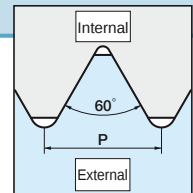


Threading Inserts



External Threading Inserts

Metric (M)

Full Profile 60°

Full Profile 60°					(mm)		Classification of usage		P	Carbon Steel / Alloy Steel						Ref. Page for Depth of Cut & Number of Passes				
Description	Previous Description	A	T	ød	● : 1st Choice ○ : 2nd Choice		M	Stainless Steel			○	●								
16E ^{R/L}	TNN32E ^{R/L}	9.525	3.68	4.0			K	Cast Iron						●						
22E ^{R/L}	TNN43E ^{R/L}	12.70	4.9	4.85			N	Non-ferrous Metals						●						
Insert		Description		Previous Description		Applicable Thread	Dimension (mm)		Angle (°)	Cermet	PVD Coated Carbide				Carbide					
Handed Insert shows Right-hand						M	rε		θ	TC60	PR630		PR930		PR1115		GW15		KW10	
						Pitch														
						mm	S	R			L	R	L	R	L	R	L	R	L	
Full Profile		16E ^{R/L} 100ISO-TF 125ISO-TF 150ISO-TF 175ISO-TF 200ISO-TF 250ISO-TF 300ISO-TF	-	1.0	0.12	0.80	60°													
				1.25	0.15	0.90														
				1.5	0.19	1.00														
				1.75	0.22	1.60														
				2.0	0.25	1.50														
				2.5	0.33	1.60														
				3.0	0.41	1.60														
		16E ^{R/L} 050ISO 075ISO 100ISO 125ISO 150ISO 175ISO 200ISO 250ISO	TNN32E ^{R/L} 050M 075M 100M 125M 150M 175M 200M 250M	0.5	0.06	0.40	60°	●				●	●	●	●					
				0.75	0.09	0.53		●				●	●	●	●					
				1.0	0.12	0.80		●				●	●	●	●					
				1.25	0.15	0.90		●				●	●	●	●					
				1.5	0.19	1.00		●				●	●	●	●					
				1.75	0.22	1.50		●				●	●	●	●					
				2.0	0.25	1.50		●				●	●	●	●					
				2.5	0.32	1.60		●				●	●	●	●					
		22E ^{R/L} 300ISO 350ISO 400ISO 450ISO 500ISO	TNN43E ^{R/L} 300M 350M 400M 450M 500M	3.0	0.41	2.10	60°	●				●								
				3.5	0.48	2.10		●				●								
				4.0	0.55	2.80		●				●								
				4.5	0.62	2.80		●				●								
	1-Thread, With Chipbreaker	16E ^{R/L} 100ISO-TS 125ISO-TS 150ISO-TS 200ISO-TS	TNN32E ^{R/L} 100M-TS 125M-TS 150M-TS 200M-TS	1.0	0.12	0.80	60°					●								
				1.25	0.15	0.90						●								
				1.5	0.19	1.00						●								
				2.0	0.25	1.50						●								
	2-Thread, With Chipbreaker	16E ^{R/L} 100ISO-M02 150ISO-M02 200ISO-M02	TNN32E ^{R/L} 100M02 150M02 200M02	1.0	0.12	1.80	60°	●				●								
				1.5	0.19	2.25		●				●								
				2.0	0.25	2.90		●				●								

Applicable Toolholder

For recommended cutting conditions, see page J29

Description	Applicable Toolholder	Ref. Page for Toolholder
16ER ...	KTNR...-16 KTNSR...-16	J16
16EL ...	KTNL...-16	
22ER ...	KTNR...-22	

Applicable Thread	M: Metric	R, Rc (PT), (BSPT): Tapered Pipe
	UN: Unified	W: Whitworth
	UNF: Unified Fine Thread	NPT: American National Pipe
	G (PF): Parallel Pipe	Tr: 30°Trapezoidal

● : Std. Item ○ : Check Availability

R : Std. Item (R-hand Only) L : Std. Item (L-hand Only)