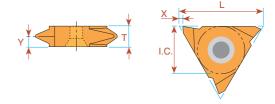
Thread Turning Inserts

Partial Profile 55° Vertical



L	I.C. in	Pitch I mm	Range TPI	EXTERNAL Ordering Code Right Hand	X	Y	т
16	3/8	0.5 -1.5	48-16	16V ER A55	1.0	0.9	3.6
16	3/8	1.75-3.0	14- 8	16V ER G55	1.0	1.7	3.6
16	3/8	0.5 -3.0	48- 8	16V ER AG55	1.0	1.8	3.6
22	1/2	3.5 -5.0	7- 5	22V ER N55	1.2	2.5	4.8

Order example: 22V ER N55 BMA



Thread Turning Technical Section

Carbide Grade Selection

Choose the C.P.T. grade specifically formulated for your application from the following list:

Uncoated Grades

(P20-P30) Carbide grade for carbon and cast steels, works well at medium to low cutting speeds. **K20**• Carbide grade for non ferrous

metals, aluminum and cast iron.

PVD TiN coated grade for treated and P25C hard alloy steels (25 HRc & up) at (P15-P35) medium to low cutting speeds. **MXC** PVD TiN coated micrograin for free (K10-K20) cutting untreated alloy steels (below 30 HRc), for stainless steels and cast iron. (P10-P25) PVD TiALN coated sub-micrograin grade **BMA** (P20-P40) for stainless steels and exotic materials (K20-K30) at medium to high cutting speeds.

BXC•• (P30-P50) (K25-K40)

Coated Grades

PVD TiN coated grade for low cutting speed. Works well with wide range of stainless steels.

Note: Due to our unique and specialized production techniques, C.P.T. coated inserts provide superior cutting performance and exceptionally long tool life.

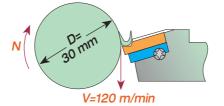
Recommended cutting speed (m/min) for thread turning inserts

			•				
		Coated				Uncoated	
ISO Standard	Materials	P25C •	MXC	BMA	BXC ••	P30°	K20 [•]
	Steel: Low & Medium Carbon Steels	80-160	90-160	100-180	20-100	70-120	
Р	High Carbon Steels	80-120	80-150	90-160	30-80	60-100	
P	Alloy Steels, Treated Steels	50-100	80-120	90-120	40-90	50-80	
	Cast Steel	80-140	100-140	120-160	30-80	50-100	
M	Stainless steel: Cast steels Stainless austenitic and austenitic ferritic steel and cast steel		70-120	90-130	30-90	70-100	80-100
K	Cast iron: Grey cast iron, cast iron with spherical graphite, malleable cast iron		80-130	80-150	30-90		60-100
N	Nonferrous Metal: Aluminium and other nonferrous metals, copper alloys non metallic		300-600		20-200		120-200
S	Super-alloys and Titanium: Heat resistant special alloys based on iron, nickel and cobalt, titanium and titanium alloys		40-80	50-100	15-30		
Н	Hard Materials: Hardened steel, hardened cast iron materials, chilled cast iron		20-40	30-50	15-30		

[·] Upon request

Conversion of Cutting Speed to Rotational Speed

Conversion of a selected cutting speed to rotational speed is calculated by the following formula:



Example

N		V x 1000	120 x 1000 ==================================
	/V _	π_{xD}	3.14 x 30

[•] For miniature and ultra miniature insert

Thread Turning Technical Section

Anvil Change Recommendation

