

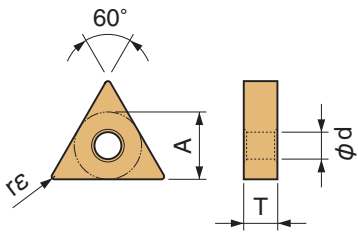
Turning Indexable Inserts

(mm)

60° Triangle • Negative with Hole

Description	A	T	∅d
TN_1103_	6.35	3.18	2.26
TN_1104_	6.35	4.76	2.26

Description	A	T	∅d
TN_1603_	9.525	3.18	3.81
TN_1604_	9.525	4.76	3.81
TN_2204_	12.70	4.76	5.16



P	Material Groups																Classification of usage	
	Carbon Steel and Alloy Steel	Stainless Steel	Gray Cast Iron	Nodular Cast Iron	Non-ferrous Metals	Heat-resistant alloy	Titanium Alloy	Hard Materials	Other Groups									
M																	⚙	⚙: Interruption / 1st Choice
K																	⚙	⚙: Interruption / 2nd Choice
N																	⚙	⚙: Light Interruption / 1st Choice
S																	⚙	⚙: Light Interruption / 2nd Choice
H																		●: Continuous / 1st Choice
																		○: Continuous / 2nd Choice

(In case hardness is under 45HRC)

Insert	Description	Dim. (mm)	Cermert	PVD Cermert	CVD Coated Carbide											PVD Coated Carbide	Carbide	Ref. Page for Toolholder	Applicable Chipbreaker Range		
					TN6010	TN6020	TN60	PV7005	PV7010	PV7020	CA5505	CA5515	CA5525	CA5535	CA6515					CA6525	CA4010
	TNGG 16040DP	0.4																		D14	
	TNGG 160408DP	0.8																		D15	
	TNMG 160404DP	0.4																		F43	
	TNMG 160408DP	0.8																		F68	
	TNMG 110404GP	0.4																		D14	
	TNMG 110408GP	0.8																		F68	
	TNMG 160402GP	0.2																		D14	
	TNMG 160404GP	0.4																		D15	
TNMG 160408GP	0.8																			F68	
	TNMG 110404HQ	0.4																		D14	
	TNMG 110408HQ	0.8																		F68	
	TNMG 160404HQ	0.4																		D14	
	TNMG 160408HQ	0.8																		D15	
TNMG 160412HQ	1.2																			F68	
	TNMG 160404CQ	0.4																		F43	
	TNMG 160408CQ	0.8																		F68	
TNMG 220408CQ	0.8																			D14	
TNMG 220412CQ	1.2																			F68	
	TNMP 160404TK	0.4																		D14	
	TNMP 160408TK	0.8																		D15	
	TNMG 160404HK	0.4																		F43	
	TNMG 160408HK	0.8																		F68	
TNMG 220404HK	0.4																			D14	
TNMG 220408HK	0.8																			F68	
	TNMG 160404CS	0.4																		D14	
	TNMG 160408CS	0.8																		D15	
	TNMG 110404GS	0.4																		F43	
	TNMG 110408GS	0.8																		F68	
	TNMG 160404GS	0.4																		D14	
	TNMG 160408GS	0.8																		D15	
	TNMG 160404PS	0.4																		F43	
	TNMG 160408PS	0.8																		F68	
TNMG 160412PS	1.2																			D14	
TNMG 220404PS	0.4																			D14	
TNMG 220408PS	0.8																			F68	
TNMG 220412PS	1.2																			D14	
TNMG 220416PS	1.6																			D14	

For grades { TN30 PV60 PR905 } , See Page B42~B43
 { PV30 PV90 PR915 }

Inserts are sold in 10 piece boxes.