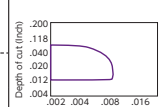
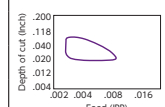
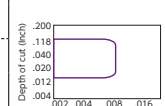
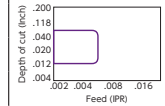


80 degree Diamond Positive type(CC..)

(inch)	IC	T
CC..21.5	1/4	3/32
CC..32.5	3/8	5/32

● : 1st Choice ● : 2nd choice

Shape	Item Number	ISO Item Number	IC	R	Carbide										● : 1st Choice ● : Alternate choice			
					PVD Coated											CVD	Diamond Coating	
					ST4	DM4	DT4	QM3	TM4	VM1	ZM3	KM1	CP1	UC1				
	CCGT 32.501 YL	CCGT 09T300 YL	3/8	.001	●	●	●	●	●	●	●	●	●	●	●			
	CCGT 32.504M YL	CCGT 09T301M YL	3/8	.003	●	●	○	●	○									
	CCGT 32.508M YL	CCGT 09T302M YL	3/8	.007	●	●	○	●	○									
	CCGT 32.51M YL	CCGT 09T304M YL	3/8	.015	●	●	○	●	○									
	CCGT 32.52M YL	CCGT 09T308M YL	3/8	.031	●	●	○	●	○									
	CCGT 21.504M CL	CCGT 060201M CL	1/4	.003	○	○	●	●	○									
	CCGT 21.508M CL	CCGT 060202M CL	1/4	.007	○	○	●	●	○									
	CCGT 32.501 CL	CCGT 09T300 CL	3/8	.001	○	○	○	○	○									
	CCGT 32.504M CL	CCGT 09T301M CL	3/8	.003	○	○	●	●	○									
	CCGT 32.508M CL	CCGT 09T302M CL	3/8	.007	○	○	●	●	○									
	CCGT 21.501 FNAM3	CCGT 060200 FNAM3	1/4	.001	○		●	●	○	○								
	CCGT 21.504M FNAM3	CCGT 060201M FNAM3	1/4	.003	○		●	●	○									
	CCGT 21.508M FNAM3	CCGT 060202M FNAM3	1/4	.007	○		●	●	○									
	CCGT 21.508 FNAM3	CCGT 060202 FNAM3	1/4	.008						○	○							
	CCGT 21.51M FNAM3	CCGT 060204M FNAM3	1/4	.015	○		●	●	○									
	CCGT 32.501 FNAM3	CCGT 09T300 FNAM3	3/8	.001			●	●	○	○								
	CCGT 32.504M FNAM3	CCGT 09T301M FNAM3	3/8	.003	○		●	●	○	○	○							
	CCGT 32.508M FNAM3	CCGT 09T302M FNAM3	3/8	.007	○		●	●	○	○	○							
	CCGT 32.508 FNAM3	CCGT 09T302 FNAM3	3/8	.008														
	CCGT 32.51M FNAM3	CCGT 09T304M FNAM3	3/8	.015	○		●	●	○	○	○							
	CCGT 32.51 FNAM3	CCGT 09T304 FNAM3	3/8	.016														
	CCGT 32.52 FNAM3	CCGT 09T308 FNAM3	3/8	.031				●										
	CCMT 21.508 FNAM3	CCMT 060202 FNAM3	1/4	.008		○												
	CCMT 21.51 FNAM3	CCMT 060204 FNAM3	1/4	.016		○												
CCMT 32.508 FNAM3	CCMT 09T302 FNAM3	3/8	.008		○													
CCMT 32.51 FNAM3	CCMT 09T304 FNAM3	3/8	.016		○													
CCMT 32.52 FNAM3	CCMT 09T308 FNAM3	3/8	.031		○													
	CCGT 21.501 AZ7	CCGT 060200 AZ7	1/4	.001					○									
	CCGT 21.504M AZ7	CCGT 060201M AZ7	1/4	.003					○									
	CCGT 21.508M AZ7	CCGT 060202M AZ7	1/4	.007					○									
	CCGT 32.501 AZ7	CCGT 09T300 AZ7	3/8	.001		○	○	●	○		○							
	CCGT 32.504M AZ7	CCGT 09T301M AZ7	3/8	.003		○	○	●	○		○							
CCGT 32.508M AZ7	CCGT 09T302M AZ7	3/8	.007		○	○	●	○		○								
CCGT 32.51M AZ7	CCGT 09T304M AZ7	3/8	.015		○	○	●	○		○								



Holders → Q10
Boring bars → V30

Insert Item List

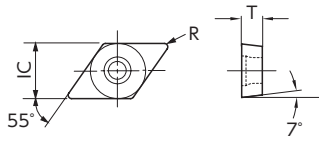
[Carbide]

● : Stock ● : Stock (Newly added) ■□□□ : While stocks last
 R L : Stock (Right / Left-hand only) R L : Stock (Right / Left-hand only, Newly added) ● : Mirror finish
 ○ : 1-2 week delivery ○ : 1-2 week delivery (Newly added) ● : Coolant through
 (R/L) : 1-2 week delivery (Right / Left-hand only) (R/L) : 1-2 week delivery (Right / Left-hand only, Newly added)

55 degree Diamond Positive type (DC..)

(inch)	IC	T
DC...21.5	1/4	3/32
DC...32.5	3/8	5/32

● : 1st Choice ● : 2nd choice



Shape	Item Number	ISO Item Number	IC	R	Carbide											Graph		
					PVD Coated							CVD	Diamond Coating					
					ST4	DM4	DT4	QM3	TM4	VM1	ZM3			KM1	CP1		UC1	
	DCGT 21.504M YL	DCGT 070201M YL	1/4	.003	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 21.508M YL	DCGT 070202M YL	1/4	.007	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 21.51M YL	DCGT 070204M YL	3/8	.015	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 32.501 YL	DCGT 11T300 YL	3/8	.001	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 32.504M YL	DCGT 11T301M YL	3/8	.003	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 32.508M YL	DCGT 11T302M YL	3/8	.007	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 32.51M YL	DCGT 11T304M YL	3/8	.015	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 32.52M YL	DCGT 11T308M YL	3/8	.031	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 21.501 FNAM3	DCGT 070200 FNAM3	1/4	.001	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.504M FNAM3	DCGT 070201 MFNAM3	1/4	.003	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.504 FNAM3	DCGT 070201 FNAM3	1/4	.004	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.508M FNAM3	DCGT 070202 MFNAM3	1/4	.007	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.508 FNAM3	DCGT 070202 FNAM3	1/4	.008	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.51M FNAM3	DCGT 070204 MFNAM3	1/4	.015	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 21.51 FNAM3	DCGT 070204 FNAM3	1/4	.016	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.501 FNAM3	DCGT 11T300 FNAM3	3/8	.001	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.504M FNAM3	DCGT 11T301 MFNAM3	3/8	.003	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.508M FNAM3	DCGT 11T302 MFNAM3	3/8	.007	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.508 FNAM3	DCGT 11T302 FNAM3	3/8	.008	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.51M FNAM3	DCGT 11T304 MFNAM3	3/8	.015	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.51 FNAM3	DCGT 11T304 FNAM3	3/8	.016	○	○	○	○	○	○	○	○	○	○	○	○		
	DCGT 32.52 FNAM3	DCGT 11T308 FNAM3	3/8	.031	○	○	○	○	○	○	○	○	○	○	○	○		
DCMT 21.508 FNAM3	DCMT 070202 FNAM3	1/4	.008		○											●		
DCMT 21.51 FNAM3	DCMT 070204 FNAM3	1/4	.016		○											●		
DCMT 32.504 FNAM3	DCMT 11T301 FNAM3	3/8	.004													●		
DCMT 32.508 FNAM3	DCMT 11T302 FNAM3	3/8	.008													●		
DCMT 32.51 FNAM3	DCMT 11T304 FNAM3	3/8	.016													●		
DCMT 32.52 FNAM3	DCMT 11T308 FNAM3	3/8	.031													●		
	DCGT 32.502 AM3-WP*	TFD 11FR05AM3	3/8	.002			●	○										
	DCGT 32.506 AM3-WP*	TFD 11FR15AM3	3/8	.006			●	○										
	DCGT 21.504M CL	DCGT 070201M CL	1/4	.003	○	○	○	○	○									
	DCGT 21.508M CL	DCGT 070202M CL	1/4	.007	○	○	○	○	○									
	DCGT 21.51M CL	DCGT 070204M CL	1/4	.015	○	○	○	○	○									
	DCGT 32.504M CL	DCGT 11T301M CL	3/8	.003	○	○	○	○	○									
	DCGT 32.508M CL	DCGT 11T302M CL	3/8	.007	○	○	○	○	○									
DCGT 32.51M CL	DCGT 11T304M CL	3/8	.015	○	○	○	○	○										
	DCGT 21.504M AMX	DCGT 070201M AMX	1/4	.003		○	○		○									
	DCGT 21.508M AMX	DCGT 070202M AMX	1/4	.007		○	○		○									
	DCGT 21.51M AMX	DCGT 070204M AMX	1/4	.015		○	○		○									
	DCGT 32.504M AMX	DCGT 11T301M AMX	3/8	.003		○	○		○									
	DCGT 32.508M AMX	DCGT 11T302M AMX	3/8	.007		○	○		○									
DCGT 32.51M AMX	DCGT 11T304M AMX	3/8	.015		○	○		○										
	DCGT 21.501 AZ7	DCGT 070200 AZ7	1/4	.001				○										
	DCGT 21.504M AZ7	DCGT 070201M AZ7	1/4	.003				○										
	DCGT 21.508M AZ7	DCGT 070202M AZ7	1/4	.007				○										
	DCGT 32.501 AZ7	DCGT 11T300 AZ7	3/8	.001			○	○										
	DCGT 32.504M AZ7	DCGT 11T301M AZ7	3/8	.003			○	○										
	DCGT 32.508M AZ7	DCGT 11T302M AZ7	3/8	.007			○	○										
	DCGT 32.51M AZ7	DCGT 11T304M AZ7	3/8	.015			○	○										
	DCGT 32.52 AZ7	DCGT 11T308 AZ7	3/8	.031			○	○										

Holders → Q16 • Q17 • Q18 • Q19

[Carbide] Insert Item List

60 degree Triangle Positive type (TP..)

(inch)	IC	T	(inch)	IC	T
TP..22	1/4	1/8	TP..63	3/16	3/32
			TP..73	7/32	3/32

● : 1st Choice ● : 2nd choice

Shape	Item Number	ISO Item Number	IC	R	Carbide											CVD	Diamond Coating	Graphs		
					PVD Coated							KM1	CP1	UC1						
					ST4	DM4	DT4	QM3	TM4	VM1	ZM3									
	TPGH 6308 F $\frac{3}{4}$ B3	TPGH 08020 F $\frac{3}{4}$ B3	3/16	.008	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	TPGH 631 F $\frac{3}{4}$ B3	TPGH 080204 F $\frac{3}{4}$ B3	3/16	.016	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	TPGH 7308 F $\frac{3}{4}$ B2	TPGH 090202 F $\frac{3}{4}$ B2	7/32	.008	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	TPGH 731 F $\frac{3}{4}$ B2	TPGH 090204 F $\frac{3}{4}$ B2	7/32	.016	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	TPGH 732 $\frac{3}{4}$ B2	TPGH 090208 F $\frac{3}{4}$ B2	7/32	.031	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	TPGH 6308 F $\frac{3}{4}$ F1	TPGH 080202 F $\frac{3}{4}$ F1	3/16	.008					●	●	●									
	TPGH 631 F $\frac{3}{4}$ F1	TPGH 080204 F $\frac{3}{4}$ F1	3/16	.016					●	●	●									
	TPGH 7304 F $\frac{3}{4}$ F1	TPGH 090201 F $\frac{3}{4}$ F1	7/32	.004	●				●	●	●									
	TPGH 7308 F $\frac{3}{4}$ F1	TPGH 090202 F $\frac{3}{4}$ F1	7/32	.008	●				●	●	●									
	TPGH 731 F $\frac{3}{4}$ F1	TPGH 090204 F $\frac{3}{4}$ F1	7/32	.016	●				●	●	●									
	TPGH 732 F $\frac{3}{4}$ F1	TPGH 090208 F $\frac{3}{4}$ F1	7/32	.031	●				●	●	●									
	TPMH 2208 F $\frac{3}{4}$ F1	TPMH 110302 FRF1	1/4	.008	●				●	●	●							●		
	TPMH 221 F $\frac{3}{4}$ F1	TPMH 110304 FRF1	1/4	.016	●				●	●	●							●		
	TPGP 7308 $\frac{3}{4}$ FG	TPGH 090202 $\frac{3}{4}$ FG	7/32	.008	●				●	●	●									
	TPGP 731 $\frac{3}{4}$ FG	TPGH 090204 $\frac{3}{4}$ FG	7/32	.016	●				●	●	●									
	TPGH 2208 $\frac{3}{4}$ FG	TPGH 110302 $\frac{3}{4}$ FG	1/4	.008	●				●	●	●									
	TPGH 221 $\frac{3}{4}$ FG	TPGH 110304 $\frac{3}{4}$ FG	1/4	.016	●				●	●	●									
	TPGP 7308 F $\frac{3}{4}$ K	TPGH 090202 F $\frac{3}{4}$ K	1/4	.008					●	●	●									
	TPGP 7318 F $\frac{3}{4}$ K	TPGH 090204 F $\frac{3}{4}$ K	1/4	.016					●	●	●									
	TPGP 7328 F $\frac{3}{4}$ K	TPGH 090208 F $\frac{3}{4}$ K	1/4	.031					●	●	●									

Boring bars (TPGH73) → V26
Boring bars (TPGH22) → V28

35 degree Diamond Positive type (VB..)

(inch)	IC	T
VB..33	3/8	3/16

● : 1st Choice ● : 2nd choice

Shape	Item Number	ISO Item Number	IC	R	Carbide											CVD	Diamond Coating	Graphs		
					PVD Coated							KM1	CP1	UC1						
					ST4	DM4	DT4	QM3	TM4	VM1	ZM3									
	VBGT 3308 FNYL	VBGT 160402 FNYL	3/8	.008	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	VBGT 331 FNYL	VBGT 160404 FNYL	3/8	.016	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	VBGT 332 FNYL	VBGT 160408 FNYL	3/8	.031	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

Holders (VBGW33) → Q23

Holders (VBGT22) → Q24 · Q25 · Q26

Insert Item List

[Carbide]

35 degree Diamond Positive type (VC..)

(inch)	IC	T
VC..21	1/4	3/32
VC..22	1/4	1/8

● : 1st Choice ● : 2nd choice

Shape	Item Number	ISO Item Number	IC	R	Carbide										Graph					
					PVD Coated											CVD	Diamond Coating			
					ST4	DM4	DT4	QM3	TM4	VM1	ZM3	KM1	CP1	UC1						
					Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	
					Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●		
					Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●		
					Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●		
					Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●		
					Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●		
		VCVT 21.508 MCL	VCVT 110202 MCL	1/4	.007															
		VCET 2203 3/4 UHG	VCET 1103008 3/4 UHG	1/4	.003															
		VCVT 2204M YL	VCVT 110301M YL	1/4	.003	●	●	○	●	○										
		VCVT 2208M YL	VCVT 110302M YL	1/4	.007	●	●	○	●	○										
		VCVT 221M YL	VCVT 110304M YL	1/4	.015	●	●	○	●	○										
		VCVT 2204M CL	VCVT 110301M CL	1/4	.003	○	○	●	○	●										
		VCVT 2208M CL	VCVT 110302M CL	1/4	.007	○	○	●	○	●										
		VCVT 2201 F NAM3	VCVT 110300 F NAM3	1/4	.001			●	●	○	●	■								
		VCVT 2204M F NAM3	VCVT 110301M F NAM3	1/4	.003	○		●	●	○	●	○								
		VCVT 2204 F NAM3	VCVT 110301 F NAM3	1/4	.004			●	●	○	●	○								
		VCVT 2208M F NAM3	VCVT 110302M F NAM3	1/4	.007	○		●	●	○	●	○								
		VCVT 2208 F NAM3	VCVT 110302 F NAM3	1/4	.008			●	●	○	●	○								
		VCVT 221M F NAM3	VCVT 110304M F NAM3	1/4	.015	○		●	●	○	●	○								
		VCMT 2208 F NAM3	VCMT 110302 F NAM3	1/4	.008		○													
		VCMT 221 F NAM3	VCMT 110304 F NAM3	1/4	.016		○													
		VCVT 2201 AZ7	VCVT 110300 AZ7	1/4	.001			●	●	○	●	○								
		VCVT 2204M AZ7	VCVT 110301M AZ7	1/4	.003			●	●	○	●	○								
		VCVT 2208M AZ7	VCVT 110302M AZ7	1/4	.007			●	●	○	●	○								
		VCVT 221M AZ7	VCVT 110304M AZ7	1/4	.015			●	●	○	●	○								
		VCVT 2202 3/4 S-WP*	TFV 11F 3/4 05SX	1/4	.002							R	Ⓡ							
wiper insert		VCVT 2204 3/4 S-WP*	TFV 11F 3/4 10SX	1/4	.004							R	Ⓡ							
		VCVT 2201 3/4 U	VCVT 110300 3/4 U	1/4	.001							R	Ⓡ							
		VCVT 2204M 3/4 U	VCVT 110301M 3/4 U	1/4	.003							R	Ⓡ							
		VCVT 2204 3/4 U	VCVT 110301 3/4 U	1/4	.004							R	Ⓡ							
		VCVT 2208M 3/4 U	VCVT 110302M 3/4 U	1/4	.007							R	Ⓡ							
		VCVT 2208 3/4 U	VCVT 110302 3/4 U	1/4	.008							R	Ⓡ							
		VCVT 2202 3/4 U-WP*	TFV 11F 3/4 05U	1/4	.002							R	Ⓡ							
wiper insert		VCVT 2204 3/4 U-WP*	TFV 11F 3/4 10U	1/4	.004							R	Ⓡ							
		VCGW 2201 H	VCGW 110300 H	1/4	.001									●						
		VCGW 2204 H	VCGW 110301 H	1/4	.004									●						
		VCGW 2208 H	VCGW 110302 H	1/4	.008									●						

*Note: NTK WP style inserts have a wiper facet design. The insert has a 0.2mm (.008") flat on the cutting edge when the insert is set into the toolholder. The flat on the cutting edge ensures a superior surface when feed rates are increased. WP style inserts can be used in toolholders: SVAC

HOLDERS → Q26 • Q27 • Q28

Insert Item List

[Carbide]

