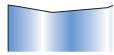
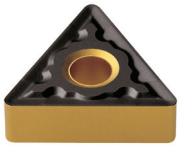
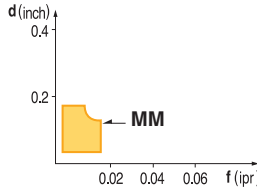


Indexable Cutting Tools

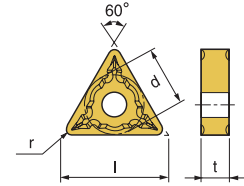
TNMG-MM



Excellent choice for a variety of steels including stainless steel

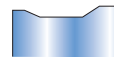
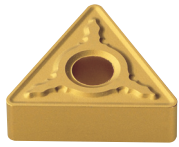


- USE Steels/Stainless Steels
- Recommendation
MM $d = 0.04 \sim 0.16$ inch
 $f = 0.004 \sim 0.016$ ipr

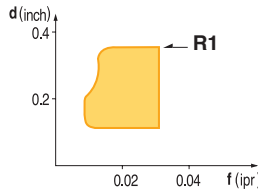


Designation	ISO	Coated Carbide										Cermet		Uncoated Carbide	(inch)				Applicable Holders		
		PT10C	PT20C	PT22C	PT25C	PT30C	MT20C	MT30P	KT05C	KT10C	ST10P	PT10S	PT20S	PTM30U	l	d	t	r	Holder	Page No.	
TNMG 332-MM	160408				149323 \$ 12.10										0.650	3/8	3/16	1/32	Turning MTCNN E51 MTFNR/L E52 MTENN E52 MTGNR/L E53 MTJNR/L E53		
TNMG 431-MM	220404				149244 \$ 16.41										0.886	1/2	3/16	1/64		Boring MTFNR E65 MTUNR E65 PTFNR/L E69	
TNMG 432-MM	220408				149234 \$ 16.46										0.886	1/2	3/16	1/32			

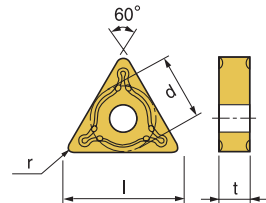
TNMG-R1



- Excellent chip control at deep depth of cut and fast feed rate
- Strong cutting edge makes excellent cutting performance at intermittent cutting

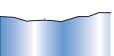
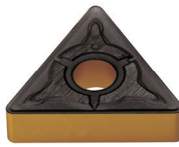


- USE Roughing
- Recommendation
R1 $d = 0.1 \sim 0.28$ inch
 $f = 0.010 \sim 0.026$ ipr

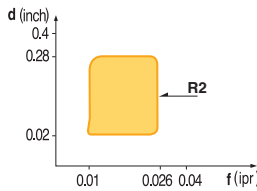


Designation	ISO	Coated Carbide										Cermet		Uncoated Carbide	(inch)				Applicable Holders		
		PT10C	PT20C	PT22C	PT30C	PM10P	MT20C	MT30P	KT05C	KT10C	ST10P	PT10S	PT20S	PTM30U	l	d	t	r	Holder	Page No.	
TNMG 332-R1	160408				146573 \$ 11.35										0.650	3/8	3/16	1/32	Turning MTCNN E51 MTFNR/L E52 MTENN E52 MTGNR/L E53 MTJNR/L E53		
TNMG 432-R1	220408				146621 \$ 16.19										0.886	1/2	3/16	1/32		Boring MTFNR E65 MTUNR E65 PTFNR/L E69	
TNMG 433-R1	220412				146638 \$ 15.73										0.886	1/2	3/16	3/64			

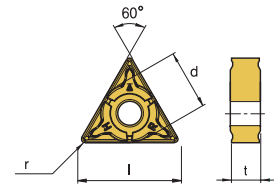
TNMG-R2



- Suitable for heavy duty cutting due to strong cutting edge
- Wide chip control range with low cutting force



- USE Roughing
- Recommendation
R2 $d = 0.12 \sim 0.44$ inch
 $f = 0.012 \sim 0.052$ ipr



Designation	ISO	Coated Carbide										Cermet		Uncoated Carbide	(inch)				Applicable Holders		
		PT10C	PT15C	PT22C	PT30C	PM10P	MT20C	MT30P	KT05C	KT10C	ST10P	PT10S	PT20S	PTM30U	l	d	t	r	Holder	Page No.	
TNMG 432-R2	220408		149340 \$ 12.66		147623 \$ 16.19										0.886	1/2	3/16	1/32	Turning MTCNN E51 MTFNR/L E52 MTENN E52 MTGNR/L E53 MTJNR/L E53		
TNMG 433-R2	220412				147625 \$ 15.94										0.886	1/2	3/16	3/64		Boring MTFNR E65 MTUNR E65 PTFNR/L E69	