明的经营理念让我们的客户、员工和外部供应商对我们的业务和产品充满信心。

CY CARBIDE MFG. CO., LTD. Established in 2003, is a professional manufacturer and exporter of high performance tungsten carbide products, RTP powders and CERMET materials. CYC delivers globally a high performance standard and special products offering, that meet the most challenging demands from industry sectors including...metalworking, mining, construction, oil & gas, die & mold, and woodworking.

CYC has two production sites which located in Kunshan city, 50km away from Shanghai, together with the Jiangxi raw material production and Changshu inserts production, consist of production, laboratories and R&D facilities. 800+ skilled employees, including tooling and material grade design engineering on site.

CYC High performance products are guaranteed by a strong process management system, resulting in consistent quality for every batch and product. Strict control of our raw material supply chains and 100% traceability for every product batch throughout the entire manufacturing process. A philosophy of continuous improvements within every process is a core principle in our ways of working. CYC is an ISO 9001:2015(TUV), ISO 14001:2015, ISO 50001:2018 and ISO 45001:2018 certified business.

CYC Adheres to responsible and sustainable business practices, including conflict free raw material sourcing, proactive health management for our employees, and continuous concern about the environmental impacts of our business. Our open and transparent business philosophy allows our customers, employees, and external suppliers, to have confidence in our business, ways of working, and our products.

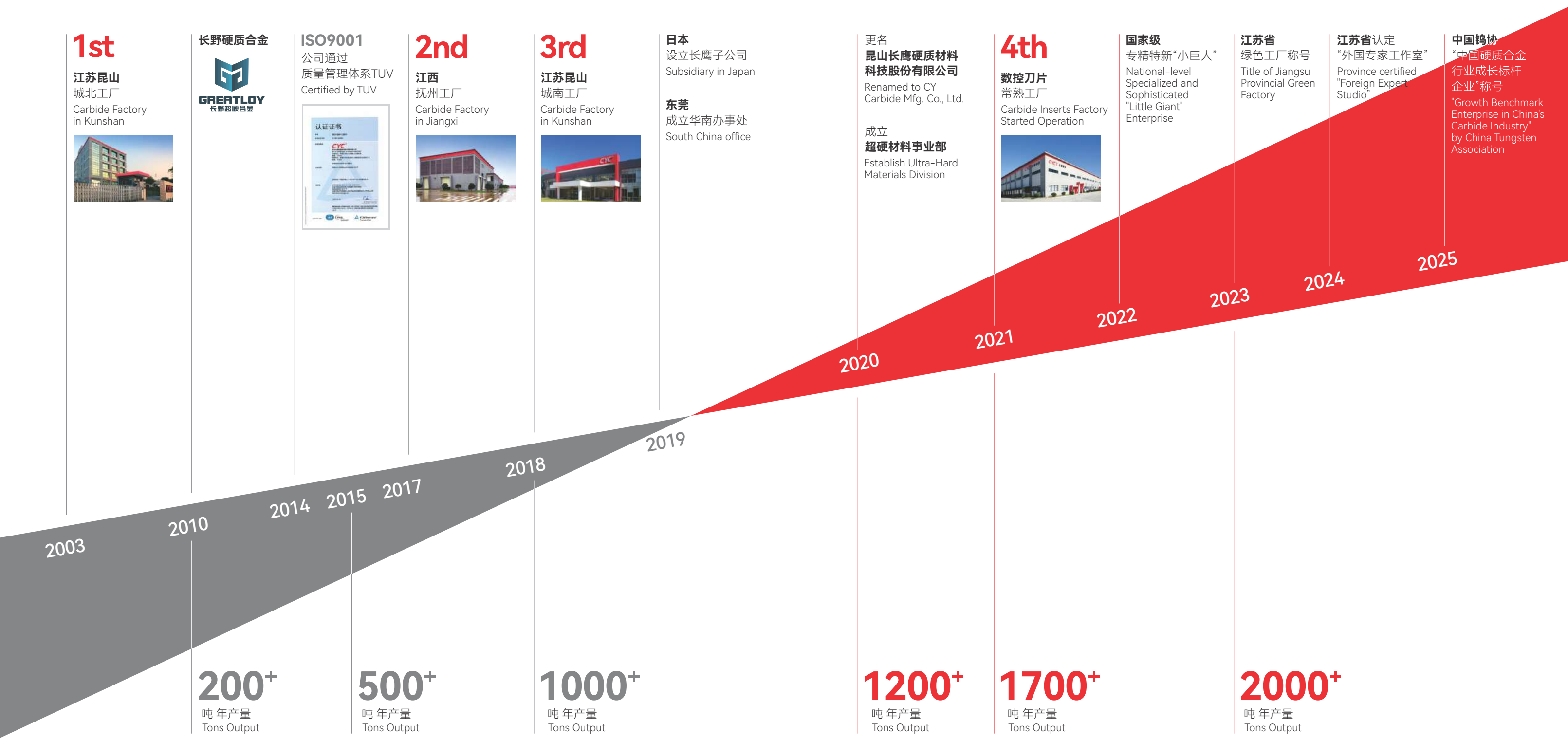
QUALITY
CONSISTENCY
EXPERTISE

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ENTERPRISE HISTORY

发展历程



MANUFACTURING PROCESS

生产工艺流程

1. 材质设计 Grade Design

始终以需求和市场应用为导向进行材质设计。我们的生产制程从粉末混合开始，原材料为碳化钨（Wc），钴（Co）和其他微量元素。

CYC grades are designed upon application. Our process start with powder mixing. Raw materials includes WC, Co and other elements.



2. 混合料球磨 RTP Ball milling

覆盖特细、超微到特粗不同晶粒度，有超过100个材质可供客户选用。不同晶粒度的粉末在彼此隔离的系统中球磨、筛分和制粒，以避免混晶。

Wide variety of CYC designed grades from superfine to coarse grain size are available. Grades with different grain size are ball-milled, sieved, granulated in separated systems to avoid grain contamination.



3. 喷雾制粒 Spray Drying

喷雾制粒工艺使得粉末具备均匀的颗粒度和良好的流动性及松装比，从而减小烧结后合金坯料的尺寸波动。

Spray drying process makes the powder into superior homogeneous particle sizes with good flowability and as a result, the dimension variation on sintered blank is much smaller.



4. 自动压制 Direct Pressing

绝大部分地矿产品均能通过自动压制成型，我们的自动压制系统和独到的技术使得产品尺寸能保持良好的 consistency。

Most of the parts in Mining, Construction, Oil & Gas can be formed by direct pressing. CYC technical control of direct pressing system ensure consistency of dimension.



5. 加压烧结 Sintering

采用HIP热等静压烧结炉，经过1400℃左右的高温加压烧结，使硬质合金具备更高的物理性能来满足各项严苛和复杂的应用需求。

Green blanks are sintered at temperature around 1400 °C (cobalt melting) to become super hard and tough. CYC utilizes HIP (hot isostatic pressure) sintering furnace which gives carbide maximum toughness to meet the most critical working applications.



6. 加工处理 Finishing Process

根据客户的实际应用需求，我们可以提供多种表面处理方案，包括外圆无心磨、表面抛光等，保证产品的优异性能和尺寸精度。

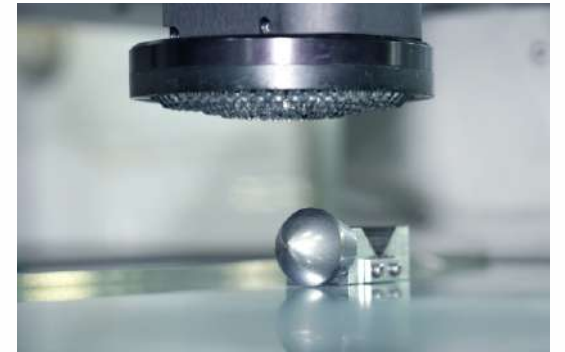
CYC offers multiple surface finishing options, including centerless grinding and surface polishing for high performance and product dimensional accuracy, under the most demanding applications.



7. 检验 Inspection

原料、混合料和烧结毛胚的关键性能指标都在我们自有的实验室得到全面的监控，以确保产品的品质和性能。所有成品都会经过严苛的尺寸检验，更有高效率的自动检验设备，确保产品合格才会发送到客户手上。

The Key properties are monitored from raw material, RTP and raw sintered parts in our laboratory for quality and performance guarantee. Strict dimensional measurements by automatic equipment will be done before the parts are shipped to the customer.



OUR CAPABILITIES

我们的能力

20多年的硬质合金研发和制造经验，
长鹰已建立一个由全球技术和商业领域专家组成的团队，
专注为我们的客户提供优质的产品和服务。

Over 20 years of experience doing R&D and manufacturing carbide,
CYC has built a dedicated team consisting global experts in technical
and commercial areas who always stand behind our customers.



稳定的品质是硬质合金的核心。
Carbide consistent quality has to be the top priority.



CONSISTENCY

我们的流程完全根据ISO9001:2015(TUV)管理体系要求运转。
品质一致性和可追溯性是我们对客户的承诺。

Our manufacturing process is operating fully in compliance with
ISO9001:2015 (TUV).
Consistency and traceability is the promise we keep to our
customers.



EXPERTISE 专业

1. 特定应用的材质设计
2. 特定作业所需产品几何形状设计
3. 任意数量打样服务
4. 2D/3D图纸制作
5. 产品表面钝化
6. 成品磨加工服务, 包括:
 - 无芯磨
 - 外圆磨
 - 平面磨

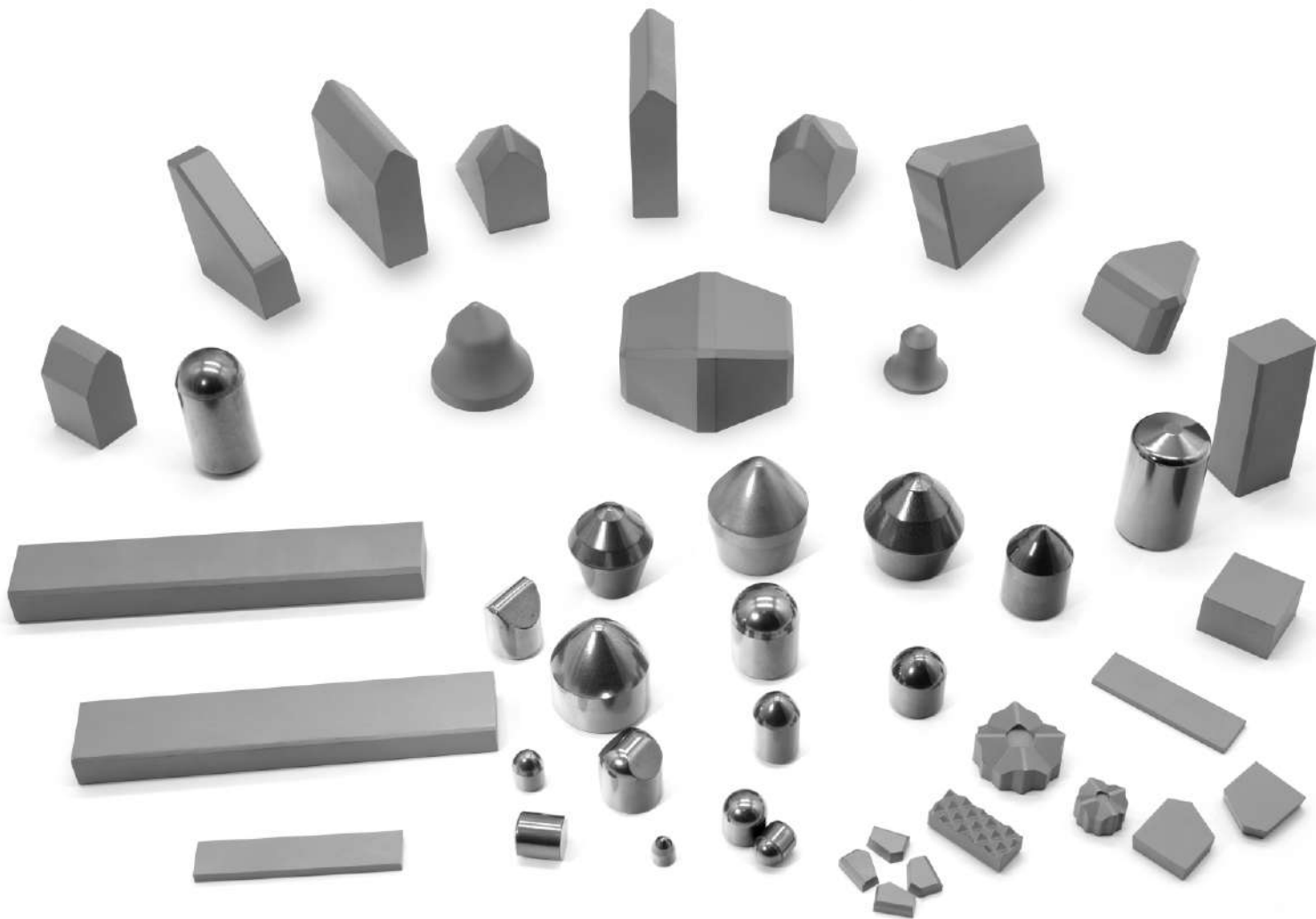
“满足并超越客户期望”是长鹰的一贯使命。
我们专业和多样的生产能力，
能为客户提供更多增值服务。

Meeting and exceeding customer's expectations
is our mission. Our professional and multiple
production capabilities delivers more added value
services to customers.

1. Grade design for specific applications
2. Geometry design for specific jobs
3. Prototypes for any quantity
4. Issuing of 2D/3D drawings
5. Surface Passivation
6. Finish machining service include :
 - Centreless Grinding
 - Cylindrical Grinding
 - Plain Surface Grinding



为严苛的应用需求提供解决方案
Engineered Solutions for Demanding Applications

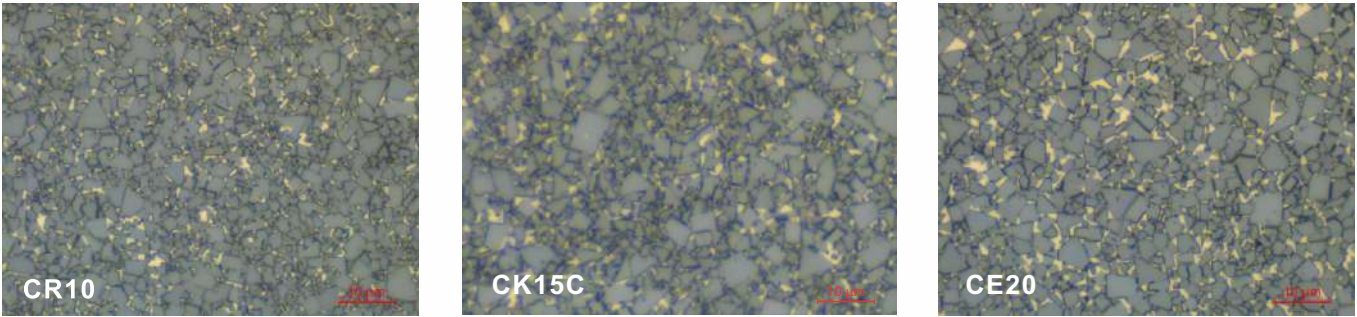


矿山开采用合金齿 Inserts for Rock Drilling

应用范围：高、低风压潜孔钻头、液压螺纹钻头等
Application: High and Low Air Pressure DTH Drill Bits, Top Hammer Bits and others.

牌号标准 Grade Specification						
牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S N/mm ²
			g/cm ³	HRA	HV30	
CL10	6.0	中晶粒 Medium	14.90	90.8	1440	2800
CR10	6.0	中晶粒 Medium	14.85	90.4	1400	2800
CK15C	7.0	中晶粒 Medium	14.80	90.4	1400	2700
CE20	8.0	粗晶粒 Coarse	14.70	89.2	1270	2800

金相图谱范例 Example of Metallography 1500X



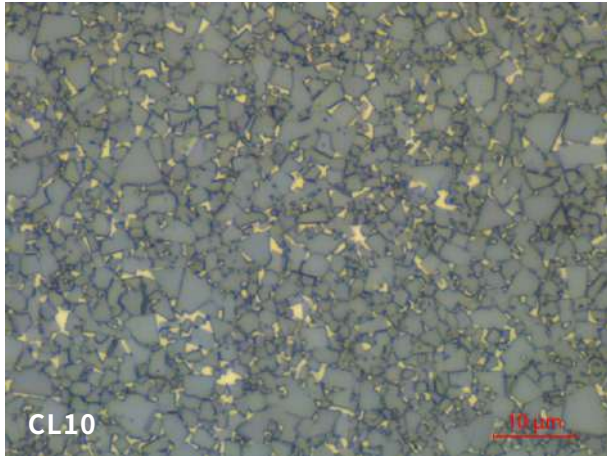
• 所列牌号参数均为典型值，具体请参照我司材质标准技术表。 All the grade parameters are typical value, please refer to our standard grade datasheet for more details.

凿岩工具用高端牌号
 Superior Grade for Rock Drilling Tools

牌号标准 Grade Specification

CL10

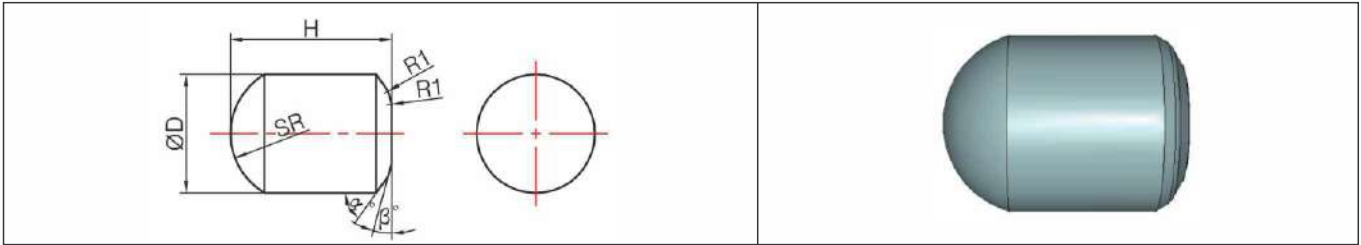
密度 Density	14.90g/cm ³
硬度 Hardness	1440HV30 90.8HRA
抗折力 T.R.S	2800N/mm ²



CL10拥有优良的耐磨性,可用于6%钴牌号的应用领域。适用于锥形钻头和较小尺寸的螺纹钻头球齿。可钻进硬、坚硬岩层。
CL10 works for hard and extra hard rock formation, suitable for small size inserts for tapered drill bits and the smaller threaded bits. Very good wear resistance. Only suitable for applications that use 6% Co grade.



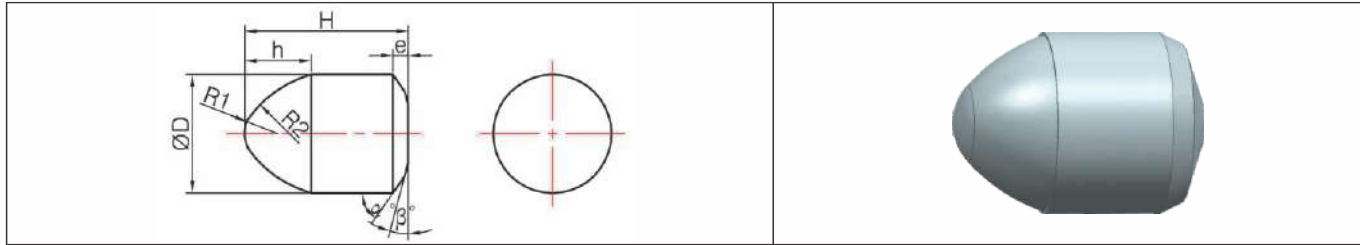
球形齿 Hemispherical Shaped Inserts



TYPE 型号	D	H	SR
BQ0809	8.2	9.0	4.2
BQ0812	8.2	12.0	4.2
BQ0813	8.2	13.3	4.4
BQ0913	9.2	13.5	4.7
BQ0914	9.2	14.0	5.0
BQ0915	9.2	15.0	5.0
BQ1014	10.2	14.0	5.5
BQ1015	10.2	15.0	5.5
BQ1016	10.2	16.3	5.5
BQ1017	10.2	17.3	5.5
BQ1019	10.2	19	5.5
BQ1112	11.3	12.7	5.7
BQ1116	11.3	16.0	6.0
BQ1117	11.3	17.0	6.0
BQ1119	11.3	19.0	6.0
BQ1216	12.3	16.35	6.2
BQ1217	12.3	17.1	6.6
BQ1218	12.3	18.0	6.6

TYPE 型号	D	H	SR
BQ1219	12.3	19.0	6.6
BQ1222	12.3	22.2	6.6
BQ1318	13.3	18.0	6.7
BQ1319	13.3	19.4	6.7
BQ1320	13.3	20.0	7.0
BQ1322	13.3	22.0	7.0
BQ1420	14.3	20.0	7.7
BQ1422	14.3	22.2	7.7
BQ1423	14.3	23.0	7.7
BQ1621	16.3	21.0	8.2
BQ1624	16.3	24.0	8.8
BQ1628	16.3	28.0	8.8
BQ1726	17.3	26.0	8.8
BQ1825	18.3	25.0	9.15
BQ1826	18.3	26.0	9.15
BQ1923	19.4	23.1	10.0
BQ1928	19.4	28.6	10.0
BQ2028	20.4	28.0	10.0

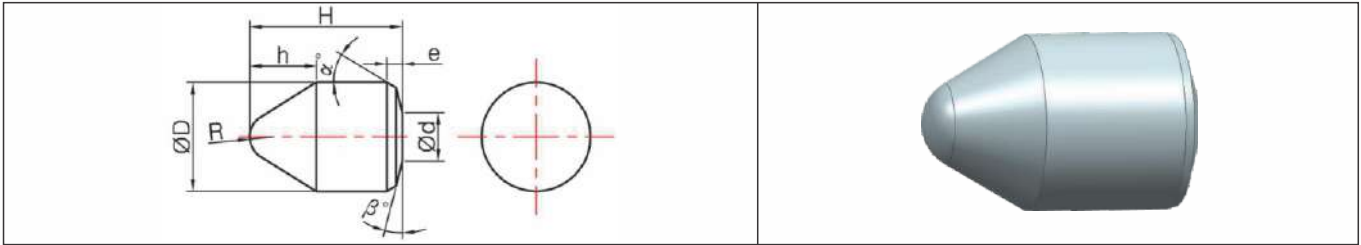
■ 抛物线形齿 Parabolic Shaped Inserts



TYPE 型号	D	H
BP0711	7.2	11.0
BP0812	8.2	12.0
BP0913	9.2	13.5
BP0914	9.2	14.5
BP0915	9.2	15.0
BP1015	10.2	15.0
BP1016	10.2	16.0
BP1017	10.2	17.0
BP1018	10.2	18.0
BP1114	11.3	14.9
BP1117	11.3	17.5
BP1120	11.3	20.0
BP1221	12.3	21.7

TYPE 型号	D	H
BP1218	12.3	18.0
BP1219	12.3	19.0
BP1221	12.3	21.0
BP1321	13.3	21.0
BP1323	13.3	23.5
BP1420	14.3	20.0
BP1422	14.3	22.0
BP1423	14.3	23.0
BP1425	14.3	25.0
BP1426	14.3	26.0
BP1625	16.3	25.8
BP1628	16.3	28.0
BP1632	16.3	32.0

■ 锥形齿 Conical Shaped Inserts



TYPE 型号	D	H
BC0709	7.2	9.7
BC0711	7.2	11.0
BC0712	7.2	12.7
BC0811	8.2	11.4
BC0813	8.2	13.0
BC0913	9.2	13.0
BC0914	9.2	14.0
BC0915	9.2	15.5
BC1015	10.2	15.5
BC1016	10.2	16.5
BC1017	10.2	17.0
BC1116	11.3	16.0
BC1118	11.3	18.5

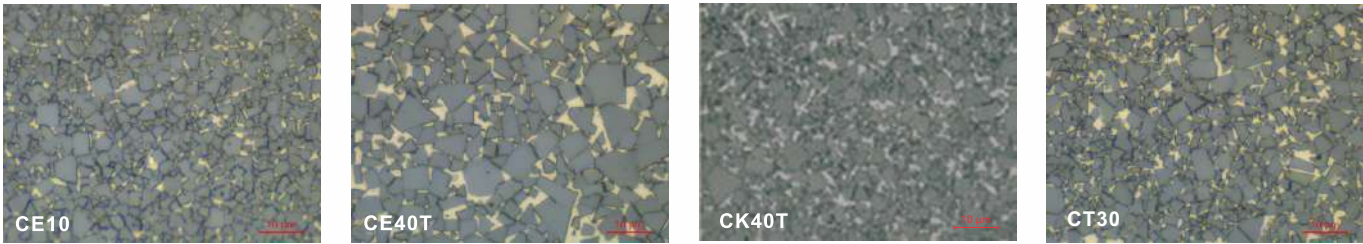
TYPE 型号	D	H
BC1119	11.3	19.3
BC1120	11.3	20.6
BC1219	12.3	19.5
BC1220	12.3	20.0
BC1223	12.3	23.0
BC1317	13.3	17.4
BC1318	13.3	18.51
BC1417	14.3	17.5
BC1420	14.3	20.0
BC1424	14.3	24.0
BC1521	15.3	21.0
BC1625	16.3	25.0
BC1628	16.3	28.0

煤田采掘用合金齿 Inserts for Coal Mining

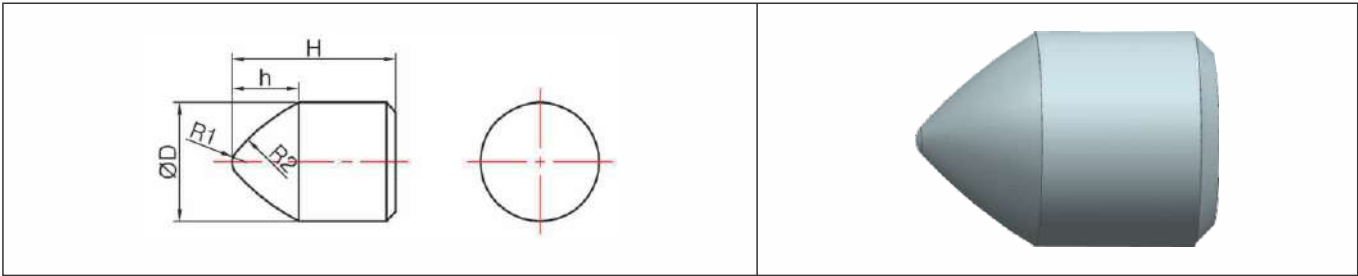
应用范围：煤田采掘用截煤齿等
Application: Round Shank Picks for Coal Mining and others.

牌号标准 Grade Specification						
牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S N/mm ²
			g/cm ³	HRA	HV30	
CE10	6.0	中晶粒 Medium	14.95	89.7	1320	2700
	主要用于软岩层的煤矿及隧道掘进。 Suitable for coal mining on soft rock formations.					
CE40T	10.0	超粗晶粒 Extra Coarse	14.5	85.7	965	2500
	高抗冲击性能, 主要用于较硬岩层的巷道掘进。 Suitable for coal mining on hard rock formations with high impact resistance.					
CK40T	12.0	粗晶粒 Coarse	14.3	86.7	1050	2600
	主要用于软岩层的煤矿及隧道掘进。 Suitable for coal mining on soft rock formations.					
CT30	10.0	粗晶粒 Coarse	14.45	87.8	1140	2800
	适用于矿用一字型钎片。 Suitable for flat mining inserts.					

金相图谱范例 Example of Metallography 1500X

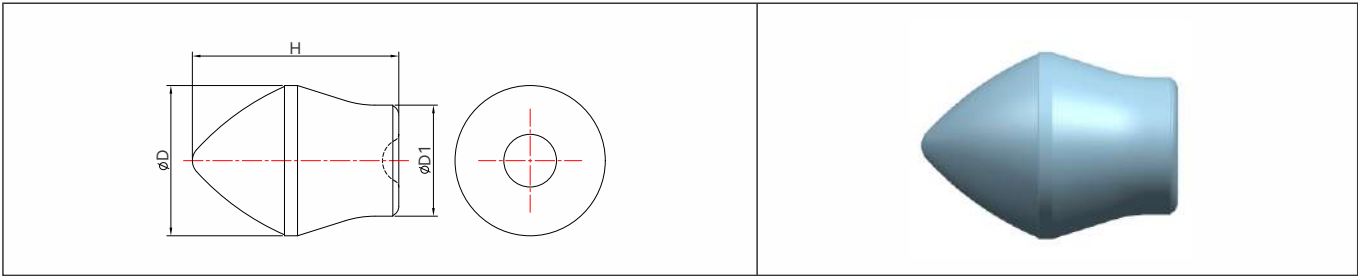


■ 截齿 Round Shank Picks



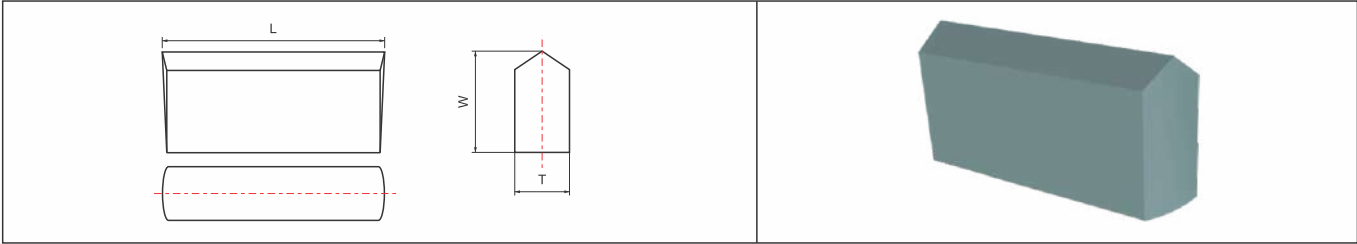
TYPE 型号	D	H
BM1524	15.0	24.0
BM1722	17.5	22.0
BM1724	17.5	24.0
BM1729	17.5	29.0
BM1926	19.0	26.0
BM1928	19.0	28.0
BM2228	22.0	28.0
BM2230	22.0	30.0
BM2234	22.0	34.0
BM2534	25.0	34.0
BM2536	25.0	36.0

■ 蘑菇形截齿 Mushroom Shaped Inserts



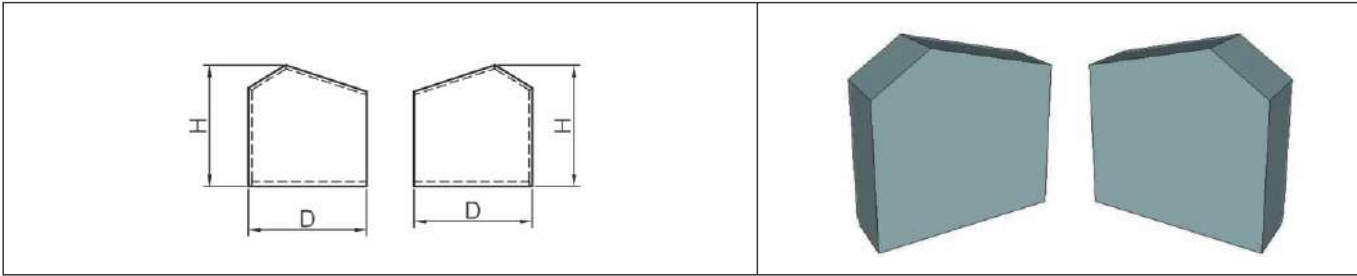
TYPE 型号	D	H
MJ1728	17.0	28.0
MJ1931	19.0	31.0
MJ2032	20.0	32.0
MJ2236	22.0	36.0
MJ2538	25.0	38.0

矿用一字型钎片 Flat Mining Inserts



TYPE 型号	L	W	T
K030	30	18	8
K034	34	18	8
K036	36	18	10
K038	38	18	10
K040	40	18	10

锚杆钻头钻片 Plates for Anchor Drill Bits



TYPE 型号	L	H1	H2	B
MD143.6-L	14.05	2.1	10.6	3.6
MD143.6-R	14.05	3.5	7.6	3.6
MD1003-L	10.45	13.0	4.0	3.0
MD1003-R	10.45	13.0	6.0	3.0
MD1504-L	15.0	2.7	4.67	4.0
MD1504-R	15.0	5.49	4.67	4.0

工程用合金齿、刀片 Inserts and Blades for Construction

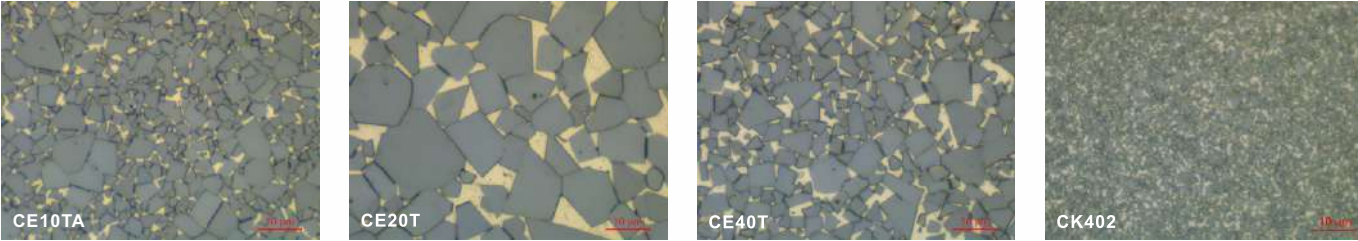
应用范围：隧道掘进，工程铣挖，路面铣刨，辊压机用合金柱等

Application: Tunnel Boring,Excavation,Road Milling,HPGR and others.

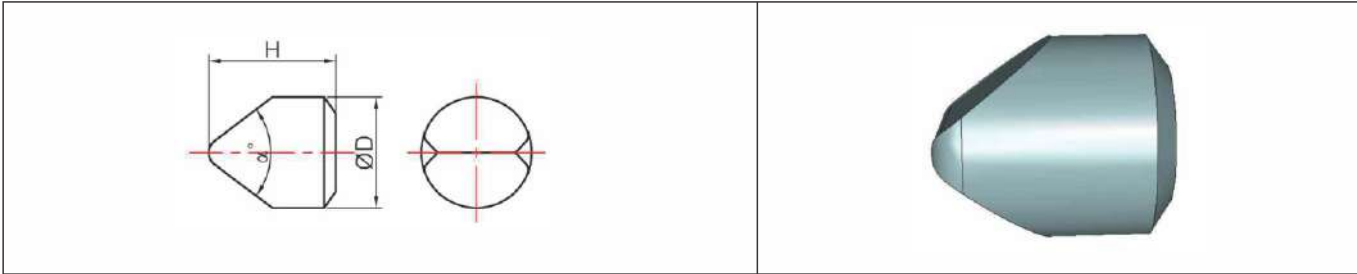
牌号标准 Grade Specification

牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CE10TA	6.0	超粗晶粒 Extra Coarse	14.95	88.5	1210	2200
	适用于水泥路面的创铣齿。 Suitable for concrete road milling.					
CE10TB	6.0	超粗晶粒 Extra Coarse	14.95	87.8	1140	2200
	适用于沥青和混合路面的马路铣刨。 Suitable for asphalt and mixed road milling.					
CE20T	8.0	超粗晶粒 Extra Coarse	14.70	85.0	910	1800
	适用于较硬岩层的桩基开挖旋挖齿。 Suitable for foundation excavation on hard rock formations.					
CE20TB	8.5	超粗晶粒 Extra Coarse	14.65	86.5	1030	2300
	适用于F8及以上极硬岩层旋挖及掘进 Suitable for rotary drilling and excavation in extremely hard rock (F8+).					

金相图谱范例 Example of Metallography 1500X

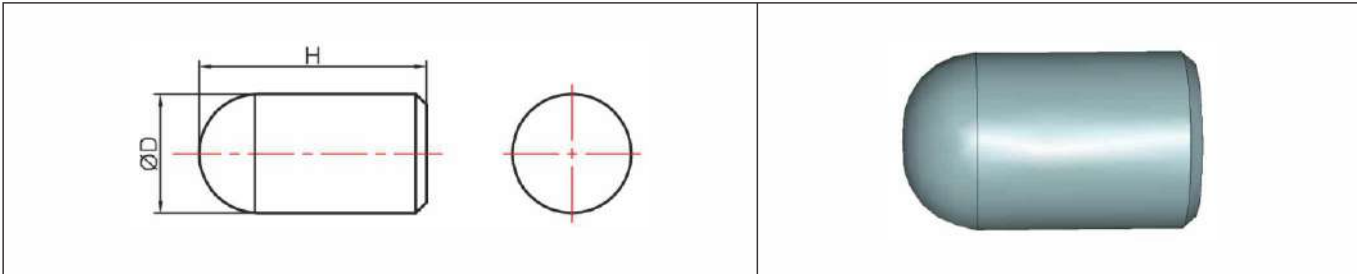


翼形齿 Rooftop shaped Inserts



TYPE 型号	D	H
BR1222	12.0	22.0
BR1422	14.6	22.0
BR2236	22.0	36.0
BR2538	25.5	38.0

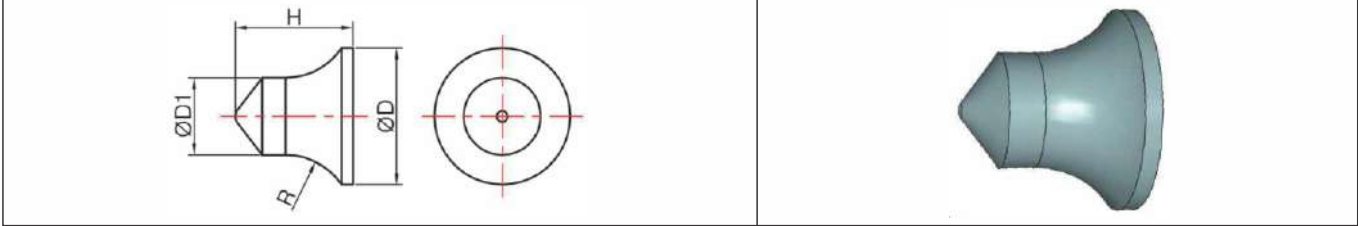
辊压机用合金柱 Buttons for HPGR



牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S N/mm ²
			g/cm ³	HRA	HV30	
CZ11C	11.2	中晶粒Medium	14.30	88.1	1170	2600
MH12	12.0	超细晶粒Submicron	14.22	91.1	1480	3800
CG50	12.0	中晶粒Medium	14.20	88.2	1190	3500
CK402	15.0	中晶粒Medium	14.00	87.5	1110	3000
CZ18M	18.0	中晶粒Medium	13.60	86.9	1065	3000
CZ20M	20.0	中晶粒Medium	13.40	86.5	1030	3000

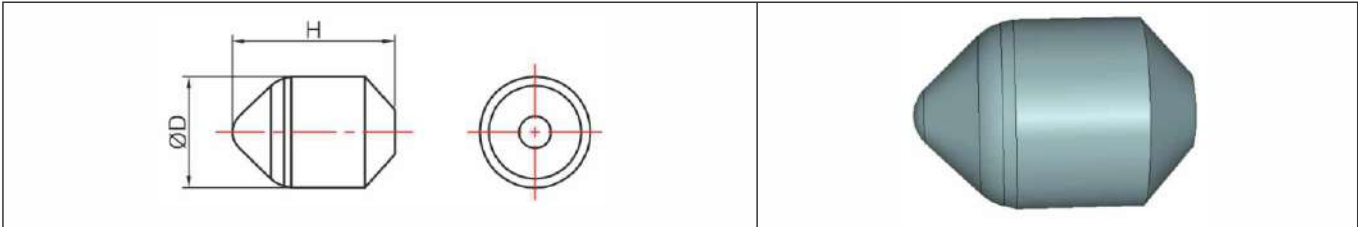
TYPE 型号	D	H
BH1040	10	40
BH1640	16	40
BH1645	16	45
BH1850	18	50
BH1855	18	55
BH2040	20	40

帽状路面铣刨齿 Cap-Shaped Inserts



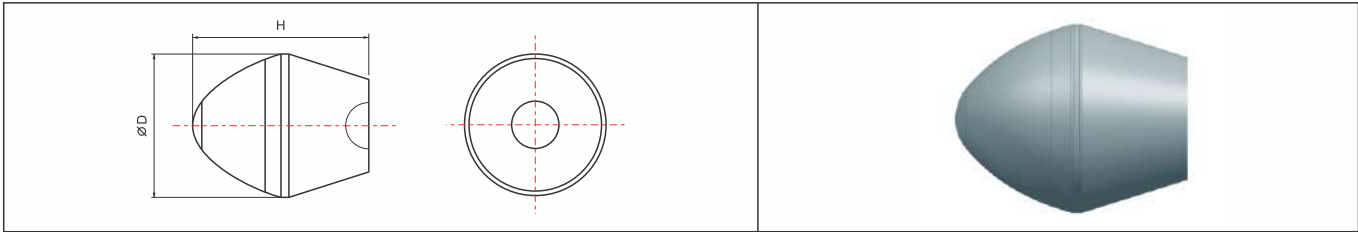
TYPE 型号	D	H
XP0914	9.30	14.5
XP1615	16.2	15.1
XP1717	17.8	17.1
XP1919	19.0	19.9
XP2119	21.0	19.7
XP2223	22.0	23.0
XP2728	27.0	28.2
XP2926	29.0	26.0

工程铣挖齿 Rotary Inserts



TYPE 型号	D	H
XW0812	8.0	12.0
XW1219	12.0	19.0
XW1322	13.0	22.0
XW1624	16.0	24.0

桩基开挖旋挖齿 Inserts for Foundation Excavation



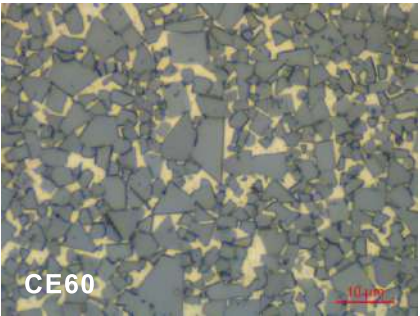
TYPE 型号	D	H
BM2329	23.5	29.0
BM2531	23.5	29.0
BM2831	28.0	31.0

盾构刀片 Inserts for Tunnel Boring(TBM)

牌号标准 Grade Specification

牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CE30	9.0	粗晶粒 Coarse	14.60	89.0	1255	2800
	耐磨性高，适用于超硬质岩层。 Suitable for super hard rock formation with excellent wear resistance.					
CE60	12.5	粗晶粒 Coarse	14.20	87.0	1070	2850
	韧性好，适用于软质、中硬质和硬质岩层。 Suitable for soft, medium and hard rock formations, with high toughness.					

金相图谱范例 Example of Metallography 1500X

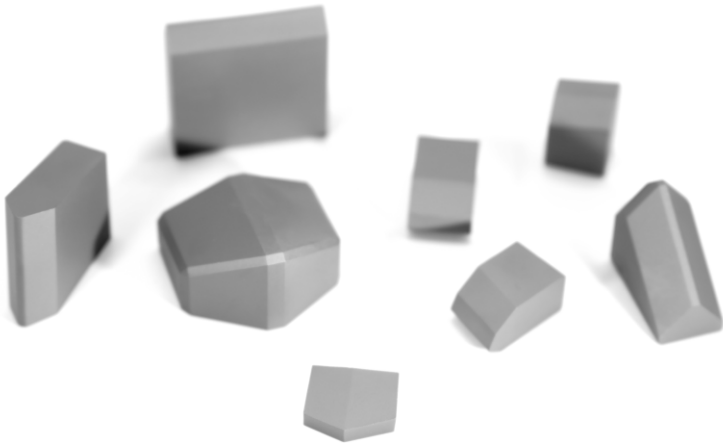


我司的盾构合金材质兼具优良的抗腐蚀性、冲击韧性及耐磨性，在不同的地质环境中都能有出色的表现。

除了传统的模具直压成型，我司独特的CIP成型后再修型的制造工艺，确保复杂形状产品的物理密度和品质，并充分满足盾构刀片形状复杂、多样、多变、少量的订单特性。

CYC grade of TBM inserts achieved ideal balance between wear and impact resistance, with excellent corrosion resistance.

CYC unique preforming process (CIP) allows supplying TBM inserts in small batch with complicated shapes and geometry.



砂石破碎用刀片 Carbide Crushing Blades

牌号标准 Grade Specification

牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CR10	6.0	中晶粒 Medium	14.85	90.4	1400	2800
	适用于ZS、VSI等系列工程破碎机，用于破碎中硬度、高硬度岩石和矿石。 Suitable for construction, rotor tips, ZS&VSI crushers on medium hard, hard rock& stone.					
CK10H	6.0	中细晶粒 Medium Fine	14.90	91.3	1510	2500
	适用于ZS、VSI等系列工程破碎机，用于破碎中硬度、高硬度岩石和矿石。 Suitable for construction, rotor tips, ZS&VSI crushers on medium hard, hard rock& stone.					

方形 Rectangle

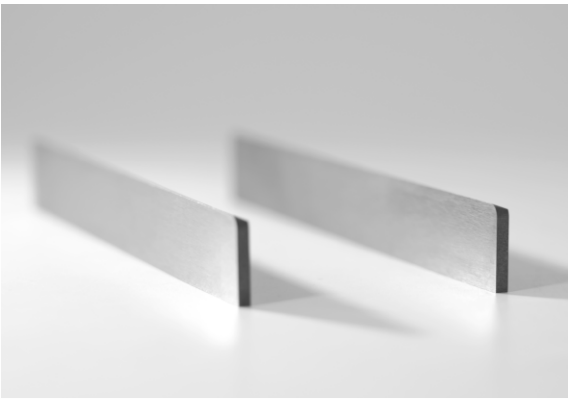
L	W	T
80.0	33.0	10.0/12.0
105.0	20.0	
110.0	20.0	
165.0	20.0	
180.0	20.0	
220.0	20.0	
250.0	22.0	
260.0	25.0	
280.0	22.0	
227.0	30.0	
210.0	40.0	



■ 传送带刮刀 Conveyor System Scraper

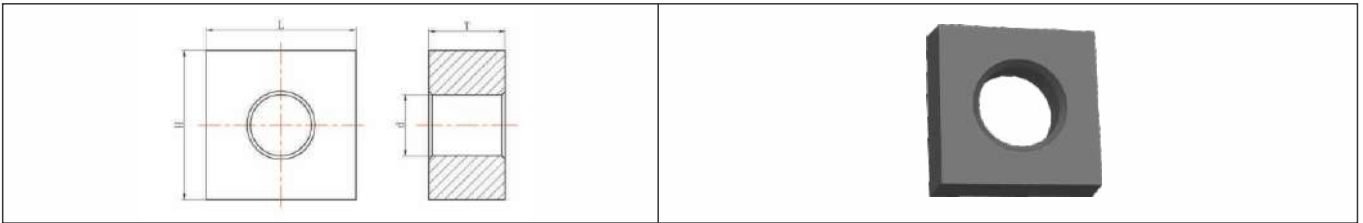
牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
SK10	9.5(Co+Ni)	超细晶粒 Submicron	14.45	91.5	1530	3000
	适用于传送带刮刀，超强耐腐蚀性，高耐磨性。 Suitable for conveyor system scrapers, with high wear resistance and anti-corrosion properties.					
SK08	10 (Co+Ni)	超细晶粒 Submicron	14.10	93.2	1830	2000
	新牌号具有优秀的耐磨性，更高的硬度，使其更适合在高速，细粒矿，低水分条件下工作。 New grade which has the excellent wear resistance, higher hardness make it more suitable for working under the condition of high speed, fine granulate mine, low moisture.					
SK20N	7.5(Ni)	超细晶粒 Submicron	14.55	92.5	1690	2500
	纯镍粘结剂在高腐蚀工作环境下，尤其在港口的清洁中，具有优异的性能。 Purely Ni binder offer the excellent performance under the top corrosion working environment, especially the cleaning at seaport.					

L	W	T
50.0	8.0	2.0
50.0	10.0	2.0
50.0	10.0	3.0
100.0	8.0	2.0
100.0	10.0	2.0
100.0	10.0	3.0
150.0	8.0	2.0
150.0	10.0	2.0
150.0	10.0	3.0
120.0	12.0	2.0
120.0	20.0	2.0
120.0	20.0	4.0



■ 链锯刀片 Carbide Chain Saw Inserts for Stone Cutting

牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CR10	6.0	中晶粒 Medium	14.85	90.4	1400	2800
	适用于各种石材的切割、塑形。 Suitable for various types of stone cutting and shaping applications.					

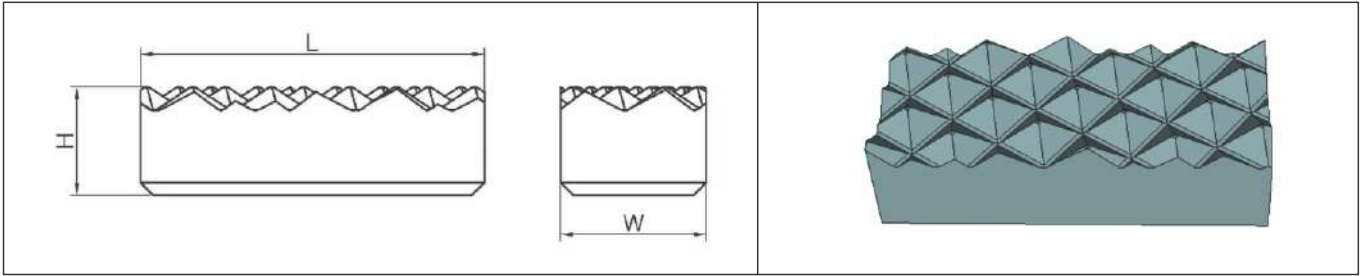


L	H	T	d
12.7	12.7	5.6	5.0
12.7	12.7	6.6	5.0
12.7	12.7	6.5	5.2

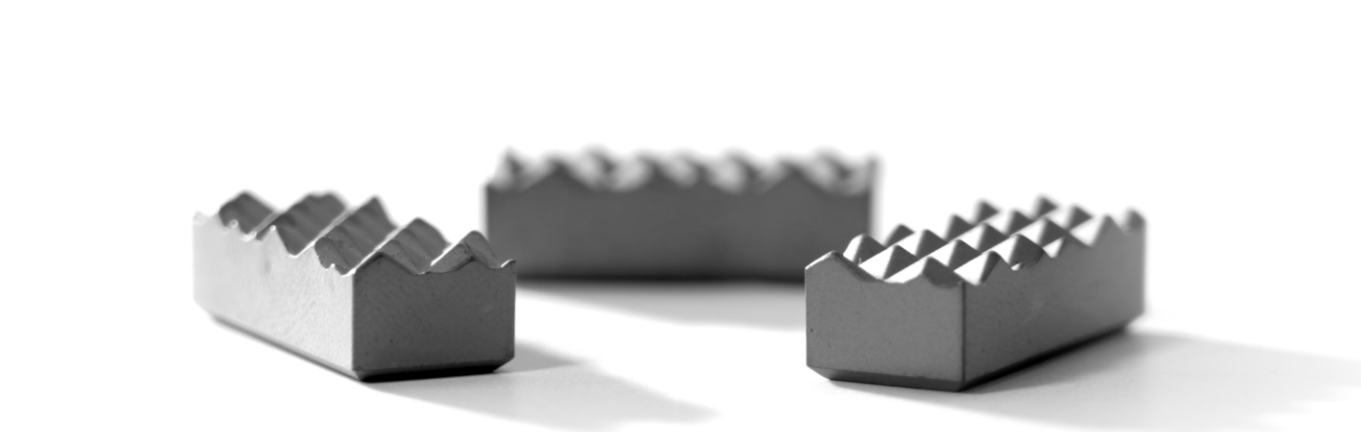
■ 爪式卡盘用合金齿 Gripper Inserts for Chuck Jaws

牌号标准 Grade Specification

牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CE30	9.0	粗晶粒 Coarse	14.60	89	1255	2800
	适用于控制钻杆开合。 Suitable for controlling Drilling Rods opening and closing.					



TYPE 型号	D	H	E
JG22X9.3X6.9	22.0	9.3	6.9
JG22.1X9.05X6.15	22.1	9.05	6.15
JG22.1X9.35X6.25	22.1	9.35	6.25
JG29X8.6X6	29	8.6	6.0

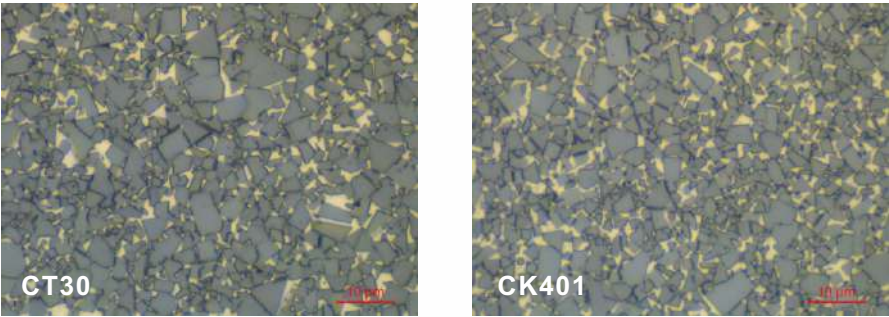


油、气田开采用合金齿 Inserts for Oil & Gas

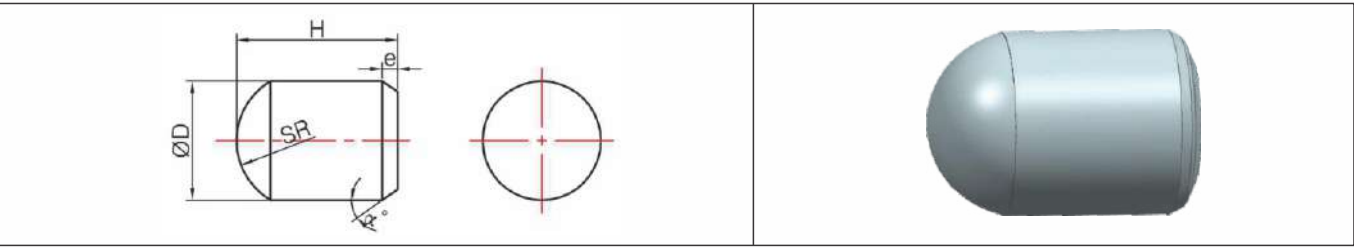
应用范围：油、气田钻井用三牙轮钻头等
Application: Tricon Bits for Oil & Gas.

牌号标准 Grade Specification						
牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CT30	10.0	粗晶粒 Coarse	14.45	87.8	1140	2800
CK401	11.5	粗晶粒 Coarse	14.30	87.5	1110	2700
CE55	12.5	粗晶粒 Coarse	14.20	87.5	1110	2600

金相图谱范例 Example of Metallography 1500X

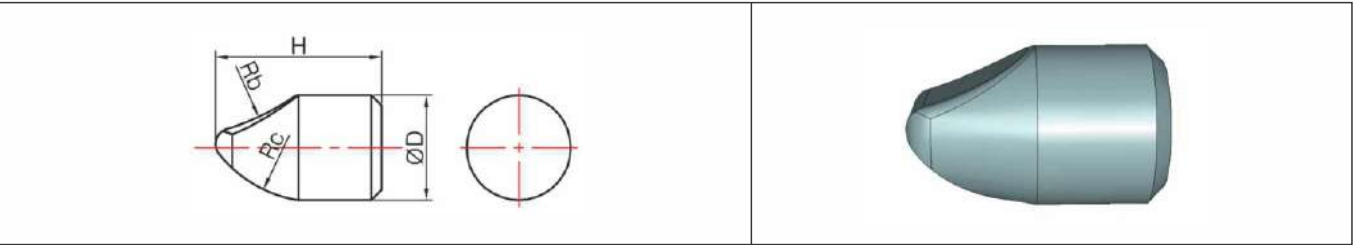


球形齿 Hemispherical Shaped Inserts



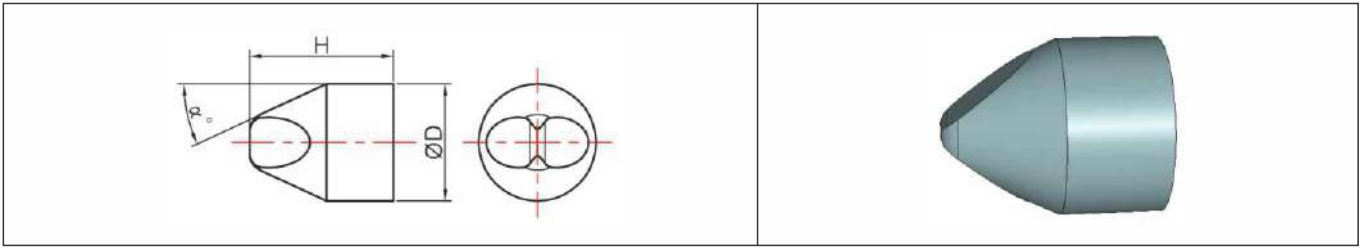
TYPE 型号	D	H
BQ0707-T	7.2	7.0
BQ0709-T	7.2	9.0
BQ0812-T	8.2	12.3
BQ0813-T	8.2	13.3
BQ0914-T	9.2	14.0
BQ1013-T	10.2	13.0
BQ1014-T	10.2	14.0
BQ1114-T	11.3	14.0
BQ1214-T	12.3	14.5
BQ1216-T	12.3	16.5
BQ1414-T	14.3	14.5
BQ1416-T	14.3	16.5
BQ1419-T	14.3	19.0
BQ1420-T	14.3	20.0
BQ1422-T	14.3	22.0
BQ1623-T	16.3	23.0
BQ1625-T	16.3	25.0

勺形齿 Spoon Shaped Inserts



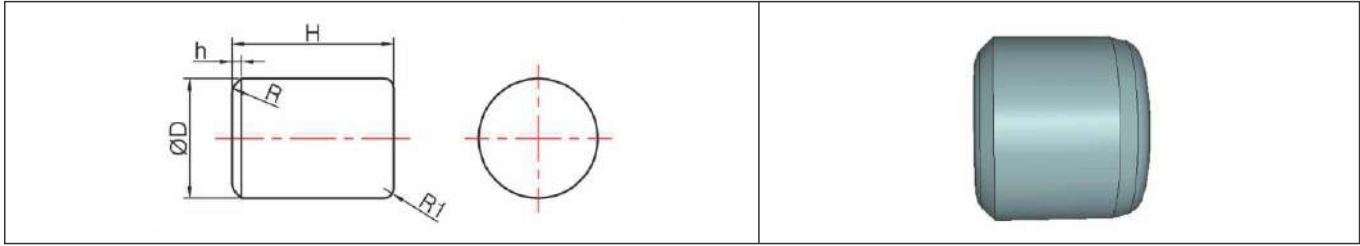
TYPE 型号	D	H
BS1217	12.3	17.0
BS1318	13.3	18.0
BS1421	14.3	21.0
BS1623	16.3	23.0
BS1930	19.3	30.0
BS2233	22.3	33.0
BS2640	26.3	40.0

楔形齿 Chisel Shaped Inserts



TYPE 型号	D	H
BW0810	8.2	10.55
BW0912	9.2	12.7
BW1013	10.2	13.0
BW1014	10.2	14.0
BW1112	11.3	12.4
BW1214	12.3	14.0
BW1215	12.3	15.0
BW1418	14.3	18.0
BW1420	14.3	20.0
BW1623	16.3	23.0
BW1625	16.3	25.0
BW1827	18.3	27.0
BW2030	20.3	30.0
BW2233	22.3	33.0

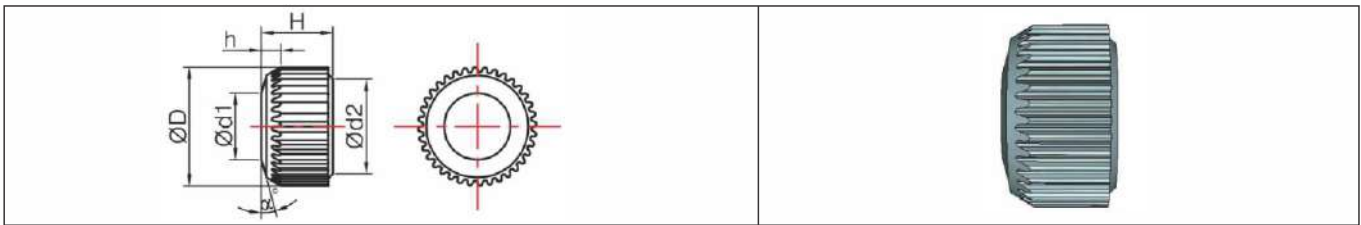
平头齿 Flat Top Inserts



TYPE 型号	D	H
BF0404	4.82	4.8
BF0604	6.0	4.8
BF0805	8.0	5.0
BF0908	9.6	8.0
BF1008	10.0	8.0
BF1108	11.2	8.7
BF1210	12.0	10.0
BF1311	13.4	11.2
BF1415	14.9	15.0

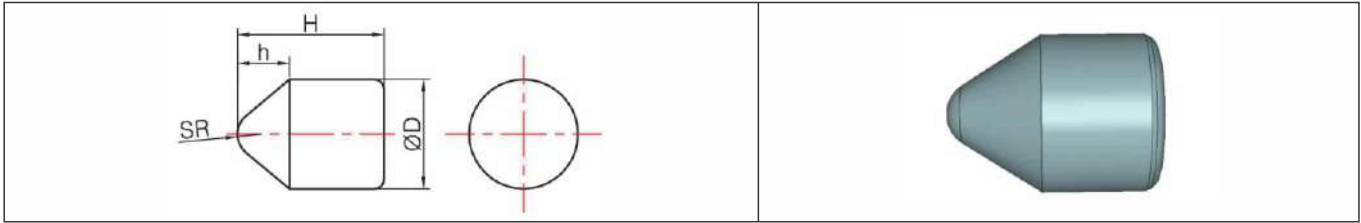
• 直径可磨加到客户要求之尺寸。 Diameters can be ground to customer specifications.
• 未列出之规格和材质可按客户需求订制。 Non-standard specifications and grades can be provided upon request.

锯形齿 Serrated Flat Inserts



TYPE	D	H
BT0606	6.55	6.05
BT0805	8.2	5.0
BT0908	9.4	8.2
BT1108	11.2	8.3
BT1208	12.95	8.0

锥形齿 Conical Shaped Inserts



TYPE 型号	D	H
BC0809-T	8.3	9.8
BC0810-T	8.3	10.8
BC1012-T	10.3	12.5
BC1114-T	11.3	14.0
BC1116-T	11.3	16.5
BC1215-T	12.3	15.7
BC1318-T	13.3	18.0
BC1419-T	14.3	19.0
BC1420-T	14.3	20.0
BC1421-T	14.3	21.0
BC1618-T	16.3	18.0
BC1622-T	16.3	22.0
BC1623-T	16.3	23.0
BC1624-T	16.3	24.0
BC1625-T	16.3	25.0
BC1721-T	17.8	21.5
BC1728-T	17.8	28.0
BC1729-T	17.9	29.0
BC1730-T	17.9	30.0
BC1826-T	18.2	26.5
BC1933-T	19.3	33.0

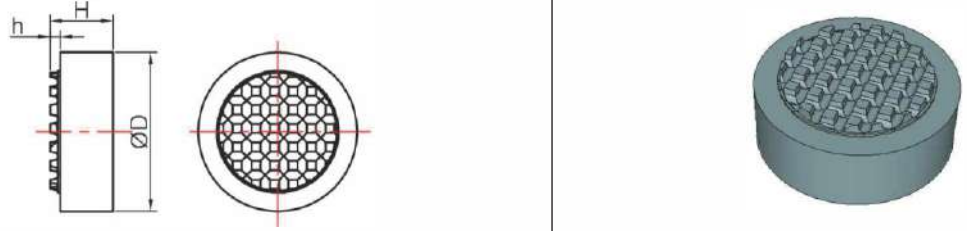
• 直径可磨加到客户要求之尺寸。 Diameters can be ground to customer specifications.
• 未列出之规格和材质可按客户需求订制。 Non-standard specifications and grades can be provided upon request.

金刚石复合基体 Substrates

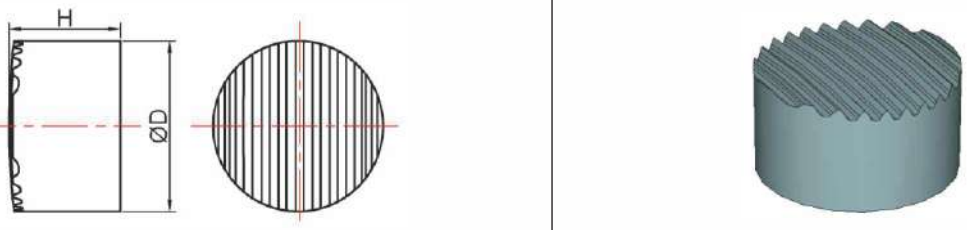
应用范围：矿山、油、气田用聚晶金刚石复合片
Application: Substrates of PDC(Polycrystalline Diamond Compact) Bits for Mining,Oil&Gas and others.

Grade Specification						
牌 号 Grades	粘接相 Binder %	晶粒度 Grain Size	密度 Density	硬度 Hardness		抗折力 T.R.S
			g/cm ³	HRA	HV30	N/mm ²
CK401	11.5	粗晶粒 Coarse	14.30	87.5	1110	2700
CK402T	15.0	粗晶粒 Coarse	14.00	85.8	970	2600

矿山用基体 Substrates for Mining

		
TYPE 型号	D	H
FHR1204	12.0	4.0
FHR1405	14.5	5.0

油田用基体 Substrates for Oil&Gas

		
TYPE 型号	D	H
FHO1405	14.5	5.0
FHO1708	17.2	8.0
FHO2010	20.5	10.0

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