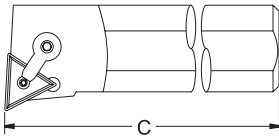


INTERNAL MACHINING TOOL DESIGNATIONS

C - Carbide
E - Carbide w/coolant through
A - Steel w/coolant through
M - Heavy metal
S - Steel

Bar Type

F - 3.0	Q - 7.0
G - 3.5	R - 8.0
H - 4.0	S - 10.0
J - 4.5	T - 12.0
K - 5.0	U - 14.0
L - 5.5	V - 16.0
M - 6.0	W - 18.0
N - 6.5	Y - 20.0
P - 6.75	X - Special

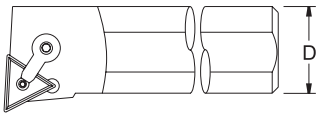


Bar Length



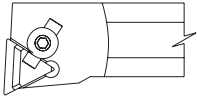
Bar Diameter

Round Shanks:
(D) shown in 1/16 inch increments

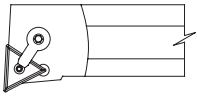


Holding Method

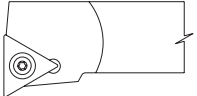
C - Clamp Lock



M - Multiple Lock



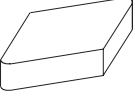
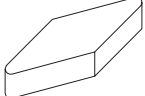





S - Screw Lock







INTERNAL MACHINING TOOL DESIGNATIONS

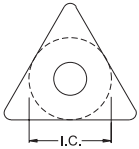
Insert Shape

C - 80° Diamond 	T - Triangle 
D - 55° Diamond 	V - 35° Diamond 
R - Round 	W - 80° Trigon 
S - Square 	

Insert Clearance Angle

B - 5° Positive 
C - 7° Positive 
N - 0° Negative 
P - 11° Positive 

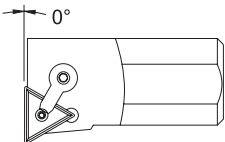
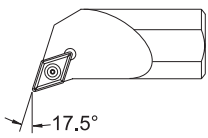
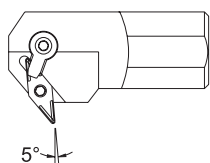
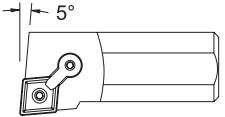
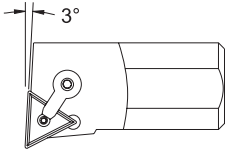
Insert Size I.C.:
(I.C.) shown in 1/8 inch increments



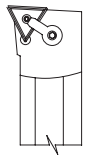
Insert Size I.C.

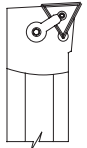
T U N R - 3

Bar Style

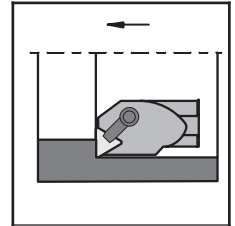
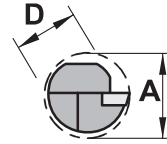
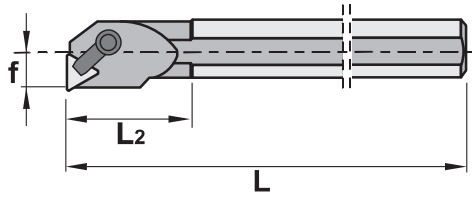
F - Offset Shank 0° End Cutting Edge Angle 	Q - Offset Shank 17.5° End Cutting Edge Angle 	X - Offset Shank 5° Back Cutting Edge Angle 
L - Offset Shank 5° End or Side Cut Edge Angle 	U - Offset Shank 3° End Cutting Edge Angle 	

Hand of Tool

R - Right Hand


L - Left Hand


INTERNAL CLAMP LOCK TOOLS



Lead Angle: 0°
Entering Angle: 90°

DESIGNATION	DIMENSIONS					INSERT (see pages 43-44)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Clamp	Clamp Screw	Shim	Pin
S16T-CTFPR/L-3	1.220	1.000	12.0	2.50	.640	TP_-32_	CL-7	XNS-34	---	---
S20U-CTFPR/L-3	1.600	1.250	14.0	3.00	.765		CL-6	XNS-36	C-3116	C-4002
S24U-CTFPR/L-3	1.840	1.500	14.0	3.00	.890					
S28U-CTFPR/L-3	2.100	1.750	14.0	4.00	1.015					
S24U-CTFPR/L-4	2.120	1.500	14.0	3.00	.890	TP_-43_	CL-20	XNS-48	C-3122	C-4012
S28U-CTFPR/L-4	2.380	1.750	14.0	3.00	1.015					
S32V-CTFPR/L-4	2.620	2.000	16.0	4.00	1.281					
S40V-CTFPR/L-4	3.120	2.500	16.0	4.00	1.531					