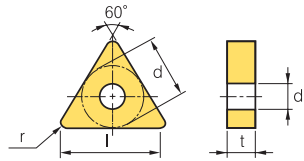




Triangular 60° Negative



Dimensions (mm)			
Size	d	t	d ₁
16	9.525	4.76	3.81
22	12.7	4.76	5.16
27	15.875	6.35	6.35
33	19.05	7.94~9.52	7.93

Workpiece	Machining types															
	P	M	K	N	S	H	●	●	●	●	●	●	●	●	●	●
Steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Stainless steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cast iron	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Non-ferrous metal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat resistant alloy, Titanium alloy	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hardened steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	f _n (mm/rev)	a _p (mm)				
Roughing		TNMM 220408-GR 220412-GR 220416-GR																							0.22~0.61	1.10~7.80				
																											0.28~0.78	1.20~7.80		
																												0.31~0.75	1.50~7.80	
Heavy		TNMM 160408-GH 220408-GH 220412-GH 220416-GH 270616-GH 270624-GH 330924-GH																								0.20~0.50	1.00~7.00			
																												0.25~0.60	1.30~7.00	
												●																0.20~0.50	1.00~8.00	
																												0.25~0.60	1.30~8.00	
																													0.32~0.70	1.80~8.00
																													0.35~0.50	1.80~13.00
																													0.35~0.70	2.30~13.00
Medium to roughing		TNMM 160408 220408 220412																								0.10~0.30	1.00~4.00			
																											0.15~0.40	1.50~5.00		
																												0.20~0.50	1.50~5.00	
Finishing		TNMX 160404R-SR 160408R-SR 160404L-SR 160408L-SR																								0.10~0.35	0.70~3.50			
																											0.12~0.40	1.00~3.50		
																												0.10~0.35	0.70~3.50	
																												0.12~0.40	1.00~3.50	
Medium cutting		TNMX 160404R-SH 160408R-SH 160404L-SH 160408L-SH																								0.15~0.30	0.50~4.00			
																											0.15~0.45	1.00~4.00		
																												0.15~0.30	0.50~4.00	
																												0.15~0.45	1.00~4.00	
Medium to roughing		TNMX 160402R 160404R 160408R 220404R 220408R 160404L 160408L																								0.10~0.30	0.50~3.00			
																												0.12~0.30	1.00~3.50	
																													0.15~0.35	1.30~3.40
																													0.12~0.30	1.00~5.00
																													0.15~0.35	1.30~5.00
																													0.12~0.30	1.00~3.50
																													0.15~0.35	1.30~3.40

Cutting edge geometry A52~A61
 Recommended chip breaker B04~B11
 Code system B26~B27
 ● : 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		