



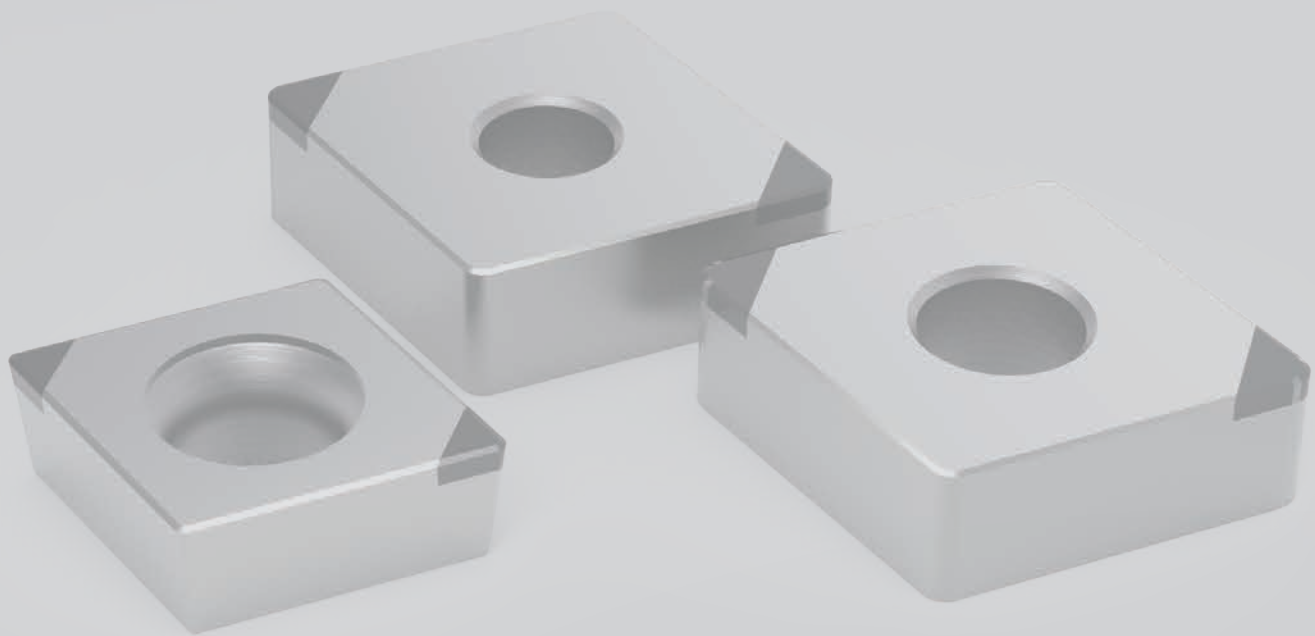
WORLDIA
沃尔德

2019
03-8-V1.0



PCBN数控刀片
【 铸铁加工 】

北京沃尔德金刚石工具股份有限公司
BEIJING WORLDIA DIAMOND TOOLS CO.,LTD.



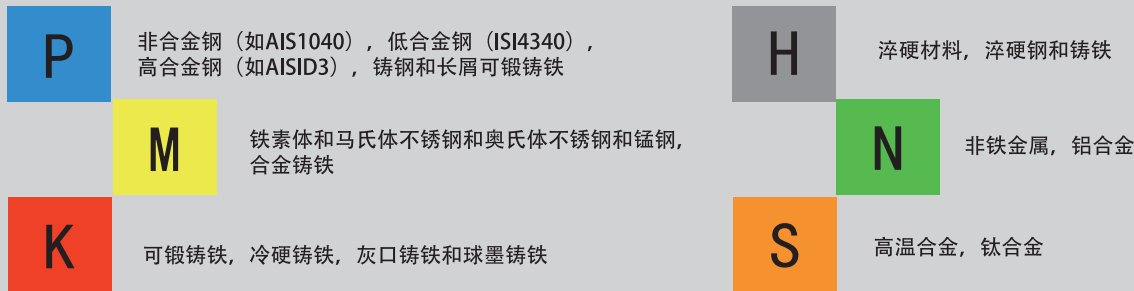
沃尔德®PCBN数控刀片主要应用于工程机械及交通行业，加工铸铁类工件；例如发动机缸体、阀体、液压系统、刹车盘等。

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■工件材料分类 ISO513标准



沃尔德®PCBN材料介绍

立方氮化硼 (CBN) 在1957年制造成功, 成为一种新型人造超硬材料, CBN的硬度仅次于金刚石, CBN单晶的显微硬度为HV8000~9000, 是目前已知的第二高硬度的物质, PCBN的硬度一般为 HV2500~5000。因此用于加工高硬度材料时具有比硬质合金及陶瓷更高的耐磨性, CBN具有很高的抗氧化能力, 在 1000℃时也不产生氧化现象, 与铁系材料在1200~1300℃时也不发生化学反应, 所以使用CBN刀具时往往采用干切方式因此 CBN材料在加工黑色金属材料方面具有独到之处。现在已经成为难加工材料的优选材料, 其应用加工领域为: 淬火钢, 铸铁, 高温合金和粉末冶金。



■刀片材料编码说明

PN	K01	19
PCBN	使用分类代号	材料代号

材料种类	使用分类代号	材料代号	特性	
PN	K01	19	速度 ↑	耐磨性 ↑
	K30		断续 ↓	韧性 ↓

■PCBN种类 (专为加工K系列铸铁所开发)

工件材质	PCBN牌号	CBN含量.%	粒度.μm	硬度 (Hv)	特性
K	PNK0117	85~90	5	3700~3900	优秀的耐磨性
	PNK0119	90~95	2	3700~3900	耐磨性与抗冲击性的组合
	PNK0121	60~70	2	2700~2900	优秀的韧性
	PNK3017	85~90	1	3700~3900	耐磨性与抗冲击性的组合

■推荐切削条件

牌 号	切削条件		
	切削速度,vc (m/min)	进给,fn (mm/r)	适用范围
PNK0117	300 450 800 1200 	0.1 0.15 0.2 0.5 	灰铁连续加工
PNK0119	300 450 800 1200 	0.1 0.15 0.2 0.5 	灰铁连续及轻断续加工
PNK0121	200 350 450 500 	0.1 0.2 0.3 	难加工铸铁连续及断续加工
PNK3017	300 450 800 1200 	0.1 0.15 0.2 0.5 	灰铁强断续加工

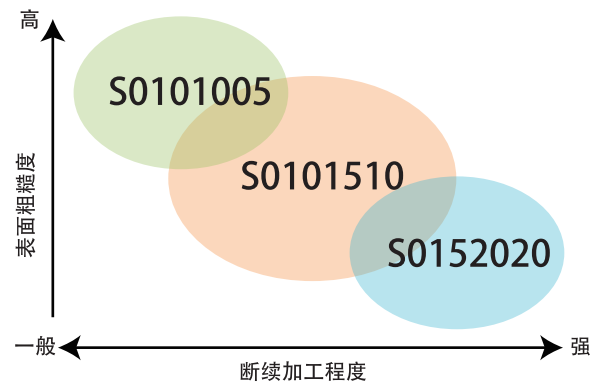
■PCBN数控刀片刃口形式

锋利型: S0101005

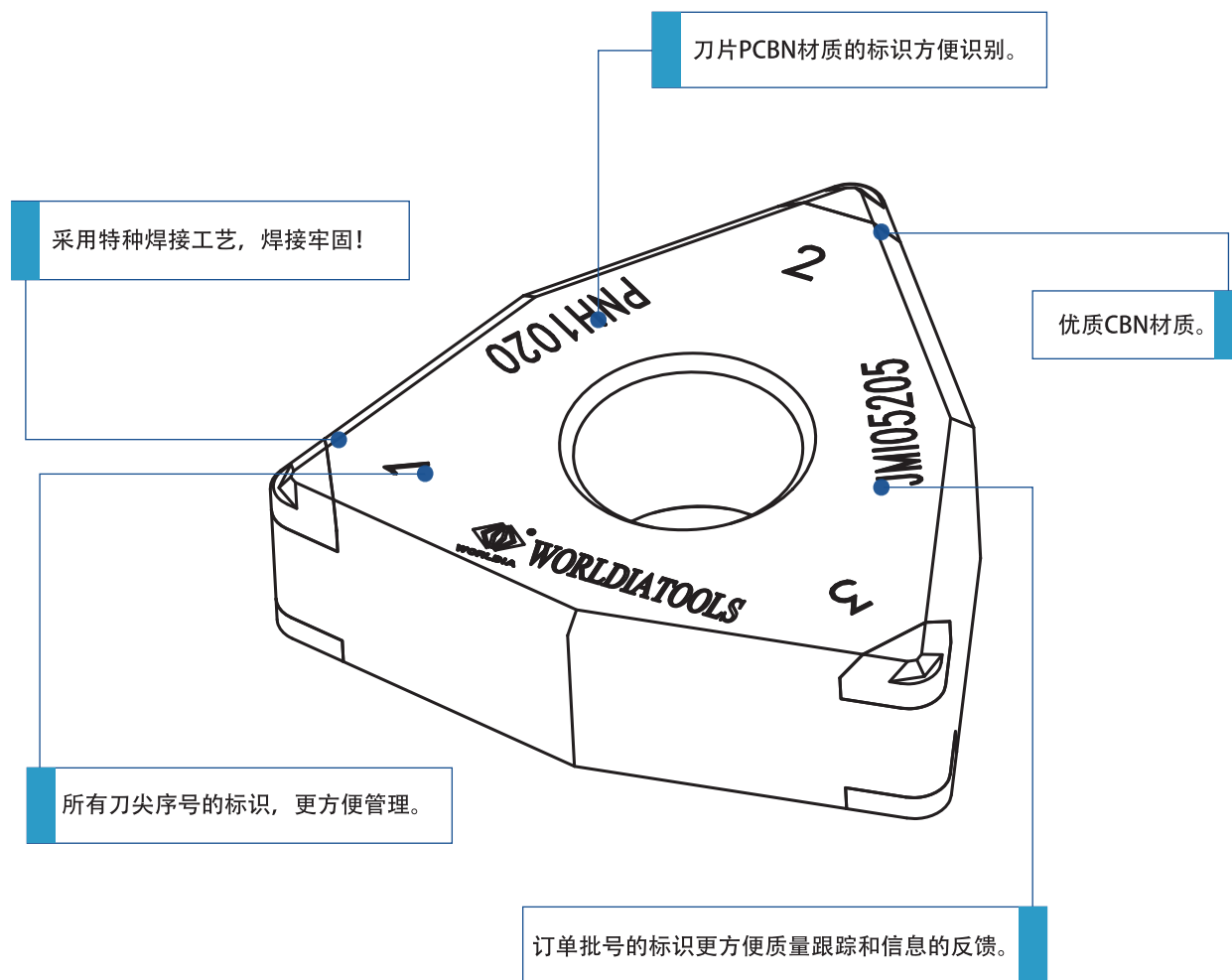
标准型: S0101510

增强型: S0152020

■推荐刃口形式



沃尔德®PCBN数控刀片标记识别

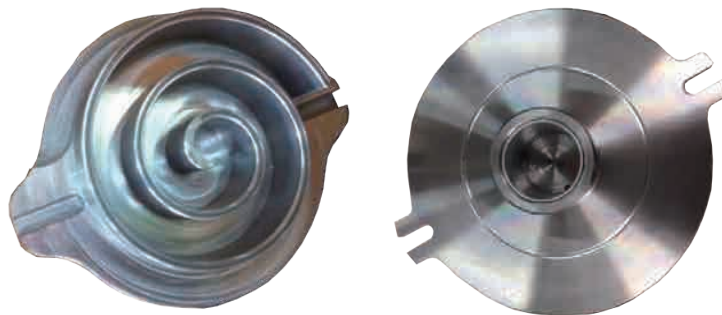
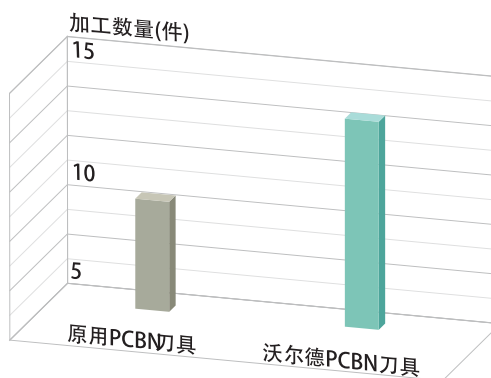


沃尔德®PCBN数控刀片加工案例

■ 空调压缩机涡旋、动旋

精加工端面及内孔

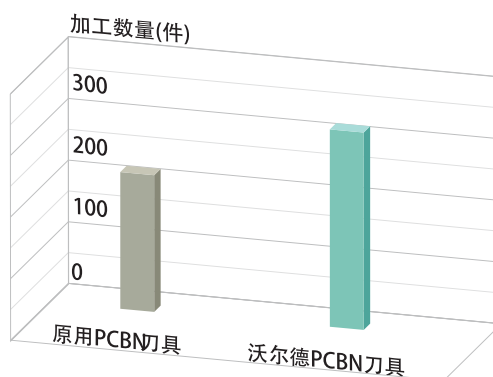
刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK0121
刀片规格	DCGW11T308-2N	DCGW11T308-2N
线速度Vc(m/min)	377	377
进给速度f(mm/r)	0.07	0.1
切削深度ap(mm)	0.1	0.1
加工数量(件)	9	13
单刃寿命对比	100%	145%



■ 发动机缸体

精加工内孔

刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK3017
刀片规格	SNGA090308-4N	SNGA090308-4N
线速度Vc(m/min)	570	570
进给速度f(mm/r)	0.3	0.3
切削深度ap(mm)	0.2	0.2
加工数量(件)	212	304
单刃寿命对比	100%	143%

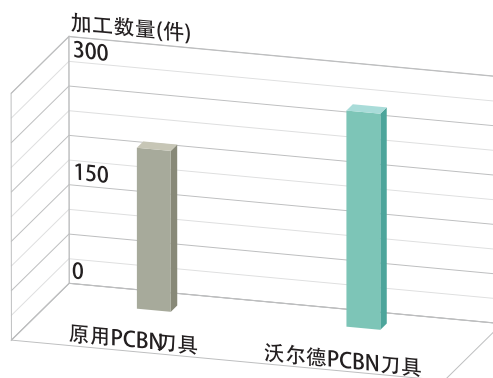


沃尔德®PCBN数控刀片加工案例

■ 刹车盘

精加工端面

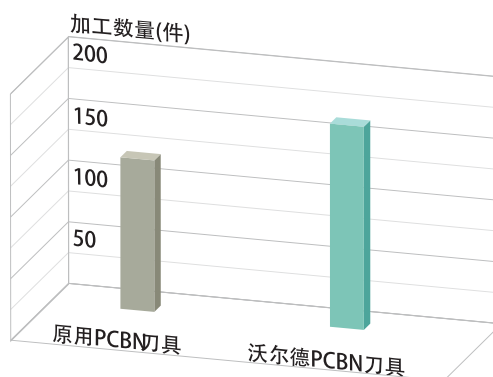
刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK0117
刀片规格	SCGN090408-4N	SCGN090408-4N
线速度Vc(m/min)	700	700
进给速度f(mm/r)	0.3	0.3
切削深度ap(mm)	0.5	0.5
加工数量(件)	200	262
单刃寿命对比	100%	130%



■ 涡轮壳

精加工内孔

刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK0121
刀片规格	TCGW090204-3N	TCGW090204-3N
线速度Vc(m/min)	180	180
进给速度f(mm/r)	0.056	0.056
切削深度ap(mm)	0.1	0.1
加工数量(件)	120	155
单刃寿命对比	100%	129%

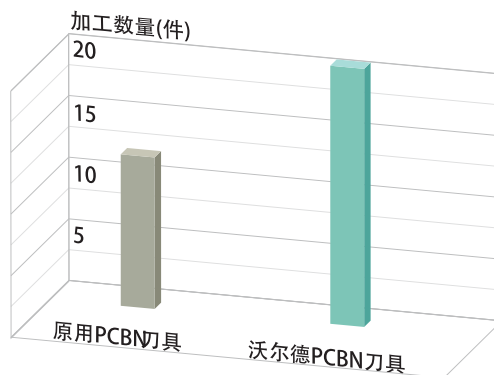


沃尔德®PCBN数控刀片加工案例

汽车差速器

精加工外圆、端面

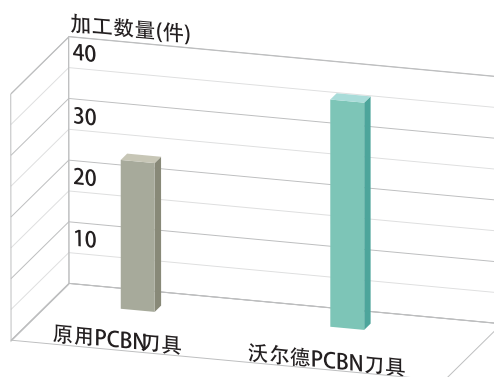
刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK0121
刀片规格	DNGA150608-2N	DNGA150608-2N
线速度Vc(m/min)	220	220
进给速度f(mm/r)	0.11	0.11
切削深度ap(mm)	0.5	0.5
加工数量(件)	12	20
单刃寿命对比	100%	167%



工程机械配件

精加工外圆、端面

刀片材质	原用PCBN刀具	沃尔德PCBN刀具 PNK0121
刀片规格	DNGA150408-2N	DNGA150608-2N
线速度Vc(m/min)	130	130
进给速度f(mm/r)	0.2	0.2
切削深度ap(mm)	0.15	0.15
加工数量(件)	22	35
单刃寿命对比	100%	159%



ISO	C	C	M	W	09	T3	04	1	N	S	010	20	05	CB	ST	30	S	PNK0119
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

ANSI	C	C	M	W	3(2.5)	1	1	N	S	010	20	05	CB	ST	30	S	PNK0119	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

沃尔德®PCBN数控刀片编码规则

1 刀片形状			
	H	正六边形 120°	菱形
	O	正八边形 135°	
	P	正五边形 108°	
	R	圆形	六边形
	S	正方形 90°	
	T	正三角形 60°	长方形 90°
			平行四边形 85°
			A 85°
			B 82°
			K 55°

3 公差		Tolerance-ANSI					
代号	允差mm			Code	inch		
级	刀尖高m	厚度s	内切圆IC		m	ic	s
C	±0.013	±0.025	±0.025	C	±.0005	±.001	±.001
H	±0.013	±0.025	±0.013	H	±.0005	±.0005	±.001
E	±0.025	±0.025	±0.025	E	±.001	±.001	±.001
G	±0.025	±0.13	±0.025	G	±.001	±.001	±.005
K	±0.013	±0.025	±0.05~±0.13	K	±.0005	±.002-.005	±.001
M	±0.08~±0.18	±0.13	±0.05~±0.13	M	±.002-.005	±.002-.005	±.005
U	±0.13~±0.38	±0.13	±0.08~±0.25	U	±.005-.012	±.005-.010	±.005

2 刀片后角			
	A		E
	B		F
	C		G
	D		N
			P
			O

5 内切圆直径							
ISO				ANSI			
切刃长度 (按刀片形状)				内切圆直径			
C	D	R	S	T	V	W	mm
Code				IC Size			
				inch			
S4	04	03	03	06	-	-	3.97
	(1.2)					5/32	
04	05	04	04	08	08	S3	4.76
	(1.5)					3/16	
05	06	05	05	09	09	03	5.56
	(1.8)					7/32	
06	07	06	06	11	11	04	6.35
	2					1/4	
08	09	07	07	13	13	05	7.94
	(2.5)					5/16	
-	-	08	-	-	-	-	8
	-					-	
09	11	09	09	16	16	06	9.525
	3					3/8	
-	-	10	-	-	-	-	10
	-					-	
-	-	12	-	-	-	-	12
	-					-	
12	15	12	12	22	22	08	12.7
	4					1/2	
16	19	15	15	27	27	10	15.875
	5					5/8	
-	-	16	-	-	-	-	16
	-					-	
19	23	19	19	33	33	13	19.05
	6					3/4	
-	-	20	-	-	-	-	20
	-					-	
22	27	22	22	38	38	15	22.225
	7					7/8	
-	-	25	-	-	-	-	25
	-					-	
25	31	25	25	44	44	17	25.4
	8					1	
32	38	31	31	54	54	21	31.75
	10					1-1/4	
-	-	32	-	-	-	-	32
	-					-	

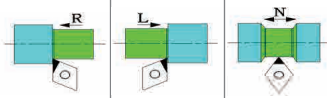
6 刀片厚度			
ISO		ANSI	
代号	尺寸	Code	Size
S	mm	S	inch
01	1.59	1	1/16
02	2.38	(1.5)	3/32
03	3.18	2	1/8
T3	3.97	(2.5)	5/32
04	4.76	3	3/16
05	5.56	(3.5)	7/32
06	6.35	4	1/4
07	7.94	5	5/16
09	9.525	6	3/8

7 刀片R角			
ISO		ANSI	
代号	尺寸	Code	Size
Rc	mm	Rc	inch
00	锋利	00	.000
003	0.03	(0.1)	.001
01	0.1	(0.2)	.004
02	0.2	(0.5)	.008
04	0.4	1	1/64
08	0.8	2	1/32
12	1.2	3	3/64
16	1.6	4	1/16
20	2.0	5	5/64
24	2.4	6	3/32
28	2.8	7	7/64
32	3.2	8	1/8
M0	圆形刀片	0	circular


4 固定、断削槽			
	N		G
	B		H
	R		W
	F		T
	C		A
	Q		J
	M		U
			其它异形 X

8 刃数						
代号	1	2	3	4	6	8
含义	一刃	二刃	三刃	四刃	六刃	八刃

9 切削方向			
代号	R	L	N
含义	正手	反手	无方向



10 主切刃形状			
E	T	S	F
钝化	倒棱	倒棱+钝化	锋利刃口




11 倒棱宽度						
代号	000	005	010	015	020	030
尺寸	-	0.05	0.1	0.15	0.2	0.3

12 倒棱角度									
代号	α	00	10	15	20	25	30	35	45
尺寸	°	-	10	15	20	25	30	35	45

13 倒圆大小						
代号	00	02	05	10	20	30
尺寸	-	0.002	0.005	0.01	0.02	0.03

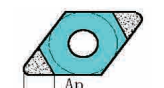
14 刀片结构						
SF	SL	SS	CB	CS	SWW	SWU
整面复合片	整体CBN局部	整体CBN	CBN复合片标准	CBN复合片整条边	整体CBN(W形)贯穿	整体CBN(U形)贯穿



15 刃口形式		
ST	WG	CB
圆角R刀片	修光刃	断屑槽刀片



16 主切刃长度						
代号	Ap	22	25	28	30	40
尺寸		2.2	2.5	2.8	3.0	4.0



17 表面处理形式			
S	标准未涂层	C1	涂层
		研发中	

沃尔德®迷你型PCBN数控刀片规格型号

CC 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CCGW060202-1NS0101005	CBST22S	●	●	●	●	CCGW2(1.5)(0.5)-1NS0101005	CBST22S	6.35	2.8	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060204-1NS0101005		●	●	●	●	CCGW2(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060208-1NS0101005		●	●	●	●	CCGW2(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060202-2NS0101005	CBST22S	●	●	●	●	CCGW2(1.5)(0.5)-2NS0101005	CBST22S	6.35	2.8	2.38	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060204-2NS0101005		●	●	●	●	CCGW2(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060208-2NS0101005		●	●	●	●	CCGW2(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

CC 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CCGW09T302-1NS0101005	CBST22S	●	●	●	●	CCGW3(1.5)(0.5)-1NS0101005	CBST22S	9.525	4.4	3.97	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW09T304-1NS0101005		●	●	●	●	CCGW3(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW09T308-1NS0101005		●	●	●	●	CCGW3(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW09T302-2NS0101005	CBST22S	●	●	●	●	CCGW3(1.5)(0.5)-2NS0101005	CBST22S	9.525	4.4	3.97	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW09T304-2NS0101005		●	●	●	●	CCGW3(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW09T308-2NS0101005		●	●	●	●	CCGW3(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

CC 80° 菱形 • 正型 • 有孔



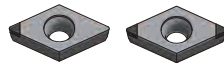
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	CCGW120402-1NS0101005	CBST22S	●	●	●	●	CCGW43(0.5)-1NS0101005	CBST22S	12.7	5.5	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120404-1NS0101005		●	●	●	●	CCGW431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120408-1NS0101005		●	●	●	●	CCGW432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120412-1NS0101005		●	●	●	●	CCGW433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	CCGW120402-2NS0101005	CBST22S	●	●	●	●	CCGW43(0.5)-2NS0101005	CBST22S	12.7	5.5	4.76	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120404-2NS0101005		●	●	●	●	CCGW431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120408-2NS0101005		●	●	●	●	CCGW432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120412-2NS0101005		●	●	●	●	CCGW433-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

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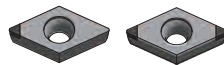
DC 55° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK017			ic	ød	s	r	la
	DCGW070202-1NS0101005	CBST22S	●	●	●	●	DCGW2(1.5)(0.5)-1NS0101005	CBST22S	6.35	2.8	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070204-1NS0101005		●	●	●	●	DCGW2(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070208-1NS0101005		●	●	●	●	DCGW2(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070202-2NS0101005	CBST22S	●	●	●	●	DCGW2(1.5)(0.5)-2NS0101005	CBST22S	6.35	2.8	2.38	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW070204-2NS0101005		●	●	●	●	DCGW2(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW070208-2NS0101005		●	●	●	●	DCGW2(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK017			ic	ød	s	r	la
	DCGW11T302-1NS0101005	CBST22S	●	●	●	●	DCGW3(2.5)(0.5)-1NS0101005	CBST22S	9.525	4.4	3.97	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T304-1NS0101005		●	●	●	●	DCGW3(2.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T308-1NS0101005		●	●	●	●	DCGW3(2.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T312-1NS0101005	CBST22S	●	●	●	●	DCGW3(2.5)3-1NS0101005	CBST22S	9.525	4.4	3.97	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T302-2NS0101005		●	●	●	●	DCGW3(2.5)(0.5)-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW11T304-2NS0101005		●	●	●	●	DCGW3(2.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
DCGW11T308-2NS0101005	●	●	●	●	DCGW3(2.5)2-2NS0101005								
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
DCGW11T312-2NS0101005	●	●	●	●	DCGW3(2.5)3-2NS0101005								
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW080202-1NS0101005	CBST22S	●	●	●	●	TPGW(1.5)(1.5)(0.5)-1NS0101005	CBST22S	4.76	2.4	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW080204-1NS0101005		●	●	●	●	TPGW(1.5)(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW080202-3NS0101005	CBST22S	●	●	●	●	TPGW(1.5)(1.5)(0.5)-3NS0101005	CBST22S	4.76	2.4	2.38	0.4	2.2
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW080204-3NS0101005		●	●	●	●	TPGW(1.5)(1.5)1-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW090202-1NS0101005	CBST22S	●	●	●	●	TPGW(1.8)(1.5)(0.5)-1NS0101005	CBST22S	5.56	2.8	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090204-1NS0101005		●	●	●	●	TPGW(1.8)(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090208-1NS0101005	CBST22S	●	●	●	●	TPGW(1.8)(1.5)2-1NS0101005	CBST22S	5.56	2.8	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090202-3NS0101005		●	●	●	●	TPGW(1.8)(1.5)(0.5)-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW090204-3NS0101005	CBST22S	●	●	●	●	TPGW(1.8)(1.5)1-3NS0101005	CBST22S	5.56	2.8	2.38	0.4	2.2
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW090208-3NS0101005		●	●	●	●	TPGW(1.8)(1.5)2-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW110302-1NS0101005	CBST22S	●	●	●	●	TPGW22(0.5)-1NS0101005	CBST22S	6.35	3.3	3.18	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW110304-1NS0101005		●	●	●	●	TPGW221-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW110302-3NS0101005	CBST22S	●	●	●	●	TPGW22(0.5)-3NS0101005	CBST22S	6.35	3.3	3.18	0.4	2.2
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152520		●	●	●	●	-3NS0152020						
	TPGW110304-3NS0101005		●	●	●	●	TPGW221-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW160302-1NS0101005	CBST22S	●	●	●	●	TPGW32(0.5)-1NS0101005	CBST22S	9.525	4.4	3.18	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160304-1NS0101005		●	●	●	●	TPGW321-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160308-1NS0101005	CBST22S	●	●	●	●	TPGW322-1NS0101005	CBST22S	9.525	4.4	3.18	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160302-3NS0101005		●	●	●	●	TPGW32(0.5)-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW160304-3NS0101005	CBST22S	●	●	●	●	TPGW321-3NS0101005	CBST22S	9.525	4.4	3.18	0.4	2.2
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW160308-3NS0101005		●	●	●	●	TPGW322-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	TPGW160402-1NS0101005	CBST22S	●	●	●	●	CBST22S	9.525	4.4	4.76	0.4	2.2	TPGW33(0.5)-1NS0101005
	-1NS0101510		●	●	●	●							-1NS0101510
	-1NS0152020		●	●	●	●							-1NS0152020
	TPGW160404-1NS0101005		●	●	●	●							TPGW331-1NS0101005
	-1NS0101510		●	●	●	●							-1NS0101510
	-1NS0152020		●	●	●	●							-1NS0152020
	TPGW160408-1NS0101005		●	●	●	●							TPGW332-1NS0101005
	-1NS0101510		●	●	●	●							-1NS0101510
	-1NS0152020		●	●	●	●							-1NS0152020
	TPGW160402-3NS0101005	CBST22S	●	●	●	●	CBST22S	9.525	4.4	4.76	0.4	2.2	TPGW33(0.5)-3NS0101005
	-3NS0101510		●	●	●	●							-3NS0101510
	-3NS0152020		●	●	●	●							-3NS0152020
	TPGW160404-3NS0101005		●	●	●	●							TPGW331-3NS0101005
	-3NS0101510		●	●	●	●							-3NS0101510
	-3NS0152020		●	●	●	●							-3NS0152020
	TPGW160408-3NS0101005		●	●	●	●							TPGW332-3NS0101005
	-3NS0101510		●	●	●	●							-3NS0101510
	-3NS0152020		●	●	●	●							-3NS0152020

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VBGW110302-1NS0101005	CBST22S	●	●	●	●	VBGW22(0.5)-1NS0101005	CBST22S	6.35	2.8	3.18	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110304-1NS0101005		●	●	●	●	VBGW221-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110308-1NS0101005		●	●	●	●	VBGW222-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110302-2NS0101005	CBST22S	●	●	●	●	VBGW22(0.5)-2NS0101005	CBST22S	6.35	2.8	3.18	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW110304-2NS0101005		●	●	●	●	VBGW221-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW110308-2NS0101005		●	●	●	●	VBGW222-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VBGW160402-1NS0101005	CBST22S	●	●	●	●	VBGW33(0.5)-1NS0101005	CBST22S	9.525	4.4	4.76	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160404-1NS0101005		●	●	●	●	VBGW331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160408-1NS0101005		●	●	●	●	VBGW332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160412-1NS0101005	CBST22S	●	●	●	●	VBGW333-1NS0101005	CBST22S	9.525	4.4	4.76	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160402-2NS0101005		●	●	●	●	VBGW33(0.5)-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW160404-2NS0101005		●	●	●	●	VBGW331-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW160408-2NS0101005	CBST22S	●	●	●	●	VBGW332-2NS0101005	CBST22S	9.525	4.4	4.76	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW160412-2NS0101005		●	●	●	●	VBGW333-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW160412-2NS0101005		●	●	●	●	VBGW333-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)-2NS0101510 CBST22S PNK0117

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VCGW080202-1NS0101005	CBST22S	●	●	●	●	VCGW(1.5)(1.5)(0.5)-1NS0101005	CBST22S	4.76	2.2	2.38	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW080204-1NS0101005		●	●	●	●	VCGW(1.5)(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW080208-1NS0101005		●	●	●	●	VCGW(1.5)(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW080202-2NS0101005	CBST22S	●	●	●	●	VCGW(1.5)(1.5)(0.5)-2NS0101005	CBST22S	4.76	2.2	2.38	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW080204-2NS0101005		●	●	●	●	VCGW(1.5)(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW080208-2NS0101005		●	●	●	●	VCGW(1.5)(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

VC 35° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VCGW110302-1NS0101005	CBST22S	●	●	●	●	VCGW22(0.5)-1NS0101005	CBST22S	6.35	2.8	3.18	0.4	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW110304-1NS0101005		●	●	●	●	VCGW221-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW110308-1NS0101005		●	●	●	●	VCGW222-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW110302-2NS0101005	CBST22S	●	●	●	●	VCGW22(0.5)-2NS0101005	CBST22S	6.35	2.8	3.18	0.4	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW110304-2NS0101005		●	●	●	●	VCGW221-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW110308-2NS0101005		●	●	●	●	VCGW222-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

VC 35° 菱形 • 正型 • 有孔



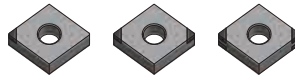
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	VCGW160402-1NS0101005	CBST22S	●	●	●	●	VCGW33(0.5)-1NS0101005	CBST22S	9.525	4.4	2.38	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160404-1NS0101005		●	●	●	●	VCGW331-1NS0101005					0.4	
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160408-1NS0101005		●	●	●	●	VCGW332-1NS0101005					0.8	
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160402-2NS0101005	CBST22S	●	●	●	●	VCGW33(0.5)-2NS0101005	CBST22S	9.525	4.4	2.38	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW160404-2NS0101005		●	●	●	●	VCGW331-2NS0101005					0.4	
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW160408-2NS0101005		●	●	●	●	VCGW332-2NS0101005					0.8	
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例：公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

CN 80° 菱形 • 负型 • 有孔



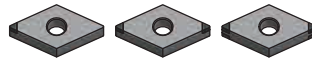
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CNGA120402-1NS0101005	CBST22S	●	●	●	●	CNGA43(0.5)-1NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120404-1NS0101005		●	●	●	●	CNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120408-1NS0101005		●	●	●	●	CNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120412-1NS0101005		●	●	●	●	CNGA433-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120402-2NS0101005	CBST22S	●	●	●	●	CNGA43(0.5)-2NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120404-2NS0101005		●	●	●	●	CNGA431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120408-2NS0101005		●	●	●	●	CNGA432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120412-2NS0101005		●	●	●	●	CNGA433-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120402-4NS0101005	CBST22S	●	●	●	●	CNGA43(0.5)-4NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120404-4NS0101005		●	●	●	●	CNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120408-4NS0101005		●	●	●	●	CNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120412-4NS0101005		●	●	●	●	CNGA433-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

DN 55° 菱形 • 负型 • 有孔



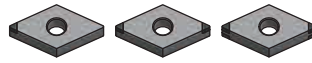
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	DNGA150402-1NS0101005	CBST22S	●	●	●	●	DNGA43(0.5)-1NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150404-1NS0101005		●	●	●	●	DNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150408-1NS0101005		●	●	●	●	DNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150402-2NS0101005	CBST22S	●	●	●	●	DNGA43(0.5)-2NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150404-2NS0101005		●	●	●	●	DNGA431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150408-2NS0101005		●	●	●	●	DNGA432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150402-4NS0101005	CBST22S	●	●	●	●	DNGA43(0.5)-4NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150404-4NS0101005		●	●	●	●	DNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150408-4NS0101005		●	●	●	●	DNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
DNGA150412-4NS0101005	●	●	●	●	DNGA433-4NS0101005								
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

DN 55° 菱形 • 负型 • 有孔



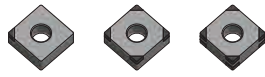
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	DNGA150602-1NS0101005	CBST22S	●	●	●	●	DNGA44(0.5)-1NS0101005	CBST22S	12.7	5.16	6.35	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150604-1NS0101005		●	●	●	●	DNGA441-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150608-1NS0101005		●	●	●	●	DNGA442-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150612-1NS0101005		●	●	●	●	DNGA443-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150602-2NS0101005	CBST22S	●	●	●	●	DNGA44(0.5)-2NS0101005	CBST22S	12.7	5.16	6.35	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150604-2NS0101005		●	●	●	●	DNGA441-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150608-2NS0101005		●	●	●	●	DNGA442-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150612-2NS0101005		●	●	●	●	DNGA443-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150602-4NS0101005	CBST22S	●	●	●	●	DNGA44(0.5)-4NS0101005	CBST22S	12.7	5.16	6.35	0.2	2.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150604-4NS0101005		●	●	●	●	DNGA441-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150608-4NS0101005		●	●	●	●	DNGA442-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150612-4NS0101005		●	●	●	●	DNGA443-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

SN 90° 正方形 • 负型 • 有孔



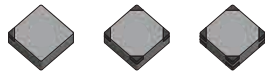
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	SNGA120402-1NS0101005	CBST22S	●	●	●	●	SNGA43(0.5)-1NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120404-1NS0101005		●	●	●	●	SNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120408-1NS0101005		●	●	●	●	SNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120412-1NS0101005		●	●	●	●	SNGA433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	SNGA120402-4NS0101005	CBST22S	●	●	●	●	SNGA43(0.5)-4NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120404-4NS0101005		●	●	●	●	SNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120408-4NS0101005		●	●	●	●	SNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120412-4NS0101005		●	●	●	●	SNGA433-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								
	SNGA120402-8NS0101005	CBST22S	●	●	●	●	SNGA43(0.5)-8NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120404-8NS0101005		●	●	●	●	SNGA431-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120408-8NS0101005		●	●	●	●	SNGA432-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120412-8NS0101005		●	●	●	●	SNGA433-8NS0101005						
-8NS0101510	●	●	●	●	-8NS0101510								
-8NS0152020	●	●	●	●	-8NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

SN 90° 正方形 • 负型 • 无孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0121	PNK3017			ic	ød	s	r	la
	SNGN090402-1NS0101005	CBST22S	●	●	●	SNGN33(0.5)-1NS0101005	CBST22S	9.525	-	4.76	0.2	2.2
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	SNGN090404-1NS0101005		●	●	●	SNGN331-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	SNGN090408-1NS0101005		●	●	●	SNGN332-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	SNGN090412-1NS0101005		●	●	●	SNGN333-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	SNGN090402-4NS0101005	CBST22S	●	●	●	SNGN33(0.5)-4NS0101005	CBST22S	9.525	-	4.76	0.2	2.2
	-4NS0101510		●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	-4NS0152020						
	SNGN090404-4NS0101005		●	●	●	SNGN331-4NS0101005						
	-4NS0101510		●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	-4NS0152020						
	SNGN090408-4NS0101005		●	●	●	SNGN332-4NS0101005						
	-4NS0101510		●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	-4NS0152020						
	SNGN090412-4NS0101005		●	●	●	SNGN333-4NS0101005						
	-4NS0101510		●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	-4NS0152020						
	SNGN090402-8NS0101005	CBST22S	●	●	●	SNGN33(0.5)-8NS0101005	CBST22S	9.525	-	4.76	0.2	2.2
	-8NS0101510		●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	-8NS0152020						
	SNGN090404-8NS0101005		●	●	●	SNGN331-8NS0101005						
	-8NS0101510		●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	-8NS0152020						
	SNGN090408-8NS0101005		●	●	●	SNGN332-8NS0101005						
	-8NS0101510		●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	-8NS0152020						
	SNGN090412-8NS0101005		●	●	●	SNGN333-8NS0101005						
	-8NS0101510		●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	-8NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

TN 60° 三角形 • 负型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0121	PNK3017			ic	ød	s	r	la
	TNGA160402-1NS0101005	CBST22S	●	●	●	TNGA33(0.5)-1NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	TNGA160404-1NS0101005		●	●	●	TNGA331-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	TNGA160408-1NS0101005		●	●	●	TNGA332-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	TNGA160412-1NS0101005		●	●	●	TNGA333-1NS0101005						
	-1NS0101510		●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	-1NS0152020						
	TNGA160402-3NS0101005	CBST22S	●	●	●	TNGA33(0.5)-3NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-3NS0101510		●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	-3NS0152020						
	TNGA160404-3NS0101005		●	●	●	TNGA331-3NS0101005						
	-3NS0101510		●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	-3NS0152020						
	TNGA160408-3NS0101005		●	●	●	TNGA332-3NS0101005						
	-3NS0101510		●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	-3NS0152020						
	TNGA160412-3NS0101005		●	●	●	TNGA333-3NS0101005						
	-3NS0101510		●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	-3NS0152020						
	TNGA160402-6NS0101005	CBST22S	●	●	●	TNGA33(0.5)-6NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-6NS0101510		●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	-6NS0152020						
	TNGA160404-6NS0101005		●	●	●	TNGA331-6NS0101005						
	-6NS0101510		●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	-6NS0152020						
	TNGA160408-6NS0101005		●	●	●	TNGA332-6NS0101005						
	-6NS0101510		●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	-6NS0152020						
	TNGA160412-6NS0101005		●	●	●	TNGA333-6NS0101005						
	-6NS0101510		●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	-6NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

VN 35° 菱形 • 负型 • 有孔



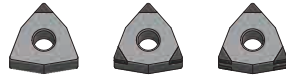
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	VNGA160402-1NS0101005	CBST22S	●	●	●	●	VNGA33(0.5)-1NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160404-1NS0101005		●	●	●	●	VNGA331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160408-1NS0101005		●	●	●	●	VNGA332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160412-1NS0101005		●	●	●	●	VNGA333-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	VNGA160402-2NS0101005	CBST22S	●	●	●	●	VNGA33(0.5)-2NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160404-2NS0101005		●	●	●	●	VNGA331-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160408-2NS0101005		●	●	●	●	VNGA332-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160412-2NS0101005		●	●	●	●	VNGA333-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
	VNGA160402-4NS0101005	CBST22S	●	●	●	●	VNGA33(0.5)-4NS0101005	CBST22S	9.525	3.81	4.76	0.2	2.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160404-4NS0101005		●	●	●	●	VNGA331-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160408-4NS0101005		●	●	●	●	VNGA332-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160412-4NS0101005		●	●	●	●	VNGA333-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®迷你型PCBN数控刀片规格型号

WN 80° 六边形 • 负型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0121	PNK017	PNK019			ic	ød	s	r	la
	WNGA080402-1NS0101005	CBST22S	●	●	●	●	WNGA43(0.5)-1NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080404-1NS0101005		●	●	●	●	WNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080408-1NS0101005		●	●	●	●	WNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080412-1NS0101005		●	●	●	●	WNGA433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	WNGA080402-3NS0101005	CBST22S	●	●	●	●	WNGA43(0.5)-3NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080404-3NS0101005		●	●	●	●	WNGA431-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080408-3NS0101005		●	●	●	●	WNGA432-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080412-3NS0101005		●	●	●	●	WNGA433-3NS0101005						
-3NS0101510	●	●	●	●	-3NS0101510								
-3NS0152020	●	●	●	●	-3NS0152020								
	WNGA080402-6NS0101005	CBST22S	●	●	●	●	WNGA43(0.5)-6NS0101005	CBST22S	12.7	5.16	4.76	0.2	2.2
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	WNGA080404-6NS0101005		●	●	●	●	WNGA431-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	WNGA080408-6NS0101005		●	●	●	●	WNGA432-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	WNGA080412-6NS0101005		●	●	●	●	WNGA433-6NS0101005						
-6NS0101510	●	●	●	●	-6NS0101510								
-6NS0152020	●	●	●	●	-6NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

CC 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CCGW060202-1NS0101005	CBST30S	●	●	●	●	CCGW2(1.5)(0.5)-1NS0101005	CBST30S	6.35	2.8	2.38	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060204-1NS0101005		●	●	●	●	CCGW2(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060208-1NS0101005		●	●	●	●	CCGW2(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060202-2NS0101005	CBST30S	●	●	●	●	CCGW2(1.5)(0.5)-2NS0101005	CBST30S	6.35	2.8	2.38	0.4	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060204-2NS0101005		●	●	●	●	CCGW2(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060208-2NS0101005		●	●	●	●	CCGW2(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

CC 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CCGW060202-1NS0101005	CBST30S	●	●	●	●	CCGW2(1.5)(0.5)-1NS0101005	CBST30S	9.525	4.4	3.97	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060204-1NS0101005		●	●	●	●	CCGW2(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060208-1NS0101005		●	●	●	●	CCGW2(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW060202-2NS0101005	CBST30S	●	●	●	●	CCGW2(1.5)(0.5)-2NS0101005	CBST30S	9.525	4.4	3.97	0.4	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060204-2NS0101005		●	●	●	●	CCGW2(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW060208-2NS0101005		●	●	●	●	CCGW2(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

CC 80° 菱形 • 正型 • 有孔



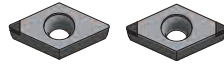
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	CCGW120402-1NS0101005	CBST30S	●	●	●	●	CCGW43(0.5)-1NS0101005	CBST30S	12.7	5.5	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120404-1NS0101005		●	●	●	●	CCGW431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120408-1NS0101005		●	●	●	●	CCGW432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CCGW120412-1NS0101005		●	●	●	●	CCGW433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	CCGW120402-2NS0101005	CBST30S	●	●	●	●	CCGW43(0.5)-2NS0101005	CBST30S	12.7	5.5	4.76	0.2	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120404-2NS0101005		●	●	●	●	CCGW431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120408-2NS0101005		●	●	●	●	CCGW432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CCGW120412-2NS0101005		●	●	●	●	CCGW433-2NS0102510						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

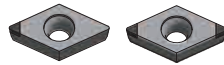
DC 55° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK017			ic	ød	s	r	la
	DCGW070202-1NS0101005	CBST30S	●	●	●	●	DCGW2(1.5)(0.5)-1NS0101005	CBST30S	6.35	2.8	2.38	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070204-1NS0101005		●	●	●	●	DCGW2(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070208-1NS0101005		●	●	●	●	DCGW2(1.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW070202-2NS0101005	CBST30S	●	●	●	●	DCGW2(1.5)(0.5)-2NS0101005	CBST30S	6.35	2.8	2.38	0.4	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW070204-2NS0101005		●	●	●	●	DCGW2(1.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW070208-2NS0101005		●	●	●	●	DCGW2(1.5)2-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

DC 55° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK017			ic	ød	s	r	la
	DCGW11T302-1NS0101005	CBST30S	●	●	●	●	DCGW3(2.5)(0.5)-1NS0101005	CBST30S	9.525	4.4	3.97	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T304-1NS0101005		●	●	●	●	DCGW3(2.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T308-1NS0101005		●	●	●	●	DCGW3(2.5)2-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T312-1NS0101005	CBST30S	●	●	●	●	DCGW3(2.5)3-1NS0101005	CBST30S	9.525	4.4	3.97	0.8	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DCGW11T302-2NS0101005		●	●	●	●	DCGW3(2.5)(0.5)-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DCGW11T304-2NS0101005		●	●	●	●	DCGW3(2.5)1-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
DCGW11T308-2NS0101005	●	●	●	●	DCGW3(2.5)2-2NS0101005								
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
DCGW11T312-2NS0101005	●	●	●	●	DCGW3(2.5)3-2NS0101005	CBST30S	9.525	4.4	3.97	1.2	3.0		
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

TP 60° 三角形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW080202-1NS0101005	CBST30S	●	●	●	●	TPGW(1.5)(1.5)(0.5)-1NS0101005	CBST30S	4.76	2.4	2.38	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW080204-1NS0101005		●	●	●	●	TPGW(1.5)(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW080202-3NS0101005	CBST30S	●	●	●	●	TPGW(1.5)(1.5)(0.5)-3NS0101005	CBST30S	4.76	2.4	2.38	0.4	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW080204-3NS0101005		●	●	●	●	TPGW(1.5)(1.5)1-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW090202-1NS0101005	CBST30S	●	●	●	●	TPGW(1.8)(1.5)(0.5)-1NS0101005	CBST30S	5.56	2.8	2.38	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090204-1NS0101005		●	●	●	●	TPGW(1.8)(1.5)1-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090208-1NS0101005	CBST30S	●	●	●	●	TPGW(1.8)(1.5)2-1NS0101005	CBST30S	5.56	2.8	2.38	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW090202-3NS0101005		●	●	●	●	TPGW(1.8)(1.5)(0.5)-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW090204-3NS0101005	CBST30S	●	●	●	●	TPGW(1.8)(1.5)1-3NS0101005	CBST30S	5.56	2.8	2.38	0.4	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW090208-3NS0101005		●	●	●	●	TPGW(1.8)(1.5)2-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW110302-1NS0101005	CBST30S	●	●	●	●	TPGW22(0.5)-1NS0101005	CBST30S	6.35	3.3	3.18	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW110304-1NS0101005		●	●	●	●	TPGW221-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW110302-3NS0101005	CBST30S	●	●	●	●	TPGW22(0.5)-3NS0101005	CBST30S	6.35	3.3	3.18	0.4	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW110304-3NS0101005		●	●	●	●	TPGW221-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW160302-1NS0101005	CBST30S	●	●	●	●	TPGW32(0.5)-1NS0101005	CBST30S	9.525	4.4	3.18	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160304-1NS0101005		●	●	●	●	TPGW321-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160302-3NS0101005	CBST30S	●	●	●	●	TPGW32(0.5)-3NS0101005	CBST30S	9.525	4.4	3.18	0.4	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW160304-3NS0101005		●	●	●	●	TPGW321-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

TP 60° 三角形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TPGW160402-1NS0101005	CBST30S	●	●	●	●	TPGW33(0.5)-1NS0101005	CBST30S	9.525	4.4	4.76	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160404-1NS0101005		●	●	●	●	TPGW331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160408-1NS0101005		●	●	●	●	TPGW332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TPGW160402-3NS0101005	CBST30S	●	●	●	●	TPGW33(0.5)-3NS0101005	CBST30S	9.525	4.4	4.76	0.4	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW160404-3NS0101005		●	●	●	●	TPGW331-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TPGW160408-3NS0101005		●	●	●	●	TPGW332-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						

示例：公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

VB 35° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VBGW110302-1NS0101005	CBST30S	●	●	●	●	VBGW22(0.5)-1NS0101005	CBST30S	6.35	2.8	3.18	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110304-1NS0101005		●	●	●	●	VBGW221-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110308-1NS0101005		●	●	●	●	VBGW222-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW110302-2NS0101005	CBST30S	●	●	●	●	VBGW22(0.5)-2NS0101005	CBST30S	6.35	2.8	3.18	0.4	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW110304-2NS0101005		●	●	●	●	VBGW221-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW110308-2NS0101005		●	●	●	●	VBGW222-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VBGW160402-1NS0101005	CBST30S	●	●	●	●	VBGW33(0.5)-1NS0101005	CBST30S	9.525	4.4	4.76	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160404-1NS0101005		●	●	●	●	VBGW331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160408-1NS0101005		●	●	●	●	VBGW332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160412-1NS0101005	CBST30S	●	●	●	●	VBGW333-1NS0101005	CBST30S	9.525	4.4	4.76	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VBGW160402-2NS0101005		●	●	●	●	VBGW33(0.5)-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VBGW160404-2NS0101005		●	●	●	●	VBGW331-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
VBGW160408-2NS0101005	●	●	●	●	VBGW332-2NS0101005								
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
VBGW160412-2NS0101005	●	●	●	●	VBGW333-2NS0101005								
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la	
	VCGW080202-1NS0101005	CBST30S	●	●	●	●	VCGW(1.5)(1.5)(0.5)-1NS0101005	CBST30S	6.35	2.2	2.38	0.4	3.0	0.2
	-1NS0101510		●	●	●	●	-1NS0101510							0.8
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW080204-1NS0101005		●	●	●	●	VCGW(1.5)(1.5)1-1NS0101005							
	-1NS0101510		●	●	●	●	-1NS0101510							
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW080208-1NS0101005		●	●	●	●	VCGW(1.5)(1.5)2-1NS0101005							
	-1NS0101510		●	●	●	●	-1NS0101510							
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW080202-2NS0101005	CBST30S	●	●	●	●	VCGW(1.5)(1.5)(0.5)-2NS0101005	CBST30S	6.35	2.2	2.38	0.4	3.0	0.2
	-2NS0101510		●	●	●	●	-2NS0101510							0.8
	-2NS0152020		●	●	●	●	-2NS0152020							
	VCGW080204-2NS0101005		●	●	●	●	VCGW(1.5)(1.5)1-2NS0101005							
	-2NS0101510		●	●	●	●	-2NS0101510							
	-2NS0152020		●	●	●	●	-2NS0152020							
	VCGW080208-2NS0101005		●	●	●	●	VCGW(1.5)(1.5)2-2NS0101005							
	-2NS0101510		●	●	●	●	-2NS0101510							
	-2NS0152020		●	●	●	●	-2NS0152020							

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锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la	
	VCGW110302-1NS0101005	CBST30S	●	●	●	●	VCGW22(0.5)-1NS0101005	CBST30S	6.35	2.8	3.18	0.4	3.0	0.2
	-1NS0101510		●	●	●	●	-1NS0101510							0.8
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW110304-1NS0101005		●	●	●	●	VCGW221-1NS0101005							
	-1NS0101510		●	●	●	●	-1NS0101510							
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW110308-1NS0101005		●	●	●	●	VCGW222-1NS0101005							
	-1NS0101510		●	●	●	●	-1NS0101510							
	-1NS0152020		●	●	●	●	-1NS0152020							
	VCGW110302-2NS0101005	CBST30S	●	●	●	●	VCGW22(0.5)-2NS0101005	CBST30S	6.35	2.8	3.18	0.4	3.0	0.2
	-2NS0101510		●	●	●	●	-2NS0101510							0.8
	-2NS0152020		●	●	●	●	-2NS0152020							
	VCGW110304-2NS0101005		●	●	●	●	VCGW221-2NS0101005							
	-2NS0101510		●	●	●	●	-2NS0101510							
	-2NS0152020		●	●	●	●	-2NS0152020							
	VCGW110308-2NS0101005		●	●	●	●	VCGW222-2NS0101005							
	-2NS0101510		●	●	●	●	-2NS0101510							
	-2NS0152020		●	●	●	●	-2NS0152020							

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

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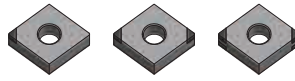
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	VCGW160402-1NS0101005	CBST30S	●	●	●	●	VCGW33(0.5)-1NS0101005	CBST30S	6.35	4.4	4.76	0.4	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160404-1NS0101005		●	●	●	●	VCGW331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160408-1NS0101005		●	●	●	●	VCGW332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VCGW160402-2NS0101005	CBST30S	●	●	●	●	VCGW33(0.5)-2NS0101005	CBST30S	6.35	4.4	4.76	0.4	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW160404-2NS0101005		●	●	●	●	VCGW331-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VCGW160408-2NS0101005		●	●	●	●	VCGW332-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						

示例：公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

CN 80° 菱形 • 负型 • 有孔



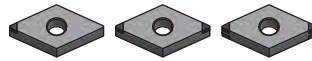
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	CNGA120402-1NS0101005	CBST30S	●	●	●	●	CNGA43(0.5)-1NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120404-1NS0101005		●	●	●	●	CNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120408-1NS0101005		●	●	●	●	CNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	CNGA120412-1NS0101005		●	●	●	●	CNGA433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	CNGA120402-2NS0101005	CBST30S	●	●	●	●	CNGA43(0.5)-2NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120404-2NS0101005		●	●	●	●	CNGA431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120408-2NS0101005		●	●	●	●	CNGA432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	CNGA120412-2NS0101005		●	●	●	●	CNGA433-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
	CNGA120402-4NS0101005	CBST30S	●	●	●	●	CNGA43(0.5)-4NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120404-4NS0101005		●	●	●	●	CNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120408-4NS0101005		●	●	●	●	CNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	CNGA120412-4NS0101005		●	●	●	●	CNGA433-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

DN 55° 菱形 • 负型 • 有孔



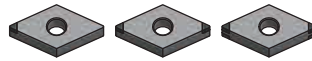
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	DNGA150402-1NS0101005	CBST30S	●	●	●	●	DNGA43(0.5)-1NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150404-1NS0101005		●	●	●	●	DNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150408-1NS0101005		●	●	●	●	DNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150412-1NS0101005		●	●	●	●	DNGA433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	DNGA150402-2NS0101005	CBST30S	●	●	●	●	DNGA43(0.5)-2NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150404-2NS0101005		●	●	●	●	DNGA431-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150408-2NS0101005		●	●	●	●	DNGA432-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150412-2NS0101005		●	●	●	●	DNGA433-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
	DNGA150402-4NS0101005	CBST30S	●	●	●	●	DNGA43(0.5)-4NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150404-4NS0101005		●	●	●	●	DNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150408-4NS0101005		●	●	●	●	DNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150412-4NS0101005		●	●	●	●	DNGA433-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

DN 55° 菱形 • 负型 • 有孔



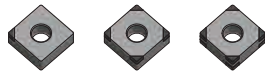
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	DNGA150602-1NS0101005	CBST30S	●	●	●	●	DNGA44(0.5)-1NS0101005	CBST30S	12.7	5.16	6.35	3.0	0.2
	-1NS0101510		●	●	●	●	-1NS0101510						0.4
	-1NS0152020		●	●	●	●	-1NS0152020						0.8
	DNGA150604-1NS0101005		●	●	●	●	DNGA441-1NS0102010						1.2
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150608-1NS0101005		●	●	●	●	DNGA442-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	DNGA150612-1NS0101005		●	●	●	●	DNGA443-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	DNGA150602-2NS0101005	CBST30S	●	●	●	●	DNGA44(0.5)-2NS0101005	CBST30S	12.7	5.16	6.35	3.0	0.2
	-2NS0101510		●	●	●	●	-2NS0101510						0.4
	-2NS0152020		●	●	●	●	-2NS0152020						0.8
	DNGA150604-2NS0101005		●	●	●	●	DNGA441-2NS0101005						1.2
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150608-2NS0101005		●	●	●	●	DNGA442-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	DNGA150612-2NS0101005		●	●	●	●	DNGA443-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
	DNGA150602-4NS0101005	CBST30S	●	●	●	●	DNGA44(0.5)-4NS0101005	CBST30S	12.7	5.16	6.35	3.0	0.2
	-4NS0101510		●	●	●	●	-4NS0101510						0.4
	-4NS0152020		●	●	●	●	-4NS0152020						0.8
	DNGA150604-4NS0101005		●	●	●	●	DNGA441-4NS0101005						1.2
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150608-4NS0101005		●	●	●	●	DNGA442-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	DNGA150612-4NS0101005		●	●	●	●	DNGA443-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

SN 90° 正方形 • 负型 • 有孔



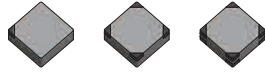
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	SNGA120402-1NS0101005	CBST30S	●	●	●	●	SNGA43(0.5)-1NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120404-1NS0101005		●	●	●	●	SNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120408-1NS0101005		●	●	●	●	SNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGA120412-1NS0101005		●	●	●	●	SNGA433-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	SNGA120402-4NS0101005	CBST30S	●	●	●	●	SNGA43(0.5)-4NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120404-4NS0101005		●	●	●	●	SNGA431-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120408-4NS0101005		●	●	●	●	SNGA432-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGA120412-4NS0101005		●	●	●	●	SNGA433-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								
	SNGA120402-8NS0101005	CBST30S	●	●	●	●	SNGA43(0.5)-8NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120404-8NS0101005		●	●	●	●	SNGA431-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120408-8NS0101005		●	●	●	●	SNGA432-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGA120412-8NS0101005		●	●	●	●	SNGA433-8NS0101005						
-8NS0101510	●	●	●	●	-8NS0101510								
-8NS0152020	●	●	●	●	-8NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

SN 90° 正方形 • 负型 • 无孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	SNGN090402-1NS0101005	CBST30S	●	●	●	●	SNGA33(0.5)-1NS0101005	CBST30S	9.525	-	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510					0.4	
	-1NS0152020		●	●	●	●	-1NS0152020					0.8	
	SNGN090404-1NS0101005		●	●	●	●	SNGA331-1NS0101005					1.2	
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGN090408-1NS0101005		●	●	●	●	SNGA332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGN090412-1NS0101005		●	●	●	●	SNGA333-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	SNGN090402-4NS0101005	CBST30S	●	●	●	●	SNGA33(0.5)-4NS0101005	CBST30S	9.525	-	4.76	0.2	3.0
	-4NS0101510		●	●	●	●	-4NS0101510					0.4	
	-4NS0152020		●	●	●	●	-4NS0152020					0.8	
	SNGN090404-4NS0101005		●	●	●	●	SNGA331-4NS0101005					1.2	
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGN090408-4NS0101005		●	●	●	●	SNGA332-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGN090412-4NS0101005		●	●	●	●	SNGA333-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	SNGN090402-8NS0101005	CBST30S	●	●	●	●	SNGA33(0.5)-8NS0101005	CBST30S	9.525	-	4.76	0.2	3.0
	-8NS0101510		●	●	●	●	-8NS0101510					0.4	
	-8NS0152020		●	●	●	●	-8NS0152020					0.8	
	SNGN090404-8NS0101005		●	●	●	●	SNGA331-8NS0101005					1.2	
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGN090408-8NS0101005		●	●	●	●	SNGA332-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						
	SNGN090412-8NS0101005		●	●	●	●	SNGA333-8NS0101005						
	-8NS0101510		●	●	●	●	-8NS0101510						
	-8NS0152020		●	●	●	●	-8NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

TN 60° 三角形 • 负型 • 有孔



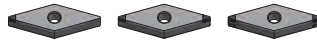
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数					
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la
	TNGA160402-1NS0101005	CBST30S	●	●	●	●	TNGA33(0.5)-1NS0101005	CBST30S	9.525	3.81	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TNGA160404-1NS0101005		●	●	●	●	TNGA331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TNGA160408-1NS0101005		●	●	●	●	TNGA332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TNGA160412-1NS0101005		●	●	●	●	TNGA333-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	TNGA160402-3NS0101005	CBST30S	●	●	●	●	TNGA33(0.5)-3NS0101005	CBST30S	9.525	3.81	4.76	0.2	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TNGA160404-3NS0101005		●	●	●	●	TNGA331-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TNGA160408-3NS0101005		●	●	●	●	TNGA332-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TNGA160412-3NS0101005		●	●	●	●	TNGA333-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	TNGA160402-6NS0101005	CBST30S	●	●	●	●	TNGA33(0.5)-6NS0101005	CBST30S	9.525	3.81	4.76	0.2	3.0
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	TNGA160404-6NS0101005		●	●	●	●	TNGA331-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	TNGA160408-6NS0101005		●	●	●	●	TNGA332-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	TNGA160412-6NS0101005		●	●	●	●	TNGA333-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

VN 35° 菱形 • 负型 • 有孔



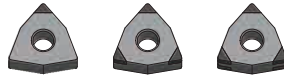
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	VNGA160402-1NS0101005	CBST30S	●	●	●	●	VNGA33(0.5)-1NS0101005	CBST30S	9.525	3.81	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160404-1NS0101005		●	●	●	●	VNGA331-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160408-1NS0101005		●	●	●	●	VNGA332-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	VNGA160412-1NS0101005		●	●	●	●	VNGA333-1NS0101005						
-1NS0101510	●	●	●	●	-1NS0101510								
-1NS0152020	●	●	●	●	-1NS0152020								
	VNGA160402-2NS0101005	CBST30S	●	●	●	●	VNGA33(0.5)-2NS0101005	CBST30S	9.525	3.81	4.76	0.2	3.0
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160404-2NS0101005		●	●	●	●	VNGA331-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160408-2NS0101005		●	●	●	●	VNGA332-2NS0101005						
	-2NS0101510		●	●	●	●	-2NS0101510						
	-2NS0152020		●	●	●	●	-2NS0152020						
	VNGA160412-2NS0101005		●	●	●	●	VNGA333-2NS0101005						
-2NS0101510	●	●	●	●	-2NS0101510								
-2NS0152020	●	●	●	●	-2NS0152020								
	VNGA160402-4NS0101005	CBST30S	●	●	●	●	VNGA33(0.5)-4NS0102510	CBST30S	9.525	3.81	4.76	0.2	3.0
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160404-4NS0101005		●	●	●	●	VNGA331-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160408-4NS0101005		●	●	●	●	VNGA332-4NS0101005						
	-4NS0101510		●	●	●	●	-4NS0101510						
	-4NS0152020		●	●	●	●	-4NS0152020						
	VNGA160412-4NS0101005		●	●	●	●	VNGA333-4NS0101005						
-4NS0101510	●	●	●	●	-4NS0101510								
-4NS0152020	●	●	●	●	-4NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®标准型PCBN数控刀片规格型号

WN 80° 六边形 • 负型 • 有孔



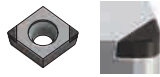
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	WNGA080402-1NS0101005	CBST30S	●	●	●	●	WNGA43(0.5)-1NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080404-1NS0101005		●	●	●	●	WNGA431-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080408-1NS0101005		●	●	●	●	WNGA432-1NS0101005						
	-1NS0101510		●	●	●	●	-1NS0101510						
	-1NS0152020		●	●	●	●	-1NS0152020						
	WNGA080402-3NS0101005	CBST30S	●	●	●	●	WNGA43(0.5)-3NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080404-3NS0101005		●	●	●	●	WNGA431-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080408-3NS0101005		●	●	●	●	WNGA432-3NS0101005						
	-3NS0101510		●	●	●	●	-3NS0101510						
	-3NS0152020		●	●	●	●	-3NS0152020						
	WNGA080402-6NS0101005	CBST30S	●	●	●	●	WNGA43(0.5)-6NS0101005	CBST30S	12.7	5.16	4.76	0.2	3.0
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	WNGA080404-6NS0101005		●	●	●	●	WNGA431-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
	WNGA080408-6NS0101005		●	●	●	●	WNGA432-6NS0101005						
	-6NS0101510		●	●	●	●	-6NS0101510						
	-6NS0152020		●	●	●	●	-6NS0152020						
WNGA080412-6NS0101005	●	●	●	●	WNGA433-6NS0101005								
-6NS0101510	●	●	●	●	-6NS0101510								
-6NS0152020	●	●	●	●	-6NS0152020								

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
 英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®修光型PCBN数控刀片规格型号

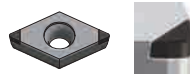
CC 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
				CCGW09T304-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	●			●	●	●	CCGW3(2.5)1-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S
CCGW09T308-2NS0101005 -2NS0101510 -2NS0152020	●	●	●	●		CCGW3(2.5)2-2NS0101005 -2NS0101510 -2NS0152020							
	●	●	●	●									
	●	●	●	●									
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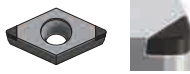
DC 55° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
				DCGW070204-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	●			●	●	●	DCGW2(1.5)1-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S
DCGW070208-2NS0101005 -2NS0101510 -2NS0152020	●	●	●	●		DCGW2(1.5)2-2NS0101005 -2NS0101510 -2NS0152020							
	●	●	●	●									
	●	●	●	●									
	●	●	●	●									
	●	●	●	●									

DC 55° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
				DCGW11T304-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	●			●	●	●	DCGW3(2.5)1-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S
DCGW11T308-2NS0101005 -2NS0101510 -2NS0152020	●	●	●	●		DCGW3(2.5)2-2NS0101005 -2NS0101510 -2NS0152020							
	●	●	●	●									
	●	●	●	●									
	●	●	●	●									
	●	●	●	●									

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®修光型PCBN数控刀片规格型号

SC 90° 正方形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数						
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la	
	SCGN090404-4NS0101005 -4NS0101510 -4NS0152020	CBWG22S	●	●	●	●	SCGN331-4NS0101005 -4NS0101510 -4NS0152020	CBWG22S	9.525	3.97	0.8	2.2	0.4	
	SCGN090408-4NS0101005 -4NS0101510 -4NS0152020		●	●	●	●								SCGN33(0.5)2-4NS0101005 -4NS0101510 -4NS0152020

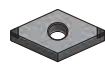
CN 80° 菱形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数							
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la		
	CNGA120404-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	●	●	●	●	CNGA431-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	12.7	5.16	4.76	0.8	2.2	0.4	
	CNGA120408-2NS0101005 -2NS0101510 -2NS0152020		●	●	●	●									CNGA432-2NS0101005 -2NS0101510 -2NS0152020

DN 55° 菱形 • 正型 • 有孔



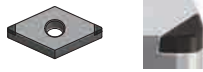
锋利型	标准型	增强型
S0101505	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K			英制代码 ANSI	刀片结构	刀片参数							
			PNK0117	PNK0119	PNK0121			PNK3017	ic	ød	s	r	la		
	DNGA150404-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	●	●	●	●	DNGA431-2NS0101005 -2NS0101510 -2NS0152020	CBWG22S	12.7	5.16	4.76	0.8	2.2	0.4	
	DNGA150408-2NS0101005 -2NS0101510 -2NS0152020		●	●	●	●									DNGA432-2NS0101005 -2NS0101510 -2NS0152020

示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

沃尔德®修光型PCBN数控刀片规格型号

DN 55° 菱形 • 负型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	DNGA150604-2NS0102510 -2NS0101505 -2NS0152520	CBWG22S	●	●	●	●	DNGA441-2NS0102510 -2NS0101505 -2NS0152520	CBWG22S	12.7	5.16	4.76	0.4	2.2
	DNGA150608-2NS0102510 -2NS0101505 -2NS0152520		●	●	●	●	DNGA442-2NS0102510 -2NS0101505 -2NS0152520						

TN 60° 三角形 • 正型 • 有孔



锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	TNGA160404-3NS0101005 -3NS0101510 -3NS0152020	CBWG22S	●	●	●	●	TNGA331-3NS0101005 -3NS0101510 -3NS0152020	CBWG22S	9.525	3.81	4.76	0.4	2.2
	TNGA160408-3NS0101005 -3NS0101510 -3NS0152020		●	●	●	●	TNGA332-3NS0101005 -3NS0101510 -3NS0152020						

WN 80° 六边形 • 负型 • 有孔



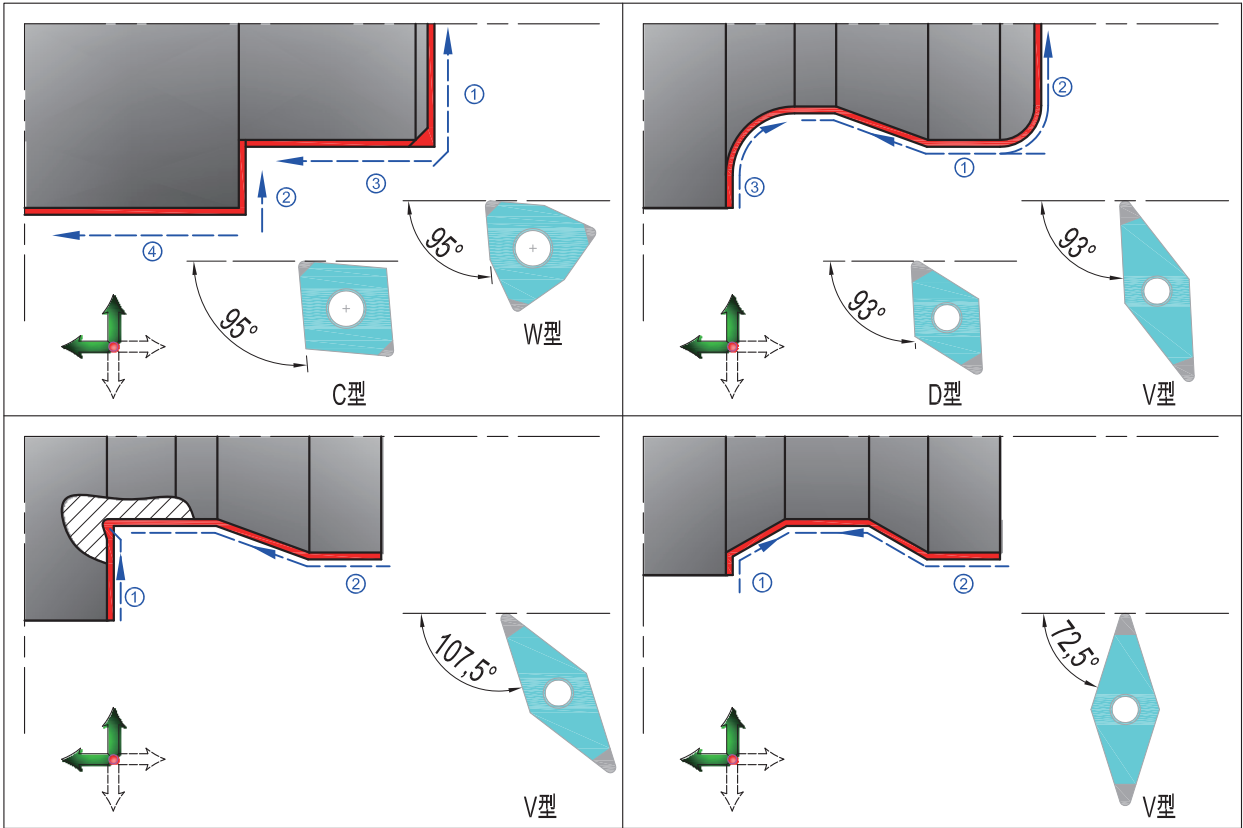
锋利型	标准型	增强型
S0101005	S0101510	S0152020

图示	公制代码 ISO	刀片结构	K				英制代码 ANSI	刀片结构	刀片参数				
			PNK0117	PNK0119	PNK0121	PNK3017			ic	ød	s	r	la
	WNGA080404-3NS0101005 -3NS0101510 -3NS0152020	CBWG22S	●	●	●	●	WNGA431-3NS0101005 -3NS0101510 -3NS0152020	CBWG22S	12.7	5.16	4.76	0.8	2.2
	WNGA080408-3NS0101005 -3NS0101510 -3NS0152020		●	●	●	●	WNGA432-3NS0101005 -3NS0101510 -3NS0152020						

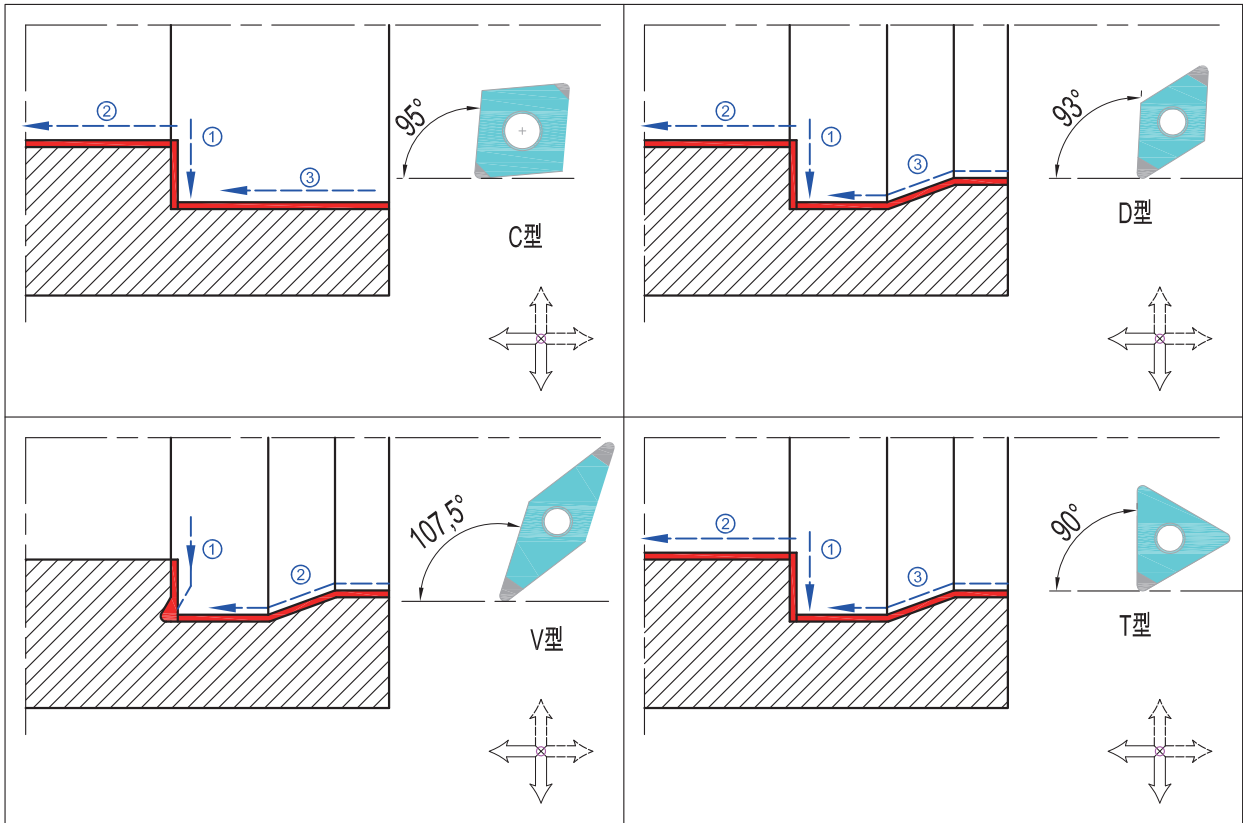
示例： 公制 ISO: CCGW060204-2NS0101510 CBST22S PNK0117
英制 ANSI: CCGW2(1.5)1-2NS0101510 CBST22S PNK0117

正确走刀路径推荐

■ 外圆加工



■ 内圆加工



刀尖圆弧、进给与粗糙度关系/机床转速转换表

刀尖圆弧、进给与粗糙度关系

车削时，刀尖半径与进给量、表面粗糙度的理论值存在一定关系，我们选择进给量时一般不应超过此值。

$$h = r\epsilon - (r\epsilon^2 - (0.5 \times f)^2) 0.5$$

h为残留高度，而Ra=(0.25-0.33)h，因此

$$f_{\max} = (Ra \times r\epsilon / 50) \frac{1}{2}$$

刀尖圆弧 rε(mm)	粗糙度要求Ra(μm)					
	0.2	0.4	0.8	1.6	3.2	6.4
	进给量f(mm/rev) ≦					
0.2	0.028	0.040	0.057	0.080	0.113	0.160
0.4	0.040	0.057	0.080	0.113	0.160	0.226
0.8	0.057	0.080	0.113	0.160	0.226	0.320
1.2	0.069	0.098	0.139	0.196	0.277	0.392
1.6	0.080	0.113	0.160	0.226	0.320	0.453
2.4	0.098	0.139	0.196	0.277	0.392	0.554

机床转速转换表

切削速度Vc(m/min)	工件/刀盘直径 (mm)													
	12	16	20	25	32	50	63	80	100	125	160	175	200	250
80	2123	1592	1274	1019	796	510	404	318	255	204	159	146	127	102
90	2389	1791	1433	1146	896	573	455	358	287	229	179	164	143	115
100	2654	1990	1592	1274	995	637	506	398	318	255	199	182	159	127
110	2919	2189	1752	1401	1095	701	556	438	350	280	219	200	175	140
120	3185	2389	1911	1529	1194	764	607	478	382	306	239	218	191	153
140	3715	2787	2229	1783	1393	892	708	557	446	357	279	255	223	178
160	4246	3185	2548	2038	1592	1019	809	637	510	408	318	291	255	204
180	4777	3583	2866	2293	1791	1146	910	717	573	459	358	328	287	229
200	5308	3981	3185	2548	1990	1274	1011	796	637	510	398	364	318	255
220	5839	4379	3503	2803	2189	1401	1112	876	701	561	438	400	350	280
240	6369	4777	3822	3057	2389	1529	1213	955	764	611	478	437	382	306
260	6900	5175	4140	3312	2588	1656	1314	1035	828	662	518	473	414	331
280	7431	5573	4459	3567	2787	1783	1415	1115	892	713	557	510	446	357
300		5971	4777	3822	2986	1911	1517	1194	955	764	597	546	478	382
400						2548	2022	1592	1274	1019	796	728	637	510
600						3822	3033	2389	1911	1529	1194	1092	955	764
800						5096	4044	3185	2548	2038	1592	1456	1274	1019
1000						6369	5055	3981	3185	2548	1990	1820	1592	1274

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01-8
涂层PCBN数控刀片
(淬火钢加工)



02-8
PCBN数控刀片(淬火钢加工)



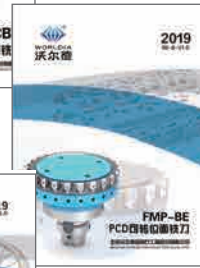
03-8
PCBN数控刀片(铸铁加工)



04-8
PCBN数控刀片(粉末冶金加工)



05-8
PCBN可转位面铣刀



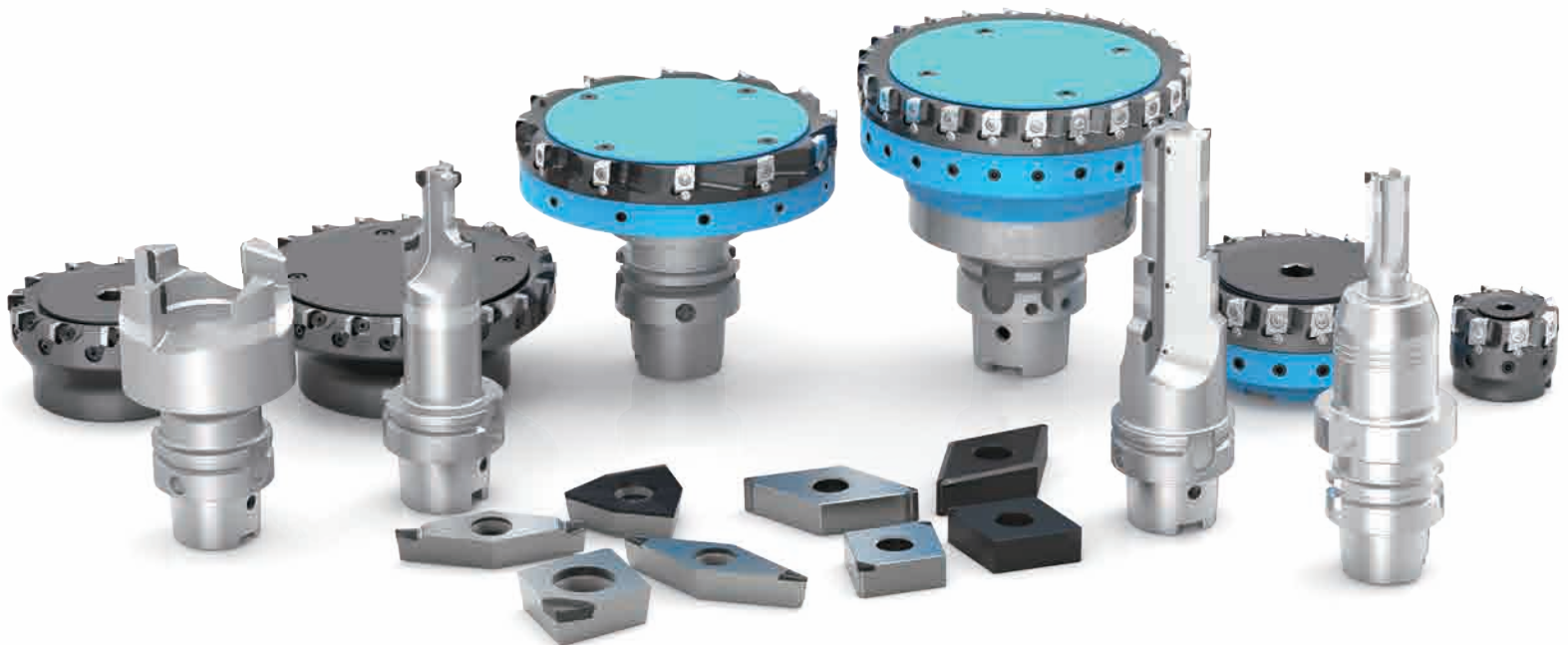
06-8
PCD可转位面铣刀



07-8
PCD/CVDD数控刀片



08-8
PCD非标刀具





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