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KIMBERLY



MILITARY TECHNOLOGY

TOP TIER QUALITY

MARKET LEADER IN MINING INDUSTRY



ZHUZHOU KIMBERLY CEMENTED CARBIDE CO., LTD



CORPORATE CULTURE



- ▲ **Enterprise Vision:** Become the leading global provider of top-tier hard alloy products in China by 2038.
- ▲ **Enterprise Mission:** Provide high-end quality hard alloy products and services to global users.
- ▲ **Core Values:** Integrity, Responsibility, Openness, Win-win
- ▲ **Service Philosophy:** Serve customers wholeheartedly and create more value for them.
- ▲ **Enterprise Spirit:** Innovation, Pragmatism, Unity, Dedication

KIMBERLY CARBIDE

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COMPANY INTRODUCTION

Zhuzhou Kimberly Cemented Carbide Co., Ltd. is located in Zhuzhou, known as the capital of China's cemented carbide industry. It is a national-level high-tech enterprise integrating research, design, production, and overall alloy solutions. The company adopts internationally leading cemented carbide production technology and has built a production line capable of producing 500 tons of high-quality mineral rock drilling cemented carbide annually.

With strong research and development capabilities, the company is led by several top experts in the cemented carbide industry, with key technical personnel having over 20 years of experience in research, development, production, and management of cemented carbide. Since its establishment, the company has obtained 7 utility model patents and successfully filed for 3 invention patents, one of which has been granted. The company has been honored with the title of Hunan Provincial New Materials Enterprise and National High-Tech Enterprise.

The high-pressure rock drilling tooth carbide and ultra-coarse grain cutting tooth carbide developed by the company have won widespread recognition and praise from industry-leading customers for their excellent quality and performance.

Kimberly adheres to the business philosophy of "Technology Leading, Customer First." We focus on the production and research of rock drilling tooth carbides, engineering cutting tooth carbides, abrasion-resistant carbides for rock crushing, and other products, dedicated to providing high-quality cemented carbide products and superior services to customers worldwide. We look forward to working hand in hand with new and old customers to achieve mutual success and create brilliance together.

ENTERPRISE HONORS

Enterprise Honors



Hi-Tech Enterprises Certificate

New Material Researching Certification

Patent Honors



Rewarded 7 utility model patents, 3 invention patents and 1 authorised invention patents

ISO9001 MANAGEMENT SYSTEM CERTIFICATES



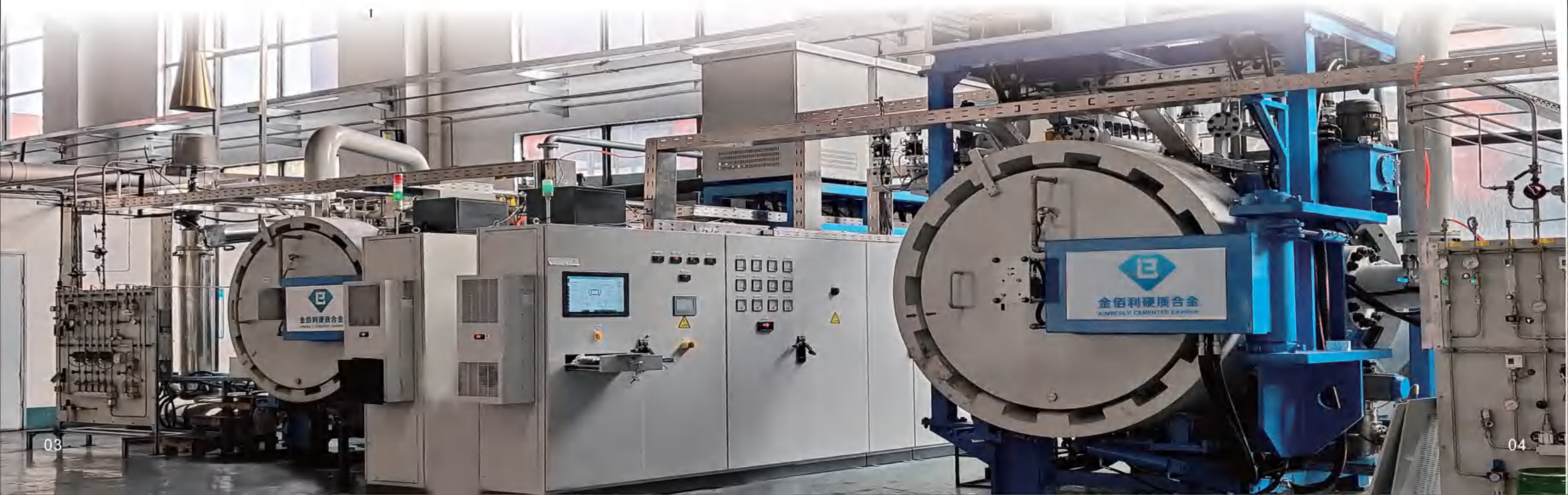
Occupational Health and Safety

Environment Management

Quality Management Certificate

ADVANCED PRECISION EQUIPMENTS

The company fully introduces and absorbs internationally leading hard alloy production process technologies, possessing a 300-liter inclined ball mill, a closed spray drying tower, TPA and robotic electric presses, integrated dewaxing pressing furnaces, automatic sandblasting and passivation equipment, as well as a series of production quality control guarantee devices such as metallographic microscopes, ensuring the advanced nature of product production and stable, reliable product quality.



SYSTEMATIC QUALITY ASSURANCE

High-end hard alloy production equipment, clean and dust-free production environment with constant temperature and humidity, precision hard alloy testing equipment, provide a solid platform for the company to produce high-quality products.

Introducing internationally leading hard alloy production techniques, fully implementing the ISO9001 quality management system to ensure stable product quality. First-class equipment, first-class technology, and first-class talents are cultivated to create top-notch products.



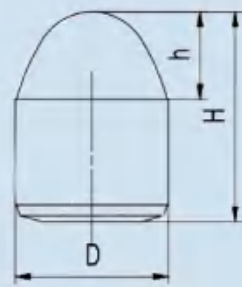
INSERTS FOR MINING

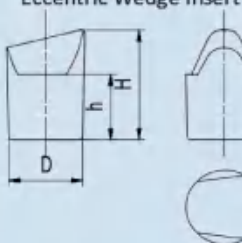


Material Recommendation

Grades	Cobalt % ± 0.5	Density (g/cm ³) ± 0.1	Hardness HRA $\geq \pm 1.0$	TRS (Mpa $\geq \pm 10$)	Recommended Application
KD102	6	14.93	90.0	2500	Low air pressure down-the-hole drill bits are suitable for medium-soft rock formations. Small diameter heat-inserted or cold-pressed tapered hole connection drill bits are suitable for medium-hard rock formations.
KD102H	6	14.95	90.5	2900	High air pressure DTH drill bits with teeth are suitable for hard rock and ultra-hard rock formations. Hydraulic threaded drill bits with teeth are suitable for hard rock and ultra-hard rock formations.
KD05	6	14.9	90.8	2900	High air pressure drill bits and hydraulic threaded drill bits are used for hard rock and ultra-hard rock formations. These products exhibit excellent comprehensive performance in toughness, wear resistance, etc., and are suitable for any complex rock formations.
KD132	7	14.85	90.0	2800	Suitable for impact drill button bits, DTH drill button bits, and chisel drilling tools for various types of medium to hard rock formations.
KD152	6.5	14.8	89.8	2800	Low air pressure DTH drill bits are suitable for medium-soft or soft rock formations. casing bits, carbide sand-making alloy.
KD202	8	14.7	89.3	2800	Mainly used for small diameter drill bits, suitable for drilling and mining in iron ore, metal ore, and coal mines. It can also be used for large diameter low air pressure DTH drill bits with teeth in complex medium-soft rock formations.
KD203	8	14.75	87.0	2900	Irregular button bits, high-temperature brazed insert bits, wedge edge bits.
KD323	10.5	14.41	87.0	2900	Suitable for large diameter DTH drill bits, drilling through medium-hard and hard rock formations.

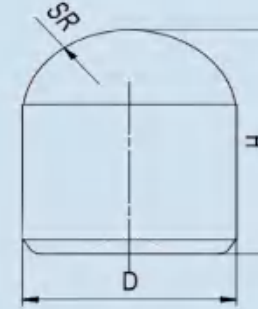
INSERTS FOR MINING

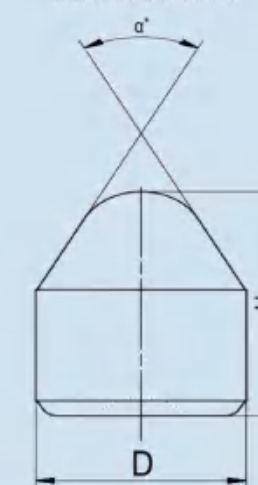
Parabolic Insert	Type	Dimensions (mm)		
		Diameter (D)	Height (H)	Crest Height(h)
	SD0711	7.2	11	3.9
	SD0812	8.2	12	4.5
	SD0913	9.2	13	5
	SD1015	10.2	15	5.3
	SD1116	11.2	16	5.9
	SD1217	12.3	17	7.3
	SD1319	13.2	19	6.5
	SD1422	14.3	22	7.3
The size and shape can be customized by requirements				

Eccentric Wedge Insert	Type	Dimensions(mm)		
		Diameter (D)	Height (H)	Cylinder Height (h)
	SBX1217-F12Q	12.2	17	10
	SBX1420-F15Q	14.2	20	11.8
	SBX1624-F15Q	16.3	24	14.2
The size and shape can be customized by requirements				

INSERTS FOR MINING



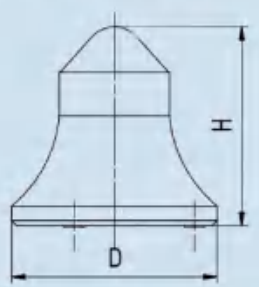
Spherical Insert	Type	Dimensions (mm)		
		Diameter (D)	Height (H)	Radius (SR)
	SQ0812	8.2	12	4.3
	SQ0913	9.2	14	4.7
	SQ1014	10.2	15	5.2
	SQ1116	11.2	16	6
	SQ1217	12.2	17	6.6
	SQ1318	13.2	20	6.7
	SQ1419	14.2	20	7.3
	SQ1621	16.3	21	8.7
	SQ1826	18.3	26	9.3
The size and shape can be customized by requirements				

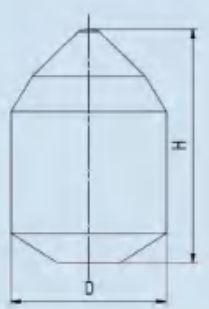
Conical Insert	Type	Dimensions (mm)		
		Diameter (D)	Height (H)	Angle (α°)
	SZ0812	8.2	12.2	58
	SZ1015	10.2	15.2	55
	SZ1217	12.2	17.2	55
	SZ1318	13.2	18.2	55
	SZ1419	14.2	19.2	55
	SZ1520	15.3	20.3	55
The size and shape can be customized by requirements				

Material Recommendation

Grades	Cobalt % ± 0.5	Density (g/cm ³) ± 0.1	Hardness HRA $\geq \pm 1.0$	TRS (Mpa $\geq \pm 10$)	Recommended Application
KD104	6	14.95	87.0	2500	Use to milling inserts for asphalt pavement and excavators in medium-hard rock formations, it performs to excellent wear resistance.
KD102H	6	14.95	90.5	2900	Designed for milling on cement road surfaces and excavation machines working in harder rock layers, it demonstrates excellent impact resistance
KD253	9	14.65	88.0	2800	Used for large-diameter DTH drill bits to excavate hard rock formations; for tricone roller bits to drill through medium-soft rock formations, with long service life; roller cutter alloy and disc cutter alloy used for medium-soft rock formations.
KD254	9	14.65	86.5	2500	Suitable for tunnel excavation cutter inserts in relatively soft rock formations, excavation of open trenches, tunneling, and open-pit mining
KD205	8	14.5	86.0	2500	Primarily used for coal mine excavation and rock drilling, it possesses superior impact resistance and heat fatigue performance.
KD303	10	14.53	87.5	2900	Utilized for three-cone rock drill bits to penetrate medium-hard rock formations, with relatively good wear resistance. Also applied to roller cutter alloys and disc cutter alloys for medium-hard rock formations.
KD353	11	14.42	87.5	3000	Used for tri-cone rock drill bits to drill into hard rock formations, exhibiting excellent impact resistance. Also utilized for various types of alloys including roller cutter alloys, disc cutter alloys for hard rock formations, and alloys for tunnel boring machine tools, as well as alloy columns for powder roll presses.



Insert for Road Surface Milling and Planing	Type	Dimensions(mm)	
		Diameter (D)	Height (H)
	KW185095017	18.5	17
	KW190102184	19	18.4
	KW200110220	20	22
The size and shape can be customized by requirements			

Insert for Milling and Excavation in Construction	Type	Dimensions(mm)	
		Diameter (D)	Height (H)
	KXW0812	8	12
	KXW1217	12	17
	KXW1319	13	19
	KXW1624	16	24
	KXW1827	18	27
The size and shape can be customized by requirements			

INSERTS FOR COAL MINING

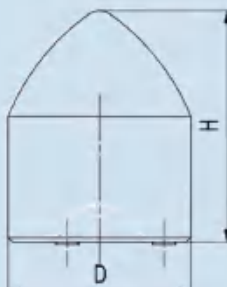
Material Recommendation

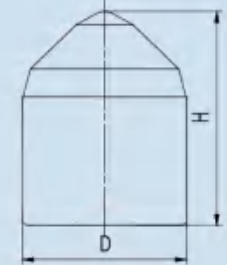


Grades	Cobalt % ±0.5	Density (g/m³) ±0.1	Hardness HA ≥±1.0	TRS (Mpa ≥±10)	Recommended Application
KD254	9	14.65	86.5	2500	For tunneling in soft rock formations and coal mining with coal gangue, it performs excellent wear resistance and has a long service life.
KD205	8	14.7	86.0	2500	Primarily used for coal mine excavation and rock drilling, it possesses superior impact resistance and heat fatigue performance.
KD128	6.5	14.8	86.0	2300	It possesses excellent impact resistance and fatigue resistance, mainly applied in hard rock drilling, tunnel excavation, iron ore mining, and other fields.
KD304	10	14.5	86.0	2500	Mainly used for tunnel excavation in medium-hard rock formations and coal mining with coal gangue, it has a long service life and excellent impact resistance.
KD354	11	14.4	85.5	2500	Used for tunneling in relatively hard rock formations, with large diameter coal mining machine drums made of alloy. They have a long service life and good impact resistance.
KD454	13	14.2	85.0	2600	Suitable for cutting teeth used in the canine-type shearer, which has good impact resistance and is suitable for tunneling in hard rock formations.

INSERTS FOR COAL MINING

Mushroom Insert 	Type	Dimensions(mm)		
		Diameter (D)	Diameter (d)	Height (H)
	SM181022	18	10	22
	SM201526	20	15	26
	SM221437	22	14	37
	SM302633	30	26	33
	SM402253	40	22	53
The size and shape can be customized by requirements				

Parabolic Insert 	Type	Dimensions(mm)	
		Diameter (D)	Height (H)
	SMJ1621	16	21
	SMJ1824	18	24
	SMJ1925	19	25
	SMJ2026	20	26
	SMJ2127	21	27
The size and shape can be customized by requirements			

Multiple Cone Insert 	Type	Dimensions (mm)	
		Diameter (D)	Height (H)
	MJ1621MZ	16	21
	MJ1824MZ	18	24
	MJ1925MZ	19	25
	MJ2026MZ	20	26
	MJ2127MZ	21	27
The size and shape can be customized by requirements			



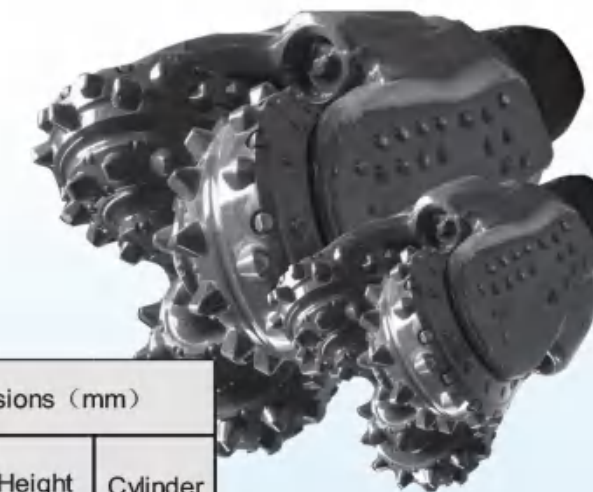
INSERTS FOR PETROLEUM EXPLORATION

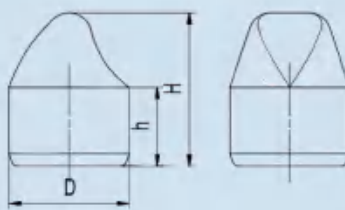


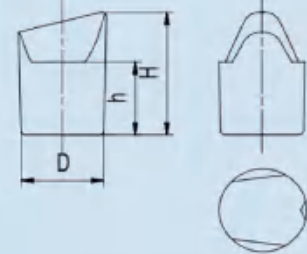
Material Recommendation

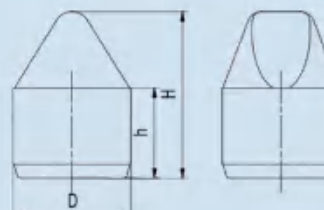
Grades	Cobalt % ±0.5	Density (g/cm³) ±0.1	Hardness HRA ≥±1.0)	TRS (Mpa ≥±10)	Recommended Application
KD603	16	13.95	85.5	2700	It's for the insert that open-head is higher, the shape is slightly complicated and the high drill pressure bit of buttons, that suits to hard rock and complicated geological condition.
KD453	13	14.2	86.0	2800	It's for medium open-head of inserts and medium drilling pressure bits that will exert to moderate hard and hard rock geological condition.
KD353	11	14.42	87.5	3000	For short head-opened and simple profile of tooth that apply to moderate hard or soft geological condition.
KD602	16	13.95	86.8	3000	Used for exposed high-carbide teeth with complex tooth structures, drill bits with high drilling pressure alloy teeth, suitable for hard or complex geological conditions. The product's wear resistance is higher than KD603
KD452	13	14.2	87.5	3000	Used for carbide teeth with moderate exposure, drill bits with moderate drilling pressure, suitable for medium-hard or hard rock geological conditions. The product's wear resistance is higher than KD453.
KD352C	11	14.42	87.8	3000	Used for low-profile carbide teeth with simple tooth structures, suitable for medium-hard or slightly soft geological conditions. The product's wear resistance is higher than KD353."
KD302	10	14.5	88.6	3000	Low-profile, simple-toothed structure, low-drilling-pressure drill bits, suitable for hard rock or non-ferrous metal mining.
KD202M	8	14.7	89.5	2600	Suit for diameter-keep diameter, back inserts and serrate inserts.

INSERTS FOR PETROLEUM EXPLORATION

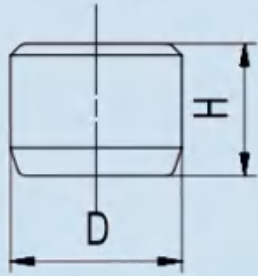


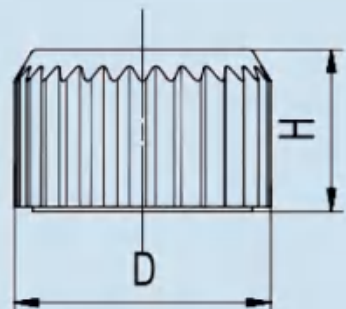
Spoon Insert 	Type	Dimensions (mm)		
		Diameter (D)	Height (H)	Cylinder Height(h)
	SS1418-E20	14.2	18	9.9
	SS1622-E20	16.2	22	11
	SS1928-E25	19.2	28	14
The size and shape can be customized by requirements				

Eccentric Wedge Insert 	Type	Dimensions(mm)		
		Diameter (D)	Height (H)	Cylinder Height (h)
	SBX1217-F12Q	12.2	17	10
	SBX1420-F15Q	14.2	20	11.8
	SBX1624-F15Q	16.3	24	14.2
The size and shape can be customized by requirements				

Wedge Insert 	Type	Dimensions (mm)		
		Diameter (D)	Height (H)	Cylinder Height(h)
	SX1014-E18	10.2	14	8
	SX1318-E17Z	13.2	18	10.5
	SX1418A-E20	14.2	18	10
	SX1620A-E20	16.3	19.5	9.5
	SX1724-E18Z	17.3	24	12.5
	SX1827-E19	18.3	27	15
The size and shape can be customized by requirements				

INSERTS FOR PETROLEUM EXPLORATION

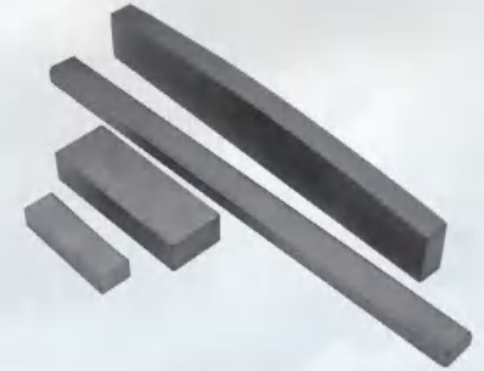
Flat Insert	Type	Dimensions(mm)	
		Diameter (D)	Height (H)
	SP0807-E15	8.2	6.9
	SP1010-E20	10.2	10
	SP1212-E18	12.2	12
	SP1515-G15	15.2	15
The size and shape can be customized by requirements			

Serrate Insert	Type	Dimensions (mm)	
		Diameter (D)	Height (H)
	SP0606F-Z	6.5	6.05
	SP0805F-Z	8.1	4.75
	SP0907F-Z	10	6.86
	SP1109F-VR	11.3	8.84
	SP12.909F-Z	12.9	8.84
The size and shape can be customized by requirements			

CARBIDE STRIPS FOR SAND-MAKING

Material Recommendation

Grades	Cobalt % ± 0.5	Density (g/m ³) ± 0.1	Hardness (HA $\geq \pm 1.0$)	TRS (Mpa $\geq \pm 10$)	Recommended Application
KD202M	8	14.7	89.5	2600	Common medium-sized grain material, with good comprehensive performance, suitable for sand making in 0-30mm hard rock formations.
KZ303	10	14.5	88.5	3000	Multicarbide phase strengthening, excellent impact resistance, suitable for high-power sand making machines for 0-60mm hard rock and high-hardness rock sand making. "High-end sand making bar"
KD102	6	14.93	90.0	2500	High strength, excellent hardness, and good abrasion resistance, suitable for crushing particularly hard river pebbles, rocks (granite, sandstone, limestone), ores, and tailings in artificial sand production.
KD202	8	14.7	89.3	2800	High hardness, excellent wear resistance, suitable for crushing limestone, sandstone, low-grade iron ore, copper-bearing iron sulfide, etc.
KD203	8	14.75	89.3	2600	Good wear resistance, suitable for crushing hard river pebbles, rocks (granite, sandstone, limestone), ores, and tailings in artificial sand production.
KD302	10	14.5	88.6	3000	High strength, with slightly better wear resistance than KD352C, suitable for crushing hard river pebbles, rocks (granite, sandstone, limestone), ores, and tailings in artificial sand production.
KD352C	11	14.42	87.8	3000	High strength, suitable for crushing hard river pebbles, rocks (granite, sandstone, limestone), ores, and tailings in artificial sand production.
KD402C	12	14.25	87.6	3000	High strength, suitable for crushing relatively soft shale, limestone, and solid coal.
KD304M	10	14.5	86.4	2300	Excellent impact toughness, suitable for crushing hard rocks in harsh environments.

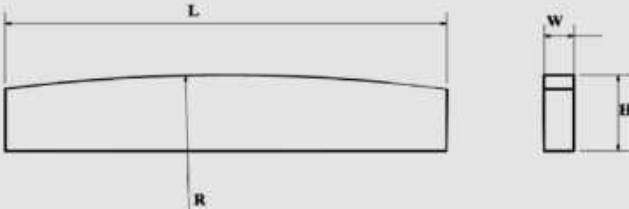


CARBIDE STRIPS FOR SAND-MAKING



	Dimensions (mm)			
	L	W	H	R
	200	27	13	1000
	150	25	13	900

	Dimensions (mm)			
	L	W	H	R
	105	20	10	10
	200	30	15	15

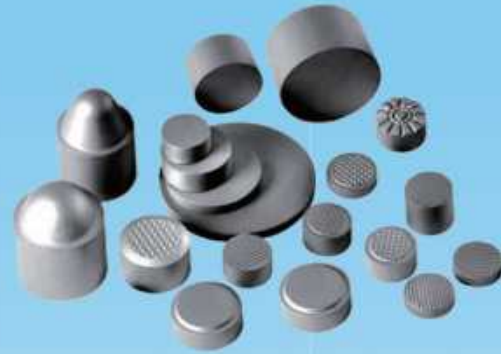
	Dimensions (mm)			
	L	W	H	R
	180	23	15	0
	200	23	15	0

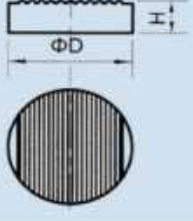
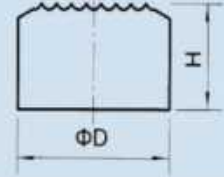
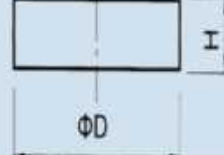
CARBIDE SUBSTRATE FOR PDC INSERTS

Material Recommendation

Grades	Cobalt % ± 0.5	Density (g/cm ³) ± 0.1	Hardness HRA $\geq \pm 1.0$	TRS (Mpa $\geq \pm 10$)	Recommended Application
YG16C	16.5	13.9	85.2	3000	Mineral composite blades of carbide substrates for PDC
KD16	16	13.95	85.4	3000	Mineral composite blades of carbide substrates for PDC
KD603	16	13.95	85.5	2700	Used for geological and coalfield applications, diamond composite tips of matrix.
KD451	11	14.2	88.5	3000	Used for diamond composite tips matrix in oilfield extraction applications.
KD452	11	14.2	87.5	3000	Used for the substrate of PDC (Polycrystalline Diamond Compact) blades.
KD352	11	14.42	87.8	3000	Used for the substrate of PDC (Polycrystalline Diamond Compact) blades.

CARBIDE SUBSTRATE FOR PDC BLADE



Type		Dimensions(mm)	
		Diameter (D)	Height (H)
Composite blades for Mining 	KY12650	12.6	5
	KY13842	13.8	4.2
	KY14136	14.1	3.6
	KY14439	14.4	3.9
Composite blades for Oil Field 	YT145273	14.52	7.3
	YT17812	17.8	12
	YT21519	21.5	19
	YT26014	26	14
Composite Blades 	DP27250	27.2	5
	DP35041	35	4.1
	DP50545	50.5	4.5



GLOBAL SALE NETWORK



CARBIDE BUTTON EXPERT OF MINING AND ENGINEER CONSTRUCTION

QUALITY | EFFICIENCY | INNOVATION