

小零件精密加工用

NEW

稳定加工与高质量的精加工面

JP1725

在以钢加工为首的多种材料加工中发挥作用，可实现工具的

高效广泛加工领域，拥有多种断屑槽系列

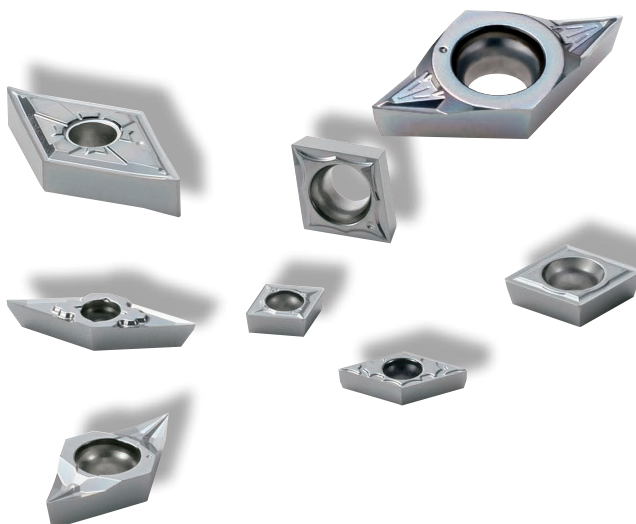
JP1535

在不锈钢加工中实现优异耐磨损性和高精度加工

JV720

钢加工用混合金属陶瓷

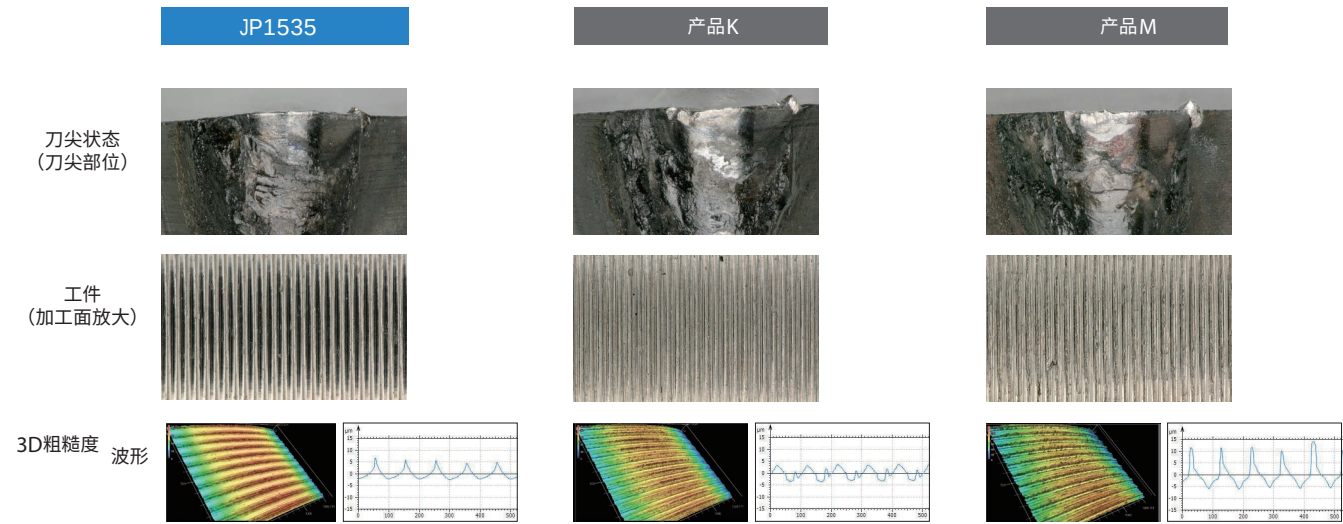
实现高品质和高效率加工



JP1535

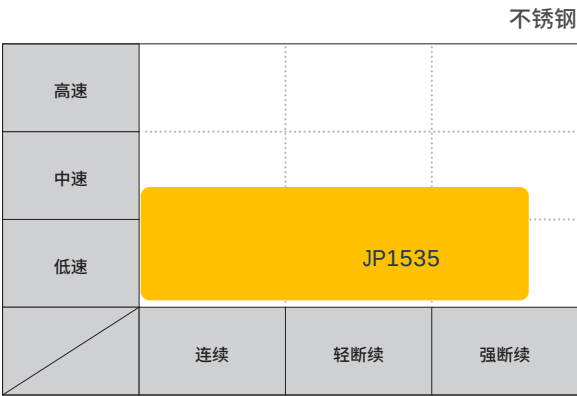
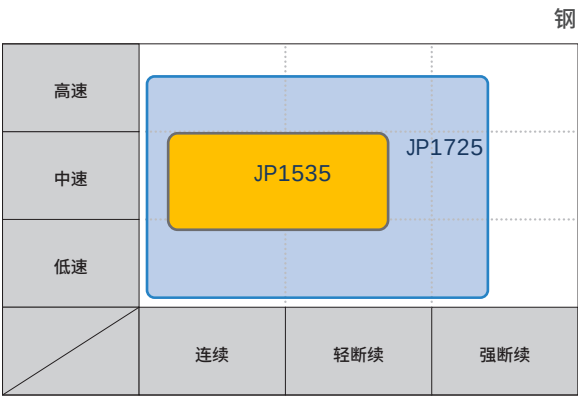
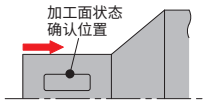
不仅是 不锈钢加工，亦可实现 钢・易切刚的加工
实现 减少刀具品种，降低采购成本。

刀尖状态与加工面品质对比 SUS304



在加工 不锈钢SUS304 方面，JP1535 刀尖损伤小，加工面光泽度良好

切削参数：Vc=150m/min, ap=0.5mm, f=0.1mm/rev, Wet 加工材料：SUS304



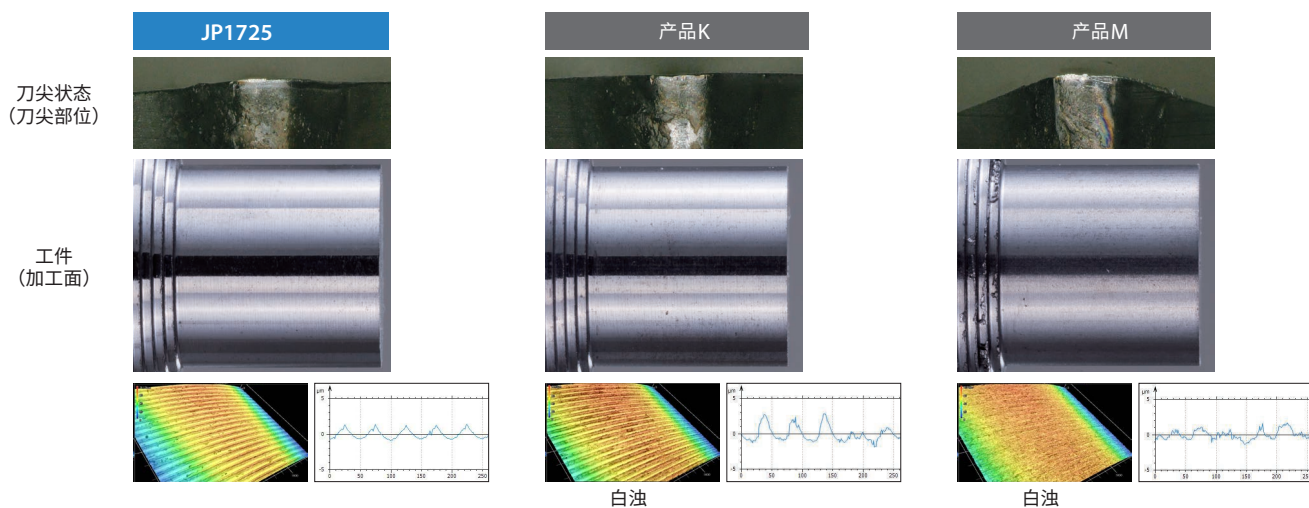
JP1725

钢加工的推荐。实现稳定加工与高质量的精加工面
在自动车床等的小零件加工方面可发挥优质作用

通过实现稳定加工提高设备运转效率

通过抑制白浊实现优质的精加工面来降低品质管理成本

刀尖磨损状态和加工完成面品质对比 (S45C)



磨损状态・加工面稳定

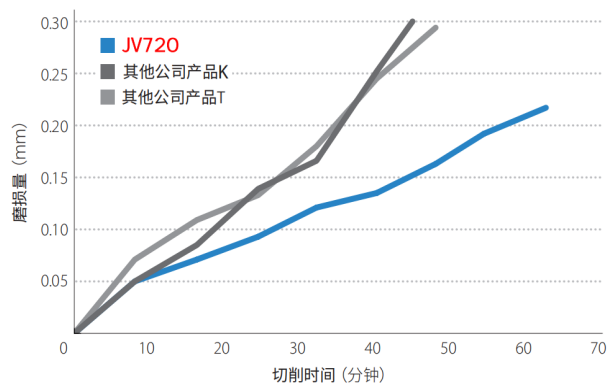
切削参数：Vc=150m/min, ap=0.5mm, f=0.05mm/rev, Wet 加工材料：S45C

JV720

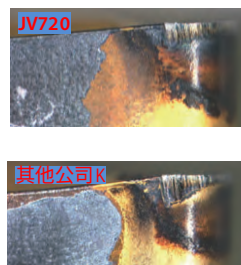
钢加工混合金属陶瓷

高效率高品质涂层金属陶瓷

耐磨损性对比



切削参数：Vc = 250 m/min, ap = 1.0 mm, f = 0.2 mm/rev, Wet, CNMG120408型 加工材料：SCM435



标准库存型号

形状	型号	尺寸 (mm)							
		内接圆直径	厚度	孔径	刀尖R (RE)	后角	JP1725	JW720	JP1535
 精加工·锋利刀尖	CCGT 0301005R/L-F	3.5	1.4	1.9	0.05	7°	●	●	●
	030101R/L-F				0.1		●	●	●
	030102R/L-F				0.2		●	●	●
	030104R/L-F				0.4		●	●	●
	0401005R/L-F	4.3	1.8	2.3	0.05	7°	●	●	●
	040101R/L-F				0.1		●	●	●
	040102R/L-F				0.2		●	●	●
	040104R/L-F				0.4		●	●	●
 低进给·锋利刀尖	CCGT 060201Fr/L-U	6.35	2.38	2.8	0.1	7°	●	●	●
	060202Fr/L-U				0.2		●	●	●
	060204Fr/L-U				0.4		●	●	●
	09T301Fr/L-U	9.525	3.97	4.4	0.1	7°	●	●	●
	09T302Fr/L-U				0.2		●	●	●
	09T304Fr/L-U				0.4		●	●	●
 低进给·锋利刀尖	CCGT 060201Fr/L-J	6.35	2.38	2.8	0.1	7°	●	●	●
	060202Fr/L-J				0.2		●	●	●
	060204Fr/L-J				0.4		●	●	●
	09T301Fr/L-J	9.525	3.97	4.4	0.1	7°	●	●	●
	09T302Fr/L-J				0.2		●	●	●
	09T304Fr/L-J				0.4		●	●	●
 精加工·锋利刀尖	CCGT 09T3005Mr/L-P	9.525	3.97	4.4	<0.05	7°	●	●	●
	09T301Mr/L-P				<0.1		●	●	●
	09T302Mr/L-P				<0.2		●	●	●
	09T304Mr/L-P				<0.4		●	●	●
 精加工~半精加工	CCMT 060202HQ	6.35	2.38	2.8	0.2	7°	●	●	●
	060204HQ				0.4		●	●	●
	060208HQ				0.8		●	●	●
	09T302HQ	9.525	3.97	4.4	0.2	7°	●	●	●
	09T304HQ				0.4		●	●	●
	09T308HQ				0.8		●	●	●
 精加工·锋利刀尖· 镜面规格	CCGT 060201M-PCK	6.35	2.38	2.8	<0.1	7°	●	●	●
	060202M-PCK				<0.2		●	●	●
	09T301M-PCK	9.525	3.97	4.4	<0.1	7°	●	●	●
	09T302M-PCK				<0.2		●	●	●
 精加工~半精加工	CCGT 060201M-YL	6.35	2.38	2.8	<0.1	7°	●	●	●
	060202M-YL				<0.2		●	●	●
	060204M-YL				<0.4		●	●	●
	09T301M-YL	9.525	3.97	4.4	<0.1	7°	●	●	●
	09T302M-YL				<0.2		●	●	●
	09T304M-YL				<0.4		●	●	●
 精加工~半精加工	DCMT 070202HQ	6.35	2.38	2.8	0.2	7°	●	●	●
	070204HQ				0.4		●	●	●
	070208HQ				0.8		●	●	●
	11T302HQ	9.525	3.97	4.4	0.2	7°	●	●	●
	11T304HQ				0.4		●	●	●
	11T308HQ				0.8		●	●	●
 精加工·锋利刀尖	DCGT 070201-YL	6.35	2.38	2.8	0.1	7°	●	●	●
	070202-YL				0.2		●	●	●
	11T301-YL				0.1		●	●	●
	11T302-YL	9.525	3.97	4.4	0.2	7°	●	●	●
	11T304-YL				0.4		●	●	●
 精加工·锋利刀尖	DCGT 070201R/L-S	6.35	2.38	2.8	0.1	7°	●	●	●
	070202R/L-S				0.2		●	●	●
	070204R/L-S				0.4		●	●	●
	11T3005R/L-S	9.525	3.97	4.4	0.05	7°	●	●	●
	11T301R/L-S				0.1		●	●	●
	11T302R/L-S				0.2		●	●	●
	11T304R/L-S				0.4		●	●	●

· 刀尖R(RE)尺寸用不等号(例: <0.1, <0.2等)符号的刀片的刀尖R(RE)为负公差产品。

形状	型号	尺寸 (mm)							
		内接圆直径	厚度	孔径	刀尖R (RE)	后角	JP1725	JW720	JP1535
 精加工·锋利刀尖· 镜面规格	DCGT 070201-CK	6.35	2.38	2.8	0.1	7°	●	●	●
	070202-CK				0.2		●	●	●
	11T301-CK	9.525	3.97	4.4	0.1		●	●	●
	11T302-CK				0.2		●	●	●
	11T304-CK				0.4		●	●	●
 低进给·锋利刀尖	DCGT 11T301Er/L-J	9.525	3.97	4.4	0.1	7°	●	●	●
	11T302Er/L-J				0.2		●	●	●
	11T304Er/L-J				0.4		●	●	●
 低进给·锋利刀尖	DCGT 0702005Er/L-U	6.35	2.38	2.8	0.05	7°	●	●	●
	070201Er/L-U				0.1		●	●	●
	070202Er/L-U				0.2		●	●	●
	070204Er/L-U				0.4		●	●	●
	11T3005Er/L-U				0.05		●	●	●
	11T301Er/L-U	9.525	3.97	4.4	0.1		●	●	●
	11T302Er/L-U				0.2		●	●	●
	11T304Er/L-U				0.4		●	●	●
	TBGT 0601005R/L	3.97	1.59	2.3	0.05		●	L	●
	060101R/L				0.1		●	L	●
	060102R/L				0.2		●	L	●
	060104R/L				0.4		●	L	●
 精加工~半精加工	TBMT 060101DP	3.97	1.59	2.3	0.1	5°	○	○	○
	060102DP				0.2		●	●	●
	060104DP				0.4		●	●	●
	TPMT 090202HQ				0.2		●	●	●
	090204HQ	5.56	2.38	2.8	0.4		●	●	●
 精加工~半精加工	090208HQ				0.8	11°	●	●	●
	110302HQ	6.35	3.18	3.3	0.2		●	●	●
	110304HQ				0.4		●	●	●
	110308HQ				0.8		●	●	●
	160302HQ				0.2		●	●	●
	160304HQ	9.525	3.97	4.4	0.4		●	●	●
	160308HQ				0.8		●	●	●
	TPGH 080201R/L	4.76	2.38	2.3	0.1		●	●	●
	080202R/L				0.2		●	●	●
	080204R/L				0.4		●	●	●
 半精切削 超精密	090201R/L	5.56	2.38	2.8	0.1	11°	●	●	●
	090202R/L				0.2		●	●	●
	090204R/L				0.4		●	●	●
	110301R/L	6.35	3.18	3.3	0.1		●	●	●
	110302R/L				0.2		●	●	●
	110304R/L				0.4		●	●	●
	110308R/L				0.8		●	●	●
	TPGH 090201R/L-H	5.56	2.38	2.8	0.1		●	●	●
	090202R/L-H				0.2		●	●	●
	090204R/L-H				0.4		●	●	●
 低进给·锋利刀尖· 精密加工对应	1103005R/L-H	6.35	3.18	3.3	0.05		●	●	●
	110301R/L-H				0.1		●	●	●
	110302R/L-H				0.2		●	●	●
	110304R/L-H	9.525	3.97	4.4	0.4		●	●	●
	TPET 080202F R/L-U				0.2	11°	●	●	●
	080204F R/L-U				0.4		●	●	●
	090202F R/L-U				0.8		●	●	●
	090204F R/L-U				0.4		●	●	●
	110301F R/L-U	6.35	3.18	3.3	0.8		●	●	●
	110302F R/L-U				0.4		●	●	●
	110304F R/L-U				0.8		●	●	●

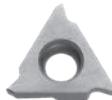
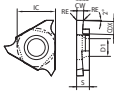
●: 标准

标准库存型号

形状 有方向的刀片 图示为左手(L)	型号	尺寸(mm)							
		内接圆 直径	厚度	孔径	刀尖R (RE)	后角	JP775	JV720	JP1535
 精加工·半精加工	VBMT 110302HQ	6.35	3.18	2.8	0.2	5°	O	O	O
	110304HQ				0.4		●	●	●
	110308HQ				0.8		●	●	●
	160402HQ	9.525	4.76	4.4	0.2		O	O	O
	160404HQ				0.4		●	●	●
	160408HQ				0.8		●	●	●
 精加工·锋利刀尖	VBGT 110301-YL	6.35	3.18	2.8	0.1	5°	●		●
	110302-YL				0.2		●		●
	110304-YL				0.4		●		●
 精加工·锋利刀尖	VBGT 110301R/L-F	6.35	3.18	2.8	0.1	5°	●	●	●
	110302R/L-F				0.2		●	●	●
	110304R/L-F				0.4		●	●	●
	160401R/L-F	9.525	4.76	4.4	0.1		●	●	●
	160402R/L-F				0.2		●	●	●
	160404R/L-F				0.4		●	●	●
	160408R/L-F				0.8		●	●	●
 精加工·半精加工	VBGT 1103005R/L-Y	6.35	3.18	2.8	0.05	5°	●	●	●
	110301R/L-Y				0.1		●	●	●
	110302R/L-Y				0.2		●	●	●
	110304R/L-Y				0.4		●	●	●
	160401R/L-Y	9.525	4.76	4.4	0.1		●	●	●
	160402R/L-Y				0.2		●	●	●
	160404R/L-Y				0.4		●	●	●
	160408R/L-Y				0.8		●	●	●
 精加工·锋利刀尖	WBGT 0601005Mr/L-F	3.97	1.59	2.3	<0.05	5°	●	●	●
	060101Mr/L-F				<0.1		●	●	●
	060102Mr/L-F				<0.2		●	●	●
	060104Mr/L-F				<0.4		●	●	●
	WBMT 060102R/L-DP	3.97	1.59	2.3	0.2		●	●	●
 精加工	060104R/L-DP				0.4	5°	●	●	●
 精加工·半精加工	TNMG 160404R/L-CT	9.525	4.76	3.81	0.4	0°	●	●	●
	160408R/L-CT				0.8		●	●	●
 精加工·半精加工	TNMG 160404HQ	9.525	4.76	3.81	0.4	0°	●	●	●
	160408HQ				0.8		●	●	●
 精加工·半精加工	TNGG 160401MF-PSK	9.525	4.76	3.81	<0.1	0°	●		●
	160402MF-PSK				<0.2		●		●
	160404MF-PSK				<0.4		●		●
 精加工·半精加工	TNGG 160401R/L	9.525	4.76	3.81	0.1	0°	●	●	●
	160402R/L				0.2		●	●	●
	160404R/L				0.4		●	●	●
	160408R/L				0.8		●	●	●
 精加工·半精加工	TNGG 160402R/L-B	9.525	4.76	3.81	0.2	0°	●	●	●
	160404R/L-B				0.4		●	●	●
 半精加工·粗加工	TNGG 160402R/L-C	9.525	4.76	3.81	0.2	0°	●	●	●
	160404R/L-C				0.4		●	●	●
 精加工·重切削精度	TNGG 160401R/L-S	9.525	4.76	3.81	0.1	0°	●	●	●
	160402R/L-S				0.2		●	●	●
	160404R/L-S				0.4		●	●	●

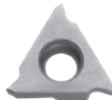
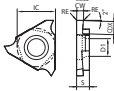
●：标准库存 L：仅有左手(L)库存

标准库存型号

		碳钢 / 合金钢										●	☺	●	P
		不锈钢										○	●		M
		铸铁													K
		有色金属													N
		钛合金											●		S
		高硬度材(40HRC以下)													H
高硬度材(40HRC以上)															
形 状		型 号	使用刀尖数	尺寸 (mm)						公差 (mm)					适用刀杆
				CW	CDX	IC	S	D1	RE	CW min.	CW max.				
												JP1725	JP1535	JV720	
 	GBF32R/L	025-005	3	0.25	0.6	9.525	3.18	4.4	0.05	-0.02	+0.02	●	●	●	KGBFR...-16F KGBFSR/L...-16 S...KGBFR/L16
	030-005	0.3		0.8	0.05				-0.02	+0.02	●	●	●		
	033-005	0.33		0.8	0.05				-0.025	+0.015	●	●	●		
	043-005	0.43		0.8	0.05				-0.025	+0.015	●	●	●		
	050-005	0.5		1	0.05				-0.02	+0.02	●	●	●		
	053-005	0.53		1.2	0.05				-0.025	+0.015	●	●	●		
	065-005	0.65		1.2	0.05				-0.02	+0.02	●	●	●		
	075-005	0.75		1.2	0.05				-0.02	+0.02	●	●	●		
	075-010	0.75		2	0.1				-0.02	+0.02	●	●	●		
	080-005	0.8		2	0.05				-0.02	+0.02	●	●	●		
	080-010	0.8		2	0.1				-0.02	+0.02	●	●	●		
	095-005	0.95		2	0.05				-0.02	+0.02	●	●	●		
	095-010	0.95		2	0.1				-0.02	+0.02	●	●	●		
	100-005	1		2	0.05				-0.02	+0.02	●	●	●		
	100-010	1		2	0.1				-0.02	+0.02	●	●	●		
	110-005	1.1		2	0.05				-0.02	+0.02	●	●	●		
	110-010	1.1		2	0.1				-0.02	+0.02	●	●	●		
	120-005	1.2		2	0.05				-0.02	+0.02	●	●	●		
	120-010	1.2		2	0.1				-0.02	+0.02	●	●	●		
	125-005	1.25		2	0.05				-0.02	+0.02	●	●	●		
	125-010	1.25		2	0.1				-0.02	+0.02	●	●	●		
	130-005	1.3		2	0.05				-0.02	+0.02	●	●	●		
	130-010	1.3		2	0.1				-0.02	+0.02	●	●	●		
	140-005	1.4		2.7	0.05				-0.02	+0.02	●	●	●		
	140-010	1.4		2.7	0.1				-0.02	+0.02	●	●	●		
	145-005	1.45		2.7	0.05				-0.02	+0.02	●	●	●		
	145-010	1.45		2.7	0.1				-0.02	+0.02	●	●	●		
	150-005	1.5		2.7	0.05				-0.02	+0.02	●	●	●		
	150-010	1.5		2.7	0.1				-0.02	+0.02	●	●	●		
	165-005	1.65		2.7	0.05				-0.02	+0.02	●	●	●		
	165-010	1.65		2.7	0.1				-0.02	+0.02	●	●	●		
	170-005	1.7		3	0.05				-0.02	+0.02	●	●	●		
	170-010	1.7		3	0.1				-0.02	+0.02	●	●	●		
	175-005	1.75		3	0.05				-0.02	+0.02	●	●	●		
	175-010	1.75		3	0.1				-0.02	+0.02	●	●	●		
	200-005	2		3	0.05				-0.02	+0.02	●	●	●		
	200-010	2		3	0.1				-0.02	+0.02	●	●	●		
	225-005	2.25		3	0.05				-0.02	+0.02	●	●	●		
	225-010	2.25		3	0.1				-0.02	+0.02	●	●	●		
	250-005	2.5		3	0.05				-0.02	+0.02	●	●	●		
	250-010	2.5		3	0.1				-0.02	+0.02	●	●	●		
	300-005	3		3	0.05				-0.02	+0.02	●	●	●		
	300-010	3		3	0.1				-0.02	+0.02	●	●	●		

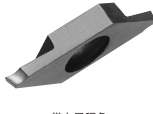
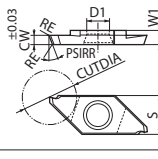
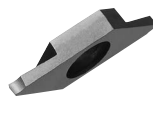
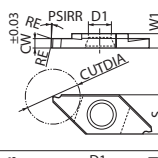
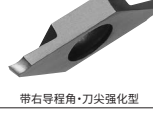
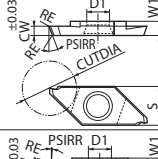
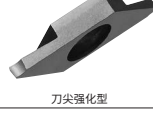
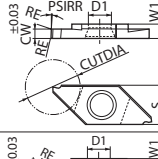
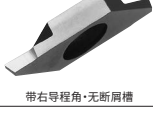
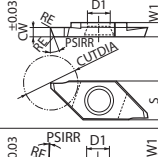
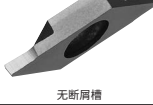
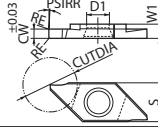
有方向的刀片图示为右手(R)

标准库存型号

		碳钢 / 合金钢										●	☺	●	P	
		不锈钢										○	●		M	
		铸铁													K	
		有色金属													N	
		钛合金											●		S	
		高硬度材(40HRC以下)													H	
高硬度材(40HRC以上)																
形 状		型 号		使用刀尖数	尺寸 (mm)						公差 (mm)					适用刀杆
					CW	CDX	IC	S	D1	RE	CW min.	CW max.		JP1725	JP1535	
		TGF32R/L	025-005	3	0.25	0.6	9.525	3.18	4.4	0.05	-0.02	+0.02	●	●	●	KTGFR...-16F KTGFSR/L...-16 S...KTGFR/L16
		030-005	0.3		0.8	0.05				-0.02	+0.02	●	●	●		
		033-005	0.33		0.8	0.05				-0.025	+0.015	●	●	●		
		043-005	0.43		0.8	0.05				-0.025	+0.015	●	●	●		
		050-005	0.5		1	0.05				-0.02	+0.02	●	●	●		
		053-005	0.53		1.2	0.05				-0.025	+0.015	●	●	●		
		065-005	0.65		1.2	0.05				-0.02	+0.02	●	●	●		
		075-005	0.75		1.2	0.05				-0.02	+0.02	●	●	●		
		075-010	0.75		2	0.1				-0.02	+0.02	●	●	●		
		080-005	0.8		2	0.05				-0.02	+0.02	●	●	●		
		080-010	0.8		2	0.1				-0.02	+0.02	●	●	●		
		095-005	0.95		2	0.05				-0.02	+0.02	●	●	●		
		095-010	0.95		2	0.05				-0.02	+0.02	●	●	●		
		100-005	1		2	0.1				-0.02	+0.02	●	●	●		
		100-010	1		2	0.05				-0.02	+0.02	●	●	●		
		110-005	1.1		2	0.1				-0.02	+0.02	●	●	●		
		110-010	1.1		2	0.05				-0.02	+0.02	●	●	●		
		120-005	1.2		2	0.1				-0.02	+0.02	●	●	●		
		120-010	1.2		2	0.05				-0.02	+0.02	●	●	●		
		125-005	1.25		2	0.1				-0.02	+0.02	●	●	●		
		125-010	1.25		2	0.05				-0.02	+0.02	●	●	●		
		130-005	1.3		2	0.1				-0.02	+0.02	●	●	●		
		130-010	1.3		2	0.05				-0.02	+0.02	●	●	●		
		140-005	1.4		2.7	0.1				-0.02	+0.02	●	●	●		
		140-010	1.4		2.7	0.05				-0.02	+0.02	●	●	●		
		145-005	1.45		2.7	0.1				-0.02	+0.02	●	●	●		
		145-010	1.45		2.7	0.05				-0.02	+0.02	●	●	●		
		150-005	1.5		2.7	0.1				-0.02	+0.02	●	●	●		
		150-010	1.5		2.7	0.05				-0.02	+0.02	●	●	●		
		165-005	1.65		2.7	0.1				-0.02	+0.02	●	●	●		
		165-010	1.65		2.7	0.05				-0.02	+0.02	●	●	●		
		170-005	1.7		3	0.1				-0.02	+0.02	●	●	●		
		170-010	1.7		3	0.05				-0.02	+0.02	●	●	●		
		175-005	1.75		3	0.1				-0.02	+0.02	●	●	●		
		175-010	1.75		3	0.05				-0.02	+0.02	●	●	●		
		200-005	2		3	0.1				-0.02	+0.02	●	●	●		
		200-010	2		3	0.05				-0.02	+0.02	●	●	●		
		225-005	2.25		3	0.1				-0.02	+0.02	●	●	●		
		225-010	2.25		3	0.05				-0.02	+0.02	●	●	●		
		250-005	2.5		3	0.1				-0.02	+0.02	●	●	●		
		250-010	2.5		3	0.05				-0.02	+0.02	●	●	●		
		300-005	3		3	0.1				-0.02	+0.02	●	●	●		
		300-010	3		3	0.05				-0.02	+0.02	●	●	●		

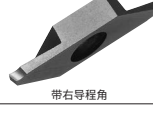
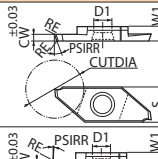
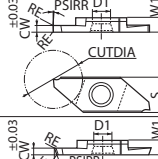
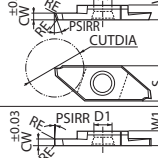
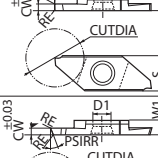
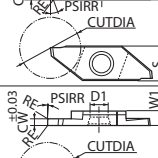
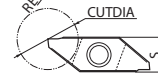
有方向的刀片图示为右手(R)

标准库存型号

形状 图示为右手 (R)		型号	尺寸 (mm)						角度					适用刀杆	
			CW	CUTDIA	RE	W1	S	D1	PSIRR	JP1725		JP1535			
 带右导程角		TKF12 ^R /L 050-S-16DR 070-S-16DR 100-S-16DR 125-S-16DR 150-S-16DR 200-S-16DR	0.5	5	0.03	3	8.7	5	16°		R	L	R	L	KTKF ^R /L...12
			0.7	8							●	●	●	●	
			1.0	12							●	●	●	●	
			1.25								●	●	●	●	
			1.5								●	●	●	●	
			2.0								●	●	●	●	
 带右导程角		TKF12 ^R /L 050-S 070-S 100-S 125-S 150-S 200-S	0.5	5	0.03	3	8.7	5	0°		R	L	R	L	
			0.7	8							●	●	●	●	
			1.0	12							●	●	●	●	
			1.25								●	●	●	●	
			1.5								●	●	●	●	
			2.0								●	●	●	●	
 带右导程角·刀尖强化型		TKF12 ^R /L 100-T-16DR 150-T-16DR 200-T-16DR	1.0	12	0.08	3	8.7	5	16°		R	L	R	L	
			1.5								●	●	●	●	
			2.0								●	●	●	●	
 刀尖强化型		TKF12 ^R /L 100-T 150-T 200-T	1.0	12	0.08	3	8.7	5	0°		R	L	R	L	
			1.5								●	●	●	●	
			2.0								●	●	●	●	
 带右导程角·无断屑槽		TKF12 ^R /L 050-NB-20DR 070-NB-20DR 100-NB-20DR 150-NB-20DR 200-NB-20DR	0.5	5	0	3	8.7	5	20°		R	L	R	L	
			0.7	8							●	●	●	●	
			1.0	12							●	●	●	●	
			1.5								●	●	●	●	
			2.0								●	●	●	●	
 无断屑槽		TKF12 ^R /L 050-NB 070-NB 100-NB 150-NB 200-NB	0.5	5	0	3	8.7	5	0°		R	L	R	L	
			0.7	8							●	●	●	●	
			1.0	12							●	●	●	●	
			1.5								●	●	●	●	
			2.0								●	●	●	●	

●：标准库存

标准库存型号 (切断) TKF16

形状 图示为右手 (R)		型号	尺寸 (mm)							角度					适用刀杆
			CW	CUTDIA	RE	W1	S	D1	PSIRR		JP1725		JP1535		
											R	L	R	L	
 带右导程角		TKF16 ^R /L 150-S-16DR	1.5	16	0.05	4	9.5	5	16°	●	●	●	●	KTKF ^R /L...16	
		200-S-16DR	2.0							●	●	●	●		
 带右导程角		TKF16 ^R /L 150-S	1.5	16	0.05	4	9.5	5	0°	●	●	●	●		
		200-S	2.0							●	●	●	●		
 带右导程角·刀尖强化型		TKF16 ^R /L 150-T-16DR	1.5	16	0.08	4	9.5	5	16°	●	●	●	●		
		200-T-16DR	2.0							●	●	●	●		
 刀尖强化型		TKF16 ^R /L 150-T	1.5	16	0.08	4	9.5	5	0°	●	●	●	●		
		200-T	2.0							●	●	●	●		
 带右导程角·无断屑槽		TKF16 ^R /L 150-NB-20DR	1.5	16	0	4	9.5	5	20°	●	●	●	●		
		200-NB-20DR	2.0							●	●	●	●		
 无断屑槽		TKF16 ^R /L 150-NB	1.5	16	0	4	9.5	5	0°	●	●	●	●		
		200-NB	2.0							●	●	●	●		

●：标准库存



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