

PR1725



Excellent surface finish and long tool life

Newly developed PVD coating MEGACOAT NANO PLUS

Great for machining steel and other materials

Wide range of machining applications with various chipbreakers available



PR1725

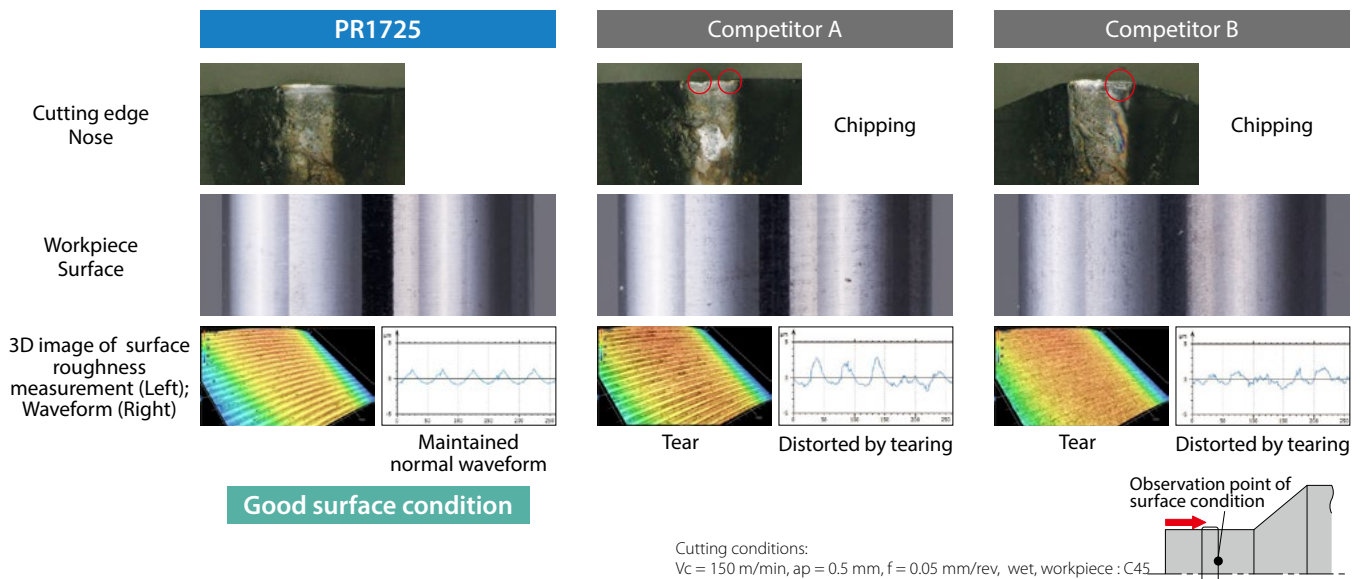
1st recommendation for steel machining. Excellent surface finish and long tool life. Great performance in small parts machining applications.

1

MEGACOAT NANO PLUS maintains long tool life and excellent surface finish

Long tool life leads to improved capacity utilization rate. Excellent surface finish with no tearing lowers quality control costs.

Insert cutting edge wear and quality of surface finish comparison - C45 * After 20 min of machining (Internal evaluation)

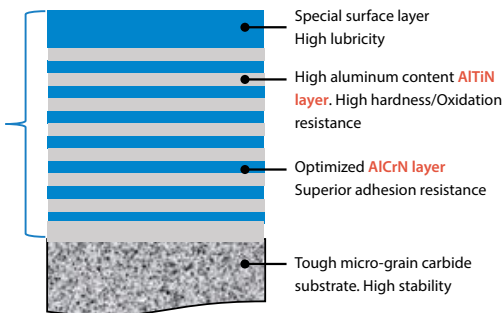


MEGACOAT NANO PLUS

AlTiN/AlCrN Nano laminated film with superior wear resistance and adhesion resistance. Excellent surface finish and long tool life

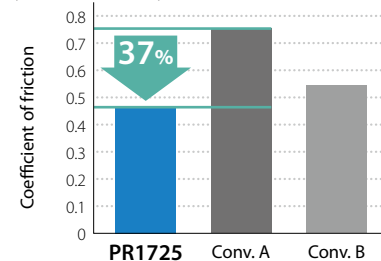
Stops the growth of cracks

Reduces abnormal damages such as chipping because of increased lamination layer with a thinner gap than conventional coatings



Coefficient of friction comparison

(Internal evaluation)



Superior wear and chipping resistance

High hardness with nano laminated film layer properties
Internal stress optimization reduces chipping.

Excellent surface finish

Special surface layer with great lubricity reduces adhesion.

Applicable to various workpiece materials

Excellent oxidation resistance. Superior high temperature properties maintains good performance in steel, stainless steel and free-cutting steel.

High machining stability

Tough micro-grain carbide substrate provides stable machining.

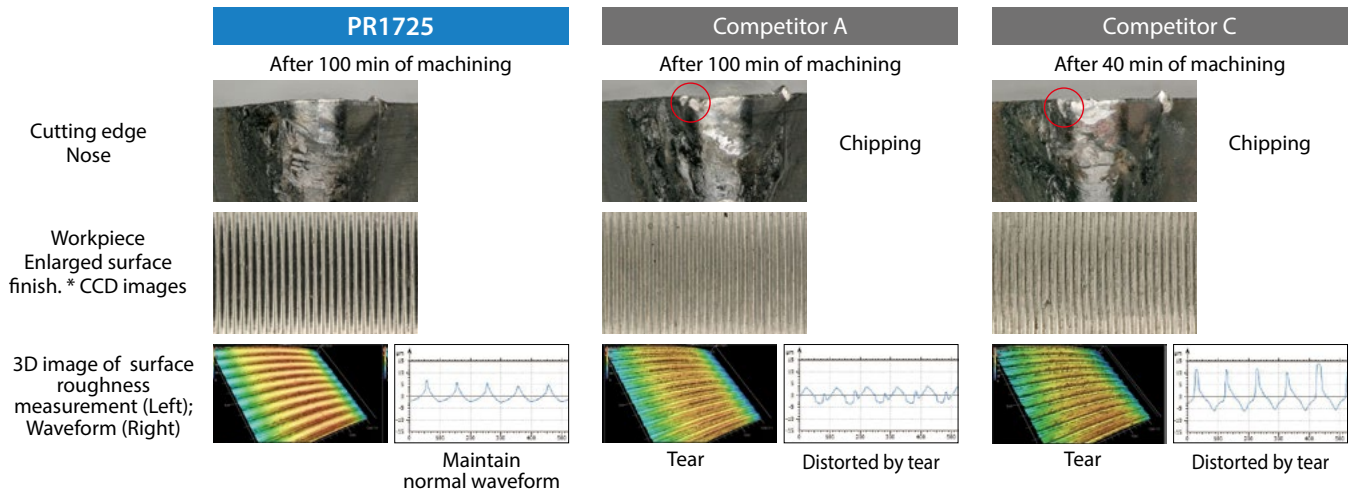
2

One solution can be used in various workpiece materials

Long tool life for steel, stainless steel and free-cutting steel. Improved management of tools cut the cost.

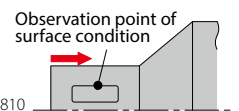
Wear on the cutting edge of insert and quality of the surface finish comparison - Stainless steel: X5CrNi1810

* After 20 min of machining (Internal evaluation)



PR1725 shows less damage on the cutting edge and maintains stable tool mark on the workpiece surface

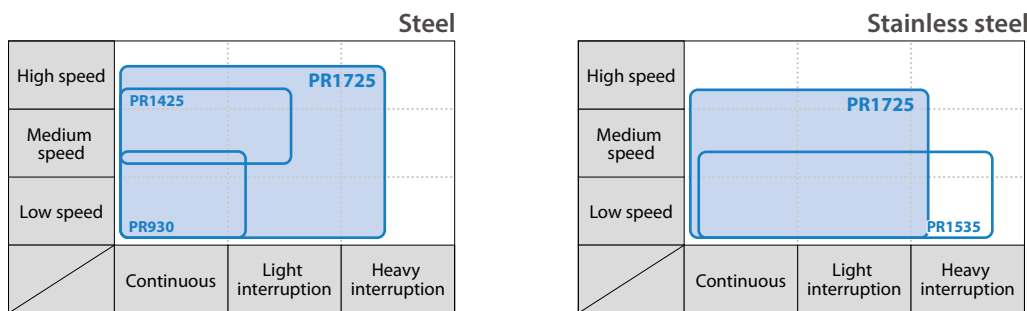
Cutting conditions: $V_c = 150$ m/min, $a_p = 0.5$ mm, $f = 0.1$ mm/rev, wet, workpiece: X5CrNi1810



3

Applicable to a wide range of machining applications

Good performance in both steel and stainless steel from low to high speed machining



PR1725: 1st recommendation for steel machining

PR1725: For general purpose high-speed machining

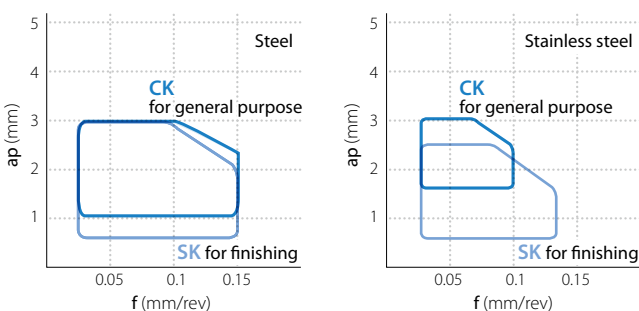
PR1535: 1st recommendation for stainless steel machining

Long tool life and high quality machining

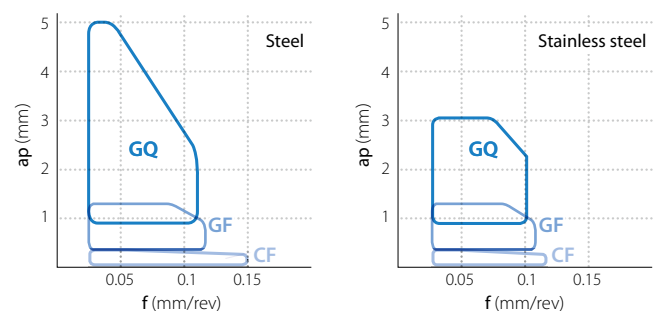
Molded sharp edge chipbreaker series

A wide variety of chipbreakers provides great chip control

Cutting force and surface finish oriented (low cutting force)



Chip control oriented



Inserts (Positive)

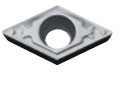
Shape Handed insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
	CCGT 030101MP-CF	3.5	1.4	1.9	<0.1	7°	●
	030102MP-CF				<0.2		●
	CCGT 040101MP-CF	4.3	1.8	2.3	<0.1	7°	●
	040102MP-CF				<0.2		●
	CCGT 030101MFP-PF	3.5	1.4	1.9	<0.1	7°	●
	030102MFP-PF				<0.2		●
	CCGT 040101MFP-PF	4.3	1.8	2.3	<0.1	7°	●
	040102MFP-PF				<0.2		●
	CCGT 060201MFP-PF	6.35	2.38	2.8	<0.1	7°	●
	060202MFP-PF				<0.2		●
	CCGT 060201MFP-GF	6.35	2.38	2.8	<0.1	7°	●
	060202MFP-GF				<0.2		●
	060204MFP-GF				<0.4		●
	CCGT 09T301MFP-GF	9.525	3.97	4.4	<0.1	7°	●
	09T302MFP-GF				<0.2		●
	09T304MFP-GF				<0.4		●
	CCGT 060201MFP-SK	6.35	2.38	2.8	<0.1	7°	●
	060202MFP-SK				<0.2		●
	060204MFP-SK				<0.4		●
	CCGT 09T301MFP-SK	9.525	3.97	4.4	<0.1	7°	●
	09T302MFP-SK				<0.2		●
	09T304MFP-SK				<0.4		●
	CCGT 060201MP-CK	6.35	2.38	2.8	<0.1	7°	●
	060202MP-CK				<0.2		●
	CCGT 09T301MP-CK	9.525	3.97	4.4	<0.1	7°	●
	09T302MP-CK				<0.2		●
	CCGT 060201MFP-GQ	6.35	2.38	2.8	<0.1	7°	●
	060202MFP-GQ				<0.2		●
	060204MFP-GQ				<0.4		●
	CCGT 09T301MFP-GQ	9.525	3.97	4.4	<0.1	7°	●
	09T302MFP-GQ				<0.2		●
	09T304MFP-GQ				<0.4		●
	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		●
	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		●
	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 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		●
	CCMT 09T308	9.525	3.97	4.4	0.8	7°	●
							●
	CCGT 0602005MF	6.35	2.38	2.8	<0.05	7°	●
	060201MF				<0.1		●
	060202MF				<0.2		●
	060204MF				<0.4		●
	CCGT 09T3005MF	9.525	3.97	4.4	<0.05	7°	●
	09T301MF				<0.1		●
	09T302MF				<0.2		●
	09T304MF				<0.4		●
	CCET 0301005M ^R / _L -F	3.5	1.4	1.9	<0.05	7°	●
	030101M ^R / _L -F				<0.1		●
	030102M ^R / _L -F				<0.2		●
	030104M ^R / _L -F				<0.4		●
	CCET 040101M ^R / _L -F	4.3	1.8	2.3	<0.1	7°	●
	040102M ^R / _L -F				<0.2		●
	040104M ^R / _L -F				<0.4		●
							●
							●
							●

Shape Handed insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
	CCET 09T301M ^R / _L -P	9.525	3.97	4.4	<0.1	7°	●
	09T302M ^R / _L -P				<0.2		●
	09T304M ^R / _L -P				<0.4		●
							●
	CCET 0602005MF ^R / _L -U	6.35	2.38	2.8	<0.05	7°	●
	060201MF ^R / _L -U				<0.1		●
	060202MF ^R / _L -U				<0.2		●
	CCET 09T3005MF ^R / _L -U	9.525	3.97	4.4	<0.05	7°	●
	09T301MF ^R / _L -U				<0.1		●
	09T302MF ^R / _L -U				<0.2		●
	09T304MF ^R / _L -U				<0.4		●
	CCET 0602005MFR-J	6.35	2.38	2.8	<0.05	7°	R
	060201MF ^R / _L -J				<0.1		●
	060202MF ^R / _L -J				<0.2		●
	CCET 09T301MF ^R / _L -J	9.525	3.97	4.4	<0.1	7°	●
	09T302MF ^R / _L -J				<0.2		●
	09T304MF ^R / _L -J				<0.4		●
							●
	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		●
	CPMT 080204GP	7.94	2.38	3.3	0.4	11°	●
	090304GP	9.525	3.18	4.4	0.4	11°	●
	090308GP				0.8		●
	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		●
	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		●
	CPMT 080204XP	7.94	2.38	3.3	0.4	11°	●
	CPMT 090304XP	9.525	3.18	4.4	0.4	11°	●
	090308XP				0.8		●
							●
	DCGT 070201MP-CF	6.35	2.38	2.8	<0.1	7°	●
	070202MP-CF				<0.2		●
	DCGT 11T301MP-CF	9.525	3.97	4.4	<0.1	7°	●
	11T302MP-CF				<0.2		●
	DCGT 070201MFP-GF	6.35	2.38	2.8	<0.1	7°	●
	070202MFP-GF				<0.2		●
	070204MFP-GF				<0.4		●
	DCGT 11T301MFP-GF	9.525	3.97	4.4	<0.1	7°	●
	11T302MFP-GF				<0.2		●
	11T304MFP-GF				<0.4		●
	DCGT 070201MFP-SK	6.35	2.38	2.8	<0.1	7°	●
	070202MFP-SK				<0.2		●
	070204MFP-SK				<0.4		●
	DCGT 11T301MFP-SK	9.525	3.97	4.4	<0.1	7°	●
	11T302MFP-SK				<0.2		●
	11T304MFP-SK				<0.4		●
	DCGT 070201MP-CK	6.35	2.38	2.8	<0.1	7°	●
	070202MP-CK				<0.2		●
	DCGT 11T301MP-CK	9.525	3.97	4.4	<0.1	7°	●
	11T302MP-CK				<0.2		●
	DCGT 070201MFP-GQ	6.35	2.38	2.8	<0.1	7°	●
	070202MFP-GQ				<0.2		●
	070204MFP-GQ				<0.4		●
	DCGT 11T301MFP-GQ	9.525	3.97	4.4	<0.1	7°	●
	11T302MFP-GQ				<0.2		●
	11T304MFP-GQ				<0.4		●

● Available R : R-hand only

Insert with corner R (RE) dimension expressed with less than sign (e.g. <0.1, <0.2 etc.) indicates models with minus tolerance for corner R (RE)

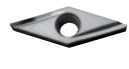
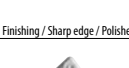
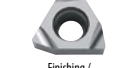
Inserts (Positive)

Shape Handed Insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
 Wiper edge / Finishing	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		●
 Wiper edge / Finishing	DCMX 070204 R/L-WP	6.35	2.38	2.8	0.4	7°	●
	DCMX 11T304 R/L-WP	9.525	3.97	4.4	0.4	7°	●
 Finishing	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		●
 Finishing	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		●
 Finishing-Medium	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		●
 Finishing-Medium	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		●
 Medium / Sharp edge	DCGT 0702005MF	6.35	2.38	2.8	< 0.05	7°	●
	070201MF				< 0.1		●
	070202MF				< 0.2		●
	070204MF				< 0.4		●
	DCGT 11T3005MF	9.525	3.97	4.4	< 0.05	7°	●
	11T301MF				< 0.1		●
	11T302MF				< 0.2		●
	11T304MF				< 0.4		●
	DCMT 070204XP	6.35	2.38	2.8	0.4	7°	●
	DCMT 11T302XP	9.525	3.97	4.4	0.2	7°	●
 Low Carbon steel / Finishing	11T304XP				0.4		●
	11T308XP				0.8		●
	DCET 0702005MR-F	6.35	2.38	2.8	< 0.05	7°	R
	070201M R/L-F				< 0.1		●
	070202M R/L-F				< 0.2		●
	070204M R/L-F				< 0.4		●
 Finishing / Sharp edge	DCET 11T3005MR-F	9.525	3.97	4.4	< 0.05	7°	R
	11T301M R/L-F				< 0.1		●
	11T302M R/L-F				< 0.2		●
	11T304M R/L-F				< 0.4		●
	DCET 0702005MFR-U	6.35	2.38	2.8	< 0.05	7°	R
	070201M R/L-U				< 0.1		●
 Low Feed / Sharp edge	DCET 11T3005MFR-U	9.525	3.97	4.4	< 0.05	7°	R
	11T301M R/L-U				< 0.1		●
	11T302M R/L-U				< 0.2		●
	11T304MFR-U				< 0.4		R
	DCET 0702005MFR-J	6.35	2.38	2.8	< 0.05	7°	R
	070201M R/L-J				< 0.1		●
 Low Feed / Sharp edge	DCET 11T3005MFR-J	9.525	3.97	4.4	< 0.05	7°	R
	11T301M R/L-J				< 0.1		●
	11T302M R/L-J				< 0.2		●
	11T304MFR-J				< 0.4		R
	JCET 030102M R/L-F	3.5	1.4	1.9	< 0.2	7°	●
	030104M R/L-F				< 0.4		●

Shape Handed Insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
 Minute DOC / Sharp edge / Polished	TBGT 060101MP-CF	3.97	1.59	2.3	< 0.1	5°	●
	060102MP-CF				< 0.2		●
 Finishing / Sharp edge / Polished	TBGT 060101MFP-PF	3.97	1.59	2.3	< 0.1	5°	●
	060102MFP-PF				< 0.2		●
	060104MFP-PF				< 0.4		●
 Finishing	TBET 0601005M ^R / _L	3.97	1.59	2.3	< 0.05	5°	●
	060101M ^R / _L				< 0.1		●
	060102M ^R / _L				< 0.2		●
	060104M ^R / _L				< 0.4		●
 Wiper edge / Finishing	TCMX 090204WP	5.56	2.38	2.5	0.4	7°	●
	TCMX 110204WP	6.35	2.38	2.8	0.4	7°	●
 Minute DOC / Sharp edge / Polished	TPGT 080201MP-CF	4.76	2.38	2.3	< 0.1	11°	●
	080202MP-CF				< 0.2		●
	TPGT 090201MP-CF	5.56	2.38	3.0	< 0.1	11°	●
	090202MP-CF				< 0.2		●
 Finishing / Sharp edge / Polished	TPGT 090201MFP-PF	5.56	2.38	3.0	< 0.1	11°	●
	090202MFP-PF				< 0.2		●
	090204MFP-PF				< 0.4		●
 Wiper edge / Finishing	TPMX 090202WP	5.56	2.38	2.8	0.2	11°	●
	090204WP				0.4		●
	090208WP				0.8		●
	TPMX 110302WP	6.35	3.18	3.3	0.2	11°	●
	110304WP				0.4		●
	110308WP				0.8		●
 Wiper edge / Finishing	TPMX 110304 ^R / _L -WP	6.35	3.18	3.3	0.4	11°	●
 Finishing	TPMT 090202PP	5.56	2.38	2.8	0.2	11°	●
	090204PP				0.4		●
	TPMT 110302PP	6.35	3.18	3.3	0.2	11°	●
	110304PP				0.4		●
	110308PP				0.8		●
 Finishing	TPMT 090202GP	5.56	2.38	2.8	0.2	11°	●
	090204GP				0.4		●
	TPMT 110304GP	6.35	3.18	3.3	0.4	11°	●
	110308GP				0.8		●
	TPMT 160304GP	9.525	3.18	4.4	0.4	11°	●
 Finishing-Medium	TPMT 090202HQ	5.56	2.38	2.8	0.2	11°	●
	090204HQ				0.4		●
	TPMT 110302HQ	6.35	3.18	3.3	0.2	11°	●
	110304HQ				0.4		●
	110308HQ				0.8		●
	TPMT 160302HQ	9.525	3.18	4.4	0.2	11°	●
	160304HQ				0.4		●
	160308HQ				0.8		●
 Low Carbon steel / Finishing	TPMT 090204XP	5.56	2.38	2.8	0.4	11°	●
	TPMT 110304XP	6.35	3.18	3.3	0.4	11°	●
	110308XP				0.8		●
	TPMT 160304XP	9.525	3.18	4.4	0.4	11°	●
	160308XP				0.8		●
 Finishing / Sham edge	TPGH 080201 ^R / _L	4.76	2.38	2.3	0.1	11°	●
	080202 ^R / _L				0.2		●
	080204 ^R / _L				0.4		●
	TPGH 090201 ^R / _L	5.56	2.38	3.0	0.1	11°	●
	090202 ^R / _L				0.2		●
	090204 ^R / _L				0.4		●
	TPGH 110202 ^R / _L	6.35	2.38	3.5	0.2	11°	●
	110204 ^R / _L				0.4		●
	TPGH 110302 ^R / _L	6.35	3.18	3.3	0.2	11°	●
	110304 ^R / _L				0.4		●
	110308 ^R / _L				0.8		●
	TPGH 160302 ^R / _L	9.525	3.18	4.5	0.2	11°	●
	160304 ^R / _L				0.4		●
	160308 ^R / _L				0.8		●

Inserts (Positive)

Shape Handed insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
 Medium	TPGH 090201L-H	5.56	2.38	3.0	0.1	11°	L
	090202L-H				0.2		L
	090204L-H				0.4		L
	TPGH 110302 R _L -H	6.35	3.18	3.3	0.2	11°	●
	110304 R _L -H				0.4		●
	110308 R _L -H				0.8		●
 Finishing / Sharp edge	TPGH 160304 R _L -H	9.525	3.18	4.5	0.4	11°	●
	160308 R _L -H				0.8		●
	TPEH 080201M R _L -P				0.1	11°	●
	080202M R _L -P	5.56	2.38	3.0	< 0.2		●
	080204M R _L -P				< 0.4		●
	TPEH 090201M R _L -P				< 0.1	11°	●
 Finishing	090202M R _L -P	5.56	2.38	3.0	< 0.2		●
	090204M R _L -P				< 0.4		●
	TPEH 110301M R _L -P				< 0.1	11°	●
	110302M R _L -P	6.35	3.18	3.3	< 0.2		●
	110304M R _L -P				< 0.4		●
	VBMT 110302PP	6.35	3.18	2.8	0.2	5°	●
 Finishing	110304PP				0.4		●
	110308PP				0.8		●
	VBMT 160404PP	9.525	4.76	4.4	0.4	5°	●
	160408PP				0.8		●
	160412PP				1.2		●
	VBMT 110304GP	6.35	3.18	2.8	0.4	5°	●
 Finishing	VBMT 110302VF	6.35	3.18	2.8	0.2	5°	●
	110304VF				0.4		●
	110308VF				0.8		●
	VBMT 110304HQ	6.35	3.18	2.8	0.4	5°	●
	110308HQ				0.8		●
	VBET 1103005M R _L -F	6.35	3.18	2.8	< 0.05	5°	●
 Finishing / Sharp edge	110301M R _L -F				< 0.1		●
	110302M R _L -F				< 0.2		●
	VBET 1103005M R _L -Y	6.35	3.18	2.8	< 0.05	5°	●
	110301M R _L -Y				< 0.1		●
	110302M R _L -Y				< 0.2		●
	110304M R _L -Y				< 0.4		●
 Minute DOC / Sharp edge / Polished	VCGT 110301MP-CF	6.35	3.18	2.8	< 0.1	7°	●
	110302MP-CF				< 0.2		●
	VCGT 110301MFP-GF				< 0.1	7°	●
	110302MFP-GF	6.35	3.18	2.8	< 0.2		●
	VCMT 080202PP	4.76	2.38	2.3	0.2	7°	●
	080204PP				0.4		●
 Finishing	VCMT 160404PP	9.525	4.76	4.4	0.4	7°	●
	160408PP				0.8		●
	VCMT 080202VF				0.2	7°	●
	080204VF	4.76	2.38	2.3	0.4		●
	VCMT 080202HQ				0.2	7°	●
	080204HQ				0.4		●

Shape Handed insert shows left-hand	Description	Dimensions (mm)					PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	Relief angel	
 Finishing / Sharp edge	VCET 110301M R _L -F	6.35	3.18	2.8	< 0.1	7°	●
	110302M R _L -F				< 0.2		●
	110304M R _L -F				< 0.4		●
 Finishing-Medium / Sharp edge	VCET 1103005M R _L -Y	6.35	3.18	2.8	< 0.05	7°	●
	110301M R _L -Y				< 0.1		●
	110302M R _L -Y				< 0.2		●
	110304M R _L -Y				< 0.4		●
 Minute DOC / Sharp edge / Polished	VPGT 110301MP-CF	6.35	3.18	2.8	< 0.1	11°	●
	110302MP-CF				< 0.2		●
 Finishing / Sharp edge / Polished	VPGT 110301MFP-GF	6.35	3.18	2.8	< 0.1	11°	●
	110302MFP-GF				< 0.2		●
 Finishing / Sharp edge / Polished	VPGT 080201MP-CK	4.76	2.38	2.3	< 0.1	11°	●
	080202MP-CK				< 0.2		●
	VPGT 110301MP-CK	6.35	3.18	2.8	< 0.1	11°	●
	110302MP-CK				< 0.2		●
 Finishing / Sharp edge	VPET 080201M R _L -F	4.76	2.38	2.3	< 0.1	11°	●
	080202M R _L -F				< 0.2		●
	VPET 1103005MR-F	6.35	3.18	2.8	< 0.05	11°	R
	110301MR-F				< 0.1		R
 Low feed / Sharp edge	110302M R _L -F	4.76	2.38	2.3	< 0.1	11°	●
	080202MF R _L -U				< 0.2		●
	VPET 1103005MF R _L -U	6.35	3.18	2.8	< 0.05	11°	●
	110301MF R _L -U				< 0.1		●
 Low feed / Sharp edge	110302MF R _L -U	6.35	3.18	2.8	< 0.2	11°	●
	VPET 1103005MFR-J				< 0.05	11°	R
	110301MF R _L -J				< 0.1		●
 Low feed / Sharp edge	110302MF R _L -J				< 0.2		●
 Minute DOC / Sharp edge / Polished	WGBT 060101MP R _L -CF	3.97	1.59	2.3	< 0.1	5°	●
	060102MP R _L -CF				< 0.2		●
	WGBT 060101MFP R _L -PF				< 0.1	5°	●
 Finishing / Sharp edge / Polished	060102MFP R _L -PF	3.97	1.59	2.3	< 0.2		●
	WGBT 080201MFP R _L -PF				< 0.1	5°	●
	080202MFP R _L -PF	4.76	2.38	2.3	< 0.2		●
	WGBT 080202MFP R _L -PF	4.76	2.38	2.3	< 0.2	5°	●
 Finishing	WBMT 060102 R _L -DP	3.97	1.59	2.3	0.2	5°	●
	060104 R _L -DP				0.4		●
	WBMT 080202 R _L -DP	4.76	2.38	2.3	0.2	5°	●
	080204 R _L -DP				0.4		●
 Finishing / Sharp edge	WBET 0601005ML-F	3.97	1.59	2.3	< 0.05	5°	L
	060101M R _L -F				< 0.1		●
	060102M R _L -F				< 0.2		●
	060104M R _L -F				< 0.4		●
	WBET 080201ML-F	4.76	2.38	2.3	< 0.1	5°	L
	080202ML-F				< 0.2		●
 Finishing / Sharp edge	080204M R _L -F	4.76	2.38	2.3	< 0.4	5°	●
	WBET 080201M R _L -P				< 0.1		●
	080202M R _L -P				< 0.2		●
	080204M R _L -P				< 0.4		●

● : Available R : R-hand only L : L-hand only

Insert with corner R (RE) dimension expressed with less than sign (e.g. <0.1, <0.2 etc.) indicates models with minus tolerance for corner R (RE)

Inserts (Negative)

Shape Handed insert shows right-hand	Description	Dimensions (mm)				PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	
 Finishing-Medium / Sharp edge / Polished	CNGG 120402MFP-SK	12.70	4.76	5.16	< 0.2	●
	120404MFP-SK				< 0.4	●
 Medium-Roughing / Sharp edge / Polished	CNGG 120404FP-TK	12.70	4.76	5.16	0.4	●
	120408FP-TK				0.8	●
 Finishing-Medium / Sharp edge / Polished	DNGG 150402MFP-SK	12.70	4.76	5.16	< 0.2	●
	150404MFP-SK				< 0.4	●
 Large DOC	DNMG 150402R-LD	12.70	4.76	5.16	0.2	R
	150404R-LD				0.4	R
 Medium-Roughing / Sharp edge / Polished	DNGG 150404FP-TK	12.70	4.76	5.16	0.4	●
	150408FP-TK				0.8	●
 Finishing-Medium / Sharp edge / Polished	TNGG 160401MFP-SK	9.525	4.76	3.81	< 0.1	●
	160402MFP-SK				< 0.2	●
	160404MFP-SK				< 0.4	●
 Large DOC	TNMG 160402R-LD	9.525	4.76	3.81	0.2	R
	160404R-LD				0.4	R
 Medium-Roughing / Sharp edge / Polished	TNGG 160404FP-TK	9.525	4.76	3.81	0.4	●
	160408FP-TK				0.8	●
 Finishing / Surface roughness oriented / Sharp edge	TNGG 160402 ^R / _L -S	9.525	4.76	3.81	0.2	●
	160404 ^R / _L -S				0.4	●
	160408 ^R / _L -S				0.8	●
 Finishing-Medium / Sharp edge / Polished	VNGG 160402MFP-SK	9.525	4.76	3.81	< 0.2	●
	160404MFP-SK				< 0.4	●

● : Available R : R-hand only

Insert with corner R (RE) dimension expressed with less than sign (e.g. <0.1, <0.2 etc.) indicates models with minus tolerance for corner R (RE).

Inserts (Small double-sided tooling)

Shape Handed insert shows right-hand	Description	Dimensions (mm)				PR1725
		I.C.	Thick- ness	Hole	Corner-R (RE)	
 Finishing-Medium / Sharp edge / Polished	CNGU 070301MFP-SK	7.5	3.18	3.6	< 0.1	●
	070302MFP-SK				< 0.2	●
 Medium-Roughing / Honed edge	CNMU 070302E-GK	7.5	3.18	3.6	0.2	●
	070204E-GK				0.4	●
 Finishing / Sharp edge	CNGU 070301MFR-F	7.5	3.18	3.6	< 0.1	R
	070302MFR-F				< 0.2	R
	070304MFR-F				< 0.4	R
 Low feed / Sharp edge	CNGU 070301MFR-U	7.5	3.18	3.6	< 0.1	R
	070302MFR-U				< 0.2	R
	070304MFR-U				< 0.4	R
 Finishing-Medium / Sharp edge / Polished	DNGU 080301MFP-SK	7.0	3.18	3.6	< 0.1	●
	080302MFP-SK				< 0.2	●
	080304MFP-SK				< 0.4	●
 Medium-Roughing / Honed edge	DNMU 080302E-GK	7.0	3.18	3.6	0.2	●
	080304E-GK				0.4	●
 Finishing / Sharp edge	DNGU 080301MFR-F	7.0	3.18	3.6	< 0.1	R
	080302MFR-F				< 0.2	R
	080304MFR-F				< 0.4	R
 Low feed / Sharp edge	DNGU 080301MFR-U	7.0	3.18	3.6	< 0.1	R
	080302MFR-U				< 0.2	R
	080304MFR-U				< 0.4	R
 Finishing / Sharp edge	TNGU 090301MFR-F	5.56	3.18	3.0	< 0.1	R
	090302MFR-F				< 0.2	R
	090304MFR-F				< 0.4	R
 Low feed / Sharp edge	TNGU 090301MFR-U	5.56	3.18	3.0	< 0.1	R
	090302MFR-U				< 0.2	R
	090304MFR-U				< 0.4	R

● : Available R : R-hand only

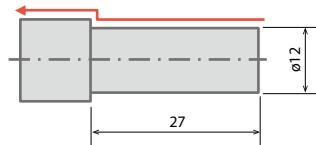
Insert with corner R (RE) dimension expressed with less than sign (e.g. <0.1, <0.2 etc.) indicates models with minus tolerance for corner R (RE).

For applicable toolholders that use small double-sided inserts, please see the KYOCERA general product catalog.

Case studies

Shaft 34CrMo4

Vc = 110 m/min
ap = ~1.5 mm
f = 0.06 mm/rev
Wet
DCGT11T302MFP-SK PR1725



Tool life

PR1725
SK chipbreaker

3,000 pcs/edge

x2

Competitor D
Molded chipbreaker

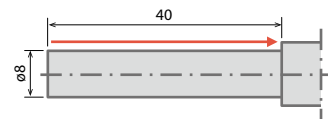
1,500 pcs/edge

PR1725 SK chipbreaker shows 2 times longer tool life when compared to competitor D

(User evaluation)

Shaft 42CrMo4

Vc = 70 m/min
ap = 1.0 mm
f = 0.05 mm/rev
Wet
DCGT11T302MFP-SK PR1725



Tool life

PR1725
SK chipbreaker

250 pcs/edge

x1.6

Competitor E
Molded chipbreaker

150 pcs/edge

PR1725 SK chipbreaker shows 1.6 times longer tool life when compared to competitor E

(User evaluation)

Shaft C35

Vc = 90 m/min
ap = 0.3 mm
f = 0.1 mm/rev
Wet
DCGT11T302MFP-SK PR1725



Tool life

PR1725
SK chipbreaker

300 pcs/edge

x1.5

Competitor F
Molded chipbreaker

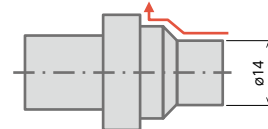
200 pcs/edge

PR1725 SK chipbreaker shows 1.5 times longer tool life when compared to competitor F

(User evaluation)

Pin 20CrMo5

Vc = 110 m/min
ap = 0.2~0.7 mm
f = 0.07 mm/rev
Wet
DCGT11T302MFP-GQ PR1725



Tool life

PR1725
GQ chipbreaker

200 pcs/edge

x1.3

Competitor G
Molded chipbreaker

150 pcs/edge

PR1725 GQ chipbreaker shows 1.3 times longer tool life when compared to competitor G

(User evaluation)