



GLOBORX
钴铂仕

Cemented
Carbide for mining

矿用硬质合金



株洲钴铂仕硬质合金有限公司



GLOBORX
钨钼钨

公司简介

株洲钨钼钨硬质合金有限公司集硬质合金产品生产、研发、销售、技术服务为一体。公司拥有当今世界先进的生产工艺技术，拥有一支强大的科研开发队伍，科研人员占员工总数的20%以上。具有世界一流的可转位数控刀片生产线及配套刀具生产线、整体硬质合金孔加工刀具生产线、机夹、焊接刀片生产线、模具成品加工生产线、地矿工具生产线，并成立了集科研、应用研究为一体的研发中心。

公司主打产品硬质合金焊接刀片、机夹刀片、数控刀片、数控刀具、圆盘铣刀、整体合金铣刀、拉丝模、冷墩模、地矿合金、锯齿片、木工刀片、硬质合金板材、硬质合金圆棒、硬质合金模具、异型合金、硬质合金粉末，以及地矿工具、深加模具、潜孔钻头、钎头、锚杆钻头、金刚石锯片、金刚石钻头、机床配套工具、电线电缆等，并代理日本三菱、东芝、京瓷、肯纳、三特等国外数控刀片及数控刀具。

公司具有近二十多年的经营历史，拥有30000多个品种产品，具有自主进出口权，产品远销世界各地，产品质量受到广大用户的一致好评。在世界各地客户中享有良好的声誉。

The company is at its disposal a world's first class production line for index-able cemented carbide inserts and compatible tools, a production line for solid bore machining tools /solid end mills, a production for conventional inserts and a production line for ceramic inserts and their structural parts, and it has set up an R&D center that combines in one scientific research and research on applications. The company is bringing out from time to time advanced cutting tools and bore machining tools suitable for applications in industries of molds, automobiles and aviation. The company can also manufacture make various cutting tools as per drawings and samples based on the different requirements of customers and provide a whole package of solutions for mechanical machining and manufacturing.

The company has been awarded GB/T19001-ISO9001 Quality System Certificate and GB/T24001-ISO14001 Environment Management System Certificate. The corporation's "Diamond" Brand cemented carbide was awarded the title of China's famous brand on Sept. 1st, 2004 at the Great Hall of the People at "a commendation conference for China's famous brands and excellent quality management". In the market investigation and study of wide scope made by Vogel's Beijing Consulting Company of Germany's Vogel Industrial Media Group from May 2004 to March 2005, "Diamond" came out with talent showing itself and was honored as the nation's tooling that is most welcome.

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














电话/Tel:0731-22588953 手机/Mb:+8613873336879

邮箱: info@zzgloborx.com

凿岩工具、地质勘探工具、 煤炭采掘用硬质合金牌号、性能及推荐用途表	1	<i>Properties and applications of cemented carbide grades rock drilling tools, geological prospecting drilling tools and coal-mining tools.</i>
凿岩工具用硬质合金制品	2	<i>Cemented carbide for rock drilling tools.</i>
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凿岩工具、地质勘探工具、煤炭采掘用硬质合金牌号、性能及推荐用途表
 Properties and applications of cemented carbide grades rock drilling tools,
 geological prospecting drilling tools and coal-mining tools.

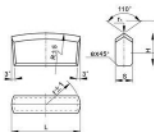
牌号 Grade		物理机械性能 Physical & mechanical properties			推荐用途 Applications recommended
首选牌号 Premium grade	补充牌号 Supplemental grade	密度 Density g/cm ³	硬度 Hardness HRA	抗弯强度 TRS N/mm ²	
	YG4C	14.90-15.30	≥89.5	≥1620	适用于地质勘探钻具, 煤田采掘用轻型凿岩钻头, 作软岩层、煤层及无硅化岩层钻进钻具。 It is suitable for making geological prospecting drill bits and mining inserts for light electrical drills for drilling soft rock and coal formations and drill bits for drilling un-silicated rock formations.
	YG6	14.70-15.10	≥89.5	≥1670	
	YG8	14.60-14.90	≥89.0	≥1840	
	YG8C	14.50-14.90	≥87.5	≥2000	
YK15. 6		14.50-14.80	≥87.0	≥2030	适用于矿山采掘用重型凿岩机钻具用钎片, 凿进硬岩层和坚硬岩层者, 亦可作牙轮钻等柱齿钻具。 It is suitable for inserts for heavy duty rock excavating machines for drilling hard and super hard rock formations and it can also be used for making tri-cone button bits.
YK20		14.30-14.60	≥86.0	≥2460	
YK25		14.30-14.70	≥86.5	≥2500	
YK25. 1	YK15	14.40-14.56	≥87.5	≥1910	
		14.45-14.75	≥86.5	≥2300	
YK30		14.32-14.46	≥86.5	≥2100	主要用作合金柱齿, 镶制牙轮钻和冲击钻具, 钻进硬岩层和坚硬岩层, 同时也可作其它钻具用合金片。 It is mainly used for making buttons and tri-cone and percussive drill bits for drilling hard and super hard rock formations and it can also be used for making inserts in other drill bits.
YG11C		14.10-14.50	≥86.5	≥2290	
YK35		13.89-14.11	≥85.5	≥2110	
YK40		14.00-14.40	≥85.5	≥2400	合金具有优良的韧性和相应的耐磨性, 用于矿山采掘, 重型凿岩机钻具用钎片, 凿孔钻具片等凿进硬岩层和坚硬岩层, 也可作其它柱齿钻具用合金齿。 With super toughness and corresponding wear resistance, it is suitable for mining inserts in mine prospecting, in heavy duty rock drilling machines and depth drilling bits for drilling hard and super hard rock formations and it can also be used for other button bits.
YK45		13.90-14.20	≥85.5	≥2200	
YK50		13.90-14.20	≥85.0	≥2350	

			
K0, K10	K1, K20	K2	K3
P2-P4	P5-P6	P7	P8
			
K31	T10	T11	T12
P8	P9	P9	P10
			
T20	T21	T30	T40
P10	P11	P11	P12
			
T50	M10	M11	M12
P12	P13	P13	P14
			
M14	M20	M21	M22
P15	P15	P15	P16

				
K21	K22	M23	M24	
P16	P16	P17	P17	
				
截煤齿 Auger	截煤齿 Auger	球形齿 Spherical buttons		
P18	P18	P21—P22		
				
锥形齿 Conical buttons			楔形齿 Wedge buttons	
P23—P24			P25	
				
边楔齿 Eccentric wedge buttons	勺形齿 Spoon buttons	平顶齿 Flat top buttons	抛物线形齿 Parabolic buttons	
P25	P26	P26	P27	
				
尖爪齿 Pointed claw buttons	挖屑齿 Parabolic buttons			
P27	P28—P29			

K0型 用于镶制一字型硬质合金钻头

Type K0 For making chisel cemented carbide drill bits



mm

型号 Type	尺寸 Dimension						R	r	r _s
	L		H		S				
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K026D	26	±0.6	12	±0.5	8	0 -0.6	50	13	0.5-1.0
K026B	26		15		8		50	13	
K026	26		18		8		180	13	
K028D	28		12		6		80	14	
K028B	28		15		8		80	14	
K028	28		18		8		180	14	
K030D	30		13		8		80	15	
K030B	30		15		8		80	15	
K030	30		18		8		180	15	
K032E	32		12		8		80	16	
K032D1	32		12.5		8		180	16	
K032D	32		13		8		80	16	
K032B	32		15		8		180	16	
K032	32		18		8		180	16	
K034E	34	12	8	80	17				
K034D	34	13	8	80	17				
K034B	34	15	10	180	17				
K034	34	18	10	180	17				
K036E	36	12.5	8	120	18				
K036D	36	13.5	9.2	80	18				
K036A	36	15	8	80	18				
K036B	36	15	10	180	18				
K036	36	18	10	180	18				
K038H	38	12	10	180	19				
K038E	38	13	9	180	19				

mm

型号 Type	尺寸 Dimension						R	r	r _s
	L		H		S				
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K038D1	38	±0.7	13.5	±0.5	8	0 -0.6	180	19	0.5-1.0
K038D	38		13.5		9.2		120	19	
K038D2	38		13.5		9.2		180	19	
K038A	38		15		8		120	19	
K038B	38		15		10		180	19	
K038	38		18		10		180	19	
K040H	40		12		10		180	20	
K040D	40		13.5		9.2		120	20	
K040D1	40		13.5		9.2		180	20	
K040F	40		14		9		120	20	
K040A	40		15		8		120	20	
K040B	40		15		10		180	20	
K040	40		18		10		180	20	
K042E	42		12		7		150	21	
K042H	42		12		10		180	21	
K042D	42		13.5		9.2		120	21	
K042D1	42		13.5		9.2		180	21	
K042B1	42		14		10		180	21	
K042B	42		15		10		180	21	
K042A	42		17		9		120	20	
K042	42	18	10	180	21				
K043H	43	12	10	180	21.5				
K043D	43	13.5	9.2	120	21.5				
K043A	43	15	8	120	21.5				
K043B	43	15	10	180	21.5				
K044B	44	15	10	120	22				
K044	44	18	10	180	22				
K046B	46	15	10	160	23				
K046	46	18	10	180	23				
K049B	49	15	10	160	24.5				
K049	49	18	10	1800	24.5				

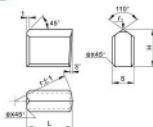
K10型 用于镶制一字型硬质合金钻头

Type K10 For making chisel cemented carbide drill bits

型号 Type	尺寸 Dimension								
	L		H		S		R	r	r ₁
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K1013	13	±0.4	10	±0.25	4	±0.15	40	8	0.5-1.0
K1016A	16	±0.4	12	±0.25	5	±0.15	30	8	
K1016	16	±0.4	12	±0.35	6	±0.25	30	8	
K1020B	20	±0.4	11.5	±0.35	6	±0.25	70	10	
K1020A	20	±0.4	12	±0.35	5	±0.25	40	10	
K1020	20	±0.4	12	±0.35	6	±0.25	40	10	
K1026	26	±0.4	12	±0.35	6	±0.25	50	13	
K030	30	±0.45	15	±0.35	8	±0.25	80	15	
K1032	32	±0.45	15	±0.35	8	±0.25	80	16	
K1034	34	±0.45	15	±0.35	8	±0.25	80	17	
K1036	36	±0.5	15	±0.35	8	±0.25	80	18	
K1036A	36	±0.5	15	±0.35	10	±0.25	120	18	
K1038	38	±0.5	15	±0.35	8	±0.25	120	19	
K1038A	38	±0.5	15	±0.35	10	±0.25	120	19	
K1040	40	±0.5	15	±0.35	8	±0.25	120	20	
K1040A	40	±0.5	15	±0.35	10	±0.25	120	20	
K1040B	40	±0.5	18	±0.35	10	±0.25	120	20	
K1043	43	±0.5	15	±0.35	10	±0.25	120	21.5	
K1043A	43	±0.5	18	±0.35	8	±0.25	120	21.5	
K1043B	43	±0.5	18	±0.35	10	±0.25	120	21.5	
K1046	46	±0.6	15	±0.35	10	±0.25	160	23	
K1046A	46	±0.6	18	±0.35	10	±0.25	160	23	
K1049	49	±0.6	18	±0.35	10	±0.25	160	24.5	
K1054	54	±0.6	18	±0.35	10	±0.25	160	27	

K20型 用于镶制十字型和X字型硬质合金钻头

Type K20 For making cross and X-shaped cemented carbide drill bits



mm

型号 Type	尺寸 Dimension								
	L		H		S		r	r ₁	φ
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K106	6	±0.25	12	±0.35	6		20		0.5
K107	7	±0.25	12	±0.35	6		20		0.5
K108	8	±0.25	12	±0.35	6		20		0.5
K109	9	±0.25	12	±0.35	8		20		1
K110	10	±0.25	12	±0.35	8		20		1
K111	11	±0.35	12	±0.35	8		20		1
K112	12	±0.35	12	±0.35	8		20		1
K113	13	±0.5	12	±0.35	8		20		1
K114	14	±0.5	12	±0.35	8		20		1
K115	15	±0.5	12	±0.35	8		20		1
K115H	15	±0.5	14	±0.5	8		20		1
K116D	16	±0.5	9	±0.35	8	0	20	0.5-1.0	1
K116	16	±0.5	14	±0.5	8	-0.6	20		1
K117	17	±0.5	14	±0.5	8		20		1
K117H	17	±0.5	16	±0.5	10		20		1
K118	18	±0.5	12	±0.35	8		20		1
K119	19	±0.6	14	±0.5	8		22		1
K119H	19	±0.6	16	±0.5	10		22		1
K120	20	±0.6	16	±0.5	10		23		1
K121	21	±0.6	16	±0.5	10		24		1
K122D	22	±0.6	12	±0.35	8		25		1
K122	22	±0.6	16	±0.5	10		25		1
K124	24	±0.6	16	±0.5	10		27		1
K126	26	±0.6	16	±0.5	10		290		1

(续表) Run-on Table

型号 Type	尺寸 Dimension						r	r _s	e
	L		H		S				
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K128	28	±0.6	16	±0.5	10	0 -0.6	0.5-1.0	1	
K130	30	±0.8	12	±0.35	8			1	
K131	31	±0.8	16	±0.5	10			1	
K133	33	±0.8	12	±0.35	8			1	
K134	34	±0.8	12	±0.35	10			1	
K135	35	±1.0	13	±0.35	10			1	
K136	36	±1.0	16	±0.5	10			1	
K140	40	±1.0	24	±0.5	13			1	

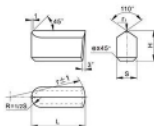
K20型 用于镶制十字型和X字型硬质合金钻头

TypeK20 For making chisel and X-shaped cemented carbide drill bits

型号 Type	尺寸 Dimension						r	r _s	e
	L		H		S				
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
K2012	12	±0.35	12	±0.35	8	±0.25	0.5-1.0	1	
K2013	13	±0.4	12	±0.35	8	±0.25		1	
K2014	14	±0.4	12	±0.35	8	±0.25		1	
K2015	15	±0.4	12	±0.35	8	±0.25		1	
K2017	17	±0.4	14	±0.4	8	±0.25		1	
K2019	19	±0.4	14	±0.4	8	±0.25		1	
K2020	20	±0.4	16	±0.4	10	±0.25		1.5	
K2020A	20	±0.4	18	±0.4	10	±0.25		1.5	
K2022	22	±0.4	16	±0.4	10	±0.25		1.5	
K2024	24	±0.4	18	±0.4	10	±0.25		1.5	
K2026	26	±0.5	16	±0.4	10	±0.25		1.5	
K2028	28	±0.5	18	±0.4	10	±0.25		1.5	
K2030	30	±0.5	18	±0.4	12	±0.25		1.5	
K2032	32	±0.5	18	±0.4	12	±0.25		2	
K2035	35	±0.5	20	±0.4	15	±0.4		2	
K2041	41	±0.5	22	±0.4	17	±0.4		2	
K2045	45	±0.5	25	±0.4	19	±0.4		2	
K2053	53	±0.6	25	±0.4	20	±0.4		2	

K21型 用于镶制十字型和X字型硬质合金钻头

Type K21 For making cross and X-shaped cemented carbide drill bits

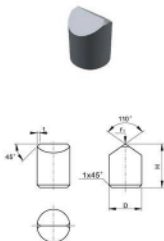


型号 Type	尺寸 Dimension								
	L		H		S		r	e	r ₁
	基本尺寸	允许偏差 Tol.	基本尺寸	允许偏差 Tol.	基本尺寸	允许偏差 Tol.			
K2114	14	±0.35	12	±0.35	8	±0.25	20	1.0	0.5-1.0
K2116	16	±0.35	12	±0.35	8	±0.25	22	1.0	
K2116H	16	±0.35	20	±0.40	12	±0.25	45	1.0	
K2118	18	±0.35	14	±0.35	10	±0.25	22.5	1.0	
K2120	20	±0.4	16	±0.35	10	±0.25	28.5	1.0	
K2126	26	±0.4	16	±0.35	10	±0.25	35	1.5	
K2126A	26	±0.4	18	±0.35	10	±0.25	35	1.5	
K2128	28	±0.45	16	±0.35	10	±0.25	35	1.5	
K2128A	28	±0.45	18	±0.35	10	±0.25	35	1.5	
K2130	30	±0.45	16	±0.35	12	±0.35	38	1.5	
K2130A	30	±0.45	18	±0.35	12	±0.35	38	1.5	
K2132	32	±0.45	16	±0.35	12	±0.35	44.5	2.0	
K2132A	32	±0.45	18	±0.35	12	±0.35	44.5	2.0	
K2135	35	±0.5	16	±0.35	12	±0.35	51	2.0	
K2135A	35	±0.5	18	±0.35	12	±0.35	51	2.0	
K2139	39	±0.5	18	±0.35	14	±0.35	57.5	2.0	
K2143	43	±0.5	20	±0.4	14	±0.35	63.5	2.0	

mm

K30 用于镶制一字型和十字型硬质合金钻头

Type K30 For making cross cemented carbide drillbits

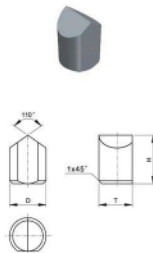


mm

型号 Type	尺寸 Dimension				r ₁
	D		H		
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	
K3008	8	±0.25	14	±0.35	0.5-1.0
K3010	10	±0.25	16	±0.35	
K3012	12	±0.35	16	±0.35	
K3014	14	±0.35	18	±0.35	
K3016	16	±0.35	20	±0.4	
K3016A	16	±0.35	22	±0.4	
K3018	18	±0.35	20	±0.4	

K31 用于镶制一字型和十字型硬质合金钻头

Type K31 For making cross cemented carbide drillbits



mm

型号 Type	尺寸 Dimension					
	D		H		T	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
K3108	8	±0.35	16	±0.5	7.6	±0.35
K3110	10	±0.35	16	±0.5	9.3	±0.35
K3112	12	±0.35	16	±0.5	11	±0.35

T10型 用于镶钨旋转钻进刮刀钻头及自磨式取岩心钻头

Type T10 For making rotaryscrapping drill bits and rock core drilling bits

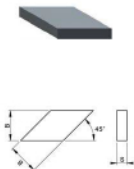


mm

型号 Type	尺寸 Dimension					
	B		H		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T1003	3	±0.3	15	±0.5	1.5	±0.2
T1006	6	±0.35	20	±0.6	4	±0.3
T1008	8	±0.35	20	±0.6	6	±0.35

T11型 用于镶钨旋转钻进中软地层取岩心钻头

Type T11 For making rotarycemented carbide core drilling bits in drilling medium soft formations

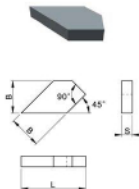


mm

型号 Type	尺寸 Dimension			
	B		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T1108	8.5	±0.35	3	±0.3
T1112	12	±0.5	4	±0.3

T12型 用于镶制旋转钻进中软地层取岩心钻头

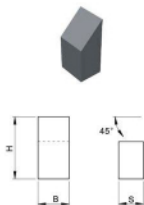
Type T12 For making rotary cemented carbide core drilling bits in drilling medium soft formations



型号 Type	尺寸 Dimension					
	B		L		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T1208	8.5	±0.35	17.5	±0.5	3	±0.3
T1212	12	±0.5	24	±0.6	4	±0.3

T20型 用于镶制旋转钻进刮刀钻头

Type T20 For making rotary scraping cemented carbide drill bits



型号 Type	尺寸 Dimension					
	B		H		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T2004	4	±0.3	15	±0.5	3.6	±0.3
T2005	5	±0.3	20	±0.6	4	±0.3
T2006	6	±0.35	20	±0.6	6	±0.35
T2008	8	±0.35	20	±0.6	6	±0.35
T2010	10	±0.35	20	±0.6	8	±0.35

T21型 用于镶钎钻进较硬地层取岩心钻头

Type T21 For making cemented core drilling bits for drilling soft formations

mm




型号 Type	尺寸 Dimension					
	B		H		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T2105	5	±0.3	7	±0.35	3	±0.3
T2105A	5	±0.3	8	±0.35	5	±0.3
T2105B	5	±0.3	10	±0.35	5	±0.3
T2105C	5	±0.3	13	±0.5	5	±0.3
T2107	7.5	±0.35	10	±0.35	3	±0.3
T2107A	7	±0.35	20	±0.6	7	±0.35
T2108	8.5	±0.35	8	±0.35	3	±0.3
T2110	10	±0.35	14	±0.5	4	±0.3
T2114	14	±0.5	25	±0.6	12	±0.5

T30型 用于镶钎钻进硬地层取岩心钻头

Type T30 For making cemented carbide core drilling bits for drilling soft formations

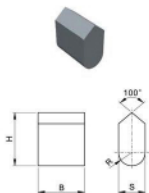
mm




型号 Type	尺寸 Dimension			
	D		H	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T3005	5	±0.3	10	±0.35
T3007	7	±0.35	10	±0.35
T3007A	7	±0.35	15	±0.5
T3007B	7	±0.35	20	±0.6
T3010	10	±0.35	15	±0.5
T3010B	10	±0.35	16	±0.5
T3010A	10	±0.35	20	±0.6

T40型 用于镶制冲击回转钻进破碎岩层钻头

Type T40 For making rotarypercussive drill bits for breaking rock formations

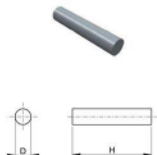


型号 Type	尺寸 Dimension						R
	B		H		S		
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	
T4010	10	±0.35	16	±0.5	8	±0.35	4
T4012	12	±0.5	16	±0.5	8	±0.35	4
T4014	14	±0.5	16	±0.5	8	±0.35	4

mm

T50型 用于钻进中硬地层自磨式取岩心钻头

Type T50 For making cemented carbide core drilling bits for medium hard formations

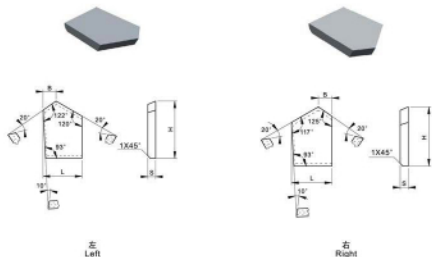


型号 Type	尺寸 Dimension			
	H		D	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
T5010	10	±0.35	1.8	±0.2
T5015	15	±0.5	1.8	±0.2
T5020	20	±0.6	2.0	±0.2

mm

M10型 用于镶制旋转钻进煤质和软岩钻头

Type M10 For making rotary drill bits for coal and soft rock formations

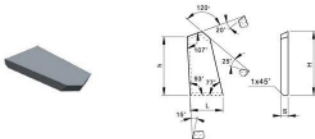


mm

型号 Type	尺寸 Dimension							
	L		H		S		B	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
M1011R	11	±0.35	12	±0.35	2.5	±0.2	4	±0.3
M1011L	11	±0.35	12	±0.35	2.5	±0.2	4	±0.3
M1013R	12.5	±0.5	12	±0.35	3	±0.2	4	±0.3
M1030L	12.5	±0.5	12	±0.35	3	±0.2	4	±0.3
M1014R	14	±0.5	19	±0.4	3.8	±0.3	4	±0.3
M1014L	14	±0.5	19	±0.4	3.8	±0.3	4	±0.3
M1015AR	15	±0.5	19	±0.5	3	±0.3	5	±0.3
M1015AL	15	±0.5	19	±0.5	3	±0.3	5	±0.3
M1015R	15	±0.5	22	±0.5	3.0	±0.3	5	±0.3
M1015L	15	±0.5	22	±0.5	3.0	±0.3	5	±0.3
M1018R	18	±0.5	22	±0.5	6.0	±0.3	5	±0.3
M1018	18	±0.5	22	±0.5	6.0	±0.3	5	±0.3

W11型 用于镶制回转钻进煤层和软岩层钻头

Type M11 For making rotary drill bits for coal and soft rock formations

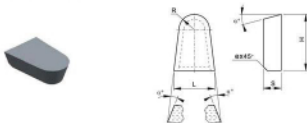


mm

型号 Type	尺寸 Dimension							
	L		H		h		S	
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.
M1112	12	±0.35	18	±0.5	15.8	±0.5	3	±0.3
M1113	13.4	±0.0	26	±0.5	23.8	±0.5	3	±0.3

W12型 用于镶制采掘机械截齿

Type M12 For making auger lips in excavators

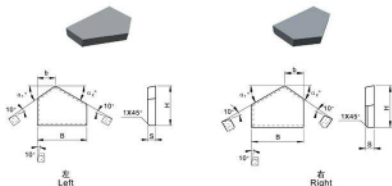


mm

型号 Type	尺寸 Dimension								
	L		H		S		R	α°	e
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
M1216	16	±0.5	22	±0.5	7	±0.3	6	15	1.0
M1220	20	±0.5	27	±0.5	8	±0.3	7	15	1.0
M1222	22	±0.5	22	±0.5	7.5	±0.3	9	10	1.5
M1230	30	±0.5	35	±0.5	12	±0.3	8	8	1.0

■14型 用于煤制采掘机械截齿

Type M14 For making auger tips in excavators



mm

型号 Type	尺寸 Dimension									
	B		H		S		b		α°	α'°
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.		
M1427R	27.5	±0.5	22	±0.5	4.5	±0.3	10	±0.35	30	30
M1427L	27.5	±0.5	22	±0.5	4.5	±0.3	10	±0.35	35	35
M1445R	45	±1.0	21	±0.5	9	±0.35	15	±0.5	31	17
M1445L	45	±1.0	21	±0.5	9	±0.35	15	±0.5	17	31

■20型 用于煤制采掘机械截齿

Type M20 For making auger tips in excavators

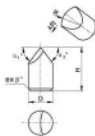


mm

型号 Type	尺寸 Dimension						
	D		H		r	α°	e
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
M2009	9	±0.3	16	±0.5	1.0	90	1.0
M2012A	12	±0.3	18	±0.5	1.5	82	1.0
M2012B	12	±0.3	20	±0.5	1.5	82	1.5
M2018	18	±0.4	32	±0.5	1.5	82	2.0

M21型 用于煤制采掘机械截齿和单牙轮钻头齿

Type M21 For making auger tips in excavators and buttons in tricone bits

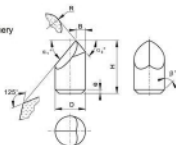


mm

型号 Type	尺寸 Dimension						α ₁ °	α ₂ °	α	β°
	D		H		R					
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.				
M2110A	10	±0.30	18	±0.5	8	±0.3	53	53	1.0	30
M2110B	10	±0.30	20	±0.5	5.5	±0.3	50	58	1.0	45
M2112A	12	±0.30	20	±0.5	6.5	±0.3	32	40	1.0	45
M2112B	12.5	±0.40	25	±0.5	10	±0.35	46	46	1.0	30
M2115	15	±0.40	22	±0.5	11	±0.35	45	45	2.5	30
M2118	18	±0.40	20	±0.5	14.4	±0.5	37	37	1.5	45

M22型 用于煤制采掘机械和联合采煤机截齿

Type M22 For making auger tips in excavators and coal machinery

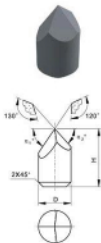


mm

型号 Type	尺寸 Dimension						α ₁ °	α ₂ °	B	e	β°
	D		H		R						
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.					
M2210A	10	±0.30	18	±0.5	8	±0.3	48	33	-	1	45
M2210B	10	±0.30	20	±0.5	8	±0.3	48	33	-	1	45
M2212A	12	±0.30	22	±0.5	9	±0.3	50	50	4	1	30
M2212B	12.5	±0.40	25	±0.5	9	±0.35	45	55	4	1	30
M2214	14	±0.40	22	±0.5	10	±0.35	55	49	-	2	45
M2216	16	±0.40	28	±0.5	8	±0.3	50	50	5	2	30
M2218	18	±0.40	21.5	±0.5	11	±0.35	52	52	-	2	30

M23 用于镶制采掘机械截齿

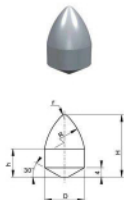
Type M23 Forming auger tips in excavators



型号 Type	尺寸 Dimension					
	D		H		h ₁ "	h ₂ "
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.		
M2312A	12	±0.30	22	±0.5	56	48
M2312B	12.5	±0.40	25	±0.5	56	48
M2314A	14	±0.40	22	±0.5	56	48
M2314B	14	±0.40	25	±0.5	56	48

M24 用于镶制采掘机械截齿

Type M24 Forming auger tips in excavators



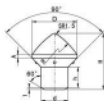
型号 Type	尺寸 Dimension						
	D		H		h	R	r
	基本尺寸 Dim.	允许偏差 Tol.	基本尺寸 Dim.	允许偏差 Tol.			
M2417A	17	±0.50	26.5	±0.5	12	26	1.75
M2417B	17	±0.50	26.5	±0.5	15	26	1.75

取煤钻

Auger



型号 Type	尺寸 dimension							
	D	H	h	SR1	SR2	α°	β°	
T1022178	8.99	16.80	10.80	1.90	1.60	77	140	
3T102778B	15.68	25.20	14.10	1.60	1.00	80	140	
3T1022178B	8.93	18.80	10.80	1.20	1.00	79	140	
3T1021278B	12.40	21.10	12.70	1.50	1.00	80	140	



型号 Type	尺寸 Dimension							
	D		H		H	h	R	A
	尺寸 Dim.	公差 Tol.	尺寸 Dim.	公差 Tol.				
JC-φ1822	18		10		22	8.0	30	1.5
JC-φ2025	20	-0.1	12	-0.1	25	10.0	35	1.5
JC-φ2027	20	-0.4	12	-0.4	27	10.5	35	4.0
JC-φ2228	22		14		28	12.0	40	1.5

牌号、性能及推荐用途

Properties and applications recommended

牌号 Grade		物理机械性能 Physical & mechanical properties			推荐用途 Applications recommended
首选牌号 Premier grade	补充牌号 Supplemental grades	密度 Density g/cm ³	典型值 Typical sample		
			硬度 Hardness HRA	抗弯强度 TRS N/mm ²	
YK05		14.80-14.96	89.5	2600	主要用作中等和小规格硬质合金球齿。供镶制牙轮钻和冲击钻具。钻进软和中硬岩层，同时也可作其它钻具用合金片。 It is mainly used for making small and medium sized buttons to be used in tri-cone and percussive drill bits for drilling soft and medium hard rock formations and it can also be used for cemented carbide inserts for other drilling bits.
YK10		14.60-14.76	88.0	2500	
	YK15.1	14.60-14.90	87.5	2700	
	YG6C	14.50-14.90	87.5	1815	
YK20.1		14.40-14.60	87.5	2900	主要用作合金球齿。供镶制牙轮钻和柱齿冲击钻具。钻进中硬和硬岩层，同时也可作其它钻具用合金片。 It is mainly used for buttons to be used in tri-cone drill bits and percussive buttons bits for drilling medium hard and hard rock formations and it can also be used for cemented carbide inserts for other drilling bits.
YK10		14.40-14.90	88.5	2800	
	YK25	14.30-14.70	87.6	3000	
YK25.1		14.40-14.56	87.5	2800	
YK30		14.32-14.46	86.5	2600	主要用作合金柱齿。镶制牙轮钻和冲击钻具。钻进硬岩层和坚硬岩层，同时也可作其它钻具用合金片。 It is mainly used for making cemented carbide buttons in tri-cone and percussive drill bits for drilling hard and super hard rock formations and it can also be used for inserts for other drilling bits.
	YG11C	14.10-14.50	87.8	2900	
	YK50	13.90-14.20	85.0	2900	

5 9 12 17 A - E 15 9
1 2 3 4 5 6 7 8

1 S-表示产品精度较高的球齿系列。

S-The series of buttons with a higher precision standard

2 球齿头部形状。

The shape of the top part of the button

Q: 球形 Z: 锥球形 D: 抛物线形 P: 平顶形 T: 平顶锥形
Q: Spherical Z: Spherical cone D: Parabolic P: Flat T: Conical flat
X: 楔形 B: 边楔形 S: 勺形 F: 尖爪形 J: 截煤齿形
X: Wedge B: Eccentric wedge S: Spoon F: Pointed claw J: Auger tip

3 表示球齿直径, 单位为: mm, 只取两位整数。(不足两位前面添“0”补足两位)。

The diameter of the button in mm. Only 2 integers are taken.
(If the diameter is only one integer, then it is preceded by zero).

4 表示球齿高度, 单位为: mm, 只取两位整数。(不足两位前面添“0”补足两位)。

The height of the button in mm. Only 2 integers are taken.
(If it is only one digit, then it is preceded by zero).

5 表示特殊头部结构, 标准头部结构此位缺省。

Special button top and it is omitted here.

6 表示球齿底部倒角的角度。

The angle of chamfer at the bottom of the button.

E-表示与轴心线夹角为 $15^{\circ} \sim 18^{\circ}$ 。

E-it indicates the included angle in relation to the center line of the axis is $15^{\circ} \sim 18^{\circ}$ 。

F-表示与轴心线夹角为 30° (特例: F2表示为 $0.7 \times 30^{\circ}$)

F-it indicates the included angle in relation to the center line of the axis is 30° (Exception: F2 indicates $0.7 \times 30^{\circ}$)

G-表示与轴心线夹角为 45°

G-it indicates the included angle in relation to the center line of the axis is 45°

X-表示与轴心线夹角为其它值或其它底部形状。

X-it indicates the included angle in relation to the center line of the axis is other figures or other bottom shapes.

7 表示底部倒角的高度, 数字为高度 (mm) 的10倍, 不足两位前面添“0”补足两位。

It indicates the height of the chamfer at the bottom and it is 10 times of the height in mm. If it is less than 2 integers, then it is preceded by zero.

8 表示底部容气孔结构。

It indicates airpocket structure at the bottom.

Q: 球形孔 Z: 锥形孔 J: 尖孔 无容气孔此位缺省。

Q: Spherical hole Z: Conical hole J: pointed hole It is omitted if there is no air pocket.

注: 如6、7位缺省, 表示为双倒角的球齿系列。

Note: If there are no positions of 6 and 7 or they are omitted, it belongs to the series of buttons with double chamfers

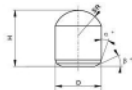
D、H尺寸公差标准

Standard of tolerances of D and H

直径(D) Diameter		高度(H) Height	
公称尺寸 Nominal size	允许偏差 Tolerance	公称尺寸 Nominal size	允许偏差 Tolerance
≤10	±0.10	≤11	±0.10
		11~18	±0.15
		18~25	±0.15
>10	±0.15	>25	±0.20

球形齿

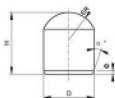
Spherical buttons



型号 Type	尺寸 Dimension				
	D	H	SR	α °	β °
SQ0610	6.25	9.9	3.4	20	26.5
SQ0812	8.25	12.2	4.4	20	26.5
SQ0914	9.25	13.9	5.0	20	26.5
SQ1019	10.25	18.9	5.5	20	27
SQ1119	11.30	19.0	6.0	20	27
SQ1221	12.35	20.9	6.6	20	28
SQ1220A-X	12.35	20.0	6.3	25	24.75
SQ1320	13.35	19.9	7.0	20	27
SQ1422	14.35	22.1	7.7	20	16
SQ1424A-X	14.35	24.0	7.34	25	25
SQ1625	16.35	24.9	8.8	20	16
SQ1930	19.35	30.4	9.76	20	30
SQ2132	21.65	31.9	11.8	20	30

球形齿

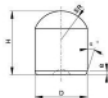
Spherical buttons



型号 Type	尺寸 Dimension				
	D	H	SR	e	α °
SQ0810-E15	8.25	10.0	4.4	1.5	18
SQ0812-E15	8.25	12.0	4.4	1.5	18
SQ1827-E15	18.25	27.1	9.2	1.5	18
SQ0812-F2	8.25	12.2	4.4	0.7	30
SQ0915-F2	9.25	14.9	5.0	0.7	30
SQ1013-F2	10.25	13.0	5.5	0.7	30
SQ1114-F2	11.30	14.0	6.0	0.7	30
SQ1216-F2	12.35	16.0	6.6	0.7	30
SQ1318-F2	13.35	18.0	7.0	0.7	30
SQ1418-F2	14.35	18.1	7.7	0.7	30
SQ1625-F2	16.35	24.6	8.8	0.7	30
SQ2030-F2	20.45	30.0	11.5	0.7	30
SQ2230-F2	22.45	30.0	12.0	0.7	30

球形齿

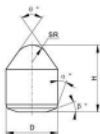
Spherical buttons



型号 Type	尺寸 Dimension				
	D	H	SR	e	α °
SQ1314-E15Q	13.35	13.5	7.0	1.5	18
SQ1320-E15Q	13.35	19.9	7.0	1.5	18
SQ1420A-E30Q	14.35	20.0	7.2	3.0	18
SQ1415B-E17Q	14.35	15.0	7.5	1.7	18
SQ1619A-E22Q	16.35	19.0	8.8	2.2	18
SQ1622A-E22Q	16.35	21.9	8.8	2.2	18

锥形齿

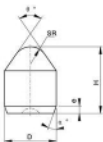
Conical buttons



型号 Type	尺寸 Dimension					
	D	H	α°	SR	β°	β°
SZ0812	8.25	12.2	70	3.0	20	27
SZ0913	9.25	13.3	70	3.0	20	26.5
SZ0915A	9.25	14.9	55	3.0	20	26.5
SZ1016	10.25	16.2	70	4.0	20	26.5
SZ1016A	10.25	16.2	52	4.0	20	26.5
SZ1116B	11.30	15.9	52	4.0	20	26.5
SZ1117C	11.30	17.4	60	4.0	20	26.5
SZ1118A	11.30	18.0	55	4.0	20	26.5
SZ1218A	12.35	17.9	55	4.8	20	28
SZ1218B	12.35	18.0	55	4.0	20	27
SZ1219	12.35	18.9	70	4.8	20	28
SZ1422A	14.35	21.9	55	5.0	20	14.5
SZ1424	14.35	23.9	67	3.0	20	15.5
SZ1420C	14.35	20.0	71.5	5.0	30	15.5

锥形齿

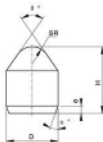
Conical buttons



型号 Type	尺寸 Dimension					
	D	H	α°	SR	e	α°
SZ1420X-G10Q	14.35	20.1	52	5.0	1.0	45
SZ1625A-E12Q	18.23	25.0	55	6.0	1.2	20
SZ1926B-E21Q	19.35	26.0	42	7.5	2.1	18

锥形齿

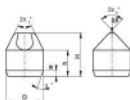
Conical buttons



型号 Type	尺寸 Dimension			Dimension		
	D	H	α°	SR	e	α°
SZ0711-F2	7.25	11.0	70	2.8	0.7	30
SZ0812-E15	8.25	12.0	70	3.0	1.5	18
SZ0812-F2	8.25	12.0	70	3.0	0.7	30
SZ0914-F2	9.25	14.0	70	3.0	0.7	30
SZ1018C-X	10.25	18.0	72	2.7	1.2	60
SZ1219-F2	12.35	18.9	70	4.8	0.7	30
SZ1222X-G10	12.35	22.0	52	2.0	1.0	45
SZ1320-F2	13.35	19.9	70	4.8	0.7	30
SZ1416B-E20	14.35	16.0	56	5.7	2.0	18
SZ1422C-E15	14.35	22.0	71	5.0	1.5	18

楔形齿

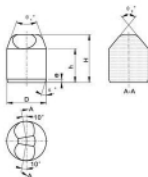
Wedge buttons



型号 Type	尺寸			Dimension					
	D	H	h	θ_1°	θ_2°	SR	e	α°	
SK0809-E10	8.25	9.0	5.5	22.5	45	1.35	1.0	20	
SK1013-E16	10.25	13.0	9.0	22.5	45	2.50	1.6	18	
SK1115-E15	11.25	15.0	8.0	22.5	30	2.75	1.5	18	
SK1114A-E13	11.30	14.0	8.1	21.5	37.5	3.50	1.3	20	
SK1117B-E13	11.30	17.1	9.1	20	28.5	3.00	1.3	20	
SK1118C-E11	11.30	17.8	10.1	17.5	25	3.15	1.1	18	
SK1621-E20	16.35	21.0	11.0	22.5	35	2.60	2.0	18	
SK1623-E20	16.35	23.0	12.0	18	30	3.00	2.0	18	

偏心齿

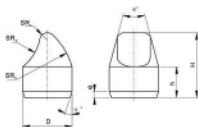
Eccentric wedge buttons



型号 Type	尺寸			Dimension			
	D	H	h	θ_1°	θ_2°	e	α°
SB1030-F10	10.25	13.3	7.00	0	12	1.0	30
SB1924-E22	19.35	24.0	15.00	40	70	2.2	18

勺形齿

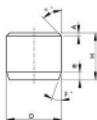
Spoon buttons



型号 Type	尺寸 Dimension								
	D	H	h	e	α°	SRa	SRb	SRc	β°
SS1621-E20	16.35	21.0	9.9	2.0	18	15.0	23.0	2.5	30
SS1623-E20	16.35	23.0	11.9	2.0	18	15.0	23.0	2.5	30
SS1624-E12	16.35	24.2	12.8	1.2	15	15.0	24.0	2.3	30
SS1930-E20	19.35	30.0	17.0	2.0	18	16.0	25.0	3.0	30

平顶齿

Flattop buttons



型号 Type	尺寸 Dimension					
	D	H	A	α°	e	β°
SP0807-E15	8.25	6.9	0.5	45	1.5	18
SP0908-E15	9.25	8.1	0.45	45	1.5	18
SP1010A-G15	10.20	10.0	2.0	45	1.5	45
SP1008-E16	10.25	8.0	0.5	45	1.6	18
SP1010-E16	10.25	9.5	0.5	45	1.6	18
SP1108-E15	11.25	8.0	0.5	45	1.5	18

抛物线形齿

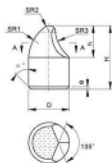
Parabolic buttons



型号 Type	尺寸 Dimension			尺寸 Dimension		
	D	H	SR1	SR2	α°	β°
SD1222	12.35	21.9	3.0	16.0	20	63
SD1223A-X	12.35	22.6	4.6	13.3	25	65
SD1223B-X	12.35	23.0	3.0	12.0	25	65
SD1427A-X	14.35	26.7	5.3	15.4	25	65

尖爪齿

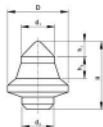
Pointed claw buttons



型号 Type	尺寸 Dimension				尺寸 Dimension				
	D	H	h	SR1	SR2	2-R3	e	α°	
SF1420	14.35	20.00	10.00	12.00	2.00	14.00	0.7	30	
SF1621	16.35	21.00	10.00	14.00	2.50	16.00	0.7	30	
SF1625	16.35	25.00	12.50	16.00	2.50	18.00	0.7	30	

抛物齿

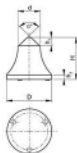
Parabolic buttons



型号 Type	尺寸 Dimension			尺寸 Dimension		
	D	d1	d2	H	h1	h2
MP31622	18.0	10.0	9.5	20.15	4.5	6.5

抛物齿

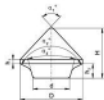
Parabolic buttons



型号 Type	尺寸 Dimension			尺寸 Dimension		
	D	d	H	h1	h2	α°
3T10416T	16.07	8.0	15.08	3.00	1.8	92
3T10427T	18.75	9.5	17.76	3.75	1.5	83
3T10434T	17.86	9.6	17.16	3.84	1.6	82

挖鞋齿

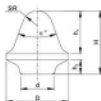
Parabolic buttons



型号 Type	尺寸				Dimension			
	D	d	H	h_1	h_2	α_1	α_2	α_3
JGQ25/61-3	15.0	8.8	11.0	1.0	3.5	95	126	30

挖鞋齿

Parabolic buttons



型号 Type	尺寸				Dimension		
	D	d	H	h_1	h_2	SR	α
MA97111-2	16.4	8.8	16.6	11.3	3.8	4.0	40