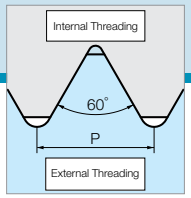
для заказа - kyocera@kyocera-tools.ru



External Threading Insert

Metric (M), Unified (UN)

60° Partial Profile (in)

Part Number	Previous Part Number	A	T	Ød
16ER	TNN32ER	0.375	0.145	0.157
22ER	TNN43ER	0.500	0.193	0.191

Classification of Usage
● : Continuous / 1st Choice
○ : Continuous / 2nd Choice

P	Carbon Steel / Alloy Steel		●	
M	Stainless Steel		●	
K	Cast Iron			●
N	Non-ferrous Metals			●

Insert (Right-handed Insert Shown)	Part Number	Previous Part Number	Applicable Thread M	Applicable Thread UN UNF	Dimensions (in) rε	Dimensions (in) S	Angle θ	Cermet TC60 R	Cermet TC60 L	PVD Coated Carbide PR1115 R	PVD Coated Carbide PR1115 L	Carbide GW15 R	Carbide GW15 L	Ref. Page for D.O.C. & Number of Passes
			Pitch mm	Pitch TPI										
Partial Profile	16ER A60-TF	-	0.50~1.50	48~16	0.002	0.039	60°			●				J38 J39
	16ER G60-TF	-	1.75~3.00	14~8	0.009	0.063	60°			●				J38 J39
	16ER AG60-TF	-	0.50~3.00	48~8	0.002	0.063	60°			●				J38 J39
	16ER A60	-	0.50~1.50	48~16	0.002	0.039	60°					○		J38 J39
	16ER G60	-	1.75~3.00	14~8	0.009	0.063	60°			○		○		J38 J39
	16ER AG60	-	0.50~3.00	48~8	0.002	0.063	60°					○		J38 J39
	22ER N60	-	3.50~5.00	7~5	0.019	0.098	60°							J38 J39
	16ER 6001	TNN32ER 6001	1.00~2.50	24~11	0.004	0.059	60°	●						J42
	6002	6002	1.50~2.50	16~11	0.008	0.059	60°	●						J42

Recommended Cutting Conditions ➡ J36

Applicable Toolholders

Part Number	Applicable Toolholders	Ref. Page for Toolholder
16ER...	KTNR...-16 KTNSR...-16	➡ J20
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

Threading Insert Identification System (Partial Profile) ➡ J12 ~ ➡ J15

16	E	R	A60	-TF
①	②	③	④	⑤

① Insert Size

06	3.970
08	4.760
11	6.350
16	9.525
22	12.70
Symbol	I.C. Size (mm)

② External / Internal

E	External Threading
I	Internal Threading

③ Insert Hand

R	Right hand
L	Left hand

④ Pitch

60°	A60	60° Angle (Partial Profile) 0.50mm~1.50mm
	G60	60° Angle (Partial Profile) 1.75mm~3.00mm
	AG60	60° Angle (Partial Profile) 0.50mm~3.00mm
55°	A55	55° Angle (Partial Profile) 40~16 TPI
	G55	55° Angle (Partial Profile) 14~8 TPI
	AG55	55° Angle (Partial Profile) 40~8 TPI
Vertex angle		Partial Profile

④ Pitch

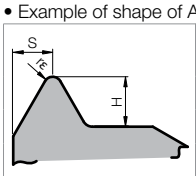
60°	6001	60° Angle (Partial Profile) R Corner-R (rε)=0.10mm 1.00mm~2.50mm
55°	5501	55° Angle (Partial Profile) R Corner-R (rε)=0.10mm 28~11 TPI
Vertex angle		Partial Profile

⑤ Optional Code

-TF	TF Cutting Edge

Note: Pitch and threads per inch of an insert without wiper depend on the size of insert.

• Example of shape of A, G and AG



Part Number	Dimensions (mm) rε	S	H
16ER A60-TF	0.002	0.039	0.059
16ER G60-TF	0.009	0.063	0.102
16ER AG60-TF	0.002	0.063	0.106

Corner-R (rε) Selection for Partial Profiling Inserts

	External Threading	Internal Threading
External Threading	rε ≦0.1443 X P	rε ≦0.0720 X P
Parallel Pipe Whitworth Tapered Pipe	For Both External and Internal Thread rε ≦0.1373 X P	

• Metric, Unified Thread
Corner-R (rε) at Internal Threading is almost half of that of External.

• Parallel Pipe, Tapered Pipe, Whitworth Thread
Same Corner-R (rε) for both External and Internal Threading.

rε : Corner-R P : Pitch (TPI) (= 1/n) n : TPI
P : Pitch (Metric) (= 25.4/n)

PR1115/GW15 Threading Inserts are sold in 5 piece boxes.

TC60 Threading Inserts sold in 10 piece boxes.

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