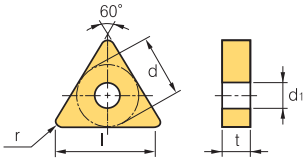
TN○○

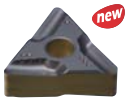
Triangular 60° Negative



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

Machining types
- ● Continuous cutting
- ⬌ General cutting
- ✱ Interrupted cutting

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