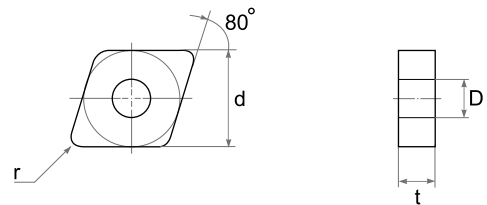
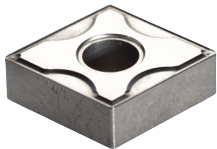
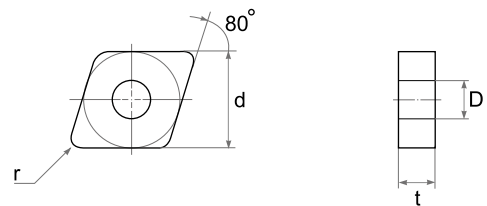


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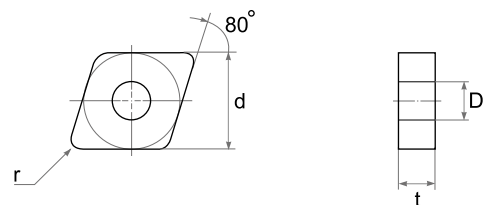
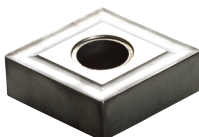
CNMG



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
CNMG 120404SF	CNMG 431SF	12.70	4.76	0.4	5.16	●	●	●					
CNMG 120408SF	CNMG 432SF	12.70	4.76	0.8	5.16	●	●	●				●	
CNMG 120412SF	CNMG 433SF	12.70	4.76	1.2	5.16								

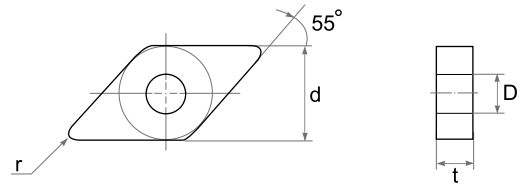
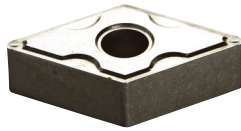


Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
CNMG 120404SY	CNMG 431SY	12.70	4.76	0.4	5.16	●	●	●	●			●	
CNMG 120408SY	CNMG 432SY	12.70	4.76	0.8	5.16		●	●	●			●	
CNMG 120412SY	CNMG 433SY	12.70	4.76	1.2	5.16		●	●				●	



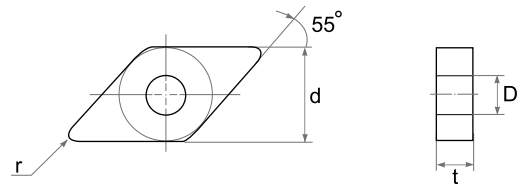
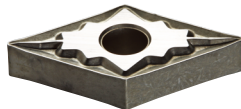
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
CNMG 120404SG	CNMG 431SG	12.70	4.76	0.4	5.16	●	●	●					
CNMG 120408SG	CNMG 432SG	12.70	4.76	0.8	5.16	●	●	●					
CNMG 120412SG	CNMG 433SG	12.70	4.76	1.2	5.16			●			●		

DNMG

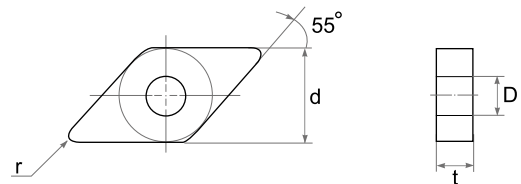
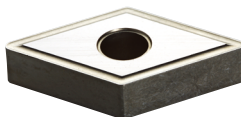


Turning & Milling

Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
DNMG 150404SF	DNMG 431SF	12.70	4.76	0.4	5.16		●	●				●	
DNMG 150408SF	DNMG 432SF	12.70	4.76	0.8	5.16	●	●	●				●	
DNMG 150412SF	DNMG 433SF	12.70	4.76	1.2	5.16		●	●					●
DNMG 150604SF	DNMG 441SF	12.70	6.35	0.4	5.16		●	●					
DNMG 150608SF	DNMG 442SF	12.70	6.35	0.8	5.16		●	●					
DNMG 150612SF	DNMG 443SF	12.70	6.35	1.2	5.16		●						



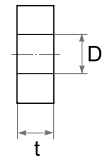
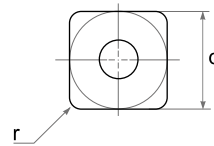
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
DNMG 150404SY	DNMG 431SY	12.70	4.76	0.4	5.16		●	●				●	
DNMG 150408SY	DNMG 432SY	12.70	4.76	0.8	5.16		●	●				●	
DNMG 150412SY	DNMG 433SY	12.70	4.76	1.2	5.16		●	●					●
DNMG 150604SY	DNMG 441SY	12.70	6.35	0.4	5.16		●	●					
DNMG 150608SY	DNMG 442SY	12.70	6.35	0.8	5.16		●	●					
DNMG 150612SY	DNMG 443SY	12.70	6.35	1.2	5.16		●	●					



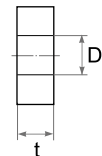
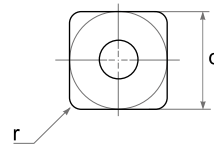
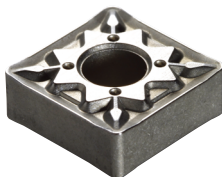
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
DNMG 150404SG	DNMG 431SG	12.70	4.76	0.4	5.16		●	●					
DNMG 150408SG	DNMG 432SG	12.70	4.76	0.8	5.16		●	●					
DNMG 150412SG	DNMG 433SG	12.70	4.76	1.2	5.16		●	●					●
DNMG 150604SG	DNMG 441SG	12.70	6.35	0.4	5.16		●	●					
DNMG 150608SG	DNMG 442SG	12.70	6.35	0.8	5.16		●	●					
DNMG 150612SG	DNMG 443SG	12.70	6.35	1.2	5.16		●						

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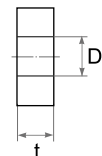
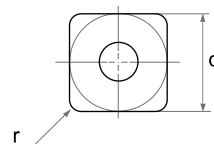
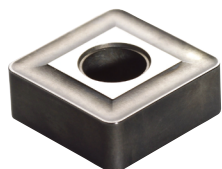
SNMG



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SNMG 120404SF	SNMG 431SF	12.70	4.76	0.4	5.16		●	●					
SNMG 120408SF	SNMG 432SF	12.70	4.76	0.8	5.16		●	●			●		
SNMG 120412SF	SNMG 433SF	12.70	4.76	1.2	5.16		●	●					

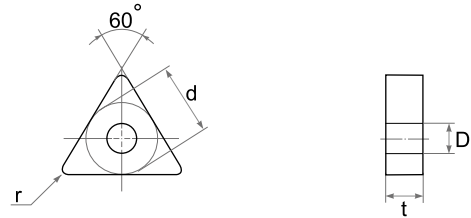


Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SNMG 120404SY	SNMG 431SY	12.70	4.76	0.4	5.16		●	●	●			●	
SNMG 120408SY	SNMG 432SY	12.70	4.76	0.8	5.16		●	●				●	
SNMG 120412SY	SNMG 433SY	12.70	4.76	1.2	5.16		●	●					

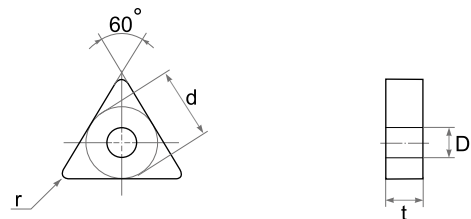


Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SNMG 120404SG	SNMG 431SG	12.70	4.76	0.4	5.16		●	●					
SNMG 120408SG	SNMG 432SG	12.70	4.76	0.8	5.16		●	●					
SNMG 120412SG	SNMG 433SG	12.70	4.76	1.2	5.16		●	●					

TNMG

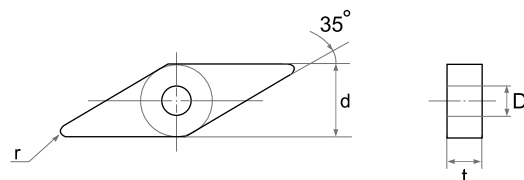
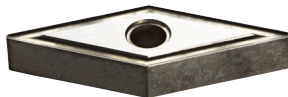


Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNMG 160404SY	TNMG 331SY	9.52	4.76	0.4	3.81		●	●					
TNMG 160408SY	TNMG 332SY	9.52	4.76	0.8	3.81		●	●					
TNMG 160412SY	TNMG 333SY	9.52	4.76	1.2	3.81		●	●					



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNMG 160404SG	TNMG 331SG	9.52	4.76	0.4	3.81		●	●					
TNMG 160408SG	TNMG 332SG	9.52	4.76	0.8	3.81		●	●					
TNMG 160412SG	TNMG 333SG	9.52	4.76	1.2	3.81		●	●					

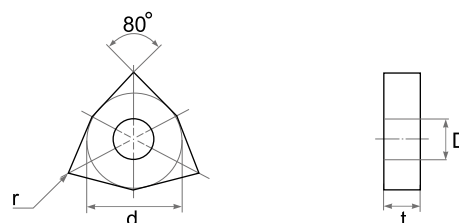
VNMG



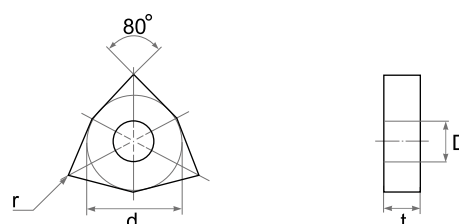
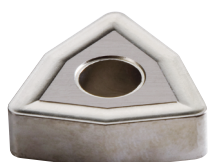
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
VNMG 160404SG	VNMG 331SG	9.52	4.76	0.4	3.81		●	●			●	●	
VNMG 160408SG	VNMG 332SG	9.52	4.76	0.8	3.81		●	●				●	

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WNMG

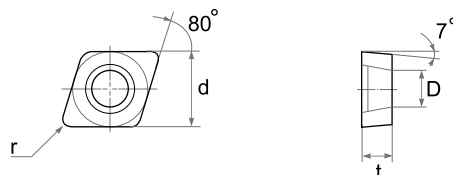


Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
WNMG 080404SY	WNMG 431SY	12.70	4.76	0.4	5.16		●	●			●	●	
WNMG 080408SY	WNMG 432SY	12.70	4.76	0.8	5.16		●	●			●	●	
WNMG 080412SY	WNMG 433SY	12.70	4.76	1.2	5.16								



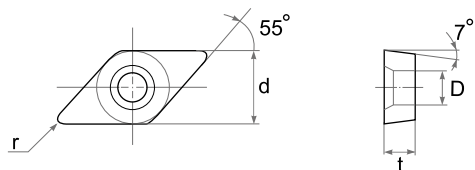
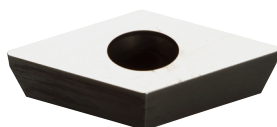
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
WNMG 080404SG	WNMG 431SG	12.70	4.76	0.4	5.16		●	●			●		
WNMG 080408SG	WNMG 432SG	12.70	4.76	0.8	5.16		●	●					
WNMG 080412SG	WNMG 433SG	12.70	4.76	1.2	5.16		●	●					

CCMT



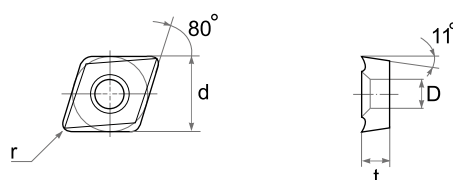
Type	Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
CCMT 09T304	9.52	3.97	0.4	4.40	●	●	●			●		
CCMT 09T308	9.52	3.97	0.8	4.40	●	●	●					

DCGW



Type	Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
DCGW 090304	8.50	3.18	0.4	3.60			●					
DCGW 11T304	9.52	3.97	0.4	4.40			●					

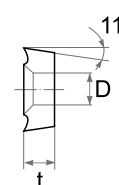
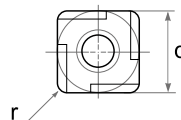
CPGT



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
CPGT 090304	CPGT 321	9.52	3.18	0.4	4.50	●	●	●					
CPGT 090308	CPGT 322	9.52	3.18	0.8	4.50	●	●	●					

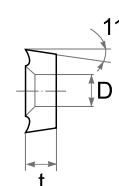
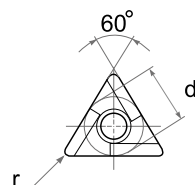
CERMET

SPGT



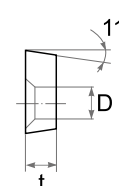
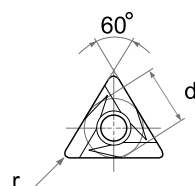
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SPGT 090304R/L	SPGT 321R/L	9.52	3.18	0.4	3.40	●	●						
SPGT 090308R/L	SPGT 322R/L	9.52	3.18	0.8	3.40	●	●						

TPGT



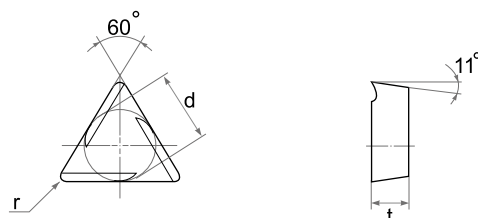
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TPGT 110302R/L	TPGT 2205R/L	6.35	3.18	0.2	3.56	●	●	●					
TPGT 110304R/L	TPGT 221R/L	6.35	3.18	0.4	3.56	●	●	●					
TPGT 110308R/L	TPGT 222R/L	6.35	3.18	0.8	3.56	●	●						
TPGT 160304R/L	TPGT 321R/L	9.52	3.18	0.4	4.46	●	●	●					
TPGT 160308R/L	TPGT 322R/L	9.52	3.18	0.8	4.46	●	●	●					
TPGT 160404R/L	TPGT 331R/L	9.52	4.76	0.4	4.40	●	●	●					
TPGT 160408R/L	TPGT 332R/L	9.52	4.76	0.8	4.40	●	●	●					

TPGT .. KC



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO		d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TPGT 110304KC		6.35	3.18	0.4	3.56			●					

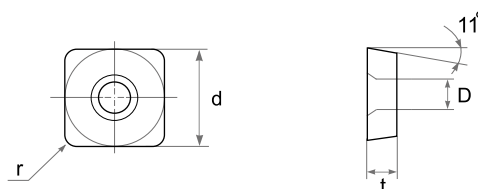
TPGR



Turning & Milling

Type	Dimensions (mm)			Cermet (TiCN)				Cermet (PVD)			
	d	t	r	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
ISO											
TPGR 110302R/L	6.35	3.18	0.2		●						
TPGR 110304R/L	6.35	3.18	0.4		●						
TPGR 110308R/L	6.35	3.18	0.8								
TPGR 160302R/L	9.52	3.18	0.2		●						
TPGR 160304R/L	9.52	3.18	0.4		●		●				
TPGR 160308R/L	9.52	3.18	0.8		●						
TPGR 220404K-R/L	12.70	4.76	0.4		●		●				
TPGR 220408K-R/L	12.70	4.76	0.8		●						
TPGR 220412K-R/L	12.70	4.76	1.2		●						

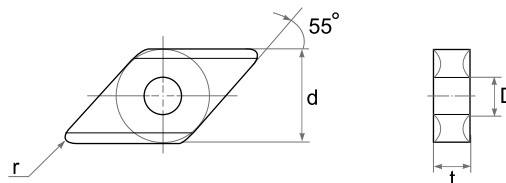
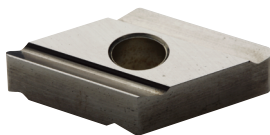
SPMW



Type	Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
ISO												
SPMW 090304HS	9.52	3.18	0.4	3.4		●	●					
SPMW 090308HS	9.52	3.18	0.8	3.4		●	●					
SPMW 090304HL	9.52	3.18	0.4	4.6		●	●					
SPMW 090308HL	9.52	3.18	0.8	4.6		●	●					

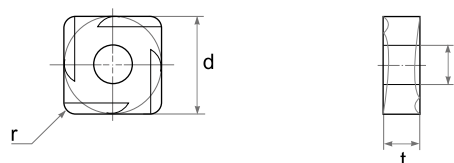
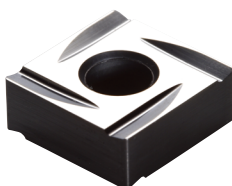
CERMET

DNGG



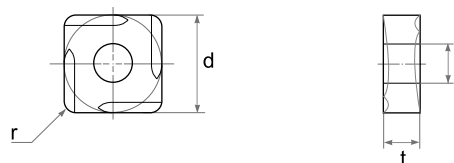
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
DNGG 150404R/L	DNGG 431R/L	12.70	4.76	0.4	5.16		●	●				●	
DNGG 150408R/L	DNGG 432R/L	12.70	4.76	0.8	5.16		●	●					
DNGG 150604R/L	DNGG 441R/L	12.70	6.35	0.4	5.16		●	●					
DNGG 150608R/L	DNGG 442R/L	12.70	6.35	0.8	5.16		●	●					

SNGG



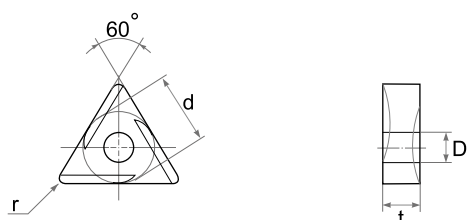
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SNGG 120404R/L	SNGG 431R/L	12.70	4.76	0.4	5.16		●	●					
SNGG 120408R/L	SNGG 432R/L	12.70	4.76	0.8	5.16		●	●					
SNGG 120412R/L	SNGG 433R/L	12.70	4.76	1.2	5.16								

SNGL



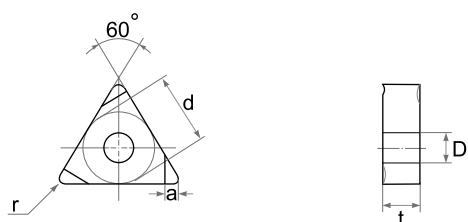
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO		d	t	r		TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
SNGL 070204R/L		7.14	2.38	0.4		●							

TNGG



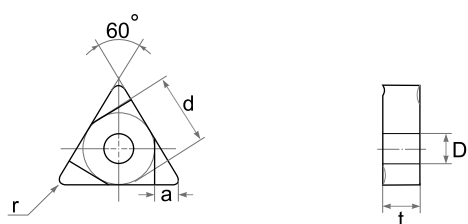
Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNGG 160402R/L	TNGG 3302R/L	9.52	4.76	0.2	3.81		●	●	●				
TNGG 160404R/L	TNGG 331R/L	9.52	4.76	0.4	3.81	●	●	●	●				
TNGG 160408R/L	TNGG 332R/L	9.52	4.76	0.8	3.81	●	●	●					
TNGG 220404R/L	TNGG 431R/L	12.70	4.76	0.4	5.16		●	●					
TNGG 220408R/L	TNGG 432R/L	12.70	4.76	0.8	5.16		●	●					

TNGG .. FS



Type		Dimensions (mm)					Cermet (TiCN)				Cermet (PVD)			
ISO		d	t	r	D	a	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNGG 160402R/L-FS		9.52	4.76	0.2	3.81	1.28		●	●					
TNGG 160404R/L-FS		9.52	4.76	0.4	3.81	1.28		●	●				●	
TNGG 160408R/L-FS		9.52	4.76	0.8	3.81	1.28		●	●					

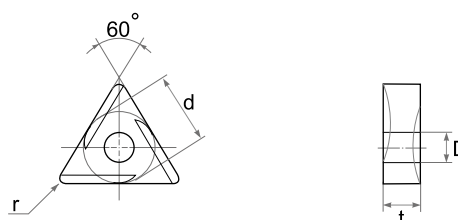
TNGG .. F



Type		Dimensions (mm)					Cermet (TiCN)				Cermet (PVD)			
ISO		d	t	r	D	a	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNGG 160402R/L-F		9.52	4.76	0.2	3.81	2.50		●	●					
TNGG 160404R/L-F		9.52	4.76	0.4	3.81	2.50		●	●				●	
TNGG 160408R/L-F		9.52	4.76	0.8	3.81	2.50		●	●					

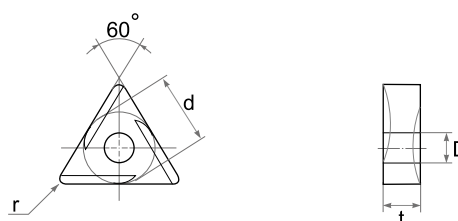
CERMET

TNMG .. 2G



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNMG 160404R/L 2G	TNMG 331R/L 2G	9.52	4.76	0.4	3.81	●	●	●	●			●	
TNMG 160408R/L 2G	TNMG 332R/L 2G	9.52	4.76	0.8	3.81		●	●				●	

TNMG .. RM



Type		Dimensions (mm)				Cermet (TiCN)				Cermet (PVD)			
ISO	ASA	d	t	r	D	TX510	TX515	TX520	TX530	TX910	TX915	TX920	TX930
TNMG 160404 RM	TNMG 331 RM	9.52	4.76	0.4	3.81		●	●					