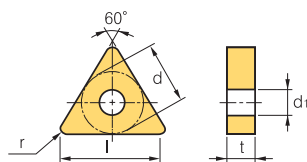


TN ○○



Dimensions (mm)			
Size	d	t	d ₁
11	6.35	3.18	2.40
16	9.525	3.18~4.76	3.81
22	12.7	4.76	5.16
27	15.875	6.35	6.35
33	19.05	9.52	7.93

Inserts		Designation	Cermet		Coated		Coated														Uncoated		Cutting Condition						
			CN1500	CN2000	CN2500	CC1500	CC2500	NC3215	NC3120	NC3225	NC3030	NC5330	NC6310	NC6315	NC9115	NC9125	NC9135	PC5300	PC5400	PC8105	PC8110	PC8115	PC9030	H01	H05	fn (mm/rev)	ap (mm)		
Medium cutting		TNGN 110302																									0.05~0.25	0.20~2.50	
		110304																									0.10~0.30	0.50~2.50	
		110308																									0.10~0.30	0.80~2.50	
		160302																									0.05~0.30	0.20~3.00	
		160304																									0.10~0.30	0.50~4.00	
		160308																									0.10~0.40	0.80~4.00	
		160404																									0.10~0.40	0.50~4.00	
		160408																									0.10~0.40	1.00~4.00	
		160412																									0.10~0.50	1.50~4.50	
		220404																									0.10~0.35	1.00~4.00	
		220408																									0.15~0.40	1.50~5.00	
		220412																									0.20~0.50	1.50~5.00	
		220416																									0.25~0.55	1.50~5.00	
		220424																									0.30~0.65	2.00~5.00	
		270630																									0.35~0.70	2.00~5.00	
		Roughing		TNMA 110308																									0.05~0.30
160404													●	●												0.10~0.30	1.00~4.00		
160408													●	●												0.10~0.40	1.00~4.00		
160412														●												0.10~0.50	1.50~4.50		
160416														●												0.15~0.55	1.50~4.50		
220404																										0.10~0.35	1.00~4.00		
220408														●												0.15~0.40	1.50~5.00		
220412														●												0.20~0.50	1.50~5.00		
220416														●												0.25~0.55	1.50~5.00		
220420																										0.30~0.65	2.00~5.00		
220432																										0.35~0.70	2.00~5.00		
270608																										0.20~0.45	2.00~7.00		
270612																										0.25~0.55	3.00~7.00		
270616																										0.30~0.65	3.00~7.00		
330924																										0.35~0.75	3.00~9.00		
Finishing		TNMG 160404-VB	●	●	●	●	●	●	●																	0.10~0.35	0.30~1.50		
		160408-VB	●	●	●	●	●	●	●		●															0.15~0.45	0.50~7.00		
		160412-VB						●	●																				
		220408-VB							●		●															0.15~0.45	0.50~2.50		
		220412-VB																								0.20~0.50	0.70~2.50		

● : Stock item

Available tool holders					
Designation	Page	Designation	Page	Designation	Page
MTENN	B175	PTFNR/L	B165, 199	WTJNR/L	B167
MTFNR/L	B175	PTGNR/L	B165	WTXNR/L	B167
MTGNR/L	B176	PTTNR/L	B166		
MTJNR/L	B176	WTENN	B167		