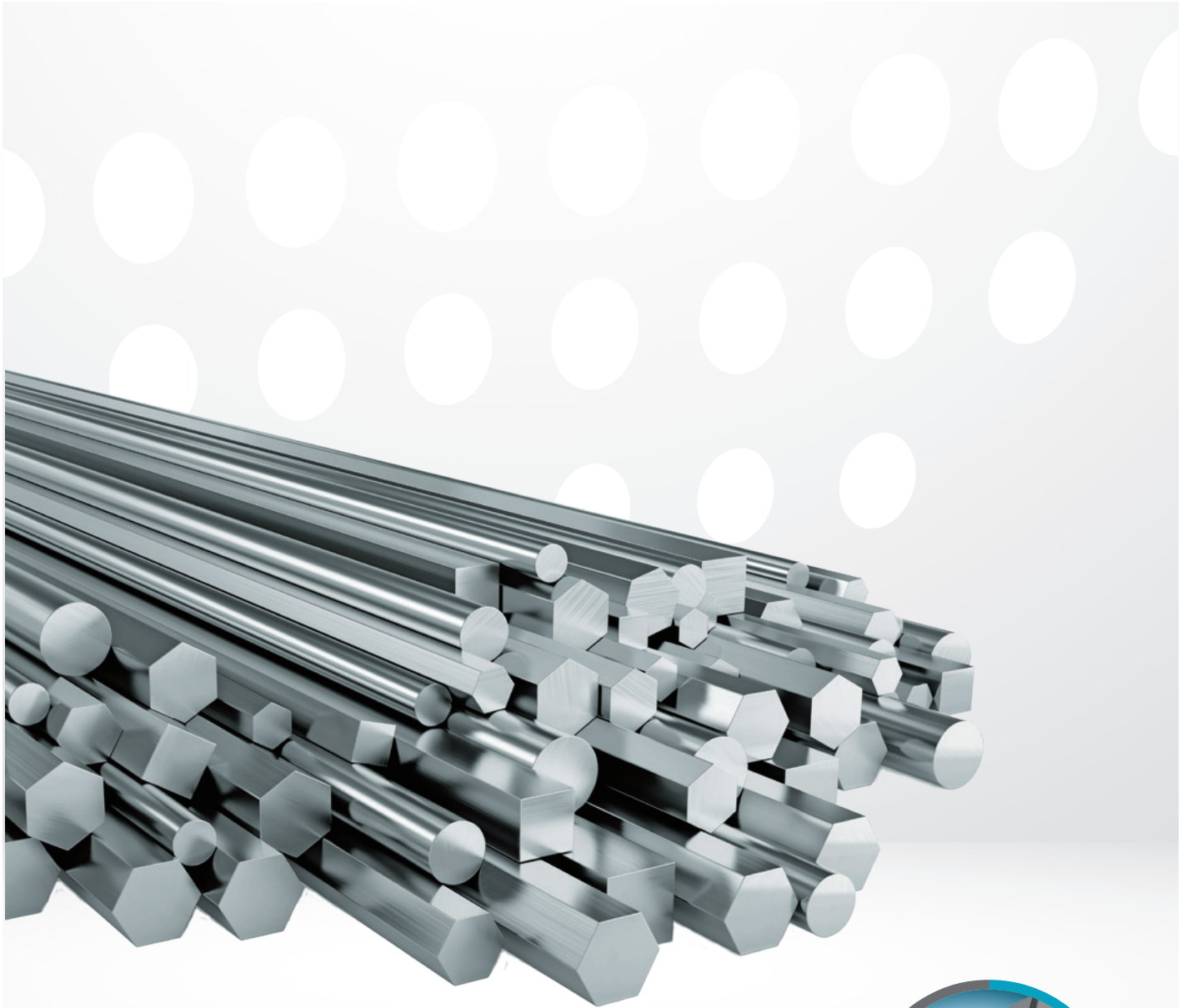


Stainless steel processing solutions

For small diameter parts | CNC automatic lathe tool



ST4

+

NTK
Chipbreaker

+

SPLASH
Holder Series

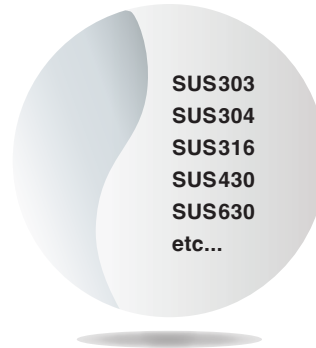
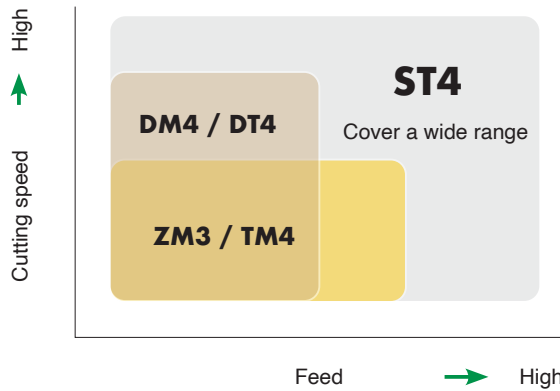


No more worries with stainless steel

ST4

Dedicated to stainless steel machining | CNC auto lathe tool material

APPLICATION AREA **M**



ST4 has long life with high-hardness and excellent oxidation resistance

Through our proprietary coating technology, we generate a high aluminum coating film, effectively reducing adhesion and weld-related issues. Our tool effectively minimizes tool wear due to increased cutting edge temperatures during high-speed machining and difficult-to-cut stainless steel machining

Example of machining

Stainless steel | Cut-off



SUS304 Φ11 V_c=267 SFM f=.0012" IPR WET, CTPA15FLN

ST4 is not welded and tool wear is low.

Electromagnetic stainless steel | Front turning

After 2,100m processing	PVD coating ST4	Competitor's
Picture of cutting edge		
Machined surface		
Surface roughness Ra(μm)	1.57	43.3
Tool wear (inch)	.0055"	.0063"

Electromagnetic stainless steel V_c=533 SFM f=.002" IPR a_p=.0394" WET, DCGT11T302MYL

ST4 can also be machined with electro magnetic stainless-steel

In all applications, "ST4",

NTK
Chipbreaker



SPLASH
Holder Series



New

Addition of lineup

NTK Chipbreaker

Expansion of lineup for all applications

Select optimum chipbreaker according to machining conditions



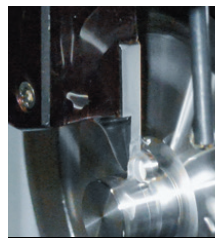
Front turning

→ P4



Back turning

→ P7



Cut-off

→ P8



Grooving

→ P12



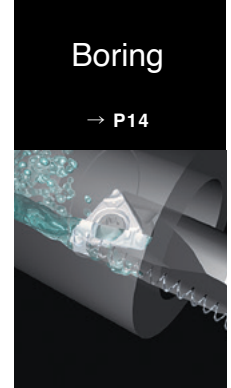
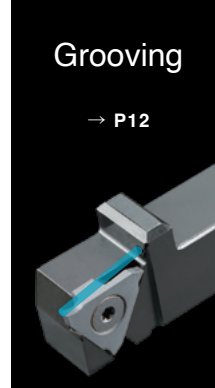
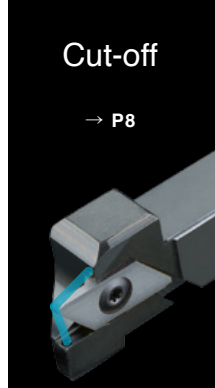
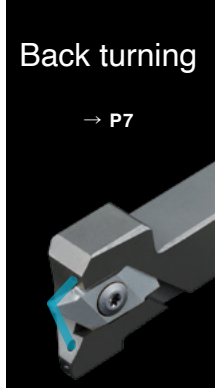
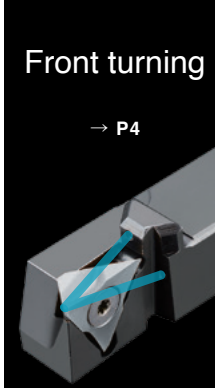
Threading

→ P13



Boring

→ P14



SPLASH

Coolant Through Holders | For Swiss CNC Lathes

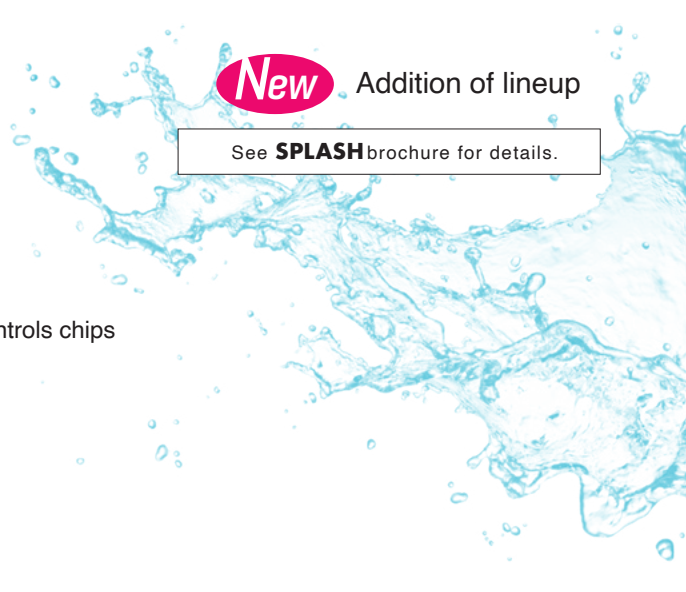
Set up **SPLASH** series for each application

Reducing the heat at the cutting edge reducing tool wear and forcibly controls chips

New

Addition of lineup

See **SPLASH** brochure for details.



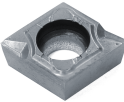
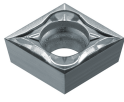
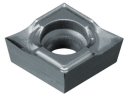
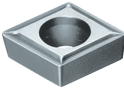
"Chipbreaker" and "SPLASH" are selectable

Front Turning

Inserts - Carbide

CCGT



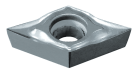
●: 1st Choice ○: 2nd choice

								Steel	○
								Stainless Steel	●
								Cast Iron	
								Non-Ferrous Material	
								Heat Resistant Alloy	
								Hardened Material	
								Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide	
	inch		°	inch	inch	°	inch	PVD ST4	
	CCGT 32.504M R TMV	Up-sharp edge	80	3/8	5/32	7	.003	●	
	CCGT 32.508M R TMV	Up-sharp edge	80	3/8	5/32	7	.007	●	
	CCGT 32.51M R TMV	Up-sharp edge	80	3/8	5/32	7	.015	●	
	CCGT 32.504M YL	Up-sharp edge	80	3/8	5/32	7	.003	●	
	CCGT 32.508M YL	Up-sharp edge	80	3/8	5/32	7	.007	●	
	CCGT 32.51M YL	Up-sharp edge	80	3/8	5/32	7	.015	●	
	CCGT 32.52M YL	Up-sharp edge	80	3/8	5/32	7	.031	●	
	CCGT 21.504M CL	Up-sharp edge	80	1/4	3/32	7	.003	●	
	CCGT 21.508M CL	Up-sharp edge	80	1/4	3/32	7	.007	●	
	CCGT 32.504M CL	Up-sharp edge	80	3/8	5/32	7	.003	●	
	CCGT 32.508M CL	Up-sharp edge	80	3/8	5/32	7	.007	●	
	CCGT 32.51M CL	Up-sharp edge	80	3/8	5/32	7	.015	●	
	CCGT 21.504M FN AM3	Up-sharp edge	80	1/4	3/32	7	.003	●	
	CCGT 21.508M FN AM3	Up-sharp edge	80	1/4	3/32	7	.007	●	
	CCGT 21.51M FN AM3	Up-sharp edge	80	1/4	3/32	7	.015	●	
	CCGT 32.504M FN AM3	Up-sharp edge	80	3/8	5/32	7	.003	●	
	CCGT 32.508M FN AM3	Up-sharp edge	80	3/8	5/32	7	.007	●	
	CCGT 32.51M FN AM3	Up-sharp edge	80	3/8	5/32	7	.015	●	

● Stock(Newly added) ● Stock

DCGT

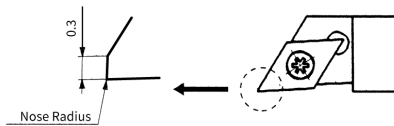
●: 1st Choice ○: 2nd choice

								Steel	○
								Stainless Steel	●
								Cast Iron	
								Non-Ferrous Material	
								Heat Resistant Alloy	
								Hardened Material	
								Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide
	inch		°	inch	inch	°	inch	inch	PVD ST4
	DCGT 32.504M R TMV	Up-sharp edge	55	1/4	3/32	7	.003	-	●
	DCGT 32.508M R TMV	Up-sharp edge	55	1/4	3/32	7	.007	-	●
	DCGT 32.51M R TMV	Up-sharp edge	55	1/4	3/32	7	.015	-	●
	DCGT 32.504M YL	Up-sharp edge	55	3/8	5/32	7	.003	-	●
	DCGT 32.508M YL	Up-sharp edge	55	3/8	5/32	7	.007	-	●
	DCGT 32.51M YL	Up-sharp edge	55	3/8	5/32	7	.015	-	●
	DCGT 32.52M YL	Up-sharp edge	55	3/8	5/32	7	.031	-	●
	DCGT 21.504M CL	Up-sharp edge	55	1/4	3/32	7	.003	-	●
	DCGT 21.508M CL	Up-sharp edge	55	1/4	3/32	7	.007	-	●
	DCGT 21.51M CL	Up-sharp edge	55	1/4	3/32	7	.015	-	●
	DCGT 32.504M CL	Up-sharp edge	55	3/8	5/32	7	.003	-	●

									Steel	○
									Stainless Steel	●
									Cast Iron	
									Non-Ferrous Material	
									Heat Resistant Alloy	
									Hardened Material	
									Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide	
	inch		°	inch	inch	°	inch	inch	ST4 PVD	
	DCGT 32.508M CL	Up-sharp edge	55	3/8	5/32	7	.007	-	●	
	DCGT 32.51M CL	Up-sharp edge	55	3/8	5/32	7	.015	-	●	
	DCGT 21.504M FN AM3	Up-sharp edge	55	1/4	3/32	7	.003	-	●	
	DCGT 21.508M FN AM3	Up-sharp edge	55	1/4	3/32	7	.007	-	●	
	DCGT 21.51M FN AM3	Up-sharp edge	55	1/4	3/32	7	.015	-	●	
	DCGT 32.504M FN AM3	Up-sharp edge	55	3/8	5/32	7	.003	-	●	
	DCGT 32.508M FN AM3	Up-sharp edge	55	3/8	5/32	7	.007	-	●	
	DCGT 32.51M FN AM3	Up-sharp edge	55	3/8	5/32	7	.015	-	●	
	DCGT 21.504M AMX	Up-sharp edge	55	1/4	3/32	7	.003	-	●	
	DCGT 21.508M AMX	Up-sharp edge	55	1/4	3/32	7	.007	-	●	
	DCGT 32.504M AMX	Up-sharp edge	55	3/8	5/32	7	.003	-	●	
	DCGT 32.508M AMX	Up-sharp edge	55	3/8	5/32	7	.007	-	●	
	DCGT 32.51M AMX	Up-sharp edge	55	3/8	5/32	7	.015	-	●	
	DCGT 32.502 AM3 -WP	Up-sharp edge	55	3/8	5/32	7	.002	(.012)	●	
	DCGT 32.506 AM3 -WP	Up-sharp edge	55	3/8	5/32	7	.006	(.012)	●	

●: Stock(Newly added) ○: Stock

Features of DC.T-WP insert



NTK WP style inserts have a wiper facet design.

The insert has a 0.3mm(.012") 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: SDJC, CH-SDUL and DS-SDUL.

TNGG

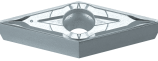
●: 1st Choice ○: 2nd choice

									Steel	○
									Stainless Steel	●
									Cast Iron	
									Non-Ferrous Material	
									Heat Resistant Alloy	
									Hardened Material	
									Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	RE	Carbide			
	inch		°	inch	inch	inch	ST4 PVD			
	TNGG 3308M R TMV	Up-sharp edge	60	3/8	3/16	.007			●	
	TNGG 331M R TMV	Up-sharp edge	60	3/8	3/16	.015			●	
	TNGG 3304M FN UL	Up-sharp edge	60	3/8	3/16	.003			●	
	TNGG 3308M FN UL	Up-sharp edge	60	3/8	3/16	.007			●	
	TNGG 331M FN UL	Up-sharp edge	60	3/8	3/16	.015			●	
	TNGG 332M FN UL	Up-sharp edge	60	3/8	3/16	.031			●	

●: Stock(Newly added) ○: Stock

VBGT


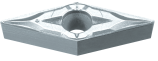
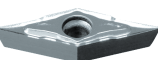
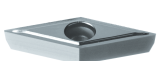
●: 1st Choice ○: 2nd choice

								Steel	○
								Stainless Steel	●
								Cast Iron	
								Non-Ferrous Material	
								Heat Resistant Alloy	
								Hardened Material	
								Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide	
	inch		°	inch	inch	°	inch	PVD ST4	
	VBGT 3308 FN YL	Up-sharp edge	35	3/8	3/16	5	.008	●	
	VBGT 331 FN YL	Up-sharp edge	35	3/8	3/16	5	.016	●	
	VBGT 332 FN YL	Up-sharp edge	35	3/8	3/16	5	.031	●	

●: Stock(Newly added) ●: Stock

VCGT

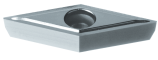
●: 1st Choice ○: 2nd choice

								Steel	○
								Stainless Steel	●
								Cast Iron	
								Non-Ferrous Material	
								Heat Resistant Alloy	
								Hardened Material	
								Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide	
	inch		°	inch	inch	°	inch	PVD ST4	
	VCGT 2208M R TMV	Up-sharp edge	35	1/4	1/8	7	.007	●	
	VCGT 221M R TMV	Up-sharp edge	35	1/4	1/8	7	.015	●	
	VCGT 2204M YL	Up-sharp edge	35	1/4	1/8	7	.003	●	
	VCGT 2208M YL	-	-	-	-	-	-	●	
	VCGT 221M YL	Up-sharp edge	35	1/4	1/8	7	.015	●	
	VCGT 2204M CL	Up-sharp edge	35	1/4	1/8	7	.003	●	
	VCGT 2208M CL	Up-sharp edge	35	1/4	1/8	7	.007	●	
	VCGT 2204M FN AM3	Up-sharp edge	35	1/4	1/8	7	.003	●	
	VCGT 2208M FN AM3	Up-sharp edge	35	1/4	1/8	7	.007	●	
	VCGT 221M FN AM3	Up-sharp edge	35	1/4	1/8	7	.015	●	

●: Stock(Newly added) ●: Stock

VPGT

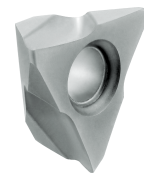
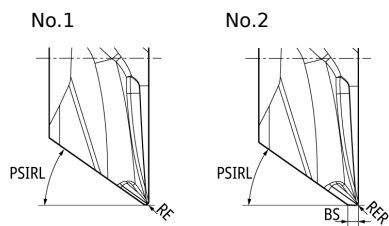
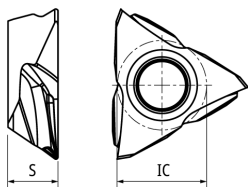
●: 1st Choice ○: 2nd choice

								Steel	○
								Stainless Steel	●
								Cast Iron	
								Non-Ferrous Material	
								Heat Resistant Alloy	
								Hardened Material	
								Others (non-metallic)	
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide	
	inch		°	inch	inch	°	inch	PVD ST4	
	VPGT 2204M FN AM3	Up-sharp edge	35	1/4	1/8	11	.003	●	
	VPGT 2208M FN AM3	Up-sharp edge	35	1/4	1/8	11	.007	●	

●: Stock(Newly added) ●: Stock

TF.. series/Insert

TFX The Front Max



● Diagram shows right-hand tool
 All angles shown are obtained when insert is set in the holder.

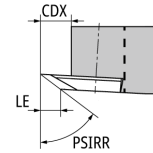
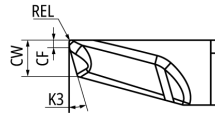
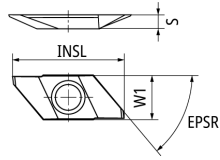
Figure	Item Number	Hand	Wiper	APMX	IC	S	BS	PSIRL	RE	RER	Carbide
				inch	inch	inch	inch	°	inch	inch	PVD
1	TFX3301MR	R	No	.197	3/8	3/16	-	32	.003	-	●
1	TFX3302MR	R	No	.197	3/8	3/16	-	32	.007	-	●
1	TFX3304MR	R	No	.197	3/8	3/16	-	32	.015	-	●
2	TFX3301MRW	R	Straight	.197	3/8	3/16	.020	32	-	.003	●
2	TFX3302MRW	R	Straight	.197	3/8	3/16	.020	32	-	.007	●
2	TFX3304MRW	R	Straight	.197	3/8	3/16	.020	32	-	.015	●

● Stock(Newly added) ● Stock

Back Turning

TBP.. series/Inserts Carbide

TBP-BM



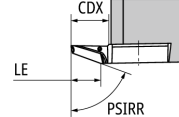
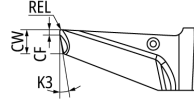
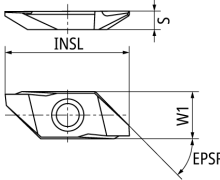
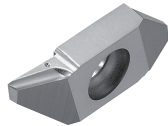
● Diagram shows right-hand tool

Item Number	Hand	Chipbreaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide
			inch	inch	inch	inch	°	inch	°	°	inch	inch	inch	PVD
TBP72FR05-BM	R	Yes	.138	.209	.012	.055	50	.787	16	72	.002	.098	.315	●
TBP72FR10M-BM	R	Yes	.138	.209	.012	.055	50	.787	16	72	.003	.098	.315	●
TBP72FR20M-BM	R	Yes	.138	.209	.012	.055	50	.787	16	72	.007	.098	.315	●

● Stock(Newly added) ● Stock

TBPA.. series/Inserts Carbide

TBPA-BM



● Diagram shows right-hand tool

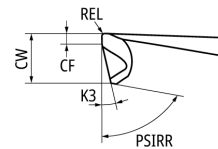
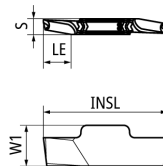
Item Number	Hand	Chipbreaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide
			inch	inch	inch	inch	°	inch	°	°	inch	inch	inch	PVD
TBPA70FR05-BM	R	Yes	.217	.256	.012	.053	45	.984	12	70	.002	.138	.370	●
TBPA70FR10M-BM	R	Yes	.217	.256	.012	.053	45	.984	12	70	.003	.138	.370	●
TBPA70FR20M-BM	R	Yes	.217	.256	.012	.053	45	.984	12	70	.007	.138	.370	●

● Stock(Newly added) ● Stock

BACK DUO

TBDP.. series/Inserts Carbide

TBDP



● Diagram shows right-hand tool

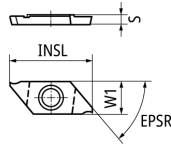
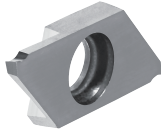
Item Number	Hand	Chipbreaker	LE	CF	CW	INSL	K3	PSIRR	REL	S	W1	Carbide
			inch	inch	inch	inch	°	°	inch	inch	inch	PVD
TBDP22005R	R	Yes	.138	.012	.055	.688	13	80	.002	.087	.236	●
TBDP2201MR	R	Yes	.138	.012	.055	.688	13	80	.003	.087	.236	●
TBDP2202MR	R	Yes	.138	.012	.055	.688	13	80	.007	.087	.236	●

● Stock(Newly added) ● Stock

Cut-off

CTP.. series/Inserts Carbide Right-Hand

CTP-FR



●All angles shown are obtained when insert is set in the holder.

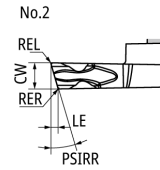
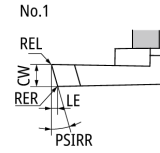
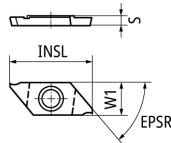
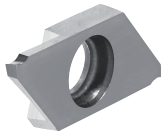


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	inch	°	inch	inch	inch	inch	PVD ST4
2	CTP10FR-CX	R	Yes	.472	.039	50	.787	.013	16	.002	.002	.098	.315	●
1	CTP10FR-TH	R	Yes	.472	.039	50	.787	.013	16	.002	.002	.098	.315	●
2	CTP13FR-CX	R	Yes	.472	.051	50	.787	.016	16	.002	.002	.098	.315	●
2	CTP15FR-CX	R	Yes	.472	.059	50	.787	.018	16	.002	.002	.098	.315	●
1	CTP15FR-TH	R	Yes	.472	.059	50	.787	.018	16	.002	.002	.098	.315	●
1	CTP20FR-TH	R	Yes	.472	.079	50	.787	.024	16	.002	.002	.098	.315	●

● Stock(Newly added) ● Stock

CTP-FRN



●All angles shown are obtained when insert is set in the holder.

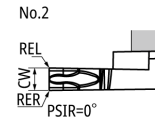
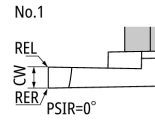
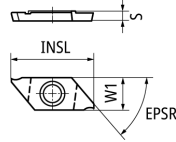
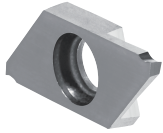


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	°	inch	inch	inch	inch	PVD ST4
2	CTP10FRN-CX	R	Yes	.472	.039	50	.787	0	.002	.002	.098	.315	●
1	CTP10FRN-TH	R	Yes	.472	.039	50	.787	0	.002	.002	.098	.315	●
2	CTP13FRN02-CX	R	Yes	.472	.051	50	.787	0	.008	.008	.098	.315	●
2	CTP13FRN-CX	R	Yes	.472	.051	50	.787	0	.002	.002	.098	.315	●
2	CTP15FRN02-CX	R	Yes	.472	.059	50	.787	0	.008	.008	.098	.315	●
2	CTP15FRN-CX	R	Yes	.472	.059	50	.787	0	.002	.002	.098	.315	●
1	CTP15FRN-TH	R	Yes	.472	.059	50	.787	0	.002	.002	.098	.315	●
1	CTP20FRN-TH	R	Yes	.472	.079	50	.787	0	.002	.002	.098	.315	●

● Stock(Newly added) ● Stock

CTP.. series/Inserts Carbide Left-Hand

CTP-FLK



●All angles shown are obtained when insert is set in the holder.

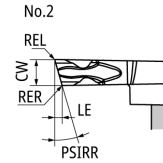
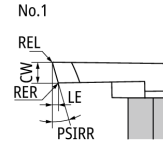
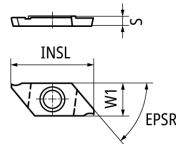
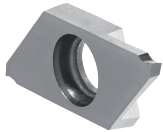


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	inch	°	inch	inch	inch	inch	PVD
2	CTP10FLK-CX	L	Yes	.433	.039	50	.787	.013	16	.002	.002	.098	.315	●
1	CTP10FLK-TH	L	Yes	.433	.039	50	.787	.013	16	.002	.002	.098	.315	●
2	CTP13FLK-CX	L	Yes	.433	.051	50	.787	.016	16	.002	.002	.098	.315	●
2	CTP15FLK-CX	L	Yes	.433	.059	50	.787	.018	16	.002	.002	.098	.315	●
1	CTP15FLK-TH	L	Yes	.433	.059	50	.787	.018	16	.002	.002	.098	.315	●
1	CTP20FLK-TH	L	Yes	.433	.079	50	.787	.024	16	.002	.002	.098	.315	●

● Stock(Newly added) ● Stock

CTP-FLN



●All angles shown are obtained when insert is set in the holder.

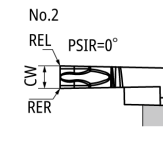
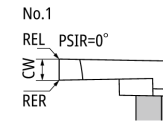
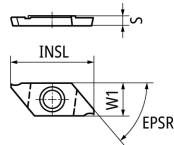
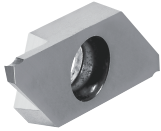


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	°	inch	inch	inch	inch	PVD
2	CTP10FLN-CX	L	Yes	.472	.039	50	.787	0	.002	.002	.098	.315	●
1	CTP10FLN-TH	L	Yes	.472	.039	50	.787	0	.002	.002	.098	.315	●
2	CTP13FLN02-CX	L	Yes	.472	.051	50	.787	0	.008	.008	.098	.315	●
2	CTP13FLN-CX	L	Yes	.472	.051	50	.787	0	.002	.002	.098	.315	●
2	CTP15FLN02-CX	L	Yes	.472	.059	50	.787	0	.008	.008	.098	.315	●
2	CTP15FLN-CX	L	Yes	.472	.059	50	.787	0	.002	.002	.098	.315	●
1	CTP15FLN-TH	L	Yes	.472	.059	50	.787	0	.002	.002	.098	.315	●
1	CTP20FLN-TH	L	Yes	.472	.079	50	.787	0	.002	.002	.098	.315	●

● Stock(Newly added) ● Stock

CTPA.. series/Inserts Carbide Right-Hand

CTPA-FR



●All angles shown are obtained when insert is set in the holder.

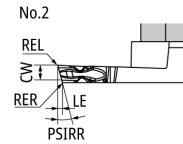
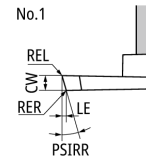
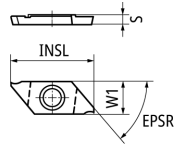


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	inch	°	inch	inch	inch	inch	PVD
2	CTPA15FR-CX	R	Yes	.630	.059	45	.984	.018	16	.002	.002	.138	.370	●
1	CTPA15FR-TH	R	Yes	.630	.059	45	.984	.018	16	.002	.002	.138	.370	●
1	CTPA20FR-TH	R	Yes	.630	.079	45	.984	.024	16	.002	.002	.138	.370	●

● Stock(Newly added) ● Stock

CTPA-FRN



●All angles shown are obtained when insert is set in the holder.

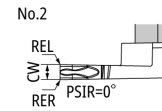
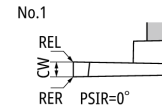
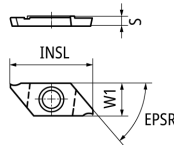
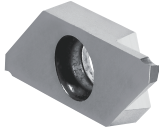


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide
				inch	inch	°	inch	°	inch	inch	inch	inch	PVD
2	CTPA15FRN-CX	R	Yes	.630	.059	45	.984	0	.002	.002	.138	.370	●
1	CTPA15FRN-TH	R	Yes	.630	.059	45	.984	0	.002	.002	.138	.370	●
1	CTPA20FRN-TH	R	Yes	.630	.079	45	.984	0	.002	.002	.138	.370	●

● Stock(Newly added) ● Stock

CTPA.. series/Inserts Carbide Left-Hand

CTPA-FLK



●All angles shown are obtained when insert is set in the holder.

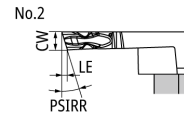
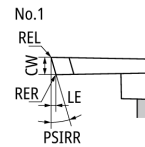
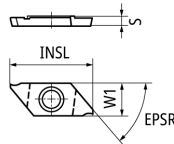


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide
														PVD
				inch	inch	°	inch	inch	°	inch	inch	inch	inch	ST4
2	CTPA15FLK-CX	L	Yes	.571	.059	45	.984	.018	16	.002	.002	.138	.370	●
1	CTPA15FLK-TH	L	Yes	.571	.059	45	.984	.018	16	.002	.002	.138	.370	●
1	CTPA20FLK-TH	L	Yes	.571	.079	45	.984	.024	16	.002	.002	.138	.370	●

● Stock(Newly added) ● Stock

CTPA-FLN



●All angles shown are obtained when insert is set in the holder.

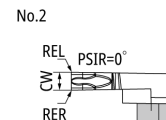
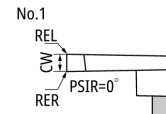
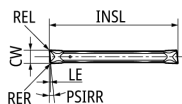
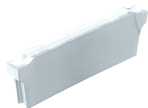


Figure	Item Number	Hand	Chipbreaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide
													PVD
				inch	inch	°	inch	°	inch	inch	inch	inch	ST4
2	CTPA15FLN-CX	L	Yes	.630	.059	45	.984	0	.002	.002	.138	.370	●
1	CTPA15FLN-TH	L	Yes	.630	.059	45	.984	0	.002	.002	.138	.370	●
1	CTPA20FLN-TH	L	Yes	.630	.079	45	.984	0	.002	.002	.138	.370	●

● Stock(Newly added) ● Stock

CTDP.. series/Inserts Carbide

CTDP20/25 CUT DUO



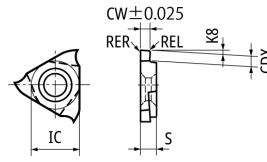
Item Number	Hand	Chipbreaker	CW	INSL	PSIRR	REL	RER	Carbide
								PVD
			inch	inch	°	inch	inch	ST4
CTDP20N	N	Yes	.079	.752	-	.002	.002	●
CTDP20N02	N	Yes	.079	.752	-	.008	.008	●
CTDP25N02	N	Yes	.098	.835	-	.008	.008	●
CTDP20R6	R	Yes	.079	.752	6	.002	.002	●
CTDP25R6	R	Yes	.098	.835	6	.002	.002	●
CTDP20R15	R	Yes	.079	.752	15	.002	.002	●

● Stock(Newly added) ● Stock

OD Grooving

GTMH(X)32.. series/Inserts Carbide

■ GTMH32-GX Side Turning / 3D mold chipbreaker



● Diagram shows right-hand tool

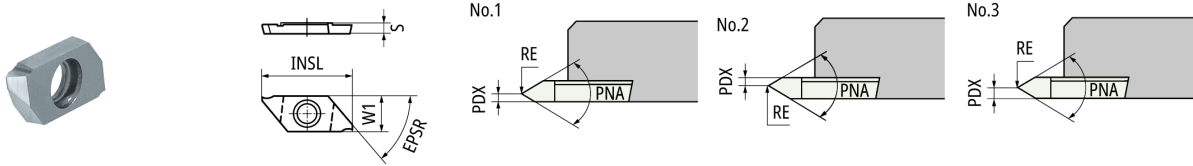
Item Number	Hand	Chipbreaker	APMX	CDX	CW	EPSR	GAN	IC	K8	REL	RER	S	Carbide
			inch	inch	inch	°	°	inch	°	inch	inch	inch	PVD ST4
GTMH32033RGX	R	Yes	.010	.024	.013	60	17	3/8	2	.002	.002	1/8	●
GTMH32043RGX	R	Yes	.035	.047	.017	60	17	3/8	2	.002	.002	1/8	●
GTMH32050RGX	R	Yes	.035	.047	.020	60	17	3/8	2	.002	.002	1/8	●
GTMH32053RGX	R	Yes	.035	.047	.021	60	17	3/8	2	.002	.002	1/8	●
GTMH32075RGX	R	Yes	.063	.079	.030	60	17	3/8	2	.002	.002	1/8	●
GTMH32095RGX	R	Yes	.063	.079	.037	60	17	3/8	2	.002	.002	1/8	●
GTMH32100RGX	R	Yes	.063	.079	.039	60	17	3/8	2	.002	.002	1/8	●
GTMH32100RGX01	R	Yes	.063	.079	.039	60	17	3/8	2	.004	.004	1/8	●
GTMH32150RGX	R	Yes	.106	.118	.059	60	17	3/8	2	.002	.002	1/8	●
GTMH32150RGX01	R	Yes	.106	.118	.059	60	17	3/8	2	.004	.004	1/8	●
GTMH32150RGX02	R	Yes	.106	.118	.059	60	17	3/8	2	.008	.008	1/8	●
GTMH32200RGX	R	Yes	.106	.118	.079	60	17	3/8	2	.002	.002	1/8	●
GTMH32200RGX01	R	Yes	.106	.118	.079	60	17	3/8	2	.004	.004	1/8	●
GTMH32200RGX02	R	Yes	.106	.118	.079	60	17	3/8	2	.008	.008	1/8	●
GTMH32300RGX	R	Yes	.106	.118	.118	60	17	3/8	2	.002	.002	1/8	●
GTMH32300RGX02	R	Yes	.106	.118	.118	60	17	3/8	2	.008	.008	1/8	●

● Stock(Newly added) ● Stock

External Thread

TTP.. series/Inserts Carbide

TTP-R

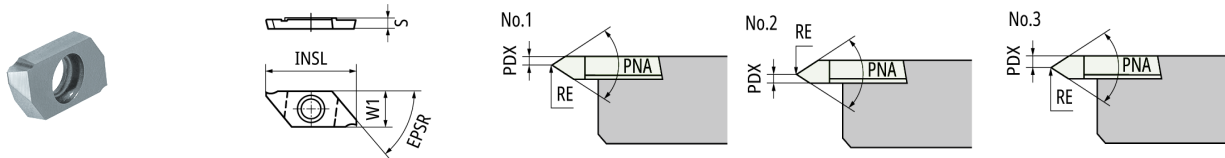


● Diagram shows right-hand tool

Figure	Item Number	Hand	Chipbreaker	Pitch	EPSR	INSL	PDX	PNA	RE	S	W1	Carbide
				TPI	°	inch	inch	°	inch	inch	inch	PVD
1	TTP60FR4A	R	Yes	127-34	50	.783	.016	60	.002MAX Flat	.098	.315	●
1	TTP60FR8A	R	Yes	63-21	50	.783	.031	60	(R.002)	.098	.315	●
2	TTP60FR4B	R	Yes	127-34	50	.783	.016	60	.002MAX Flat	.098	.315	●
2	TTP60FR8B	R	Yes	63-21	50	.783	.031	60	(R.002)	.098	.315	●
3	TTP60FR-N	R	Yes	25-17	50	.783	.049	60	(R.004)	.098	.315	●
3	TTP60FR-N02	R	Yes	16-13	50	.783	.049	60	(R.008)	.098	.315	●

● Stock(Newly added) ● Stock

TTP-L



● Diagram shows left-hand tool

Figure	Item Number	Hand	Chipbreaker	Pitch	EPSR	INSL	PDX	PNA	RE	S	W1	Carbide
				TPI	°	inch	inch	°	inch	inch	inch	PVD
1	TTP60FL4A	L	Yes	127-34	50	.783	.016	60	.002MAX Flat	.098	.315	●
1	TTP60FL8A	L	Yes	63-21	50	.783	.031	60	(R.002)	.098	.315	●
2	TTP60FL4B	L	Yes	127-34	50	.783	.016	60	.002MAX Flat	.098	.315	●
2	TTP60FL8B	L	Yes	63-21	50	.783	.031	60	(R.002)	.098	.315	●
3	TTP60FL-N	L	Yes	25-17	50	.783	.049	60	(R.004)	.098	.315	●
3	TTP60FL-N02	L	Yes	16-13	50	.783	.049	60	(R.008)	.098	.315	●

● Stock(Newly added) ● Stock

ID Tooling

Inserts Carbide

CC..

●: 1st Choice ○: 2nd choice

				Steel		<input type="radio"/>		
				Stainless Steel		<input checked="" type="radio"/>		
				Cast Iron				
				Non-Ferrous Material				
				Heat Resistant Alloy				
				Hardened Material				
				Others (non-metallic)				
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	CCGT 21.504 FR F1	Up-sharp edge	80	1/4	3/32	7	.004	●
	CCGT 21.508 FR F1	Up-sharp edge	80	1/4	3/32	7	.008	●
	CCGT 21.51 FR F1	Up-sharp edge	80	1/4	3/32	7	.016	●
	CCGT 32.508 FR F1	Up-sharp edge	80	3/8	3/32	7	.008	●
	CCGT 32.51 FR F1	Up-sharp edge	80	3/8	3/32	7	.016	●

●: Stock(Newly added) ●: Stock

CP..

●: 1st Choice ○: 2nd choice

				Steel		<input type="radio"/>		
				Stainless Steel		<input checked="" type="radio"/>		
				Cast Iron				
				Non-Ferrous Material				
				Heat Resistant Alloy				
				Hardened Material				
				Others (non-metallic)				
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	CPGP 6204 FR F1	Up-sharp edge	80	3/16	1/16	11	.004	●
	CPGP 6208 FR F1	Up-sharp edge	80	3/16	1/16	11	.008	●
	CPGP 621 FR F1	Up-sharp edge	80	3/16	1/16	11	.016	●
	CPGP 21.508 FR F1	Up-sharp edge	80	1/4	3/32	11	.008	●
	CPGP 21.51 FR F1	Up-sharp edge	80	1/4	3/32	11	.016	●

●: Stock(Newly added) ●: Stock

ER..

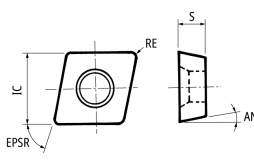
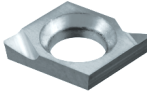
●: 1st Choice ○: 2nd choice

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				Stainless Steel		<input checked="" type="radio"/>		
				Cast Iron				
				Non-Ferrous Material				
				Heat Resistant Alloy				
				Hardened Material				
				Others (non-metallic)				
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	ERGP 5204 FR F1	Up-sharp edge	75	5/32	1/16	9	.004	●
	ERGP 5208 FR F1	Up-sharp edge	75	5/32	1/16	9	.008	●
	ERGP 521 FR F1	Up-sharp edge	75	5/32	1/16	9	.016	●

●: Stock(Newly added) ●: Stock

MBL

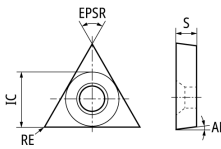
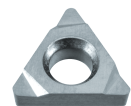
●: 1st Choice ○: 2nd choice

			Steel		○			
			Stainless Steel		●			
			Cast Iron					
			Non-Ferrous Material					
			Heat Resistant Alloy					
			Hardened Material					
Others (non-metallic)								
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	MBL 005 FR F1	Up-sharp edge	75	.142	.039	9	.002	●
	MBL 015 FR F1	Up-sharp edge	75	.142	.039	9	.006	●

● Stock(Newly added) ● Stock

TC..

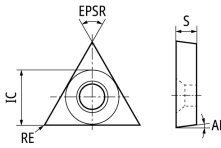
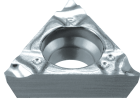
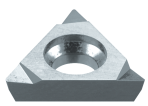
●: 1st Choice ○: 2nd choice

			Steel		○			
			Stainless Steel		●			
			Cast Iron					
			Non-Ferrous Material					
			Heat Resistant Alloy					
			Hardened Material					
Others (non-metallic)								
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	TCGP 5204 FR F05	Up-sharp edge	60	-	-	7	-	●
	TCGP 5208 FR F05	Up-sharp edge	60	5/32	1/16	7	.008	●
	TCGP 521 FR F05	Up-sharp edge	60	5/32	1/16	7	.016	●

● Stock(Newly added) ● Stock

TP..

●: 1st Choice ○: 2nd choice

			Steel		○			
			Stainless Steel		●			
			Cast Iron					
			Non-Ferrous Material					
			Heat Resistant Alloy					
			Hardened Material					
Others (non-metallic)								
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	Carbide
	inch		°	inch	inch	°	inch	PVD ST4
	TPGP 7308 R FG	Up-sharp edge	60	7/32	3/32	11	.008	●
	TPGP 731 R FG	Up-sharp edge	60	7/32	3/32	11	.016	●
	TPGH 2208 R FG	Up-sharp edge	60	1/4	1/8	11	.008	●
	TPGH 221 R FG	Up-sharp edge	60	1/4	1/8	11	.016	●
	TPGP 7304 FR F1	Up-sharp edge	60	7/32	3/32	11	.004	●
	TPGP 7308 FR F1	Up-sharp edge	60	7/32	3/32	11	.008	●
	TPGP 731 FR F1	Up-sharp edge	60	7/32	3/32	11	.016	●
	TPGP 732 FR F1	Up-sharp edge	60	7/32	3/32	11	.031	●
	TPGH 2208 FR F1	Up-sharp edge	60	1/4	1/8	11	.008	●
	TPGH 221 FR F1	Up-sharp edge	60	1/4	1/8	11	.016	●
	TPGH 222 FR F1	Up-sharp edge	60	1/4	1/8	11	.031	●

● Stock(Newly added) ● Stock

Front turning

Mechanical equipment

Work material	SUS316L	
Cutting Speed (SFM)	200	
Feed (IPR)	.0012"	
D.O.C.(inch)	.0197"	
Coolant	WET	
YL chipbreaker ST4 CCGT09T304MYL		4,000 pcs/ Corner
Mold chipbreaker from Competitor (PVD coated carbide)		2,000 pcs/ Corner

ST4 achieved double the tool life compared to competitor.

Cut-off

Sleeve

Work material	SUS304	
Cutting Speed (SFM)	330	
Feed (IPR)	.0008"	
Coolant	WET	
CX chipbreaker ST4 CTP15FLN-CX		
Mold chipbreaker from Competitor (PVD coated carbide)		2,000 pcs/ Corner

CX chipbreaker was able to perform stable machining without chip control issues. By combining it with the specialized ST4 material for stainless steel processing, we achieved a tool life extension of over 1.5 times compared to competitor.

Back turning

Stud parts

Work material	SUS430F	
Cutting Speed (SFM)	167	
Feed (IPR)	.0020"	
D.O.C.(inch)	.0787"	
Coolant	WET	
TBP-BM chipbreaker ST4 TBP72FR10M-BM		①1PASS machining *No grooving and roughing / finishing required!
Grinded chipbreaker from competitor (PVD coated carbide)		①Rough : Grooving ②Back turning

Conventional tools machine in 2 passes to prevent roughness of the back surface of the flange caused by chips. By using the BM chipbreaker a superior surface finish was achieved on the back surface in 1PASS machining, and the cycle time was also drastically reduced.

Grooving

Automotive parts

Work material	SUS430	
Cutting Speed (SFM)	267	
Feed (IPR)	.0012"	
D.O.C.(inch)	.0394"	
Coolant	WET	
GX chipbreaker ST4 GTMH32200RGX		3,500 pcs/ Corner
Grinded chipbreaker from competitor (PVD coated carbide)		2,500 pcs/ Corner

Using the GX chipbreaker, we have eliminated chip packing at the bottom of the groove, leading to a reduction in the inspection process.



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