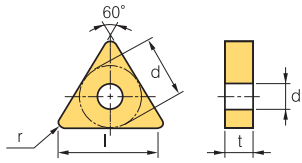


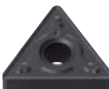
B Turning Insert (Negative)

TN ○○



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																								Machining types	
	Stainless steel																									 Continuous cutting  General cutting  Interrupted cutting
	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	fn (mm/rev)	ap (mm)	
Roughing		TNMG	160408-GR							●	●															0.20~0.50	1.00~7.00	
			160412-GR							●																	0.23~0.54	1.20~8.00
			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
			270608-GR								●																0.31~0.75	1.50~7.80
			270612-GR								●	●															0.31~0.75	1.50~7.80
			270616-GR									●															0.36~1.00	1.60~7.80
			330924-GR									●															0.40~1.00	2.00~9.00
Roughing		TNMG	160408-RK										●	●												0.23~0.53	1.50~5.00	
			160412-RK										●	●												0.28~0.53	1.80~5.00	
			160416-RK											●												0.28~0.53	1.80~5.00	
			220408-RK											●												0.23~0.53	1.50~6.00	
			220412-RK											●												0.28~0.53	1.80~6.00	
			220416-RK											●												0.28~0.63	2.00~6.00	
Roughing		TNMG	160404-RM											●	●	●	●				●	●	●		0.10~0.50	2.00~5.50		
			160408-RM												●	●	●	●				●	●	●		0.15~0.55	2.00~5.50	
			160412-RM													●	●									0.20~0.60	2.00~5.50	
			220408-RM													●	●	●					●			0.10~0.50	2.00~7.50	
			220412-RM													●	●	●					●			0.15~0.55	2.00~7.50	
			220416-RM																							0.25~0.70	2.00~7.50	
Roughing		TNMG	160408-VP4																		●			0.15~0.35	1.00~4.00			
			160412-VP4																			●			0.20~0.40	1.00~4.00		
Roughing		TNMG	160404-VR																						0.20~0.50	0.80~7.00		
			160408-VR																							0.25~0.55	1.20~7.00	
			160412-VR																							0.35~0.65	1.70~7.00	
			160416-VR																							0.35~0.70	2.00~10.0	
			220408-VR																							0.35~0.70	2.00~10.0	
			220412-VR																							0.35~0.70	2.00~10.0	
			220416-VR																							0.35~0.75	2.20~10.0	

 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		

