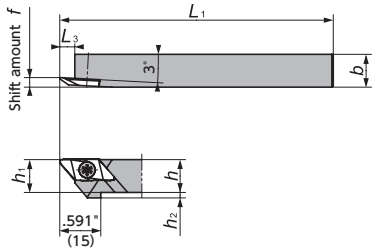
TBP Series

TBP

Screw accessible from both sides



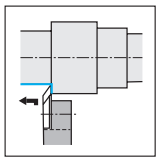
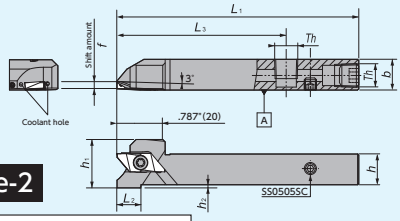


Figure-1

Right-Hand style shown

TBP-OH2 (Coolant through)

Screw accessible from both sides



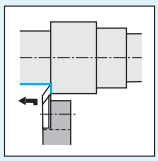


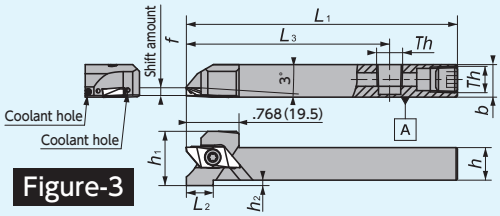
Figure-2

Th (Thread type)
3/8" holder : M6×1
1/2", 5/8" holder : NPT1/8
Metric size holder : Rc1/8 (PT1/8)

Right-Hand style shown

TBP-OH (Coolant through)

Screw accessible from both sides



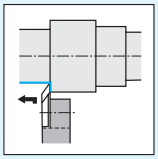


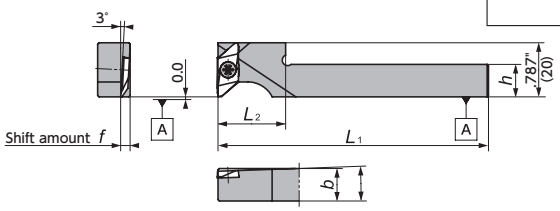
Figure-3

Th (Thread type)
3/8" holder : M6×1
1/2", 5/8" holder : NPT1/8
Metric size holder : Rc1/8 (PT1/8)

Right-Hand style shown

Y-TBP

Screw accessible from both sides



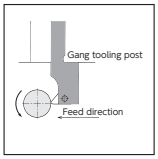
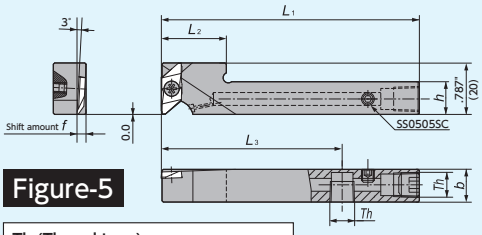


Figure-4

Right-Hand style shown
Takes Right-hand Insert

Y-TBP-OH2 (Coolant through)

Screw accessible from both sides



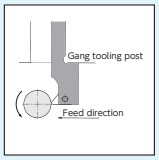


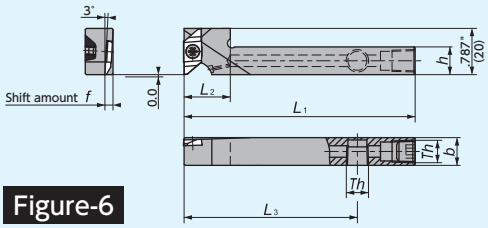
Figure-5

Th (Thread type)
Inch size holder : NPT1/8
Metric size holder: M6, Rc1/8 (PT1/8)

Right-Hand style shown
Takes Right-hand Insert

Y-TBP-OH (Coolant through)

Screw accessible from both sides



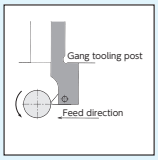
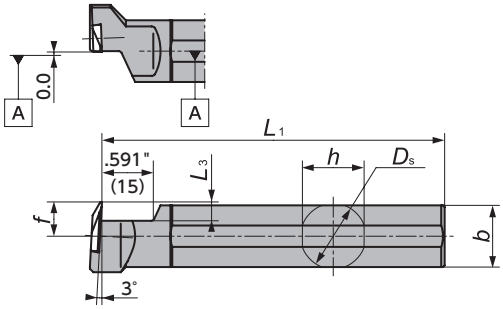


Figure-6

Th (Thread type)
Inch size holder : NPT1/8
Metric size holder: M6, Rc1/8 (PT1/8)

Right-Hand style shown
Takes Right-hand Insert

DS-TBP



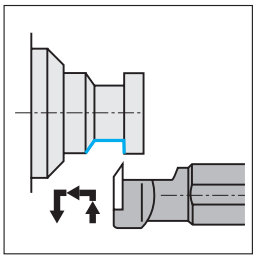


Figure-7

Left-Hand style shown
Takes Right-hand Insert

Cutting condition ➡R3

TBP Series - Toolholders

TBP

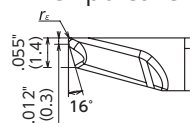
Gage Insert	Item Number	Figure	Stock R	Stock L	h (Inch)	h (mm)	b (Inch)	b (mm)	h_1 (Inch)	h_1 (mm)	L_1 (Inch)	L_1 (mm)	f (Inch)	f (mm)	L_2 (Inch)	L_2 (mm)	h_2 (Inch)	h_2 (mm)	L_3 (Inch)	L_3 (mm)	Th	Clamp Screw	Wrench
TBP..	TBPR/L06-IN	1	●		3/8		3/8		3/8		4.724	120	.138	3.5	–	–	.079	2	.217	5.5	–	LRIS-4×10PW	CLR-15S
	TBPR/L08-IN	1	●		1/2		1/2		1/2		4.724	120	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L10-IN	1	●		5/8		5/8		5/8		4.724	120	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L08	1	○	○	.315	8	.394	10	.315	8	4.724	120	.138	3.5	–	–	.157	4	.217	5.5	–	LRIS-4×10PW	CLR-15S
	TBPR/L10H	1	○		.394	10	.394	10	.394	10	3.937	100	.138	3.5	–	–	.394	2	.217	5.5	–	LRIS-4×10PW	CLR-15S
	TBPR/L10	1	○	○	.394	10	.394	10	.394	10	4.724	120	.138	3.5	–	–	.394	2	.217	5.5	–	LRIS-4×10PW	CLR-15S
	TBPR/L12GX	1	○		.472	12	.472	12	.472	12	3.346	85	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L12	1	●	○	.472	12	.472	12	.472	12	4.724	120	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L13	1	○		.512	13	.512	13	.512	13	4.724	120	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L16H	1	○		.630	16	.630	16	.630	16	3.937	100	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L16	1	○	○	.630	16	.630	16	.630	16	4.724	120	.138	3.5	–	–	0	0	.217	5.5	–	LRIS-4×12PW	CLR-15S
	TBPR/L06H-IN-OH 💧	3	●		3/8		.472	12	3/8		3.937	100	.138	3.5	.748	19	.176	4.475	2.953	75	M6×1	LRIS-4×10PW	CLR-15S
	TBPR/L08H-IN-OH 💧	3	■		1/2		1/2		1/2		3.937	100	.138	3.5	.394	10	.051	1.3	2.953	75	NPT1/8	LRIS-4×12PW	CLR-15S
	TBPR/L08H-IN-OH2 💧	2	●		1/2		1/2		1/2		3.937	100	.138	3.5	.394	10	.051	1.3	2.756	70	NPT1/8	LRIS-4×12PW	CLR-15S
	TBPR/L10H-IN-OH 💧	3	●		5/8		5/8		5/8		3.937	100	.138	3.5	0	0	0	0	2.953	75	NPT1/8	LRIS-4×12PW	CLR-15S
	TBPR/L10X-IN-OH2 💧	2	●		5/8		5/8		5/8		4.724	120	.138	3.5	0	0	0	0	2.953	75	NPT1/8	LRIS-4×12PW	CLR-15S
	TBPR/L1012H-OH 💧	3	○		.394	10	.472	12	.394	10	3.937	100	.138	3.5	.748	19	.176	4.475	2.953	75	M6×1	LRIS-4×10PW	CLR-15S
	TBPR/L12H-OH 💧	3	■		.472	12	.472	12	.472	12	3.937	100	.138	3.5	.394	10	.051	1.3	2.953	75	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	TBPR/L12H-OH2 💧	2	●		.472	12	.472	12	.472	12	3.937	100	.138	3.5	.394	10	.051	1.3	2.756	70	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	TBPR/L16H-OH 💧	3	○		.630	16	.630	16	.630	16	3.937	100	.138	3.5	0	0	0	0	2.953	75	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	TBPR/L16X-OH2 💧	2	●		.630	16	.630	16	.630	16	4.724	120	.138	3.5	0	0	0	0	2.953	75	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	Y-TBPR/L06-IN	4	●		3/8		3/8		–	–	2.756	70	.138	3.5	.984	25	–	–	–	–	–	LRIS-4×10PW	CLR-15S
	Y-TBPR/L08-IN	4	●		1/2		1/2		–	–	2.756	70	.138	3.5	.984	25	–	–	–	–	–	LRIS-4×12PW	CLR-15S
	Y-TBPR/L10-IN	4	●		5/8		5/8		–	–	2.756	70	.138	3.5	.984	25	–	–	–	–	–	LRIS-4×12PW	CLR-15S
	Y-TBPR/L10MS	4	○		.394	10	.394	10	–	–	4.724	120	.138	3.5	.866	22	–	–	–	–	–	LRIS-4×10PW	CLR-15S
	Y-TBPR/L10S	4	○		.394	10	.394	10	–	–	4.724	120	.138	3.5	.787	20	–	–	–	–	–	LRIS-4×10PW	CLR-15S
	Y-TBPR/L12MS	4	○		.472	12	.472	12	–	–	4.724	120	.138	3.5	.866	22	–	–	–	–	–	LRIS-4×12PW	CLR-15S
	Y-TBPR/L12S	4	○		.472	12	.472	12	–	–	4.724	120	.138	3.5	.787	20	–	–	–	–	–	LRIS-4×12PW	CLR-15S
	Y-TBPR/L08H-IN-OH 💧	6	■		1/2		1/2		–	–	3.937	100	.138	3.5	.984	25	–	–	2.953	75	NPT1/8	LRIS-4×12PW	CLR-15S
	Y-TBPR/L08H-IN-OH2 💧	5	●		1/2		1/2		–	–	3.937	100	.138	3.5	.984	25	–	–	2.756	70	NPT1/8	LRIS-4×12PW	CLR-15S
	Y-TBPR/L12HS-OH 💧	6	■		.472	12	.472	12	–	–	3.937	100	.138	3.5	.787	20	–	–	2.953	75	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	Y-TBPR/L12HS-OH2 💧	5	●		.472	12	.472	12	–	–	3.937	100	.138	3.5	.787	20	–	–	2.756	70	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S
	Y-TBPR/L16H-OH 💧	6	○		.630	16	.630	16	–	–	3.937	100	.138	3.5	.984	25	–	–	2.953	75	Rc1/8(PT1/8)	LRIS-4×12PW	CLR-15S

DS-TBP (Takes right-hand inserts)

Gage Insert	Item Number	Figure	Stock R	Stock L	D_s (Inch)	D_s (mm)	h (Inch)	h (mm)	b (Inch)	b (mm)	L_1 (Inch)	L_1 (mm)	f (Inch)	f (mm)	L_3 (Inch)	L_3 (mm)	Clamp Screw	Wrench
TBP..FR..	DS-TBPR/L19	7		○	3/4	19.050	.709	18	.709	18	4.724	120	.394	10.0	.217	5.5	LRIS-4×10	LLR-25S-20×65
	DS-TBPR/L20	7		○	.787	20.000	.748	19	.748	19	4.724	120	.394	10.0	.217	5.5	LRIS-4×10	LLR-25S-20×65
	DS-TBPR/L25	7		○	1.00	25.400	.945	24	.945	24	5.906	150	.394	10.0	.217	5.5	LRIS-4×10	LLR-25S-20×65

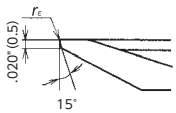
TBP Series - Inserts

with BM-Chipbreaker



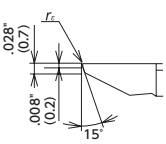
Right-Hand style shown

with Chipbreaker

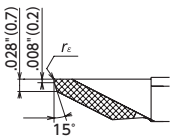


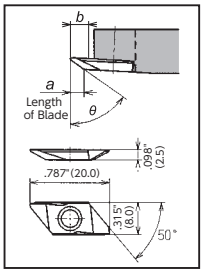
without Chipbreaker

Mirror finish



〈PD1〉 PCD tipped





TBP – Back Turning

Item Number	Chip-breaker	Length of Blade a (Inch)	Length of Blade a (mm)	Max Depth of Cut b (Inch)	Max Depth of Cut b (mm)	θ	r_ε (Inch)	r_ε (mm)	Wiper Length α (Inch)	Wiper Length α (mm)	Coated Carbide ST4 R	ST4 L	DM4 R	DM4 L	DT4 R	DT4 L	QM3 R	QM3 L	TM4 R	TM4 L	VM1 R	VM1 L	ZM3 R	ZM3 L	Carbide KM1 R	KM1 L	PCD PD1 R	PD1 L
TBP 72FR/L05-BM	Yes-BM	.138	3.5	.209	5.3	72°	.002	0.05	.012	0.3	●		●						○									
TBP 72FR/L10M-BM	Yes-BM	.138	3.5	.209	5.3	72°	.003	0.08	.012	0.3	●		●						○									
TBP 72FR/L20M-BM	Yes-BM	.138	3.5	.209	5.3	72°	.007	0.18	.012	0.3	●		●						○									
TBP 55FR/L00	Yes	.118	3.0	.209	5.3	55°	0.00	0.00	.020	0.5											○		●	○				
TBP 55FR/L10	Yes	.118	3.0	.209	5.3	55°	.004	0.10	.020	0.5											○		●	○				
TBP 60FR/L00	Yes	.146	3.7	.209	5.3	60°	0.00	0.00	.020	0.5					●		●		○		○		●	○				
TBP 60FR/L05	Yes	.146	3.7	.209	5.3	60°	.002	0.05	.020	0.5																		
TBP 60FR/L10	Yes	.146	3.7	.209	5.3	60°	.004	0.10	.020	0.5							●		○		●		●	○				
TBP 60FR/L10M	Yes	.146	3.7	.209	5.3	60°	.003	0.08	.020	0.5					●		●				○							
TBP 60FR/L20	Yes	.146	3.7	.209	5.3	60°	.008	0.20	.020	0.5									○									
TBP 60FR/L V Ⓜ	No	.189	4.8	.209	5.3	60°	0.00	0.00	.008	0.2											○	○	○		●			
TBP 60FR/L V00-P	No	.157	4.0	.209	5.3	60°	0.00	0.00	.008	0.2																	○	
TBP 60FR/L V05 Ⓜ	No	.189	4.8	.209	5.3	60°	.002	0.05	.008	0.2											○				●			
TBP 60FR/L V10 Ⓜ	No	.189	4.8	.209	5.3	60°	.004	0.10	.008	0.2											○		○		●			
TBP 60FR/L V10-P	No	.157	4.0	.209	5.3	60°	.004	0.10	.008	0.2																	○	

Note: All angles shown are obtained when insert is set in the holder

● : Stock
● : Stock (Newly added)
■ □ R L : 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)

TBVC Series

TBVC

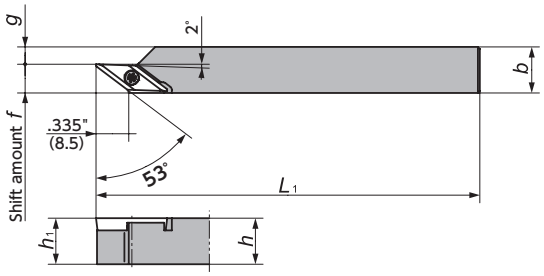
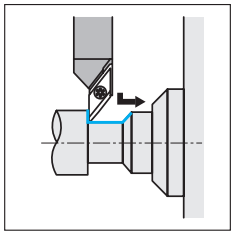


Figure-1



Right-Hand style shown
For non - ferrous materials

TBVC-F10

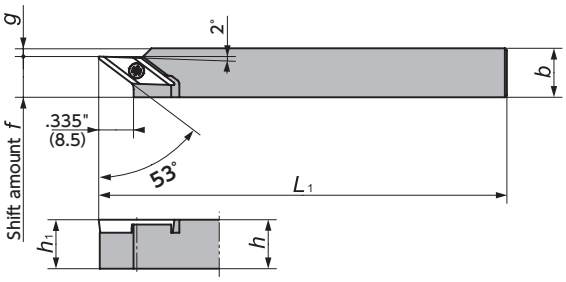
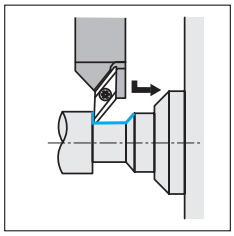


Figure-2



Right-Hand style shown
For steel materials

CH-SVXCL

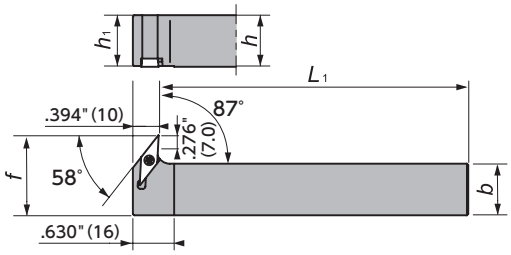
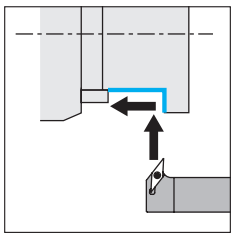


Figure-3

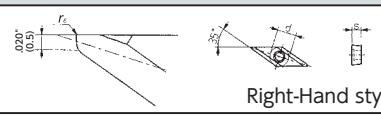


Left-Hand style shown
Takes Right-hand or Neutral chip breaker

TBVC Series - Toolholders

Gage Insert	Item Number	Figure	Stock R	Stock L	h (Inch)	h (mm)	b (Inch)	b (mm)	h_1 (Inch)	h_1 (mm)	L_1 (Inch)	L_1 (mm)	f (Inch)	f (mm)	g (Inch)	g (mm)	Clamp Screw	Wrench
TBVC VC..22	**TBVC3/8 10**	1	○		.394	10	.394	10	.394	10	4.724	120	.295	7.5	.098	2.5	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 12	1	○		.472	12	.472	12	.472	12	4.724	120	.295	7.5	.098	4.5	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 16	1	○		.630	16	.630	16	.630	16	4.724	120	.295	7.5	.098	8.5	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 08-F10-IN	2	●		1/2		1/2		1/2		4.724	120	.394	10	0	0	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 10-F10	2	○		.394	10	.394	10	.394	10	4.724	120	.394	10	0	0	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 12GX-F10	2	○		.472	12	.472	12	.472	12	3.346	85	.394	10	.079	2	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 12-F10	2	●		.472	12	.472	12	.472	12	4.724	120	.394	10	.079	2	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 16H-F10	2	○		.630	16	.630	16	.630	16	3.150	100	.394	10	.234	6	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 16-F10	2	●		.630	16	.630	16	.630	16	4.724	120	.394	10	.234	6	LRIS-2.5 × 7	CLR-15S
	TBVC3/8 20F-F10	2	○		.787	20	.787	20	.787	20	3.150	80	.394	10	.394	10	LRIS-2.5 × 7	CLR-15S
	CH-SVXC3/8 1616 × 11	3		○	.630	16	.630	16	.787	20	4.724	120	1.063	27	—	—	LRIS-2.5 × 7	CLR-15S
	CH-SVXC3/8 2020 × 11	3		○	.630	16	.630	16	.787	20	4.724	120	1.220	31	—	—	LRIS-2.5 × 7	CLR-15S

TBVC Series - Inserts

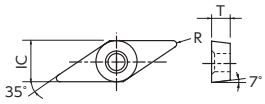
Shape	Item Number	d (Inch)	d (mm)	s (Inch)	s (mm)	r_ε (Inch)	r_ε (mm)	Coated Carbide VM1 R	VM1 L	ZM3 R	ZM3 L
 Right-Hand style shown	**TBVC11F3/8 05U**	1/4	6.35	1/8	3.18	.002	0.05			●	
	TBVC11F3/8 10U	1/4	6.35	1/8	3.18	.004	0.10	●		●	
	TBVC11F3/8 10S	1/4	6.35	1/8	3.18	.004	0.10			●	

Cutting condition ➡R3

VC.. Inserts - Carbide

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

● : 1st Choice ● : 2nd choice

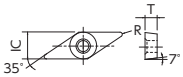


		ST4	DM4	DT4	QM3	TM4	VM1	ZM3	KM1	CP1	UC1
Steel	P	●	●	●	●	●	●	●	●		
Stainless Steel	M	●	●	●	●	●	●	●	●		
Cast Iron	K									●	
Non-Ferrous Material	N					●	●	●	●		●
Heat Resistant Alloy	S	●	●	●	●	●					
Hardened Material	H	●	●	●	●						

Shape	Item Number	ISO Item Number	IC	R	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	KM1	CP1	UC1
					Carbide									
					PVD Coated								CVD	Diamond Coating
	VCGT 2204M YL	VCGT 110301M YL	1/4	.003	●	●	○	●	○					
	VCGT 2208M YL	VCGT 110302M YL	1/4	.007	●	●	○	●	○					
	VCGT 221M YL	VCGT 110304M YL	1/4	.015	●	●	○	●	○					
	VCGT 2204M CL	VCGT 110301M CL	1/4	.003	○	○	●	○	●					
	VCGT 2208M CL	VCGT 110302M CL	1/4	.007	○	○	●	○	●					
	VCGT 2201 FNAM3	VCGT 110300 FNAM3	1/4	.001			●	●	○	●	■			
	VCGT 2204M FNAM3	VCGT 110301M FNAM3	1/4	.003	○		●	●	○	○				
	VCGT 2204 FNAM3	VCGT 110301 FNAM3	1/4	.004						●	○			
	VCGT 2208M FNAM3	VCGT 110302M FNAM3	1/4	.007	○		●	●	○	○				
	VCGT 2208 FNAM3	VCGT 110302 FNAM3	1/4	.008						●	○			
	VCGT 221M FNAM3	VCGT 110304M FNAM3	1/4	.015	○		●	●	○	○				
	VCMT 2208 FNAM3	VCGT 110302 FNAM3	1/4	.008		○								
	VCMT 221 FNAM3	VCGT 110304 FNAM3	1/4	.016		○								
	VCGT 2201 AZ7	VCGT 110300 AZ7	1/4	.001				●			○			
	VCGT 2204M AZ7	VCGT 110301M AZ7	1/4	.003				●			○			
	VCGT 2208M AZ7	VCGT 110302M AZ7	1/4	.007				●			○			
	VCGT 221M AZ7	VCGT 110304M AZ7	1/4	.015				●			○			
wiper insert	VCGT 2202 R/L S-WP*	TFV 11F R/L 05SX	1/4	.002						R	Ⓡ			
	VCGT 2204 R/L S-WP*	TFV 11F R/L 10SX	1/4	.004						R	Ⓡ			
	VCGT 2201 R/L U	VCGT 110300 R/L U	1/4	.001						Ⓡ	Ⓡ			
	VCGT 2204M R/L U	VCGT 110301M R/L U	1/4	.003			Ⓡ							
	VCGT 2204 R/L U	VCGT 110301 R/L U	1/4	.004						Ⓡ	Ⓡ			
	VCGT 2208M R/L U	VCGT 110302M R/L U	1/4	.007			Ⓡ							
	VCGT 2208 R/L U	VCGT 110302 R/L U	1/4	.008						Ⓡ	Ⓡ			
wiper insert	VCGT 2202 R/L U-WP*	TFV 11F R/L 05U	1/4	.002						Ⓡ	Ⓡ			
	VCGT 2204 R/L U-WP*	TFV 11F R/L 10U	1/4	.004						Ⓡ	Ⓡ			
	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 finish when feed rates are increased.
WP style inserts can be used in toolholders: SVAC

● : 1st Choice ● : 2nd choice



		JP2	B99	B5K	B52	B6K	B36	B40	B23	B30	PD1	PD2	UC1
		BIDEMICS Coated	Solid CBN	CBN (Brazed) Coated		CBN (Brazed) Coated					PCD		Diamond Coating
Steel	P												
Stainless Steel	M												
Cast Iron	K		●	●	●				●	●			
Non-Ferrous Material	N										●	●	●
Heat Resistant Alloy	S	●											
Hardened Material	H		●	●	●	●	●	●					

Shape	Item Number	ISO Item Number	Edge Prep.	IC	R	No. of edge	Length of edge	JP2	B99	B5K	B52	B6K	B36	B40	B23	B30	PD1	PD2	UC1
	VCGW 2208 PD S0415	VCGW 110302 PD S01015	S0415	1/4	.008	2	.102				○			○					
	VCGW 2208 PD S0635	VCGW 110302 PD S01535	S0635	1/4	.008	2	.102				○			○					
	VCGW 221 PD S0415	VCGW 110304 PD S01015	S0415	1/4	.016	2	.098				○			○					
	VCGW 221 PD S0635	VCGW 110304 PD S01535	S0635	1/4	.016	2	.098				○			○					
	VCGW 222 PD S0415	VCGW 110308 PD S01015	S0415	1/4	.031	2	.098				○			○					
	VCGW 222 PD S0635	VCGW 110308 PD S01535	S0635	1/4	.031	2	.098				○			○					
	VCGW 223 PD S0415	VCGW 110312 PD S01015	S0415	1/4	.047	2	.106				○			○					
	VCGW 223 PD S0635	VCGW 110312 PD S01535	S0635	1/4	.047	2	.106				○			○					
	VCMW 2204	VCMW 110301	None	1/4	.004	1	—										○		
	VCMW 2208	VCMW 110302	None	1/4	.008	1	—										○		
	VCMW 221	VCMW 110304	None	1/4	.016	1	—										○		

● : Stock
● : Stock (Newly added)
■ □ R L : 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
ⓇⓁ : 1-2 week delivery (Right / Left-hand only)
ⓇⓁ : 1-2 week delivery (Right / Left-hand only, Newly added)