

THE NEW VALUE FRONTIER

京瓷 创造新价值

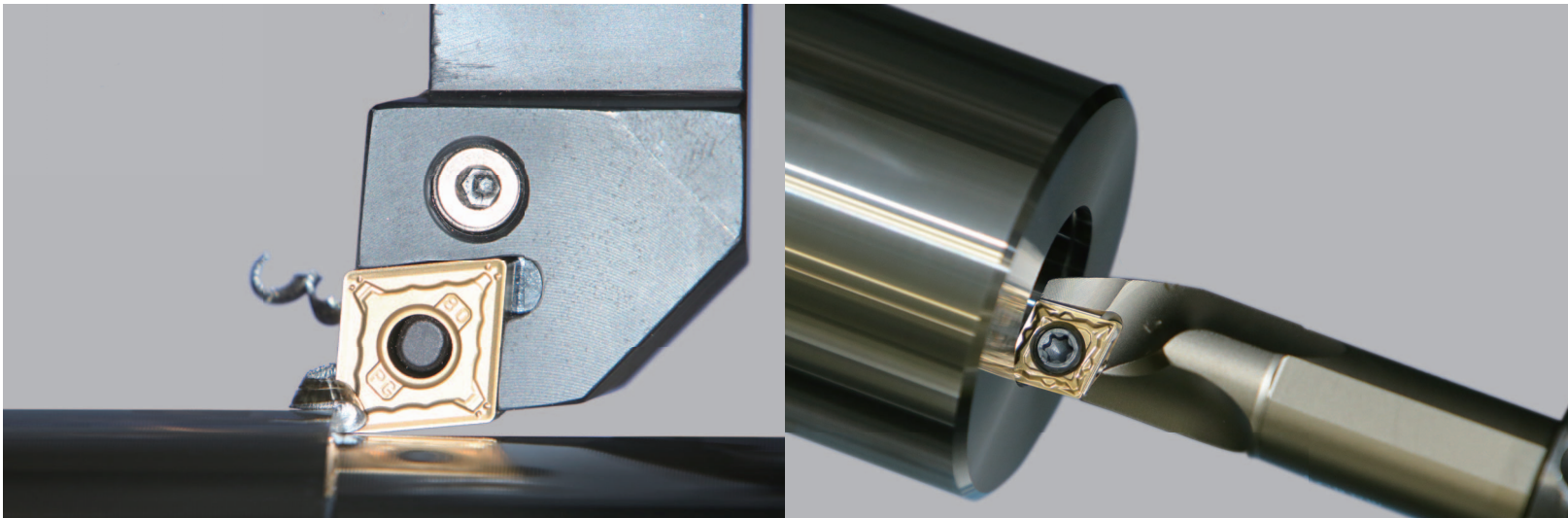


钢加工用
CVD涂层

CA5系列

钢加工用CVD涂层

CA5系列



实现钢的长寿·稳定加工

实现长寿·高效加工的新涂层

多种钢加工用断屑槽阵容扩充



NEW

WF 断屑槽
(精)



WE 断屑槽
(精~中)

修光刃 产品阵容追加



钢加工用CVD涂层

CA5系列

实现长寿·高效加工的新涂层
多种钢加工用断屑槽阵容扩充

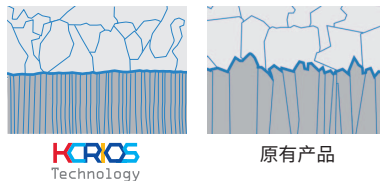
1 长寿命·高稳定涂层。可配合用途选择刀片材质

寿命延长

高性能 α -Al₂O₃涂层
优秀的耐磨·耐崩损性能

抑制涂层剥离

高附着表面
通过改良结晶组织·结构、
提升涂层附着强度



防止崩刃

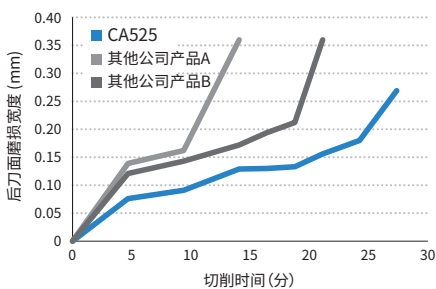
微细TiCN涂层
提升涂层强度·耐崩损性能

“KRIOS Technology”为京瓷独创的CVD涂层技术名称。

第1推荐 通用 CA525

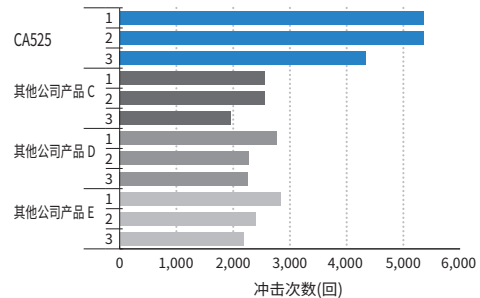
耐磨与抗崩损性能优良的特殊母材与高耐磨的高韧涂层

耐磨损性对比 (我司对比)

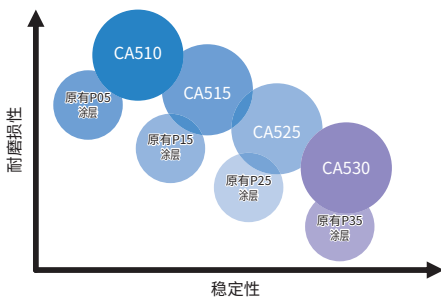


切削参数 : Vc=300m/min, ap=2.0mm, f=0.3mm/rev, Wet
被削材 : SCM435

耐崩损性能对比 (我司对比)



切削参数 : Vc=300m/min, ap=1.5mm, f=0.3mm/rev, Wet
被削材 : SCM440(4 根槽)



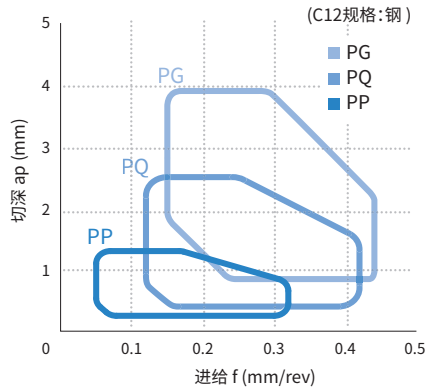
CA510 钢的高速·高效加工
重视耐磨损性能

CA515 钢的连续~轻断续加工

CA530 钢的强断续加工
耐崩损性能重视

2 多种钢加工用断屑槽阵容扩充

负角型



PG 断屑槽 (中~粗加工用)

实现大切屑处理范围的
稳定加工

台阶提升
防止高进给时的积屑

复合倒棱
平面+正角的2段结构确保
切削效果与强度平衡

双凸点
提升低进给的切屑处理
抑制前刀面磨损

PP 断屑槽 (精加工用)

钢的精加工
大范围进给对应

流畅的锥度切刃设计
降低切削阻力

3段式智能凸点构造
基于进给范围、通过3种不同的
凸点处理切屑

PQ 断屑槽 (精~中切削用)

实现大进给范围的
稳定屑处理

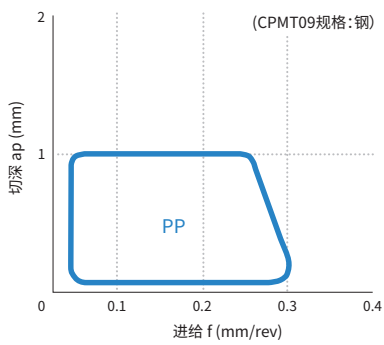
2段式智能壁面
(2段立面)

大范围切屑处理和高进给时的
凸点损伤抑制

平板区域
(断屑区域)

特殊正角倒棱
确保切削效果和强度平衡的
正角倒棱

正角规格



PP 断屑槽 (精加工用)

稳定控制钢的精加工时的切屑

高稳定
切刃形状
降低刀尖应力·温度的形状

高刀尖强度、稳定发挥性能

复合凸点断屑槽

多个不同功能的凸点配置
有效控制各种切削参数·被削材生产中的切屑
卷曲形态与排屑方向

不论任何进给、被削材、稳定发挥切屑处理性能

第1凸点
低切深

第2凸点
主区域

第3凸点
高进给范围

3 修光刃 产品阵容追加 (负角规格)

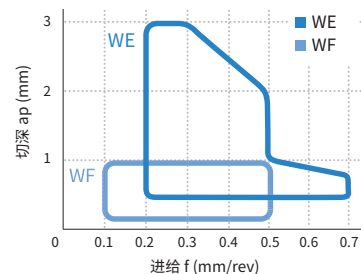
新设计修光刃形状实现高效加工

WE 断屑槽 (精~中)














大范围、优秀的切屑处理性能。通过高进给缩短加工时间

WF 断屑槽 (精)












精加工范围的优秀切屑处理性能。良好的加工面质量



标准库存型号(负角)









形状	型号	尺寸(mm)				CVD涂层			
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 精/有修光刃	CNMG 120404WF	12.70	4.76	5.16	0.4	●	●	●	●
	120408WF				0.8	●	●	●	●
 精/有修光刃	CNMG 120404WP	12.70	4.76	5.16	0.4	●	●	●	●
	120408WP				0.8	●	●	●	●
 精~中/有修光刃	CNMG 120404WE	12.70	4.76	5.16	0.4	●	●	●	●
	120408WE				0.8	●	●	●	●
	120412WE				1.2	●	●	●	●
 精~中/有修光刃	CNMG 120404WQ	12.70	4.76	5.16	0.4	●	●	●	●
	120408WQ				0.8	●	●	●	●
	120412WQ				1.2	●	●	●	●
 精加工	CNMG 120402PP	12.70	4.76	5.16	0.2	●	●	●	●
	120404PP				0.4	●	●	●	●
	120408PP				0.8	●	●	●	●
	120412PP				1.2	●	●	●	●
 精加工	CNMG 120402GP	12.70	4.76	5.16	0.2	●	●	●	●
	120404GP				0.4	●	●	●	●
	120408GP				0.8	●	●	●	●
 精加工~半精加工	CNMG 120404PQ	12.70	4.76	5.16	0.4	●	●	●	●
	120408PQ				0.8	●	●	●	●
	120412PQ				1.2	●	●	●	●
 精加工~半精加工	CNMG 090404HQ	9.525	4.76	3.81	0.4	●	●	●	●
	090408HQ				0.8	●	●	●	●
	CNMG 120404HQ	12.70	4.76	5.16	0.4	●	●	●	●
120408HQ	0.8				●	●	●	●	
120412HQ	1.2	●	●	●	●	●			
 精~中~提拉	CNMG 120404CQ	12.70	4.76	5.16	0.4	●	●	●	●
	120408CQ				0.8	●	●	●	●
	120412CQ				1.2	●	●	●	●
 精~中~提拉	CNMG 160608CQ	15.875	6.35	6.35	0.8	●	●	●	●
	160612CQ				1.2	●	●	●	●
 精~中~提拉	CNMG 120408CJ	12.70	4.76	5.16	0.8	●	●	●	●
	120412CJ				1.2	●	●	●	●
 精~中~提拉	CNMG 160612CJ	15.875	6.35	6.35	1.2	●	●	●	●
	160616CJ				1.6	●	●	●	●
 半精加工~粗加工	CNMG 090404GS	9.525	4.76	3.81	0.4	●	●	●	●
	090408GS				0.8	●	●	●	●
	CNMG 120404GS	12.70	4.76	5.16	0.4	●	●	●	●
	120408GS				0.8	●	●	●	●
120412GS	1.2	●	●	●	●	●			

● : 标准库存









形状	型号	尺寸(mm)				CVD涂层			
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 半精加工~粗加工	CNMG 120404PG	12.70	4.76	5.16	0.4	●	●	●	●
	120408PG				0.8	●	●	●	●
	120412PG				1.2	●	●	●	●
	120416PG				1.6	●	●	●	●
 半精加工~粗加工	CNMG 120404PS	12.70	4.76	5.16	0.4	●	●	●	●
	120408PS				0.8	●	●	●	●
	120412PS				1.2	●	●	●	●
	120416PS				1.6	●	●	●	●
 半精加工~粗加工	CNMG 160612PS	15.875	6.35	6.35	1.2	●	●	●	●
	160616PS				1.6	●	●	●	●
 半精加工~粗加工~高进给	CNMG 120408PT	12.70	4.76	5.16	0.8	●	●	●	●
	120412PT				1.2	●	●	●	●
	CNMG 160608PT	15.875	6.35	6.35	0.8	●	●	●	●
160612PT	1.2				●	●	●	●	
160616PT	1.6	●	●	●	●	●			
 半精加工~粗加工~高进给	CNMG 120408GT	12.70	4.76	5.16	0.8	●	●	●	●
	120412GT				1.2	●	●	●	●
 粗加工	CNMG 120404	12.70	4.76	5.16	0.4	●	●	●	●
	120408				0.8	●	●	●	●
	120412				1.2	●	●	●	●
	CNMG 160608	15.875	6.35	6.35	0.8	●	●	●	●
160612	1.2				●	●	●	●	
 粗加工	CNMG 190612	19.05	6.35	7.94	1.2	●	●	●	●
	190616				1.6	●	●	●	●
 粗加工	CNMG 120408PH	12.70	4.76	5.16	0.8	●	●	●	●
	120412PH				1.2	●	●	●	●
	120416PH				1.6	●	●	●	●
	CNMG 160608PH	15.875	6.35	6.35	0.8	●	●	●	●
	160612PH				1.2	●	●	●	●
	160616PH				1.6	●	●	●	●
 粗加工	CNMG 190608PH	19.05	6.35	7.94	0.8	●	●	●	●
	190612PH				1.2	●	●	●	●
	190616PH				1.6	●	●	●	●
	190624PH				2.4	●	●	●	●
 单面/粗加工~高进给	CNMM 120408PX	12.70	4.76	5.16	0.8	●	●	●	●
	120412PX				1.2	●	●	●	●
	120416PX				1.6	●	●	●	●
	CNMM 160608PX	15.875	6.35	6.35	0.8	●	●	●	●
	160612PX				1.2	●	●	●	●
	160616PX				1.6	●	●	●	●
 单面/粗加工~高进给	CNMM 190608PX	19.05	6.35	7.94	0.8	●	●	●	●
	190612PX				1.2	●	●	●	●
	190616PX				1.6	●	●	●	●
	190624PX				2.4	●	●	●	●

● : 标准库存

标准库存型号(负角)




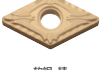
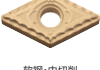





形状	型号	尺寸(mm)			CVD 涂层					
		内接圆直径	厚度	孔径	刀尖角R (r _e)	CA510	CA515	CA525	CA530	
 软钢·精	CNMG 120404XP	12.70	4.76	5.16	0.4	●	●	●	●	
	120408XP				0.8	●	●	●	●	
 软钢·中切削	CNMG 120404XQ	12.70	4.76	5.16	0.4	●	●	●	●	
	120408XQ				0.8	●	●	●	●	
 软钢·粗切削	CNMG 120408XS	12.70	4.76	5.16	0.8	●	●	●	●	
 精/有修光刃	DNMX 150404WF	12.70	4.76	5.16	0.4	●	●	●	●	
	150408WF				0.8	●	●	●	●	
	150412WF				1.2	●	●	●	●	
	DNMX 150604WF	12.70	6.35	5.16	0.4	●	●	●	●	
	150608WF				0.8	●	●	●	●	
	150612WF				1.2	●	●	●	●	
 精加工	DNMG 150402PP	12.70	4.76	5.16	0.2	●	●	●	●	
	150404PP				0.4	●	●	●	●	
	150408PP				0.8	●	●	●	●	
	150412PP				1.2	●	●	●	●	
	DNMG 150602PP	12.70	6.35	5.16	0.2	●	●	●	●	
	150604PP				0.4	●	●	●	●	
	150608PP				0.8	●	●	●	●	
	150612PP				1.2	●	●	●	●	
	 精加工	DNMG 110404GP	9.525	4.76	3.81	0.4	●	●	●	●
		110408GP				0.8	●	●	●	●
DNMG 150402GP		12.70	4.76	5.16	0.2	●	●	●	●	
150404GP					0.4	●	●	●	●	
 精加工	DNMG 150404PQ	12.70	4.76	5.16	0.4	●	●	●	●	
	150408PQ				0.8	●	●	●	●	
	150412PQ				1.2	●	●	●	●	
	DNMG 150604PQ	12.70	6.35	5.16	0.4	●	●	●	●	
	150608PQ				0.8	●	●	●	●	
	150612PQ				1.2	●	●	●	●	
 精加工~半精加工	DNMG 110402HQ	9.525	4.76	3.81	0.2	●	●	●	●	
	110404HQ				0.4	●	●	●	●	
	DNMG 150404HQ	12.70	4.76	5.16	0.4	●	●	●	●	
	150408HQ				0.8	●	●	●	●	
	150412HQ				1.2	●	●	●	●	
	DNMG 150604HQ	12.70	6.35	5.16	0.4	●	●	●	●	
	150608HQ				0.8	●	●	●	●	
	150612HQ				1.2	●	●	●	●	

●：标准库存











形状	型号	尺寸(mm)			CVD 涂层				
		内接圆直径	厚度	孔径	刀尖角R (r _e)	CA510	CA515	CA525	CA530
 精~中·提拉	DNMG 150404CQ	12.70	4.76	5.16	0.4	●	●	●	●
	150408CQ				0.8	●	●	●	●
	150412CQ				1.2	●	●	●	●
 精~中·提拉	DNMG 150604CQ	12.70	6.35	5.16	0.4	●	●	●	●
	150608CQ				0.8	●	●	●	●
	150612CQ				1.2	●	●	●	●
 精~中·提拉	DNMG 150408CJ	12.70	4.76	5.16	0.8	●	●	●	●
	150412CJ				1.2	●	●	●	●
	DNMG 150608CJ	12.70	6.35	5.16	0.8	●	●	●	●
 半精加工~粗加工	DNMG 110404GS	9.525	4.76	3.81	0.4	●	●	●	●
	110408GS				0.8	●	●	●	●
	DNMG 150404GS	12.70	4.76	5.16	0.4	●	●	●	●
	150408GS				0.8	●	●	●	●
	150412GS				1.2	●	●	●	●
	DNMG 150604GS	12.70	6.35	5.16	0.4	●	●	●	●
150608GS	0.8				●	●	●	●	
 半精加工~粗加工	DNMG 150404PG	12.70	4.76	5.16	0.4	●	●	●	●
	150408PG				0.8	●	●	●	●
	150412PG				1.2	●	●	●	●
	150416PG				1.6	●	●	●	●
	DNMG 150604PG	12.70	6.35	5.16	0.4	●	●	●	●
150608PG	0.8				●	●	●	●	
150612PG	1.2				●	●	●	●	
 半精加工~粗加工	DNMG 150404PS	12.70	4.76	5.16	0.4	●	●	●	●
	150408PS				0.8	●	●	●	●
	150412PS				1.2	●	●	●	●
	DNMG 150604PS	12.70	6.35	5.16	0.4	●	●	●	●
150608PS	0.8				●	●	●	●	
 半精加工~粗加工	DNMG 150408PT	12.70	4.76	5.16	0.8	●	●	●	●
	150412PT				1.2	●	●	●	●
	DNMG 150608PT	12.70	6.35	5.16	0.8	●	●	●	●
 半精加工~粗加工	DNMG 150408GT	12.70	4.76	5.16	0.8	●	●	●	●
	150412GT				1.2	●	●	●	●
	DNMG 150608GT	12.70	6.35	5.16	0.8	●	●	●	●
	150612GT				1.2	●	●	●	●

●：标准库存

标准库存型号(负角)










形状	型号	尺寸(mm)				CVD涂层			
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 粗加工	DNMG 150404	12.70	4.76	5.16	0.4	●	●	●	●
	150408				0.8	●	●	●	●
	DNMG 150608	12.70	6.35	5.16	0.8	●	●	●	●
	150612				1.2	●	●	●	●
 粗加工	DNMG 150408PH	12.70	4.76	5.16	0.8	●	●	●	●
	150412PH				1.2	●	●	●	●
	150416PH				1.6	●	●	●	●
	DNMG 150608PH	12.70	6.35	5.16	0.8	●	●	●	●
	150612PH				1.2	●	●	●	●
	150616PH				1.6	●	●	●	●
 单面/粗加工-高进给	DNMM 150408PX	12.70	4.76	5.16	0.8	●	●	●	●
	150412PX				1.2	●	●	●	●
	150416PX				1.6	●	●	●	●
	DNMM 150608PX	12.70	6.35	5.16	0.8	●	●	●	●
150612PX	1.2				●	●	●	●	
 软钢-精	DNMG 150404XP	12.70	4.76	5.16	0.4	●	●	●	●
	150408XP				0.8	●	●	●	●
 软钢-中切屑	DNMG 150404XQ	12.70	4.76	5.16	0.4	●	●	●	●
	150408XQ				0.8	●	●	●	●
 软钢-粗切屑	DNMG 150408XS	12.70	4.76	5.16	0.8	●	●	●	●
 半精加工~粗加工	RNMG 090300	9.525	3.18	3.81	—	●	●	●	●
	RNMG 120400	12.70	4.76	5.16	—	●	●	●	●
	RNMG 150600	15.875	6.35	6.35	—	●	●	●	●
 精加工~半精加工	SNMG 120404PQ	12.70	4.76	5.16	0.4	●	●	●	●
	120408PQ				0.8	●	●	●	●
	120412PQ				1.2	●	●	●	●
 精加工~半精加工	SNMG 120404HQ	12.70	4.76	5.16	0.4	●	●	●	●
	120408HQ				0.8	●	●	●	●
	120412HQ				1.2	●	●	●	●
 半精加工~粗加工	SNMG 120408PG	12.70	4.76	5.16	0.8	●	●	●	●
	120412PG				1.2	●	●	●	●
	120416PG				1.6	●	●	●	●

● : 标准库存








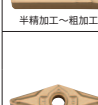


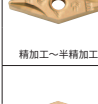

形状	型号	尺寸(mm)				CVD涂层			
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 半精加工~粗加工	SNMG 120408PS	12.70	4.76	5.16	0.8	●	●	●	●
	120412PS				1.2	●	●	●	●
	120416PS				1.6	●	●	●	●
 半精加工~粗加工-高进给	SNMG 120408PT	12.70	4.76	5.16	0.8	●	●	●	●
	120412PT				1.2	●	●	●	●
 粗加工	SNMG 090304	9.525	3.18	3.81	0.4	●	●	●	●
	090308				0.8	●	●	●	●
	SNMG 120408	12.70	4.76	5.16	0.8	●	●	●	●
	120412				1.2	●	●	●	●
120416	1.6	●	●	●	●				
 粗加工	SNMG 120408PH	12.70	4.76	5.16	0.8	●	●	●	●
	120412PH				1.2	●	●	●	●
	120416PH				1.6	●	●	●	●
	SNMG 150612PH	15.875	6.35	6.35	1.2	●	●	●	●
	150616PH				1.6	●	●	●	●
	SNMG 190612PH	19.05	6.35	7.94	1.2	●	●	●	●
190616PH	1.6				●	●	●	●	
 单面/粗加工-高进给	SNMM 120408PX	12.70	4.76	5.16	0.8	●	●	●	●
	120412PX				1.2	●	●	●	●
	120416PX				1.6	●	●	●	●
	SNMM 150612PX	15.875	6.35	6.35	1.2	●	●	●	●
	150616PX				1.6	●	●	●	●
	SNMM 190612PX	19.05	6.35	7.94	1.2	●	●	●	●
	190616PX				1.6	●	●	●	●
	190624PX				2.4	●	●	●	●
 软钢-精	SNMG 120408XP	12.70	4.76	5.16	0.8	●	●	●	●
 软钢-中切屑	SNMG 120408XQ	12.70	4.76	5.16	0.8	●	●	●	●
 软钢-粗切屑	SNMG 120408XS	12.70	4.76	5.16	0.8	●	●	●	●
 精/有修光刃	TNMG 160404WF	9.525	4.76	3.81	0.4	●	●	●	●
	160408WF				0.8	●	●	●	●
	160412WF				1.2	●	●	●	●
 精加工	TNMG 160402PP	9.525	4.76	3.81	0.2	●	●	●	●
	160404PP				0.4	●	●	●	●
	160408PP				0.8	●	●	●	●
	160412PP				1.2	●	●	●	●

● : 标准库存

标准库存型号(负角)



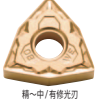






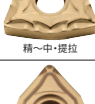

形状	型号	尺寸(mm)			CVD涂层				
		内接圆直径	厚度	孔径	刀尖角R (r _e)	CA510	CA515	CA525	CA530
 精加工	TNMG 160402GP	9.525	4.76	3.81	0.2	●	●	●	●
	160404GP				0.4	●	●	●	●
	160408GP				0.8	●	●	●	●
 精加工~半精加工	TNMG 160404PQ	9.525	4.76	3.81	0.4	●	●	●	●
	160408PQ				0.8	●	●	●	●
	160412PQ				1.2	●	●	●	●
 精加工~半精加工	TNMG 110404HQ	6.35	4.76	2.26	0.4	●	●	●	●
	110408HQ				0.8	●	●	●	●
	TNMG 160404HQ	9.525	4.76	3.81	0.4	●	●	●	●
	160408HQ				0.8	●	●	●	●
	160412HQ				1.2	●	●	●	●
	TNMG 160404CQ				0.4	●	●	●	●
160408CQ	0.8	●	●	●	●				
160412CQ	1.2	●	●	●	●				
 精~中~提拉	TNMG 220408CQ	12.70	4.76	5.16	0.8	●	●	●	●
	220412CQ				1.2	●	●	●	●
	TNMG 110404GS				6.35	4.76	2.26	0.4	●
110408GS	0.8	●	●	●					
 半精加工~粗加工	TNMG 160404GS	9.525	4.76	3.81	0.4	●	●	●	●
	160408GS				0.8	●	●	●	●
	TNMG 160404PG				9.525	4.76	3.81	0.4	●
160408PG	0.8	●	●	●				●	
160412PG	1.2	●	●	●				●	
 半精加工~粗加工	TNMG 160404PS	9.525	4.76	3.81	0.4	●	●	●	●
	160408PS				0.8	●	●	●	●
	160412PS				1.2	●	●	●	●
	TNMG 220404PS	12.70	4.76	5.16	0.4	●	●	●	●
	220408PS				0.8	●	●	●	●
	220412PS				1.2	●	●	●	●
220416PS	1.6	●	●	●	●				
 半精加工~粗加工~高进给	TNMG 160408PT	9.525	4.76	3.81	0.8	●	●	●	●
	160412PT				1.2	●	●	●	●
 半精加工~粗加工~高进给	TNMG 160408GT	9.525	4.76	3.81	0.8	●	●	●	●
	160412GT				1.2	●	●	●	●
 粗加工	TNMG 160404	9.525	4.76	3.81	0.4	●	●	●	●
	160408				0.8	●	●	●	●
	160412				1.2	●	●	●	●
	TNMG 220408	12.70	4.76	5.16	0.8	●	●	●	●
	220412				1.2	●	●	●	●

●：标准库存









形状 分左右手的刀片 图示为右手方向(R)	型号	尺寸(mm)			CVD涂层				
		内接圆直径	厚度	孔径	刀尖角R (r _e)	CA510	CA515	CA525	CA530
 粗加工	TNMG 160408PH	9.525	4.76	3.81	0.8	●	●	●	●
	160412PH				1.2	●	●	●	●
	TNMG 220408PH	12.70	4.76	5.16	0.8	●	●	●	●
220412PH	1.2				●	●	●	●	
220416PH	1.6				●	●	●	●	
 单面/粗加工~高进给	TNMM 160408PX	9.525	4.76	3.81	0.8	●	●	●	●
	160412PX				1.2	●	●	●	●
	TNMM 220408PX	12.70	4.76	5.16	0.8	●	●	●	●
	220412PX				1.2	●	●	●	●
220416PX	1.6	●	●	●	●				
 软钢-精	TNMG 160404XP	9.525	4.76	3.81	0.4	●	●	●	●
	160408XP				0.8	●	●	●	●
 软钢-中切削	TNMG 160404XQ	9.525	4.76	3.81	0.4	●	●	●	●
	160408XQ				0.8	●	●	●	●
 软钢-粗切削	TNMG 160408XS	9.525	4.76	3.81	0.8	●	●	●	●
	TNMG 160404				9.525	4.76	3.81	0.4	●
160408 ^R /L-ST	0.8	●	●	●				●	
 半精加工~粗加工	VNMG 160402PP	9.525	4.76	3.81	0.2	●	●	●	●
	160404PP				0.4	●	●	●	●
	160408PP				0.8	●	●	●	●
	160412PP				1.2	●	●	●	●
 精加工	VNMG 160402GP	9.525	4.76	3.81	0.2	●	●	●	●
	160404GP				0.4	●	●	●	●
	160408GP				0.8	●	●	●	●
 精加工~半精加工	VNMG 160404 ^R /L-VC	9.525	4.76	3.81	0.4	●	●	●	●
	160408 ^R /L-VC				0.8	●	●	●	●
	160412 ^R /L-VC				1.2	●	●	●	●
 精加工~半精加工	VNMG 160404VF	9.525	4.76	3.81	0.4	●	●	●	●
	160408VF				0.8	●	●	●	●
	160412VF				1.2	●	●	●	●
 精加工~半精加工	VNMG 160404PQ	9.525	4.76	3.81	0.4	●	●	●	●
	160408PQ				0.8	●	●	●	●
	160412PQ				1.2	●	●	●	●
 精加工~半精加工	VNMG 160404HQ	9.525	4.76	3.81	0.4	●	●	●	●
	160408HQ				0.8	●	●	●	●
	160412HQ				1.2	●	●	●	●
 粗加工	VNMG 160404	9.525	4.76	3.81	0.4	●	●	●	●
	160408				0.8	●	●	●	●

●：标准库存

标准库存型号(负角)




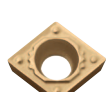







形状	型号	尺寸(mm)			CVD涂层				
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 精/有修光刃	WNMG 080404WF	12.70	4.76	5.16	0.4	●	●	●	●
	080408WF				0.8	●	●	●	●
 精/有修光刃	WNMG 080404WP	12.70	4.76	5.16	0.4	●	●	●	●
	080408WP				0.8	●	●	●	●
 精~中/有修光刃	WNMG 080404WE	12.70	4.76	5.16	0.4	●	●	●	●
	080408WE				0.8	●	●	●	●
	080412WE				1.2	●	●	●	●
 精~中/有修光刃	WNMG 080404WQ	12.70	4.76	5.16	0.4	●	●	●	●
	080408WQ				0.8	●	●	●	●
	080412WQ				1.2	●	●	●	●
 精加工	WNMG 080402PP	12.70	4.76	5.16	0.2	●	●	●	●
	080404PP				0.4	●	●	●	●
	080408PP				0.8	●	●	●	●
	080412PP				1.2	●	●	●	●
 精加工~半精加工	WNMG 080404PQ	12.70	4.76	5.16	0.4	●	●	●	●
	080408PQ				0.8	●	●	●	●
	080412PQ				1.2	●	●	●	●
 精加工~半精加工	WNMG 06T304HQ	9.525	3.97	3.81	0.4			●	●
	06T308HQ				0.8			●	●
	WNMG 060404HQ	9.525	4.76	3.81	0.4	●	●	●	●
	060408HQ				0.8	●	●	●	●
	WNMG 080404HQ	12.70	4.76	5.16	0.4	●	●	●	●
	080408HQ				0.8	●	●	●	●
080412HQ	1.2	●	●	●	●				
 精~中+提拉	WNMG 080404CQ	12.70	4.76	5.16	0.4	●	●	●	●
	080408CQ				0.8	●	●	●	●
	080412CQ				1.2	●	●	●	●
 精~中+提拉	WNMG 080408CJ	12.70	4.76	5.16	0.8	●	●	●	●
	080412CJ				1.2	●	●	●	●
 半精加工~粗加工	WNMG 060404GS	9.525	4.76	3.81	0.4	●	●	●	●
	060408GS				0.8	●	●	●	●
	WNMG 080404GS	12.70	4.76	5.16	0.4	●	●	●	●
	080408GS				0.8	●	●	●	●
080412GS	1.2	●	●	●	●				
 半精加工~粗加工	WNMG 080404PG	12.70	4.76	5.16	0.4	●	●	●	●
	080408PG				0.8	●	●	●	●
	080412PG				1.2	●	●	●	●
	080416PG				1.6	●	●	●	●

●：标准库存



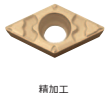

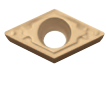






形状	型号	尺寸(mm)			CVD涂层				
		内接圆直径	厚度	孔径	刀尖角R (re)	CA510	CA515	CA525	CA530
 半精加工~粗加工	WNMG 080404PS	12.70	4.76	5.16	0.4	●	●	●	●
	080408PS				0.8	●	●	●	●
	080412PS				1.2	●	●	●	●
	080416PS				1.6	●	●	●	●
 半精加工~粗加工+高进给	WNMG 080408PT	12.70	4.76	5.16	0.8	●	●	●	●
	080412PT				1.2	●	●	●	●
 半精加工~粗加工+高进给	WNMG 080408GT	12.70	4.76	5.16	0.8	●	●	●	●
	080412GT				1.2	●	●	●	●
 粗加工	WNMG 080404	12.70	4.76	5.16	0.4	●	●	●	●
	080408				0.8	●	●	●	●
	080412				1.2	●	●	●	●
 粗加工	WNMG 080408PH	12.70	4.76	5.16	0.8	●	●	●	●
	080412PH				1.2	●	●	●	●
 软钢~精	WNMG 080404XP	12.70	4.76	5.16	0.4	●	●	●	●
	080408XP				0.8	●	●	●	●
 软钢~中切屑	WNMG 080404XQ	12.70	4.76	5.16	0.4	●	●	●	●
	080408XQ				0.8	●	●	●	●
 软钢~粗切屑	WNMG 080408XS	12.70	4.76	5.16	0.8	●	●	●	●

●：标准库存

标准库存型号(正角)












形状	型号	尺寸(mm)				刀尖角 R (r°)	后角	CVD涂层			
		内接圆直径	厚度	孔径	CA510			CA515	CA525	CA530	
 精/有修光刀	CCMT 060202WP	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	060204WP				0.4		●	●	●	●	
	060208WP				0.8		●	●	●	●	
	CCMT 09T302WP	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	09T304WP				0.4		●	●	●	●	
	09T308WP				0.8		●	●	●	●	
 精加工	CCMT 060202PP	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	060204PP				0.4		●	●	●	●	
	CCMT 09T302PP	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	09T304PP				0.4		●	●	●	●	
	09T308PP				0.8		●	●	●	●	
	 精加工~半精加工	CCMT 060202GK	6.35	2.38	2.8	0.2	7°	●	●	●	●
060204GK		0.4				●		●	●	●	
CCMT 09T302GK		9.525	3.97	4.4	0.2	7°	●	●	●	●	
09T304GK					0.4		●	●	●	●	
CCMT 120404GK		12.70	4.76	5.5	0.4	7°	●	●	●	●	
120408GK					0.8		●	●	●	●	
120412GK	1.2				●		●	●	●		
 精加工~半精加工	CCMT 060202HQ	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	060204HQ				0.4		●	●	●	●	
	CCMT 09T302HQ	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	09T304HQ				0.4		●	●	●	●	
	09T308HQ				0.8		●	●	●	●	
	 半精加工	CCMT 09T308	9.525	3.97	4.4	0.8	7°	●	●	●	●
 精加工	CPMT 080202PP	7.94	2.38	3.3	0.2	11°	●	●	●	●	
	080204PP				0.4		●	●	●	●	
	CPMT 090302PP	9.525	3.18	4.4	0.2	11°	●	●	●	●	
	090304PP				0.4		●	●	●	●	
	090308PP				0.8		●	●	●	●	
	 精加工	CPMT 080204GP	7.94	2.38	3.3	0.4	11°	●	●	●	●
CPMT 090304GP		9.525	3.18	4.4	0.4	11°	●	●	●	●	
090308GP					0.8		●	●	●	●	
 精加工~半精加工	CPMH 080204HQ	7.94	2.38	3.5	0.4	11°	●	●	●	●	
	080208HQ				0.8		●	●	●	●	
	CPMH 090304HQ	9.525	3.18	4.5	0.4	11°	●	●	●	●	
	090308HQ				0.8		●	●	●	●	
	 半精加工	CPMH 080204	7.94	2.38	3.5	0.4	11°	●	●	●	●
080208		0.8				●		●	●	●	
CPMH 090304		9.525	3.18	4.5	0.4	11°	●	●	●	●	
090308					0.8		●	●	●	●	
 软钢·精	CPMT 080204XP	7.94	2.38	3.3	0.4	11°	●	●	●	●	
	CPMT 090304XP				9.525		3.18	4.4	0.4	11°	●
	CPMT 090308XP	0.8	●	●		●			●		
	 软钢·精~中	CPMT 090304XQ	9.525	3.18	4.4	0.4	11°	●	●	●	●
		CPMT 090308XQ				0.8		●	●	●	●

●：标准库存


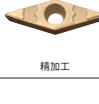


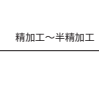

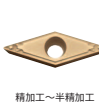


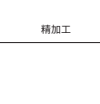


形状	型号	尺寸(mm)				刀尖角 R (r°)	后角	CVD涂层			
		内接圆直径	厚度	孔径	CA510			CA515	CA525	CA530	
 精/有修光刀	DCMX 070202WP	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	070204WP				0.4		●	●	●	●	
	070208WP				0.8		●	●	●	●	
	DCMX 11T302WP	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	11T304WP				0.4		●	●	●	●	
	11T308WP				0.8		●	●	●	●	
 精加工	DCMT 070202PP	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	070204PP				0.4		●	●	●	●	
	DCMT 11T302PP	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	11T304PP				0.4		●	●	●	●	
	11T308PP				0.8		●	●	●	●	
	 精加工	DCMT 070202GP	6.35	2.38	2.8	0.2	7°	●	●	●	●
070204GP		0.4				●		●	●	●	
DCMT 11T304GP		9.525	3.97	4.4	0.4	7°	●	●	●	●	
11T308GP					0.8		●	●	●	●	
 精加工		DCMT 070202GK	6.35	2.38	2.8	0.2	7°	●	●	●	●
	070204GK	0.4				●		●	●	●	
	070208GK	0.8				●		●	●	●	
	DCMT 11T302GK	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	11T304GK				0.4		●	●	●	●	
	11T308GK				0.8		●	●	●	●	
 精加工~半精加工	DCMT 070202HQ	6.35	2.38	2.8	0.2	7°	●	●	●	●	
	070204HQ				0.4		●	●	●	●	
	070208HQ				0.8		●	●	●	●	
	DCMT 11T302HQ	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	11T304HQ				0.4		●	●	●	●	
	11T308HQ				0.8		●	●	●	●	
 软钢·精	DCMT 070204XP	6.35	2.38	2.8	0.4	7°	●	●	●	●	
	DCMT 11T302XP	9.525	3.97	4.4	0.2	7°	●	●	●	●	
	11T304XP				0.4		●	●	●	●	
	11T308XP				0.8		●	●	●	●	
	 软钢·精~中	DCMT 11T304XQ	9.525	3.97	4.4	0.4	7°	●	●	●	●
		11T308XQ				0.8		●	●	●	●
 半精加工	RCMX 1003M0	10.0	3.18	3.6	—	7°	●	●	●	●	
	RCMX 1204M0	12.0	4.76	4.2	—	—	●	●	●	●	
 精加工~半精加工	SCMT 09T304HQ	9.525	3.97	4.4	0.4	7°	●	●	●	●	
	09T308HQ				0.8		●	●	●	●	
 半精加工	SPMR 090304	9.525	3.18	—	0.4	11°	●	●	●	●	
	090308				0.8		●	●	●	●	
	SPMR 120304	12.70	3.18	—	0.4	11°	●	●	●	●	
	120308				0.8		●	●	●	●	
 精加工	TBMT 060102DP	3.97	1.59	2.3	0.2	5°	●	●	●	●	
	060104DP				0.4		●	●	●	●	

●：标准库存

标准库存型号(正角)

形状	型号	尺寸(mm)				后角	CVD涂层				
		内接圆直径	厚度	孔径	刀尖角 R (re)		CA510	CA515	CA525	CA530	
 精/有修光刃	TCMX 090204WP	5.56	2.38	2.5	0.4	7°	●	●	●	●	
	TCMX 110204WP	6.35	2.38	2.8	0.4	7°	●	●	●	●	
 精加工~半精加工	TCMT 110204HQ	6.35	2.38	2.8	0.4	7°	●	●	●	●	
	110208HQ				0.8		●	●	●	●	
 精/有修光刃	TPMX 090202WP	5.56	2.38	3.0	0.2	11°	●	●	●	●	
					090204WP		0.4	●	●	●	●
					090208WP		0.8	●	●	●	●
	110302WP	6.35	3.18	3.3	0.2	11°	●	●	●	●	
					110304WP		0.4	●	●	●	●
					110308WP		0.8	●	●	●	●
 精加工	TPMT 090202PP	5.56	2.38	2.8	0.2	11°	●	●	●	●	
					090204PP		0.4	●	●	●	●
	110302PP	6.35	3.18	3.3	0.2	11°	●	●	●	●	
					110304PP		0.4	●	●	●	●
110308PP	6.35	3.18	3.3	0.4	11°	●	●	●	●		
				0.8		●	●	●	●		
 精加工	TPMT 090204GP	5.56	2.38	2.8	0.4	11°	●	●	●	●	
					110304GP		0.4	●	●	●	●
	110308GP	6.35	3.18	3.3	0.4	11°	●	●	●	●	
					0.8		●	●	●	●	
TPMT 160304GP	9.525	3.18	4.4	0.4	11°	●	●	●	●		
 精加工~半精加工	TPMT 090202HQ	5.56	2.38	2.8	0.2	11°	●	●	●	●	
					090204HQ		0.4	●	●	●	●
	110302HQ	6.35	3.18	3.3	0.2	11°	●	●	●	●	
					110304HQ		0.4	●	●	●	●
					110308HQ		0.8	●	●	●	●
	160304HQ	9.525	3.18	4.4	0.4	11°	●	●	●	●	
160308HQ					0.8		●	●	●	●	
 软钢·精	TPMT 090204XP	5.56	2.38	2.8	0.4	11°	●	●	●	●	
					110304XP		0.4	●	●	●	●
	110308XP	6.35	3.18	3.3	0.4	11°	●	●	●	●	
					0.8		●	●	●	●	
 软钢·精~中	TPMT 110304XQ	6.35	3.18	3.3	0.4	11°	●	●	●	●	
					110308XQ		0.8	●	●	●	●
	160304XQ	9.525	3.18	4.4	0.4	11°	●	●	●	●	
					160308XQ		0.8	●	●	●	●
 精加工	TPMR 160304GP	9.525	3.18	—	0.4	11°	●	●	●	●	
					0.8		●	●	●	●	
 精加工~半精加工	TPMR 110304HQ	6.35	3.18	—	0.4	11°	●	●	●	●	
					110308HQ		0.8	●	●	●	●
	160304HQ	9.525	3.18	—	0.4	11°	●	●	●	●	
					160308HQ		0.8	●	●	●	●
 半精加工	TPMR 110304	6.35	3.18	—	0.4	11°	●	●	●	●	
					110308		0.8	●	●	●	●
	160304	9.525	3.18	—	0.4	11°	●	●	●	●	
160308	0.8				●		●	●	●		

●：标准库存

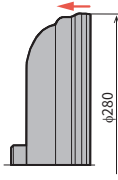
形状	型号	尺寸(mm)				后角	CVD涂层							
		内接圆直径	厚度	孔径	刀尖角 R (re)		CA510	CA515	CA525	CA530				
 精加工	VBMT 110302PP	6.35	3.18	2.8	0.2	5°	●	●	●	●				
	110304PP				0.4		●	●	●	●				
	110308PP				0.8		●	●	●	●				
 精加工	VBMT 160404PP	9.525	4.76	4.4	0.4	5°	●	●	●	●				
	160408PP				0.8		●	●	●	●				
	160412PP				1.2		●	●	●	●				
 精加工	VBMT 110304GP	6.35	3.18	2.8	0.4	5°	●	●	●	●				
	VBMT 160404GP				9.525		4.76	4.4	0.4	5°	●	●	●	●
	160408GP								0.8		●	●	●	●
 精加工	VBMT 110302VF	6.35	3.18	2.8	0.2	5°	●	●	●	●				
					110304VF		0.4	●	●	●	●			
					110308VF		0.8	●	●	●	●			
	VBMT 160402VF	9.525	4.76	4.4	0.2	5°	●	●	●	●				
					160404VF		0.4	●	●	●	●			
					160408VF		0.8	●	●	●	●			
160412VF	1.2	●	●	●	●									
 精加工~半精加工	VBMT 110304HQ	6.35	3.18	2.8	0.4	5°	●	●	●	●				
					110308HQ		0.8	●	●	●	●			
	VBMT 160404HQ	9.525	4.76	4.4	0.4	5°	●	●	●	●				
					160408HQ		0.8	●	●	●	●			
160412HQ	1.2	●	●	●	●									
 精加工	VCMT 080202PP	4.76	2.38	2.3	0.2	7°	●	●	●	●				
					080204PP		0.4	●	●	●	●			
	VCMT 160404PP	9.525	4.76	4.4	0.4	7°	●	●	●	●				
160408PP	0.8				●		●	●	●					
 精加工	VCMT 080202VF	4.76	2.38	2.3	0.2	7°	●	●	●	●				
					080204VF		0.4	●	●	●	●			
 精加工~半精加工	VCMT 080202HQ	4.76	2.38	2.3	0.2	7°	●	●	●	●				
					080204HQ		0.4	●	●	●	●			
 精加工	WBMT 060102L-DP	3.97	1.59	2.3	0.2	5°	L	L	L	L				
					060104L-DP		0.4	L	L	L	L			
 精加工	WBMT 080202L-DP	4.76	2.38	2.3	0.2	5°	L	L	L	L				
					080204L-DP		0.4	L	L	L	L			
 精加工	WPMT 110204GP	6.35	2.38	2.8	0.4	11°	●	●	●	●				
					160304GP		9.525	3.18	4.4	0.4	11°	●	●	●
 精加工	WPMT 110202HQ	6.35	2.38	2.8	0.2	11°	●	●	●	●				
					110204HQ		0.4	●	●	●	●			
	160304HQ	9.525	3.18	4.4	0.4	11°	●	●	●	●				
160308HQ	0.8				●		●	●	●					

●：标准库存
L：只有左手(L)库存

加工实例

轧钢板

汽车零件
Vc=500m/min
ap=0.7mm
f=0.3mm/rev
Wet
CNMG120408PG



加工数
1.3倍

CA510 100个/角

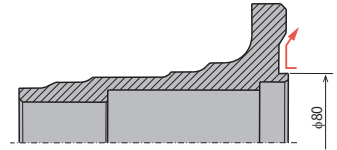
其他公司 CVD涂层F 75个/角

CA510与其他公司CVD涂层F相比加工数提升1.3倍。

(基于用户评价)

S35C相当

汽车零件
Vc=300m/min
ap=1.0mm
f=0.3mm/rev
Wet
DNMG150408PQ



加工数
1.3倍

CA510 200个/角

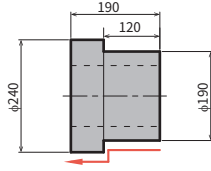
其他公司 CVD涂层G 150个/角

CA510与其他公司CVD涂层G相比加工数提升1.3倍。

(基于用户评价)

SCM440

盖
Vc=140~150m/min
ap=3.0~3.5mm
f=0.35~0.4mm/rev
Wet
CNMG120408PT



加工数
1.4倍

CA515 10个/角

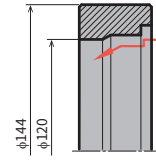
其他公司 CVD涂层H 7个/角

CA515与其他公司CVD涂层H相比,加工数提升1.4倍。

(基于用户评价)

SCr415H

齿轮零件
Vc=380m/min
ap=1.5~2.0mm
f=0.3~0.4mm/rev
Wet
WNMG080408PQ



加工数
1.1倍

CA515 430个/角

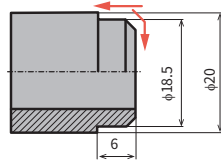
其他公司 CVD涂层I 380个/角

CA515与其他公司CVD涂层I相比,加工数提升。

(基于用户评价)

SS400

机械零件
Vc=170m/min
ap=0.8mm
f=0.2mm/rev
Wet
CNMG120408PQ



加工数
1.4倍

CA525 1,400个以上/角

其他公司 CVD涂层J 800~1,000个/角

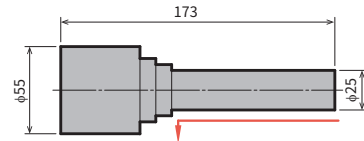
CA525与其他公司CVD涂层J相比,刀具寿命稳定、加工数量提升1.4倍以上。

切屑处理良好。

(基于用户评价)

SCM420

轴
Vc=120m/min
ap=2.0mm
f=0.25mm/rev
Dry
TNMG160408R-ST



加工数
5倍

CA525 10个/角

其他公司 CVD涂层K 2个/角

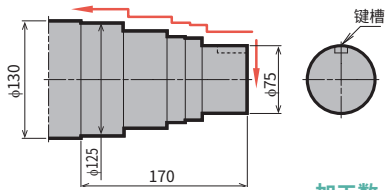
CA525与其他公司CVD涂层K相比,加工数提升5倍。

(基于用户评价)

加工实例

S45C

轴
Vc=250m/min
ap=3.0mm
f=0.3mm/rev
Wet
CNMG120408PS



加工数

CA525

10个/角

1.6倍

其他公司
CVD涂层L
PVD涂层M

L
6个/角

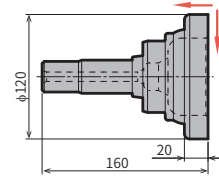
M
1個も加工できず欠損

CA525与其他公司CVD涂层L相比加工数提升1.6倍以上。
其他公司PVD涂层M 1个都没加工完就发生崩损。

(基于用户评价)

SCM420

法兰轴
Vc=260~280m/min
ap=0.6mm
f=0.3~0.5mm/rev
Wet
CNMG120408PQ



加工数

CA525

180个/角

1.2倍

其他公司
CVD涂层N

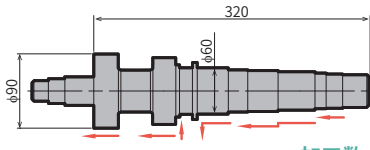
150个/角

CA525与其他公司CVD涂层N相比、加工数提升1.2倍。

(基于用户评价)

S45C

轴
Vc=100m/min
ap=2.0~4.0mm
f=0.4mm/rev
Wet
WNMG080408PS



加工数

CA525

70个/角

1.7倍

其他公司
CVD涂层O

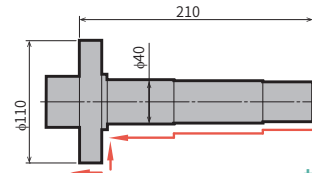
40个/角

CA525与原有CVD涂层O相比、加工数提升1.7倍以上。

(基于用户评价)

SCr420

轴
Vc=90m/min
ap=2.0~3.0mm
f=0.32mm/rev
Wet
WNMG080408PS



加工数

CA525

260个/角

1.3倍

其他公司
CVD涂层P

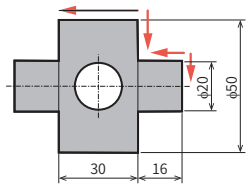
190个/角

CA525与原有CVD涂层P相比、加工数提升1.3倍以上。

(基于用户评价)

SCr420H

齿轮
Vc=180m/min
ap=2.0mm
f=0.2mm/rev
Wet
DNMG150404CQ



加工数

CA530

10个/角

1.25倍

其他公司
CVD涂层Q

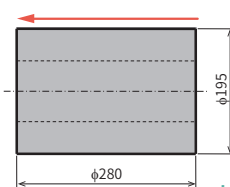
3~8个/角

CA530与其他公司CVD涂层Q相比加工数平均提升1.25倍。

(基于用户评价)

13Cr

机械零件
Vc=100m/min
ap=2.0mm
f=0.4mm/rev
Wet
SNMG120412PH



加工数 加工能率

CA530

9个/角

1.8倍

11%

其他公司
CVD涂层R

5个/角

CA530与其他公司CVD涂层R相比加工数提升约1.8倍。

加工效率提升11%

(基于用户评价)

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