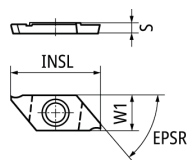


CTPA.. series/Inserts Carbide Right-Hand

CTPA-FR



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

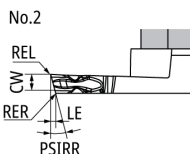
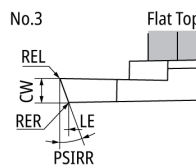
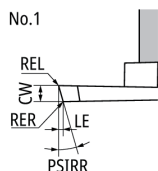
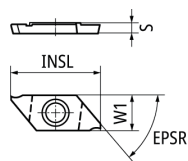


Figure	Item Number	Hand	Chip-breaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide										PCD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1	CTPA07FR	R	Yes	8	0.7	45	25	0.23	16	0.05	0.05	3.5	9.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

CTPA-FRN



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

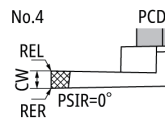
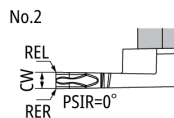
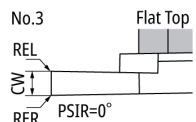
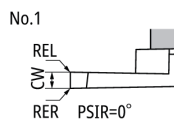
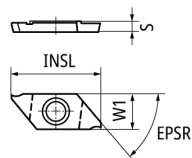


Figure	Item Number	Hand	Chip-breaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide										PCD	
													PVD											
													DM4	DT4	QM3	ST4	TM4	VM1	ZM3	KM1	PD1			
1	CTPA07FRN	R	Yes	8	0.7	45	25	0	0.05	0.05	3.5	9.4												
1	CTPA10FRN	R	Yes	–	1	45	25	0	–	–	3.5	9.4												
1	CTPA15FRN	R	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4			●	●				●	●			
2	CTPA15FRN-CX	R	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4	●				●							
1	CTPA15FRN-TH	R	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4					●							
1	CTPA20FRN	R	Yes	16	2	45	25	0	0.05	0.05	3.5	9.4			●	●				●	●			
4	CTPA20FRN-P	R	Yes	16	2	45	25	0	0.1	0.1	3.5	9.4												●
1	CTPA20FRN-TH	R	Yes	16	2	45	25	0	0.05	0.05	3.5	9.4					●							
3	CTPA20FRNV	 R	No	16	2	45	25	0	0	0	3.5	9.4											●	
3	CTPA20FRS	R	No	16	2	45	25	0	0.05	0.05	3.5	9.4										●		
1	CTPA30FRN	R	Yes	16	3	45	25	0	0.05	0.05	3.5	9.4				●								

CTPA.. series/Inserts Carbide Left-Hand

CTPA-FLK



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

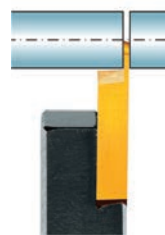
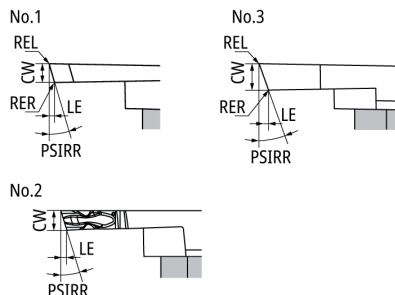
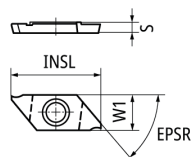
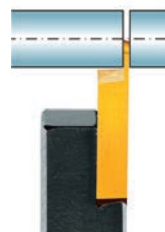
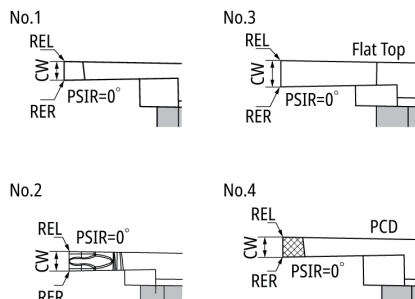


Figure	Item Number	Hand	Chip-breaker	CUTDIA	CW	EPSR	INSL	LE	PSIRR	REL	RER	S	W1	Carbide PVD								PCD	
														DM4	DT4	QM3	ST4	TM4	VM1	ZM3	KM1	PD1	
1	CTPA07FLK	L	Yes	6.5	0.7	45	25	0.23	16	0.05	0.05	3.5	9.4										
1	CTPA10FLK	L	Yes	–	1	45	25	–	–	–	–	3.5	9.4										
1	CTPA10FLKD	L	Yes	16	1	45	25	0.32	16	0.05	0.05	3.5	9.4										
1	CTPA15FLK	L	Yes	14.5	1.5	45	25	0.46	16	0.05	0.05	3.5	9.4										
2	CTPA15FLK-CX	L	Yes	14.5	1.5	45	25	0.46	16	0.05	0.05	3.5	9.4										
1	CTPA15FLK-TH	L	Yes	14.5	1.5	45	25	0.46	16	0.05	0.05	3.5	9.4										
1	CTPA20FLK	L	Yes	14.5	2	45	25	0.61	16	0.05	0.05	3.5	9.4										
1	CTPA20FLK-TH	L	Yes	14.5	2	45	25	0.61	16	0.05	0.05	3.5	9.4										
3	CTPA20FLKV 	L	No	14.5	2	45	25	0.77	20	0	0	3.5	9.4										

CTPA-FLN



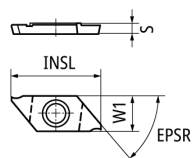
●All angles shown are obtained when insert is set in the holder.



Cut-off
S

Figure	Item Number	Hand	Chip-breaker	CUTDIA	CW	EPSR	INSL	PSIR	REL	RER	S	W1	Carbide PVD								PCD	
				mm	mm	°	mm	°	mm	mm	mm	mm	mm	mm	DM4	DT4	QM3	ST4	TM4	VM1	ZM3	KM1
1	CTPA10FLN	L	Yes	-	1	45	25	0	-	-	3.5	9.4										
1	CTPA10FLND	L	Yes	16	1	45	25	0	0.05	0.05	3.5	9.4										
1	CTPA15FLN	L	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4										
2	CTPA15FLN-CX	L	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4										
1	CTPA15FLN-TH	L	Yes	16	1.5	45	25	0	0.05	0.05	3.5	9.4										
1	CTPA20FLN	L	Yes	16	2	45	25	0	0.05	0.05	3.5	9.4										
4	CTPA20FLN-P	L	Yes	16	2	45	25	0	0.1	0.1	3.5	9.4										
1	CTPA20FLN-TH	L	Yes	16	2	45	25	0	0.05	0.05	3.5	9.4										
3	CTPA20FLNV	L	No	16	2	45	25	0	0	0	3.5	9.4										
3	CTPA20FLS	L	No	16	2	45	25	0	0.05	0.05	3.5	9.4										
1	CTPA30FLN	L	Yes	16	3	45	25	0	0.05	0.05	3.5	9.4										

CTPA-FL



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

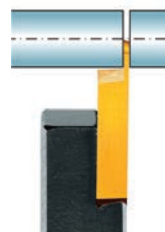
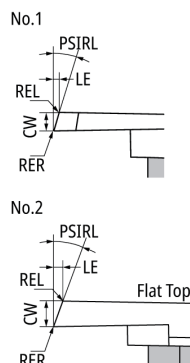


Figure	Item Number	Hand	Chip-breaker	CUTDIA	CW	EPSR	INSL	LE	PSIRL	REL	RER	S	W1	Carbide PVD								PCD		
														DM4	DT4	QM3	ST4	TM4	VM1	ZM3	KM1		PD1	
1	CTPA07FL	L	Yes	8	0.7	45	25	0.23	16	0.05	0.05	3.5	9.4											
1	CTPA10FL	L	Yes	12	1	45	25	0.32	16	0.05	0.05	3.5	9.4											
1	CTPA15FL	L	Yes	16	1.5	45	25	0.46	16	0.05	0.05	3.5	9.4											
1	CTPA20FL	L	Yes	16	2	45	25	0.61	16	0.05	0.05	3.5	9.4											
2	CTPA20FL V		No	16	2	45	25	0.77	20	0	0	3.5	9.4											