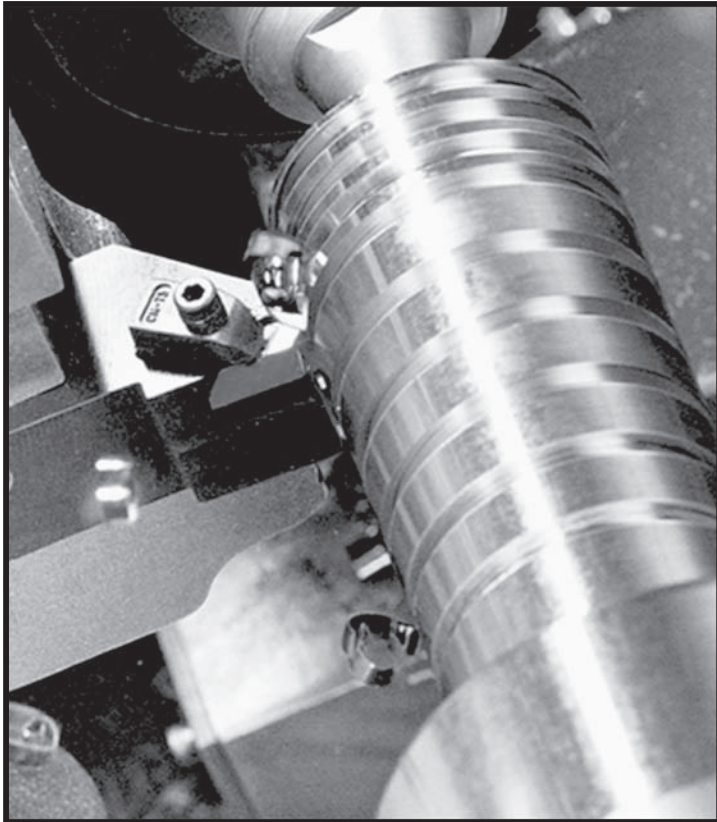


PRONOTCH TOOLHOLDING SYSTEM



The ProNotch line offers you these Important advantages:

Rigidity

The clamping design features a rugged bridge clamp which locates in a notch molded into the insert. The insert is securely positioned to provide superior resistance to side and radial cutting forces.

Versatility

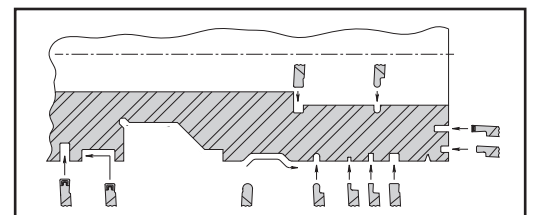
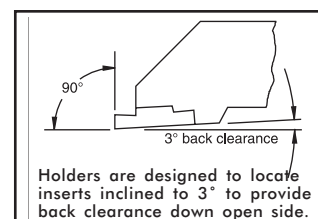
Inserts are available for shallow grooving, deep grooving, light turning, profiling, shallow and deep face grooving, and many different threading operations.

Chip control (grooving and threading)

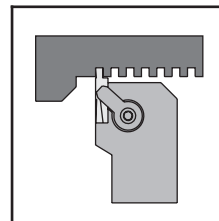
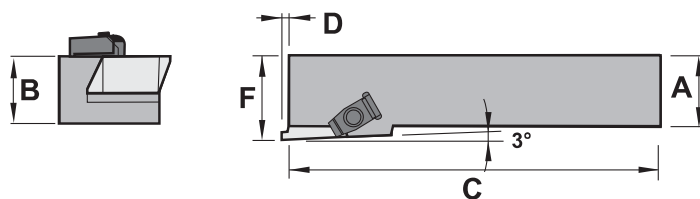
The patented grooving chip control design works in multidirectional turning, as well as radial feed applications. The design also provides excellent chip evacuation in deep grooving applications. ProNotch Insert technology brings chip control to our threading operations. Unlike competitive designs, this patented recessed chip groove, when used according to our recommendations, will break the chip in most applications. This positive rake design lowers cutting pressures which in turn lowers heat generation that also leads to better tool life. Long stringy chips no longer mar the work surface finish. The danger to operators when removing long chips from the workpiece and chuck is eliminated. All of these benefits combine to improve the productivity of your threading operations.

Carbide grades

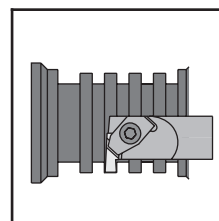
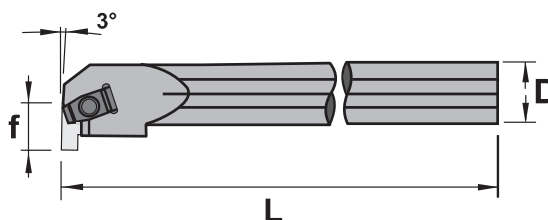
The available carbide grades offer you outstanding performance. Combined with the strength and rigidity of the ProNotch insert design, the grades are able to withstand the unusually harsh demands placed on the cutting edge. Included are uncoated grades, PVD coated grades, and CVD coated grades to match your application needs.



PRONOTCH TOOLHOLDERS



DESIGNATION	DIMENSIONS					INSERT (see pages 61-67)	SPARE PARTS			
	A	B	C	D	F		Shim	Shim Screw	Clamp RH/LH	Clamp Screw
CLSR/L 12-2B	.750	.750	4.5	.160	1.000	SIZE 2	---	---	TF-74/TF-75	C-1291
CLSR/L 16-2B	1.000	1.000	6.0	.160	1.250					
CLSR/L 12-3B	.750	.750	4.5	.210	1.000	SIZE 3	---	---	TF-72/TF-73	C-1297
CLSR/L 12-3C	.750	.750	5.0	.210	1.000					
CLSR/L 16-3D	1.000	1.000	6.0	.210	1.250					
CLSR/L 20-3D	1.250	1.250	6.0	.210	1.500	SIZE 4	C-3521	C-1625	TF-72/TF-73	C-1297
CLSR/L 16-4D	1.000	1.000	6.0	.294	1.250					
CLSR/L 20-4D	1.250	1.250	6.0	.294	1.500					

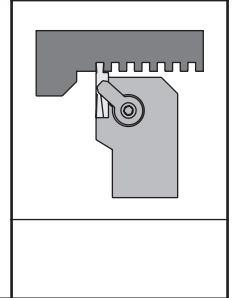
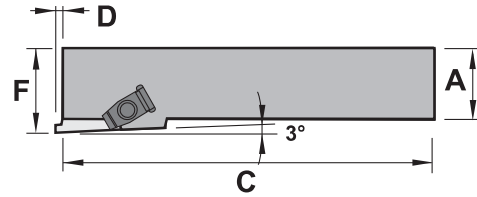
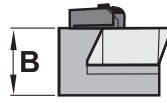
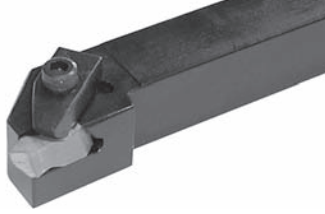


DESIGNATION	DIMENSIONS				INSERT (see pages 61-67)	SPARE PARTS	
	Min. Bore A	D	L	f		Clamp RH/LH	Clamp Screw
A10S-CLER/L-2	1.000	.625	10.00	.500	SIZE 2	TF-75/TF-74	C-1291
A12S-CLER/L-2	1.124	.750	10.00	.562			
A16T-CLER/L-2	1.375	1.000	12.00	.688			
A16T-CLER/L-3	1.375	1.000	12.00	.688	SIZE 3	TF-73/TF-72	C-1297
A20U-CLER/L-3	1.750	1.250	14.00	.875			
A28U-CLER/L-3	2.250	1.750	14.00	1.125			
A32V-CLER/L-3	2.500	2.000	16.00	1.250	SIZE 4		
A28U-CLER/L-4	2.250	1.750	14.00	1.250			
A32V-CLER/L-4	2.750	2.000	16.00	1.375			

** Note: Right-hand bars use left-hand inserts
Left-hand bars use right-hand inserts

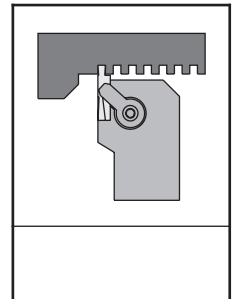
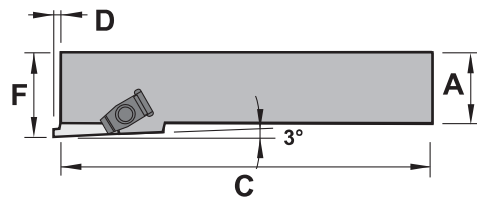
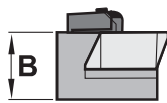
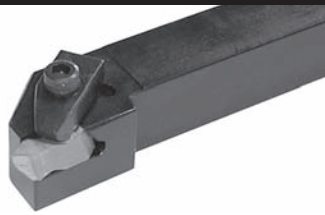
PRONOTCH TOOLHOLDERS

PASR/L



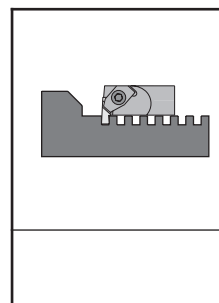
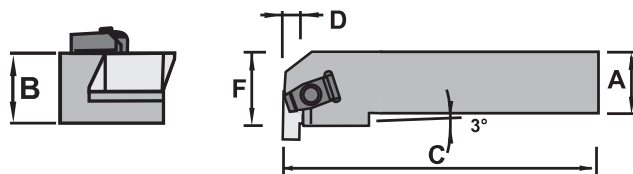
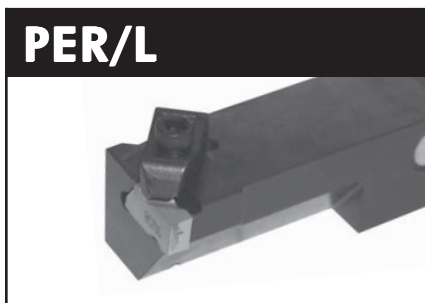
DESIGNATION	DIMENSIONS					INSERT (see pages 61-67)	SPARE PARTS	
	A	B	C	D	F		Clamp RH/LH	Clamp Screw
PASR/L 6-2D	.375	.375	6.00	.138	.375	SIZE 2	CM-182/CM-183	C-1291
PASR/L 8-2D	.500	.500	6.00	.138	.500		CM-184/CM-185	C-1297
PASR/L 8-3D	.500	.500	6.00	.210	.500	SIZE 3		

PSR/L

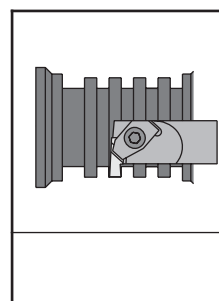
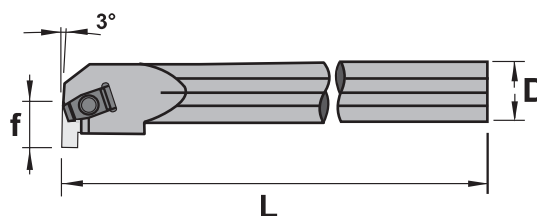


DESIGNATION	DIMENSIONS					INSERT (see pages 61-67)	SPARE PARTS	
	A	B	C	D	F		Clamp RH/LH	Clamp Screw
PSR/L 6-2I	.375	.375	2.50	.138	.562	SIZE 2	TF-74/TF-75	C-1291
PSR/L 8-2J	.500	.500	3.50	.138	.750			

PRONOTCH TOOLHOLDERS



DESIGNATION	DIMENSIONS					INSERT (see pages 61-67)	SPARE PARTS	
	A	B	C	D	F		Clamp RH/LH	Clamp Screw
PER/L 6-2I	.375	.375	2.50	.138	.750	SIZE 2	TF-75/TF-74	C-1291
PER/L 8-2J	.500	.500	3.50	.138	.750			
PER/L 10-2B	.625	.625	4.50	.138	.750			
PER/L 12-2B	.750	.750	4.50	.138	1.000			
PER/L 16-2C	1.000	1.000	5.00	.138	1.250			
PER/L 12-3B	.750	.750	4.50	.210	1.125	SIZE 3	TF-73/TF-72	C-1297
PER/L 16-3C	1.000	1.000	5.00	.210	1.250			
PER/L 16-3D	1.000	1.000	6.00	.210	1.250			
PER/L 20-3D	1.250	1.250	6.00	.210	1.500			
PER/L 16-4C	1.000	1.000	5.00	.294	1.375	SIZE 4	TF-73/TF-72	C-1297
PER/L 16-4D	1.000	1.000	6.00	.294	1.375			
PER/L 20-4D	1.250	1.250	6.00	.294	1.625			



DESIGNATION	DIMENSIONS				INSERT (see pages 61-67)	SPARE PARTS	
	Min. Bore A	D	L	f		Clamp RH/LH	Clamp Screw
E08R-PER/L-2	.730	.500	8.00	.437	SIZE 2	CM-147/CM-146	S-39
E10S-PER/L-2	1.000	.625	10.00	.500		TF-75/TF-74	C-1291
E12S-PER/L-2	1.125	.750	10.00	.562		TF-73/TF-72	C-1297
E16T-PER/L-3	1.375	1.000	12.00	.688	SIZE 3	TF-73/TF-72	C-1297

* Carbide Shank Boring Bars with Coolant Through.

** Note: Right-hand bars use left-hand inserts
Left-hand bars use right-hand inserts