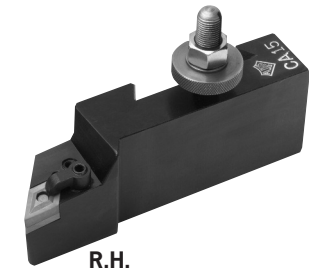


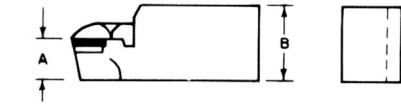
QUICK CHANGE PROFILING TOOL HOLDERS

#115 & #115L



PROFILING TOOL HOLDERS

Available with right or left hand design for front or rear turning, profiling and contouring operations. Design features include: Unique, positive locking of insert is accomplished by the two-way force exerted by locking pin and the locking screw. Insert is held down and tight against the shoulders. Clamp lock insures extra rigidity of insert and holds chip-breaker, when used, securely in place. Choice of various diamond shaped inserts provides adaptation to positive or negative rake profiling. Available in Model #15 (right hand) or #15L (left hand), dovetail mounting design assures maximum repeating accuracy when used with standard Aloris Tool Post. Holder supplied with shim and clamp.



AXA SERIES					
ORDER # AXA-115		ORDER # AXA-115L			
PRICE EA. \$276.00		PRICE EA. \$276.00			
A	B	PROFILING INSERT			
		I.C.	THICK	RAKE	
1"	1 1/2"	3/8"	3/16 - 1/4"	POS. or NEG.	
LOCK SCREWS				ORDER # LS-15* PRICE EA. \$13.75	
HEX LOCKING PINS				ORDER # LP-15* PRICE EA. \$16.50	
CLAMPS				ORDER # ACK-12* PRICE EA. \$14.85	
CLAMP SCREW				ORDER # ASTC-4* PRICE EA. \$3.96	
CARBIDE SHIMS (SEATS)				ORDER # SM-117* PRICE EA. \$19.80	
HEIGHT ADJUSTMENT ASSEMBLY				ORDER # AXA-HA* PRICE EA. \$12.60	

Carbide inserts listed at bottom of this page, and full selection on pages 49 – 54.

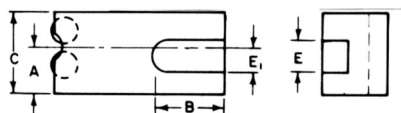
QUICK CHANGE KNURLING TOOL HOLDERS

#10



KNURLING, FACING AND TURNING HOLDER

For turning and facing as well as knurling. Supplied with a set of high speed precision ground and lapped medium diamond knurls. Easily replaceable. Holder supplied with 2 knurls.



AXA SERIES						
ORDER # AXA-10		ORDER # AXA-10				
PRICE EA. \$127.00		PRICE EA. \$127.00				
A	B	C	E	E ₁	TOOL BIT	
7/8"	2 1/2"	1 9/16"	1/2"	3/8"	3/16 - 1/2"	
HEIGHT ADJUSTMENT ASSEMBLY				ORDER # AXA-HA* PRICE EA. \$12.60		

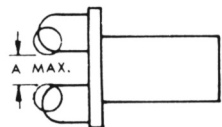
#19



ADJUSTABLE KNURLING HOLDER

...excellent knurling, with approach adjustability, is provided with the newly designed #19 knurling holder. The #19 is self-centering and is adjusted by means of a threaded spindle with left and right hand threads, providing the ideal near-vertical-axis approach angle for a wide range of stock diameters. Spindle and cross-slide pressure are minimal, thus knurling of thin wall tubing is easily performed.

The Aloris #19, which is designed for use in any standard turret tool post or other open-slot holder, is also available with dovetail mounting (series 19) to fit Aloris tool posts. Precision ground, 3/4" O.D. x 3/8" wide, high-speed medium diamond knurls are supplied unless otherwise specified.



ORDER # AXA-19		ORDER # AXA-19				
PRICE EA. \$332.00		PRICE EA. \$332.00				
A	KNURL SIZE					
2"	3/4" x 1/4" x 3/8"					
HEIGHT ADJUSTMENT ASSEMBLY				ORDER # AXA-HA* PRICE EA. \$12.60		

CARBIDE PROFILING INSERTS FOR 15 & 15L PROFILE TOOLS[†]

STYLE	RAKE	I.C.	T	R	INSERT ORDER #	GRADE	
						A2/A6	767
STYLE DNGA	- NEGATIVE	3/8"	3/16"	1/32"	DNGA-532*	\$16.70	\$32.45
STYLE DNMG	5° NEGATIVE	3/8"	3/16"	1/32"	DNMG-532* DNMS-532	\$18.60	\$26.15
STYLE DNMZ	5° POSITIVE	3/8"	1/4"	1/32"	DNMZ-542* DNMS-542	\$20.45	\$28.75

Inserts are priced individually, however, they must be purchased in packages of 10.



TECHNICAL DATA:
DIMENSIONS – CAPACITIES – MODELS

BXA SERIES					CXA SERIES					CA SERIES					DA SERIES					EA SERIES				
ORDER # BXA-115 PRICE EA. \$299.00		ORDER # BXA-115L PRICE EA. \$299.00			ORDER # CXA-115 PRICE EA. \$319.00		ORDER # CXA-115L PRICE EA. \$319.00			ORDER # CA-115 PRICE EA. \$349.00		ORDER # CA-115L PRICE EA. \$349.00			ORDER # DA-115 PRICE EA. \$407.00		ORDER # DA-115L PRICE EA. \$407.00							
A	B	PROFILING INSERT				A	B	PROFILING INSERT				A	B	PROFILING INSERT				A	B	PROFILING INSERT				
		I.C.	THICK	RAKE				I.C.	THICK	RAKE				I.C.	THICK	RAKE				I.C.	THICK	RAKE		
1"	1 5/8"	5/8"	3/16"–1/4"	POS. or NEG.	1 1/8"	2"	5/8"	3/16"–1/4"	POS. or NEG.	1 1/2"	2 1/4"	5/8"	3/16"–1/4"	POS. or NEG.	1 3/4"	2 7/8"	5/8"	3/16"–1/4"	POS. or NEG.					
ORDER # LS-15* PRICE EA. \$13.75					ORDER # LS-15* PRICE EA. \$13.75					ORDER # LS-15* PRICE EA. \$13.75					ORDER # LS-15* PRICE EA. \$13.75									
ORDER # LP-15* PRICE EA. \$16.50					ORDER # LP-15* PRICE EA. \$16.50					ORDER # LP-15* PRICE EA. \$16.50					ORDER # LP-15* PRICE EA. \$16.50									
ORDER # ACK-12* PRICE EA. \$14.85					ORDER # ACK-12* PRICE EA. \$14.85					ORDER # ACK-12* PRICE EA. \$14.85					ORDER # ACK-12* PRICE EA. \$14.85									
ORDER # ASTC-4* PRICE EA. \$3.96					ORDER # ASTC-4* PRICE EA. \$3.96					ORDER # ASTC-4* PRICE EA. \$3.96					ORDER # ASTC-4* PRICE EA. \$3.96									
ORDER # SM-117* PRICE EA. \$19.80					ORDER # SM-117* PRICE EA. \$19.80					ORDER # SM-117* PRICE EA. \$19.80					ORDER # SM-117* PRICE EA. \$19.80									
ORDER # BXA-HA* PRICE EA. \$12.60					ORDER # CXA-HA* PRICE EA. \$13.20					ORDER # CA-HA* PRICE EA. \$15.60					ORDER # DA-HA* PRICE EA. \$19.25									



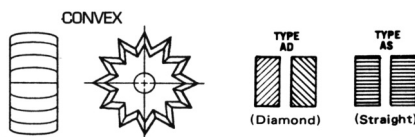
TECHNICAL DATA:
DIMENSIONS – CAPACITIES – MODELS

BXA SERIES							CXA SERIES							CA SERIES							DA SERIES							EA SERIES						
ORDER # BXA-10 PRICE EA. \$149.00							ORDER # CXA-10 PRICE EA. \$169.00							ORDER # CA-10 PRICE EA. \$184.00							ORDER # DA-10 PRICE EA. \$265.00													
A	B	C	E	E ₁	TOOL BIT		A	B	C	E	E ₁	TOOL BIT		A	B	C	E	E ₁	TOOL BIT		A	B	C	E	E ₁	TOOL BIT								
1"	2 5/8"	1 3/4"	5/8"	1/2"	1/4" – 5/8"		1 1/16"	3 1/8"	2"	3/4"	5/8"	1/2" – 3/4"		1 7/16"	3 3/4"	2 1/2"	1"	3/4"	1/2" – 1"		1 7/8"	4 1/2"	3 1/8"	1 1/4"	1"	1/2" – 1 1/4"								
ORDER # BXA-HA* PRICE EA. \$12.60							ORDER # CXA-HA* PRICE EA. \$13.20							ORDER # CA-HA* PRICE EA. \$15.60							ORDER # DA-HA* PRICE EA. \$19.25													
ORDER # BXA-19 PRICE EA. \$347.00							ORDER # CXA-19 PRICE EA. \$367.00							ORDER # CA-19 PRICE EA. \$379.00							ORDER # DA-19 PRICE EA. \$413.00													
A		KNURL SIZE					A		KNURL SIZE					A		KNURL SIZE					A		KNURL SIZE											
2"		3/4" x 1/4" x 3/8"					2"		3/4" x 1/4" x 3/8"					2"		3/4" x 1/4" x 3/8"					2"		3/4" x 1/4" x 3/8"											
ORDER # BXA-HA* PRICE EA. \$12.60							ORDER # CXA-HA* PRICE EA. \$13.20							ORDER # CA-HA* PRICE EA. \$15.60							ORDER # DA-HA* PRICE EA. \$19.25													

REPLACEMENT KNURLS

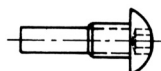
HIGH SPEED KNURLS

For #10 & #19 Holders:
AD-Diamond/AS-Straight/NEW – Convex
Hi-Cobalt (ACD-Spiral & ACS-Straight)



KNURL ORDER #	AD16R/AD16L/AS16* ACD16R/ACD16L/ACS16*	AD20R/AD20L/AS20/AD25R* AD25L/AS25/ACD20R/ACD20L* ACS20/ACD25R/ACD25L/ACS25*	AD50R/AD50L/AS50* ACD50R/ACD50L/ACS50*
	COARSE	MEDIUM	FINE
PRICE EA.	\$16.00 AD & AS		
	\$38.00 ACD & ACS (NEW) TiN COATED		

KNURL-LOCK SCREW



ORDER #	SCR-10*	Used with any #10 and 19 holder
PRICE EA.	\$7.80	