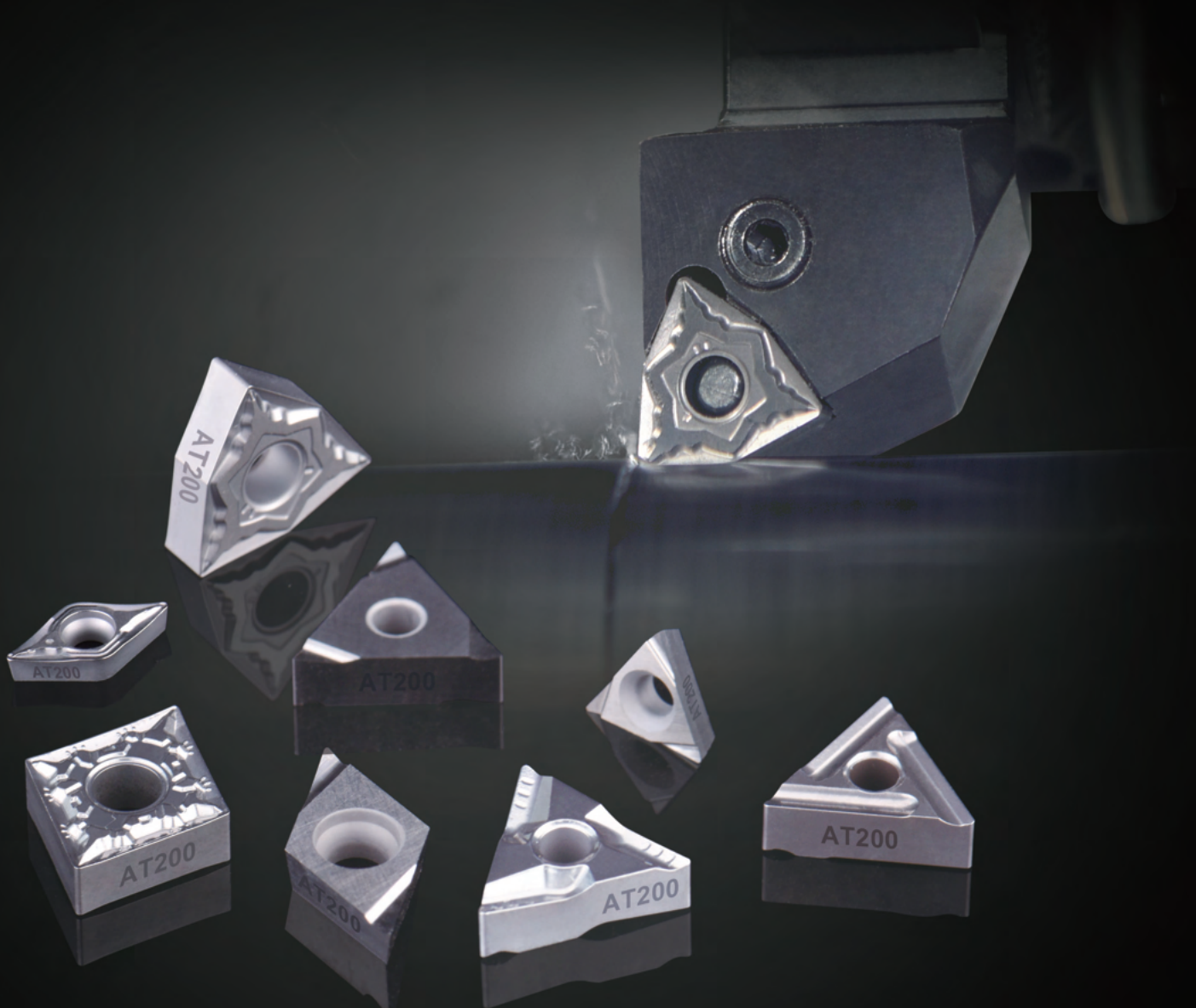


ACHTECK

NEW
PRODUCT!

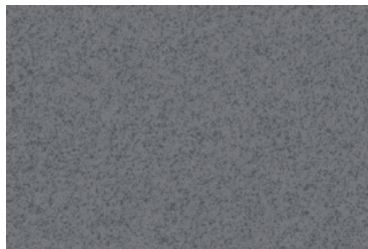
AT200

Metal Ceramic Insert

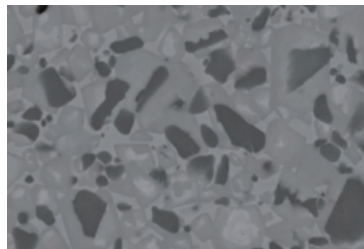


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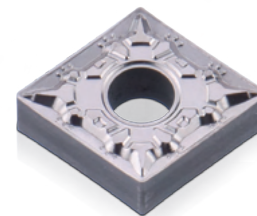
◆ AT200



Uniform double crystal structure, realizing finish and semi-finish machining coverage, ensuring the consideration of wear, thermal vibration and chipping resistance.



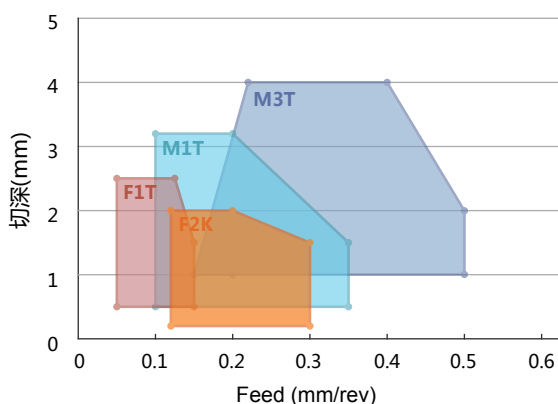
Through the compounding of cobalt-nickel binder and special high melting point compounds, a variety of special "core-shell" structures are formed, which can restrain the softening of binder in process of cutting and improve the heat and chipping resistance.



Excellent surface treatment technology can effectively reduce the contact area between the tool and the material to be processed, thus reducing the adhesion of the material to be processed, realizing an extended tool life and having excellent performance.

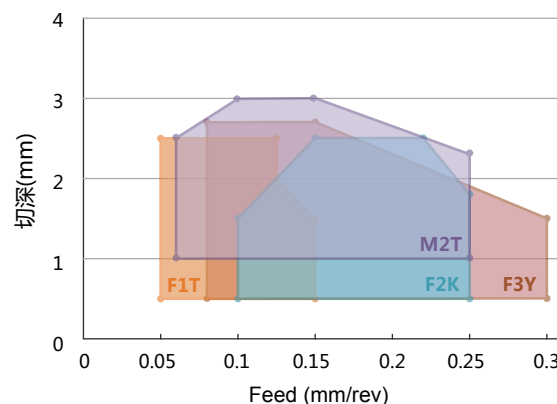
◆ Chip breaker application

M-class negative insert



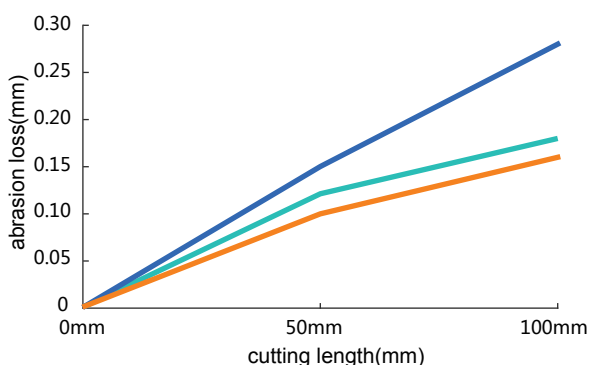
F1T: Low cutting force, suitable for finishing.
F2K: With good cutting treatment and strong universality, suitable for finishing and semi-finishing.
M1T: Large rake angle and low resistance, suitable for different deep-cutting conditions.
M3T: smooth front angle, suitable for medium rough machining with large feed.

M-class positive insert

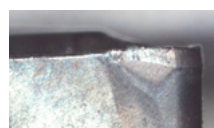


F1T: Low cutting force, good chip breaking ability, suitable for finishing.
F2K: Universal chipbreaker, suitable for finishing and semi-finishing
M2T: Negative rake design, suitable for semi finishing
F3Y: Low force design, a wide range of application, suitable for finishing, semi finishing

◆ Continuous high speed wear resistance



— Achteck
— Competitor B
— Competitor C



Achteck



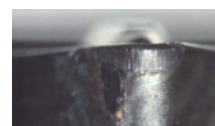
Competitor B



Competitor C



Achteck



Competitor B

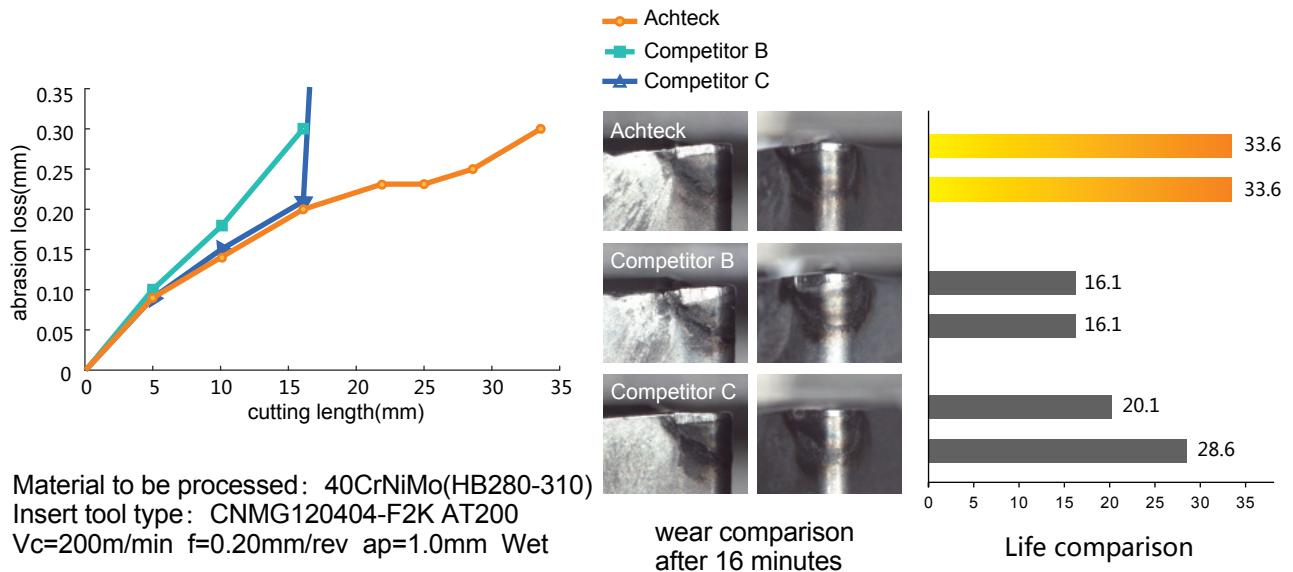


Competitor C

Material to be processed: 40CrNiMo(HB280-310)
Insert tool type: CNMG120408-F2K AT200
Vc=300m/min f=0.15mm/rev ap=1.0mm Dry

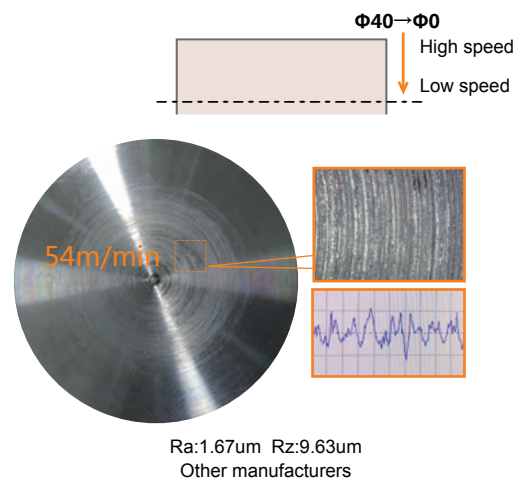
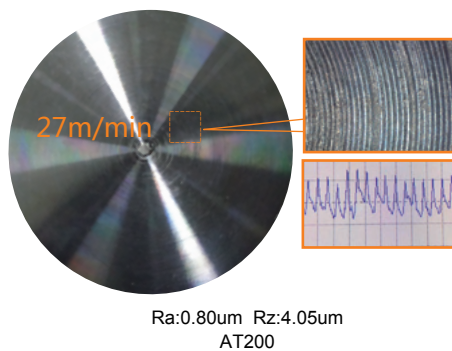
◆ Continuous cutting can achieve excellent wear resistance and ensure the accuracy control of the material to be cut

Stable cutting life

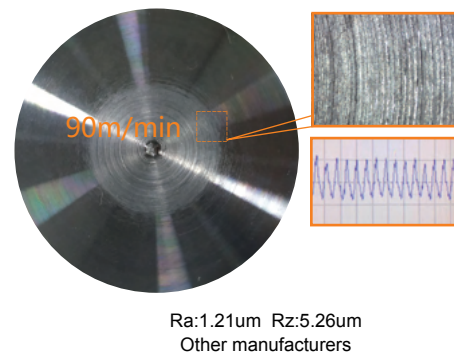
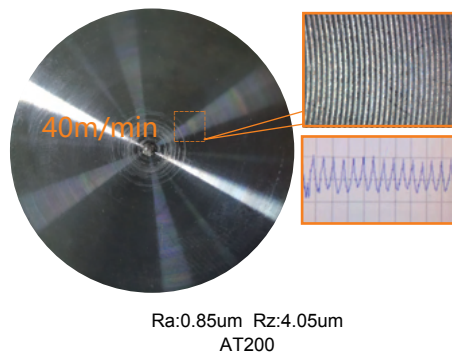


Excellent processing quality

Material to be processed: S10C(HB90~95)
 Insert tool type: CNMG120404-F2K AT200
 Vc=90~0m/min f=0.10mm/rev ap=1.0mm Wet



Material to be processed: S10C(HB90~95)
 Insert tool type: CNMG120404-F2K AT200
 Vc=200~0m/min f=0.10mm/rev ap=1.0mm Wet



Cases

Workpiece: cross axle

Material: S45C

Insert: CNMG120404 FK2 AT200

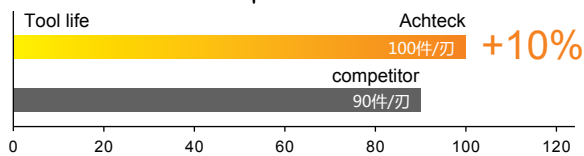
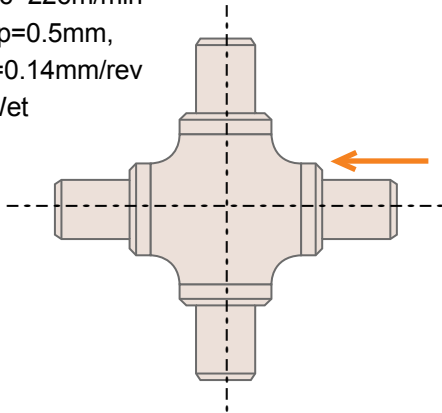
Cutting parameter:

$V_c=226\text{m/min}$

$a_p=0.5\text{mm}$,

$f=0.14\text{mm/rev}$

Wet



AT200 has a 10% longer life compared to other companies' products and is superior cost-effective.

Workpiece: pipe joint

Material: Q235

Insert: TNMG160404R-M3T AT200

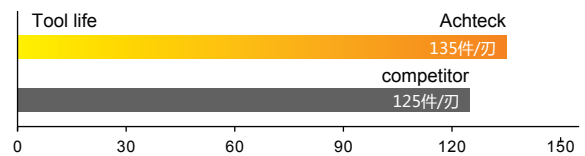
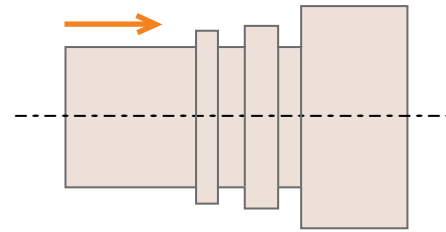
Cutting parameter:

$V_c=125\sim135\text{m/min}$

$a_p=1.0\sim0.5\text{mm}$,

$f=0.36\sim0.15\text{mm/rev}$

Wet



Rough and finish machining at the same time, with a stable performance, excellent workpiece surface roughness, no chipping

Workpiece: hydraulic fitting

Material: S45C

Insert: TNGG 160404R-C AT200

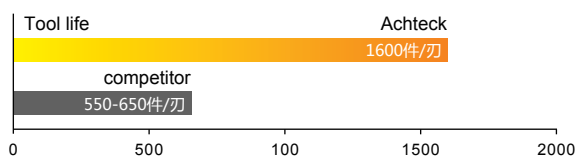
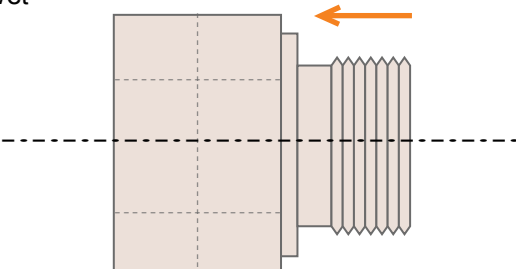
Cutting parameter:

$V_c=125\text{m/min}$

$a_p=1.8\text{mm}$,

$f=0.15\sim0.20\text{mm/rev}$

Wet



300% longer life, stable performance

Workpiece: Pillar support

Material: S45C

Insert: TPGT110304FL-F AT200

Cutting parameter:

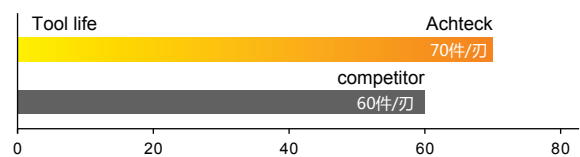
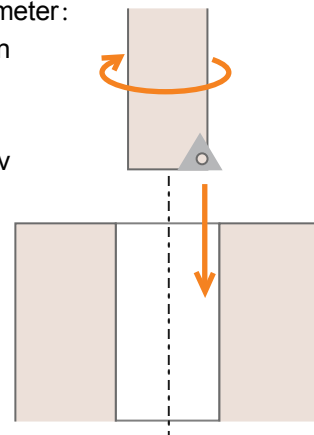
$V_c=306\text{m/min}$

$a_p=127\text{mm}$,

$a_e=0.12\text{mm}$,

$f=0.06\text{mm/rev}$

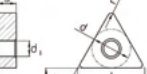
Wet



Rotary boring, tool wear resistance is superior to other companies', meanwhile ensuring an extraordinary machined surface

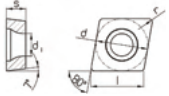
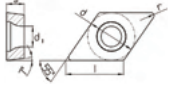
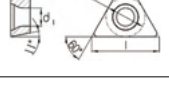
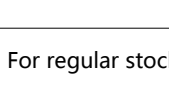
Product list

Negative M-class insert

Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Finishing ~ semi-finishing	CNMG 120404-F2K	0.12-0.30	0.20-2.0	12.7	12.89	4.76	5.16	0.4	●	
	120408-F2K	0.12-0.30	0.20-2.0	12.7	12.89	4.76	5.16	0.8	●	
 Finishing ~ semi-finishing	DNMG 150404R-M1T	0.10-0.35	0.70-4.5	12.7	15.49	4.76	5.16	0.4	●	
	150404L-M1T	0.10-0.35	0.70-4.5	12.7	15.49	4.76	5.16	0.4	●	
 Finishing ~ semi-finishing	DNMG 150404-F2K	0.10-0.30	0.50-2.0	12.7	15.49	4.76	5.16	0.4	●	
	150408-F2K	0.10-0.30	0.50-2.0	12.7	15.49	4.76	5.16	0.8	●	
 Finishing	TNMG 160404-F1Y	0.08-0.20	0.05-2.0	9.525	16.50	4.76	3.81	0.4	●	
	160408-F1Y	0.08-0.20	0.05-2.0	9.525	16.50	4.76	3.81	0.8	●	
 Finishing ~ semi-finishing	TNMG 160404-F2K	0.08-0.22	0.40-2.0	9.525	16.50	4.76	3.81	0.4	●	
	160408-F2K	0.08-0.22	0.40-2.0	9.525	16.50	4.76	3.81	0.8	●	
 Medium machining	TNMG 160404R-M1T	0.10-0.30	0.70-3.5	9.525	16.50	4.76	3.81	0.4	●	
	160404L-M1T	0.10-0.30	0.70-3.5	9.525	16.50	4.76	3.81	0.4	●	
	160408R-M1T	0.10-0.30	0.70-3.5	9.525	16.50	4.76	3.81	0.8	●	
	160408L-M1T	0.10-0.30	0.70-3.5	9.525	16.50	4.76	3.81	0.8	●	
 Medium machining	TNMG 160404R-M2T	0.20-0.40	1.0-4.0	9.525	16.50	4.76	3.81	0.4	●	
	160404L-M2T	0.20-0.40	1.0-4.0	9.525	16.50	4.76	3.81	0.4	●	
	160408R-M2T	0.20-0.40	1.0-4.0	9.525	16.50	4.76	3.81	0.8	●	
	160408L-M2T	0.20-0.40	1.0-4.0	9.525	16.50	4.76	3.81	0.8	●	
 Medium machining	VNMG 160404-M3T	0.80-3.0	0.15-0.36	9.525	16.61	4.76	3.81	0.4	●	
	160408-M3T	1.0-2.5	0.17-0.36	9.525	16.61	4.76	3.81	0.8	●	
 Finishing	WNMG 080404-F1Y	0.08-0.20	0.05-2.0	12.7	8.69	4.76	5.16	0.4	●	
	080408-F1Y	0.08-0.20	0.05-2.0	12.7	8.69	4.76	5.16	0.8	●	
 Finishing	WNMG 080404-F1T	0.05-0.15	0.50-2.5	12.7	8.69	4.76	5.16	0.4	●	
	080408-F1T	0.05-0.15	0.50-2.5	12.7	8.69	4.76	5.16	0.8	●	
 Finishing ~ semi-finishing	WNMG 080404-F2K	0.08-0.22	0.40-2.0	12.7	8.69	4.76	5.16	0.4	●	
	080408-F2K	0.08-0.22	0.40-2.0	12.7	8.69	4.76	5.16	0.8	●	
 Medium machining	WNMG 080404-M3T	0.12-0.40	1.0-4.0	12.7	8.69	4.76	5.16	0.4	●	
	080408-M3T	0.17-0.55	1.2-4.0	12.7	8.69	4.76	5.16	0.8	●	

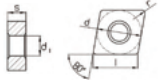
Note : ● For regular stock

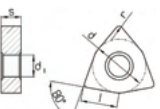
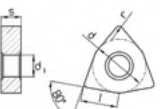
Positive M-class insert

Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Finishing	CCMT 060204-F1T	0.05-0.15	0.3-1.5	6.35	6.45	2.38	2.8	0.4	●	
	CCMT 09T304-F1T	0.07-0.20	0.40-2.0	9.525	9.67	3.97	4.4	0.4	●	
	09T308-F1T	0.10-0.25	0.60-2.0	9.525	9.67	3.97	4.4	0.8	●	
 Finishing ~ semi-finishing	CCMT 060202-F2K	0.08-0.20	0.50-1.5	6.35	6.45	2.38	2.8	0.2	●	
	060204-F2K	0.08-0.20	0.50-1.5	6.35	6.45	2.38	2.8	0.4	●	
	CCMT 09T302-F2K	0.10-0.22	0.50-2.0	9.525	9.67	3.97	4.4	0.2	●	
	09T304-F2K	0.10-0.22	0.50-2.0	9.525	9.67	3.97	4.4	0.4	●	
 Medium machining	CCMT 060202-M2T	0.07-0.20	0.50-2.0	6.35	6.45	2.38	2.8	0.2	●	
	CCMT 09T304-M2T	0.70-3.5	0.10-0.25	9.525	9.67	3.97	4.4	0.4	●	
	09T308-M2T	0.13-0.30	1.0-3.5	9.525	9.67	3.97	4.4	0.8	●	
 Finishing	DCMT 070204-F1T	0.07-0.20	0.40-1.5	6.35	7.75	2.38	2.8	0.4	●	
	DCMT 11T304-F1T	0.10-0.25	0.60-1.5	9.525	11.62	3.97	4.4	0.4	●	
	11T308-F1T	0.10-0.25	0.60-1.5	9.525	11.62	3.97	4.4	0.4	●	
 Finishing ~ semi-finishing	DCMT 070204-F2K	0.08-0.20	0.50-1.5	6.35	7.75	2.38	2.8	0.4	●	
	DCMT 11T302-F2K	0.10-0.22	0.50-2.0	9.525	11.62	3.97	4.4	0.2	●	
	11T304-F2K	0.10-0.22	0.50-2.0	9.525	11.62	3.97	4.4	0.4	●	
 Finishing ~ semi-finishing	DCMT 11T304-F1Y	0.08-0.30	0.50-2.5	9.525	11.62	3.97	4.4	0.4	●	
 Finishing	TCMT 110204-F1T	0.10-0.25	0.60-2.0	6.35	11.0	2.38	2.8	0.4	●	
	TCMT 16T304-F1T	0.10-0.25	0.60-2.0	9.525	16.50	3.97	4.4	0.4	●	
 Finishing	TPMT 110304-F1T	0.10-0.25	0.60-2.0	6.35	11.0	3.18	3.3	0.4	●	
 Finishing ~ semi-finishing	TPMT 110304-F2K	0.10-0.25	0.50-2.0	6.35	11.0	3.18	3.3	0.4	●	
 Finishing ~ semi-finishing	VBMT 110304-F2K	0.10-0.20	0.50-1.5	6.35	11.07	3.18	2.8	0.4	●	
	VBMT 160404-F2K	0.05-0.25	0.50-2.0	9.525	16.61	4.76	4.4	0.4	●	

Note: : ● For regular stock

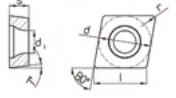
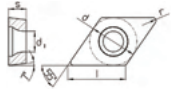
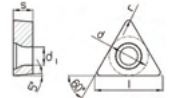
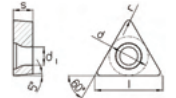
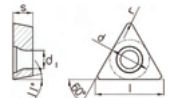
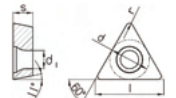
Negative G-class insert

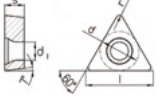
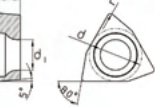
Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Sharp type	CNGG 120402FR-F	0.05-0.20	0.50-2.0	12.7	12.89	4.76	5.16	0.2	●	
	120402FL-F	0.05-0.20	0.50-2.0	12.7	12.89	4.76	5.16	0.2	●	
	120404FR-F	0.05-0.20	0.50-2.0	12.7	12.89	4.76	5.16	0.4	●	
	120404FL-F	0.05-0.20	0.50-2.0	12.7	12.89	4.76	5.16	0.4	●	
 Finishing ~ semi-finishing	CNGG 120402R-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.2	●	
	120402L-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.2	●	
	120404R-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.4	●	
	120404L-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.4	●	
	120408R-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.8	●	
	120408L-C	0.20-0.40	1.0-3.0	12.7	12.89	4.76	5.16	0.8	●	
 Sharp type	DNGG 110402FR-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.2	●	
	110402FL-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.2	●	
	110404FR-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.4	●	
	110404FL-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.4	●	
	110408FR-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.8	●	
	110408FL-F	0.05-0.15	0.80-2.0	9.525	11.62	4.76	3.81	0.8	●	
 Finishing ~ semi-finishing	DNGG 110402R-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.2	⊙	
	110402L-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.2	⊙	
	110404R-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.4	⊙	
	110404L-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.4	⊙	
	110408R-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.8	⊙	
	110408L-C	0.15-0.30	0.50-2.5	9.525	11.62	4.76	3.81	0.8	⊙	
 Finishing ~ semi-finishing	SNGG 120402R-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.2	⊙	
	120402L-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.2	⊙	
	120404R-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.4	⊙	
	120404L-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.4	⊙	
	120408R-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.8	⊙	
	120408L-C	0.20-0.40	1.0-3.0	12.7	12.70	4.76	5.16	0.8	⊙	
 Sharp type	TNGG 160402FR-F	0.05-0.20	0.50-2.0	9.525	16.50	4.76	3.81	0.2	●	
	160402FL-F	0.05-0.20	0.50-2.0	9.525	16.50	4.76	3.81	0.2	●	
	160404FR-F	0.05-0.20	0.50-2.0	9.525	16.50	4.76	3.81	0.4	●	
	160404FL-F	0.05-0.20	0.50-2.0	9.525	16.50	4.76	3.81	0.4	●	
 Finishing ~ semi-finishing	TNGG 160402R-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.2	●	
	160402L-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.2	●	
	160404R-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.4	●	
	160404L-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.4	●	
	160408R-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.8	●	
	160408L-C	0.20-0.40	1.0-3.0	9.525	16.50	4.76	3.81	0.8	●	

Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Sharp type	VNGG 160402FR-F	0.05-0.15	0.50-1.8	9.525	16.61	4.76	3.81	0.2	●	
	160402FL-F	0.05-0.15	0.50-1.8	9.525	16.61	4.76	3.81	0.2	●	
	160404FR-F	0.05-0.15	0.50-1.8	9.525	16.61	4.76	3.81	0.4	●	
	160404FL-F	0.05-0.15	0.50-1.8	9.525	16.61	4.76	3.81	0.4	●	
 Finishing - semi-finishing	VNGG 160402R-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.2	●	
	160402L-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.2	●	
	160404R-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.4	●	
	160404L-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.4	●	
	160408R-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.8	●	
	160408L-C	0.15-0.30	0.50-2.5	9.525	16.61	4.76	3.81	0.8	●	
 Sharp type	WNGG 060402FR-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.2	●	
	060402FL-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.2	●	
	060404FR-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.4	●	
	060404FL-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.4	●	
	060408FR-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.8	●	
	060408FL-F	0.05-0.20	0.50-2.0	9.525	6.52	4.76	3.81	0.8	●	
	WNGG 080402FR-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.2	●	
	080402FL-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.2	●	
	080404FR-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.4	●	
	080404FL-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.4	●	
	080408FR-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.8	●	
	080408FL-F	0.05-0.20	0.50-2.0	12.7	8.69	4.76	5.16	0.8	●	
 Finishing - semi-finishing	WNGG 060402R-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.2	●	
	060402L-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.2	●	
	060404R-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.4	●	
	060404L-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.4	●	
	060408R-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.8	●	
	060408L-C	0.20-0.40	1.0-3.0	9.525	6.52	4.76	3.81	0.8	●	
	WNGG 080402R-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.2	●	
	080402L-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.2	●	
	080404R-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.4	●	
	080404L-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.4	●	
	080408R-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.8	●	
	080408L-C	0.20-0.40	1.0-3.0	12.7	8.69	4.76	5.16	0.8	●	

Note : ● For regular stock

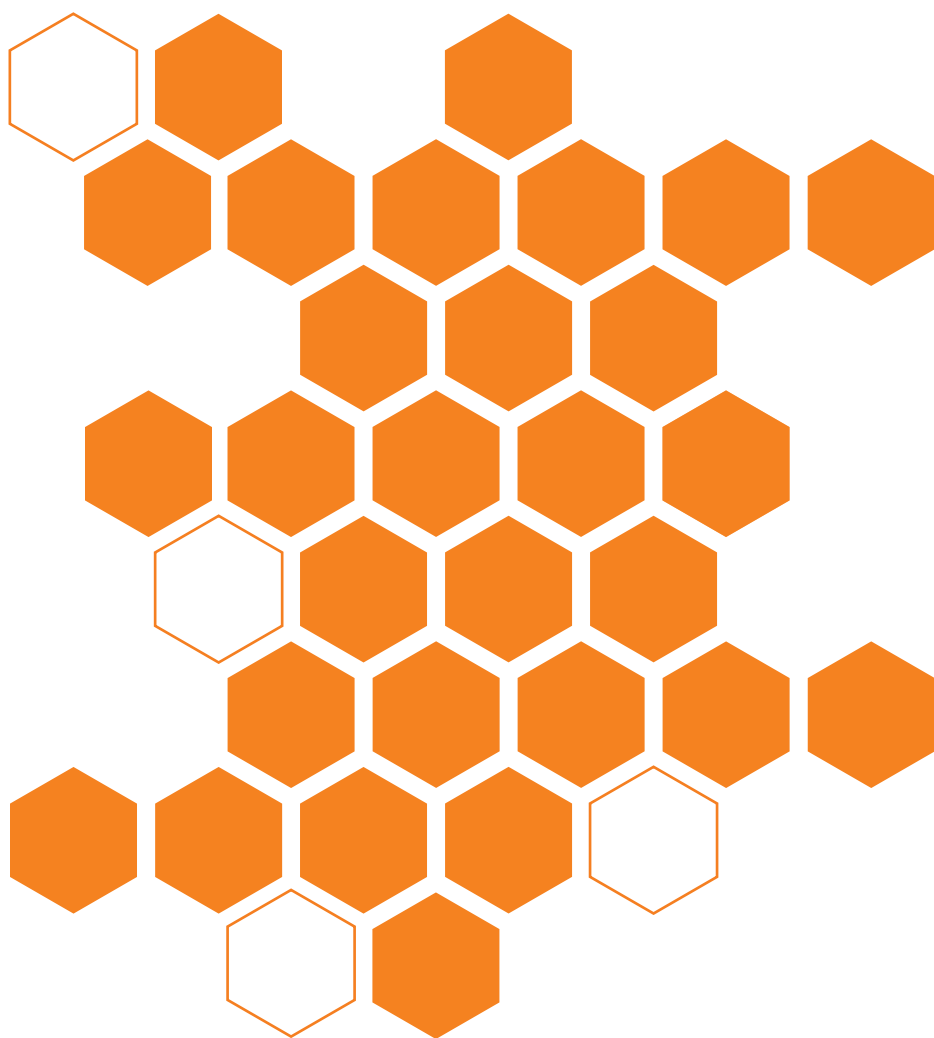
Positive G-class insert(sharp type)

Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Sharp type	CCGT 060202FR-F	0.02-0.10	0.02-0.40	6.35	6.45	2.38	2.8	0.2	●	
	060202FL-F	0.02-0.10	0.02-0.40	6.35	6.45	2.38	2.8	0.2	●	
	060204FR-F	0.02-0.10	0.02-0.40	6.35	6.45	2.38	2.8	0.4	●	
	060204FL-F	0.02-0.10	0.02-0.40	6.35	6.45	2.38	2.8	0.4	●	
	CCGT 09T302FR-F	0.02-0.10	0.02-0.50	9.525	9.67	3.97	4.4	0.2	●	
	09T302FL-F	0.02-0.10	0.02-0.50	9.525	9.67	3.97	4.4	0.2	●	
	09T304FR-F	0.02-0.10	0.02-0.50	9.525	9.67	3.97	4.4	0.4	●	
	09T304FL-F	0.02-0.10	0.02-0.50	9.525	9.67	3.97	4.4	0.4	●	
 Sharp type	DCGT 070202FR-F	0.03-0.18	0.05-0.40	6.35	7.75	2.38	2.8	0.2	●	
	070202FL-F	0.03-0.18	0.05-0.40	6.35	7.75	2.38	2.8	0.2	●	
	070204FR-F	0.03-0.18	0.05-0.40	6.35	7.75	2.38	2.8	0.4	●	
	070204FL-F	0.03-0.18	0.05-0.40	6.35	7.75	2.38	2.8	0.4	●	
	DCGT 11T302FR-F	0.02-0.18	0.02-0.40	9.525	11.62	3.97	4.4	0.2	●	
	11T302FL-F	0.02-0.18	0.02-0.40	9.525	11.62	3.97	4.4	0.2	●	
	11T304FR-F	0.02-0.18	0.02-0.40	9.525	11.62	3.97	4.4	0.4	●	
	11T304FL-F	0.02-0.18	0.02-0.40	9.525	11.62	3.97	4.4	0.4	●	
 Sharp type	DCGT 11T302FR-M	0.02-0.10	0.10-4.0	9.525	11.62	3.97	4.4	0.2	●	
	11T302FL-M	0.02-0.10	0.10-4.0	9.525	11.62	3.97	4.4	0.2	●	
	11T304FR-M	0.02-0.10	0.10-4.0	9.525	11.62	3.97	4.4	0.4	●	
	11T304FL-M	0.02-0.10	0.10-4.0	9.525	11.62	3.97	4.4	0.4	●	
 Sharp type	TBGT 060102FR-F	0.03-0.07	0.10-0.50	3.97	6.90	1.59	2.3	0.2	●	
	060102FL-F	0.03-0.07	0.10-0.50	3.97	6.90	1.59	2.3	0.2	●	
	060104FR-F	0.03-0.07	0.10-0.50	3.97	6.90	1.59	2.3	0.4	●	
	060104FL-F	0.03-0.07	0.10-0.50	3.97	6.90	1.59	2.3	0.4	●	
	TPGT 080202FR-F	0.02-0.10	0.20-0.80	4.76	8.20	2.38	2.3	0.2	●	
	080202FL-F	0.02-0.10	0.20-0.80	4.76	8.20	2.38	2.3	0.2	●	
	080204FR-F	0.02-0.10	0.20-0.80	4.76	8.20	2.38	2.3	0.4	●	
	080204FL-F	0.02-0.10	0.20-0.80	4.76	8.20	2.38	2.3	0.4	●	
	TPGT 090202FR-F	0.20-0.80	0.02-0.10	5.56	9.60	2.38	2.5	0.2	●	
	090202FL-F	0.20-0.80	0.02-0.10	5.56	9.60	2.38	2.5	0.2	●	
	090204FR-F	0.20-0.80	0.02-0.10	5.56	9.60	2.38	2.5	0.4	●	
	090204FL-F	0.20-0.80	0.02-0.10	5.56	9.60	2.38	2.5	0.4	●	
	TPGT 110302FR-F	0.02-0.12	0.20-0.80	6.35	11.0	3.18	3.3	0.2	●	
	110302FL-F	0.02-0.12	0.20-0.80	6.35	11.0	3.18	3.3	0.2	●	
	110304FR-F	0.02-0.12	0.20-0.80	6.35	11.0	3.18	3.3	0.4	●	
	110304FL-F	0.02-0.12	0.20-0.80	6.35	11.0	3.18	3.3	0.4	●	

Insert	Designation	Recommended parameter		Dimension(mm)					Grade	geometry
		Feed	Cutting depth	d	l	s	d1	r	Mental ceramic	
									AT200	
(mm/rev)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
 Sharp type	TCGT 110202FR-F	0.02-0.12	0.20-0.80	6.35	11.0	2.38	3.3	0.2	●	
	110202FL-F	0.02-0.12	0.20-0.80	6.35	11.0	2.38	3.3	0.2	●	
	110204FR-F	0.02-0.12	0.20-0.80	6.35	11.0	2.38	3.3	0.4	●	
	110204FL-F	0.02-0.12	0.20-0.80	6.35	11.0	2.38	3.3	0.4	●	
 Sharp type	VBGT 110301FR-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.1	●	
	110301FL-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.1	●	
	110302FR-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.2	●	
	110302FL-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.2	●	
	110304FR-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.4	●	
	110304FL-F	0.02-0.18	0.02-0.40	6.35	11.07	3.18	2.8	0.4	●	
	VBGT 160402FR-F	0.02-0.18	0.05-0.30	9.525	16.61	4.76	4.4	0.2	●	
	160402FL-F	0.02-0.18	0.05-0.30	9.525	16.61	4.76	4.4	0.2	●	
 Sharp type	VBGT 110302FR-Y	0.08-0.22	0.50-1.80	6.35	11.07	3.18	2.8	0.2	●	
	110302FL-Y	0.08-0.22	0.50-1.80	6.35	11.07	3.18	2.8	0.2	●	
	110304FR-Y	0.08-0.22	0.50-1.80	6.35	11.07	3.18	2.8	0.4	●	
	110304FL-Y	0.08-0.22	0.50-1.80	6.35	11.07	3.18	2.8	0.4	●	
 Sharp type	WBG 060102FR-F	0.02-0.10	0.20-0.80	3.97	6.50	1.59	2.3	0.2	●	
	060102FL-F	0.02-0.10	0.20-0.80	3.97	6.50	1.59	2.3	0.2	●	
	060104FR-F	0.02-0.10	0.20-0.80	3.97	6.50	1.59	2.3	0.4	●	
	060104FL-F	0.02-0.10	0.20-0.80	3.97	6.50	1.59	2.3	0.4	●	

Note : ● For regular stock

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