

<90 degree Square Negative type>

Item Number	IC	T
SN_1204	12.7	4.76

				<table border="1"> <tr><td>Steel</td><td>P</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Stainless Steel</td><td>M</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Cast Iron</td><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Non-Ferrous Material</td><td>N</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Heat Resistant Alloy</td><td>S</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Hardened Material</td><td>H</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </table>	Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	<ul style="list-style-type: none"> ● : 1st Choice ● : 2nd choice
Steel	P	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Shape	ISO Item Number	Inch Item Number	R	Carbide									Chip Control Range	For applicable holder, see pages:																																																																											
				PVD Coated						CVD Coated																																																																															
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1																																																																												
	SNMG 120408 G	SNMG432-G	0.8								●	●			F17 F19 K36																																																																										
	SNMG 120412 G	SNMG433-G	1.2								●	●																																																																													
	SNMG 120416 G	SNMG434-G	1.6								●	●																																																																													
	SNMG 120408 TNB Z5	SNMG432-TNB-Z5	0.8			●				●																																																																															

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<60 degree Triangle Negative type>

Item Number	IC	T
TN_1604	9.525	4.76

				<table border="1"> <tr><td>Steel</td><td>P</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Stainless Steel</td><td>M</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Cast Iron</td><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Non-Ferrous Material</td><td>N</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Heat Resistant Alloy</td><td>S</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Hardened Material</td><td>H</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </table>	Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	<ul style="list-style-type: none"> ● : 1st Choice ● : 2nd choice
Steel	P	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●																																																																												
Shape	ISO Item Number	Inch Item Number	R	Carbide									Chip Control Range	For applicable holder, see pages:																																																																											
				PVD Coated						CVD Coated																																																																															
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1																																																																												
	TNMG 160408 G	TNMG332-G	0.8								●	●																																																																													
	160412 G	333-G	1.2								●	●																																																																													
	TNMG 160404 TNB Z5	331-TNB-Z5	0.4			●					●																																																																														
	160408 TNB Z5	332-TNB-Z5	0.8			●					●																																																																														
	TNGG 160402 FN ZP	TNGG33Y-FN-ZP	0.2			●	●				●																																																																														
	160404 FN ZP	331-FN-ZP	0.4			●	●				●																																																																														
	160408 FN ZP	332-FN-ZP	0.8			●	●				●																																																																														
	TNGG 160402 F ^R / _L C	TNGG33Y-F ^R / _L -C	0.2			R									F23 F25 G39																																																																										
	TNEG 160402 F ^R / _L D1		0.2					●																																																																																	
	160404 F ^R / _L D1		0.4					●																																																																																	
	160408 F ^R / _L D1		0.8					●																																																																																	
	TNGG 160401 F ^R / _L DA	TNGG331CF ^R / _L -DA	0.1			R	R																																																																																		
	TNGG 160401 F ^R / _L U2	TNGG331CF ^R / _L -U2	0.1			R	R																																																																																		
	160402 F ^R / _L U2	33Y-F ^R / _L -U2	0.2			●					●																																																																														
	160404 F ^R / _L U2	331-F ^R / _L -U2	0.4			●					●																																																																														
	160408 F ^R / _L U2	332-F ^R / _L -U2	0.8			●					●																																																																														
	TNGG 160401M FN UL	TNGG3304MFNUL	*0.08	●	●			●			●																																																																														
	160402M FN UL	3308MFNUL	*0.18	●	●			●			●																																																																														
	160404M FN UL	331MFNUL	*0.38	●	●			●			●																																																																														
	160408M FN UL	332MFNUL	*0.78	●	●			●			●																																																																														

*Inserts having 01M, 02M or 04M as the R code can be used for machining when the component drawing specifies that the radius is less than R=0.1, R=0.2 or R=0.4 respectively. ● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)