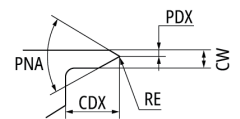
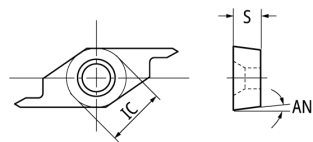


CSV T.. series/Inserts Carbide

CSV T-A

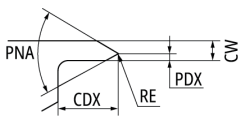
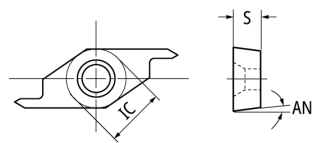


● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.



Item Number	Hand	Chip-breaker	Pitch	AN	CDX	CW	EPSR	IC	PDX	PNA	RE	S	Carbide				
													PVD		Uncoated		
													mm	°	mm	mm	°
CSV T11FRP60-035A		R	No	0.2-0.5	7	3	1	35	6.35	0.35	60	0.03MAX	2.38				
CSV T11FLP60-035A		L	No	0.2-0.5	7	3	1	35	6.35	0.35	60	0.03MAX	2.38				

CSV T-B



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

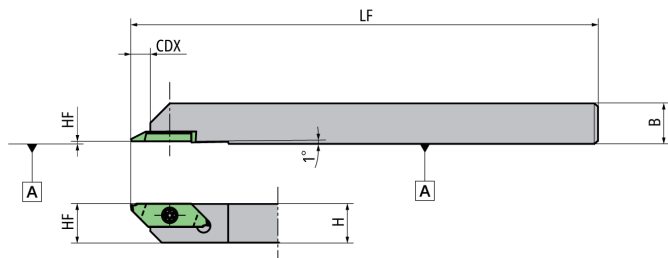


Item Number	Hand	Chip-breaker	Pitch	AN	CDX	CW	EPSR	IC	PDX	PNA	RE	S	Carbide				
													PVD		Uncoated		
													mm	°	mm	mm	°
CSV T11FRP60-035B		R	No	0.2-0.5	7	3	1	35	6.35	0.35	60	0.03MAX	2.38				
CSV T11FLP60-035B		L	No	0.2-0.5	7	3	1	35	6.35	0.35	60	0.03MAX	2.38				

External thread

CTPS.. series/Toolholder

CTPS



● Diagram shows right-hand tool



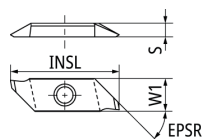
EDP	Item Number	Stock	Hand	B mm	CDX mm	H mm	HF mm	K1 °	LF mm	WF2 mm	Insert Gage	
5346572	CTPSR10	●	R	10	5	10	10	1	120	0	TBPS../CTPS..	GTPS../TTPS..
5397187	CTPSR12	●	R	12	5	12	12	1	120	0	TBPS../CTPS..	GTPS../TTPS..

Spare Parts

Item Number	Clamp screw	Wrench (for Clamp screw)
CTPSR10	LRIS-2.5*7	CLR-15S
CTPSR12	LRIS-2.5*7	CLR-15S

TTPS.. series/Inserts Carbide

TTPS



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

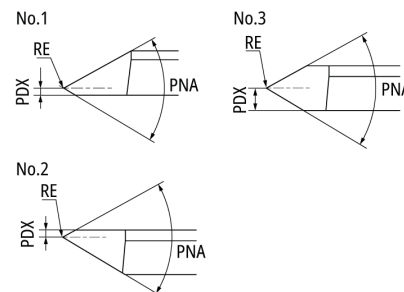
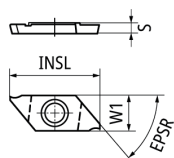


Figure	Item Number	Hand	Chip-breaker	Pitch mm	EPSR °	INSL mm	PDX mm	PNA °	RE mm	S mm	W1 mm	Carbide			
												PVD QM3	VM1	ZM3	Uncoated KM1
1	TTPS60FR4A	R	Yes	0.2-0.75	45	20	0.4	60	0.05MAX Flat	2.5	6	●	●		
1	TTPS60FR8A	R	Yes	0.5-1.25	45	20	0.8	60	0.05	2.5	6	●	●		
2	TTPS60FR4B	R	Yes	0.2-0.75	45	20	0.4	60	0.05MAX Flat	2.5	6	●	●		
2	TTPS60FR8B	R	Yes	0.5-1.25	45	20	0.8	60	0.05	2.5	6	●	●		
3	TTPS60FR-N	R	Yes	1-1.5	45	20	1.25	60	0.1	2.5	6	●	●		

TTP.. series/Inserts Carbide

TTP-R



● Diagram shows right-hand tool

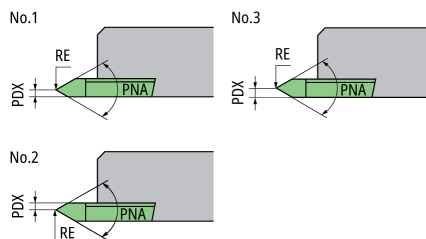
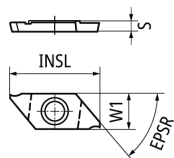


Figure	Item Number	Hand	Chip-breaker	Pitch mm	TPI inch	PDX mm	PNA °	RE mm	Carbide			
									QM3	VM1	ZM3	Uncoated KM1
1	TTP60FR2A	R	Yes	0.2-0.35	-	0.2	60	0.05MAX Flat			●	
1	TTP60FR4A	R	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat	●		●	
1	TTP60FR4AS	M	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat				●
1	TTP60FR8A	R	Yes	0.4-1.25	-	0.8	60	(R.002)	●		●	
1	TTP60FR8AS	M	Yes	0.4-1.25	-	0.8	60	(R.002)				●
1	TTP55FR8A	R	Yes	-	48	0.8	55	(R.002)			●	
2	TTP60FR2B	R	Yes	0.2-0.35	-	0.2	60	0.05MAX Flat			●	
2	TTP60FR4B	R	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat	●		●	
2	TTP60FR4BS	M	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat				●
2	TTP60FR8B	R	Yes	0.4-1.25	-	0.8	60	(R.002)	●		●	
2	TTP60FR8BS	M	Yes	0.4-1.25	-	0.8	60	(R.002)				●
2	TTP55FR8B	R	Yes	-	48	0.8	55	(R.002)			●	
3	TTP60FR-N	R	Yes	1-1.5	-	1.25	60	(R.004)	●		●	
3	TTP60FR-N02	R	Yes	1.5-2	-	1.25	60	(R.008)	●		●	
3	TTP60FR-NS	M	Yes	1-1.5	-	1.25	60	(R.004)				●

TTP-L



● Diagram shows left-hand tool

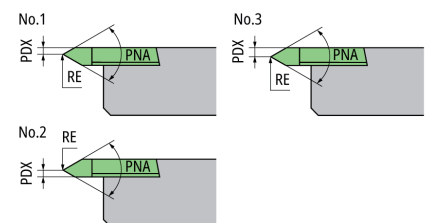
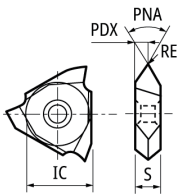


Figure	Item Number	Hand	Chip-breaker	Pitch mm	TPI inch	PDX mm	PNA °	RE mm	Carbide			
									QM3	VM1	ZM3	Uncoated KM1
1	TTP60FL2A	L	Yes	0.2-0.35	-	0.2	60	0.05MAX Flat			●	
1	TTP60FL4A	L	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat	●		●	
1	TTP60FL4AS	M	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat				●
1	TTP60FL8A	L	Yes	0.4-1.25	-	0.8	60	(R.002)	●		●	
1	TTP60FL8AS	M	Yes	0.4-1.25	-	0.8	60	(R.002)				●
1	TTP55FL8A	L	Yes	-	48	0.8	55	(R.002)			●	
2	TTP60FL2B	L	Yes	0.2-0.35	-	0.2	60	0.05MAX Flat			●	
2	TTP60FL4B	L	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat	●		●	
2	TTP60FL4BS	M	Yes	0.2-0.75	-	0.4	60	0.05MAX Flat				●
2	TTP60FL8B	L	Yes	0.4-1.25	-	0.8	60	(R.002)	●		●	
2	TTP60FL8BS	M	Yes	0.4-1.25	-	0.8	60	(R.002)				●
2	TTP55FL8B	L	Yes	-	48	0.8	55	(R.002)			●	
3	TTP60FL-N	L	Yes	1-1.5	-	1.25	60	(R.004)	●		●	
3	TTP60FL-N02	L	Yes	1.5-2	-	1.25	60	(R.008)	●		●	
3	TTP60FL-NS	M	Yes	1-1.5	-	1.25	60	(R.004)				●

TTMH.. series/Inserts Carbide

TTMH



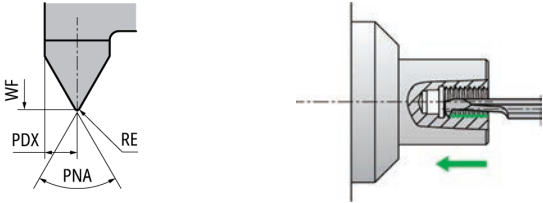
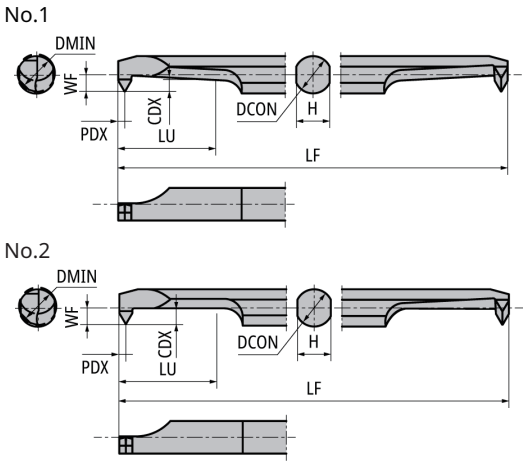
● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	Pitch mm	GAN °	IC mm	PDX mm	PNA °	RE mm	S mm	Carbide			
										QM3	PVD VM1	ZM3	Uncoated KM1
TTMH3260R010	R	Yes	0.8-3	6	9.525	1.59	60	0.1	3.18			●	
TTMH3260R015	R	Yes	1-3	6	9.525	1.59	60	0.15	3.18			●	
TTMH3260R020	R	Yes	1.5-3	6	9.525	1.59	60	0.2	3.18			●	

STICK DUO

SBT.. series/Insert bar Carbide

SBT

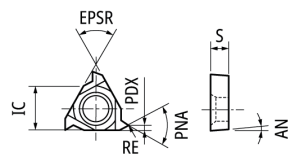


- Diagram shows right-hand tool
- No.1: Eccentric tapered shape

Figure	Item Number	Hand	Chip-breaker	DMIN	Pitch	CDX	DCON	H	LF	LU	PDX	PNA	RE	WF	Carbide			
				mm	mm	mm	mm	mm	mm	mm	mm	°	mm	mm	QM3	VM1	ZM3	Uncoat KM1
1	SBT025M3R	R	No	2.5	0.5	0.6	2.5	2.3	50	5.4	0.4	60	0.05MAX Flat	1.1			●	
1	SBT030M4R	R	No	3	0.5-0.8	0.8	3	2.7	50	7.5	0.5	60	0.05MAX Flat	1.3			●	
1	SBT030M4RB	R	Yes	3	0.5-0.8	0.8	3	2.7	50	7.5	0.5	60	0.05MAX Flat	1.3			●	
1	SBT035M5RB	R	Yes	3.5	0.5-1	1	3.5	3.2	60	8.5	0.55	60	0.05MAX Flat	1.55			●	
1	SBT040M6RB	R	Yes	4	0.75-1.25	1.2	4	3.6	60	10.5	0.7	60	0.05	1.8			●	
2	SBT050M8RB	R	Yes	5	0.75-1.5	1.5	5	4.5	70	15.8	0.8	60	0.05	2.3			●	
2	SBT060M10RB	R	Yes	6	0.75-1.75	1.8	6	5.4	80	18.4	0.95	60	0.05	2.8			●	

TMN.. series/Inserts Carbide

TMN



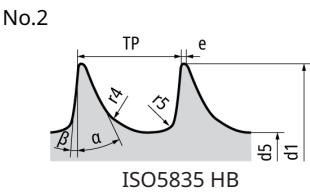
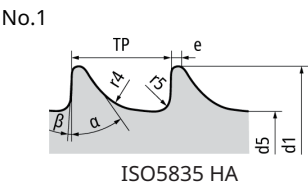
● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	Pitch	AN	EPSR	IC	PDX	PNA	RE	S	Carbide			
												PVD		
			mm	°	°	mm	mm	°	mm	mm	QM3	VM1	ZM3	Uncoated KM1
TMN06FR03	R	Yes	0.4-0.75	7	60	3.97	0.5	60	0.03	1.59				●
TMN08FR03	R	Yes	0.4-0.75	7	60	4.76	0.5	60	0.03	2.38				●
TMN09FR03	R	Yes	0.4-0.75	7	60	5.56	0.5	60	0.03	2.38				●

Standard Thread Whirling Inserts (two-sided) for Medical ISO Style Threads

TWC.. series/Inserts Carbide

ISO5835



● Must use Thread whirling cutters with 12mm φDm dimension

Figure	Item Number	Hand	Chip-breaker	ISO Standard	Pitch	d1	d5	e	r4	r5	α	β	Carbide			
													PVD	Uncoated		
					mm	mm	mm	mm	mm	mm	mm	mm	QM3	VM1	ZM3	KM1
1	TW5835-HA1.5-D12	R	Yes	HA1.5	0.5	1.5	1.1	0.1	0.3	0.1	35	3			●	
1	TW5835-HA2.0-D12	R	Yes	HA2.0	0.6	2	1.3	0.1	0.4	0.1	35	3			●	
1	TW5835-HA2.7-D12	R	Yes	HA2.7	1	2.7	1.9	0.1	0.6	0.2	35	3			●	
1	TW5835-HA3.5-D12	R	Yes	HA3.5	1.25	3.5	2.4	0.1	0.8	0.2	35	3			●	
1	TW5835-HA4.0-D12	R	Yes	HA4.0	1.5	4	2.9	0.1	0.8	0.2	35	3			●	
1	TW5835-HA4.5-D12	R	Yes	HA4.5	1.75	4.5	3	0.1	1	0.3	35	3			●	
1	TW5835-HA5.0-D12	R	Yes	HA5.0	1.75	5	3.5	0.1	1	0.3	35	3			●	
2	TW5835-HB4.0-D12	R	Yes	HB4.0	1.75	4	1.9	0.1	0.8	0.3	25	5			●	
2	TW5835-HB6.5-D12	R	Yes	HB6.5	2.75	6.5	3	0.2	1.2	0.8	25	5			●	