

KV Tooling Systems



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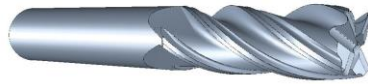
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KV-"XFLUTE"

HIGH PERFORMANCE

UNEQUAL PITCH /HELIX END MILL



ALX TX7

*Increases productivity of your machining process
by allowing your machines to remove stock at a faster rate*

FEATURES:

- *UNEQUAL PITCH AND HELIX , ELIMINATES CHATTER - PRODUCING HARMONICS
- *CORNER RADIUS STANDARD
- *ALX COATED
- *UNIQUE EDGE PREP
- *ROBUST FLUTE CORE DIA FOR DURABILITY IN HEAVY CUTS
- *RAISED LAND FLUTES PROVIDE EXCELLENT CHIP CLEARANCE AND PROVIDES A CHANNEL FOR COOLANT TO FLOW DOWN PERIPHERY
- *RE-GRINDABLE WITH VIRTUALLY NO-LOSS OF PERFORMANCE
- *WELDON FLATS AVAILABLE
- *EXCELLENT CHIP EVACUATION
- *.0002 T.I.R. MAX SHANK TO EDGE
- *RADIUS GASH FOR STRENGTH

XF SERIES

STD WITH ALX COATING

DIA	SHANK DIA	CORNER R.	FLUTE LG	OAL	ITEM#
1/4	1/4	0.015	5/8	2 1/2	XF2500
5/16	5/16	0.015	3/4	2 1/2	XF3125
3/8	3/8	0.02	7/8	2 1/2	XF3750
1/2	1/2	0.02	1 1/4	3	XF5000
5/8	5/8	0.03	1 3/8	3 1/2	XF6250
3/4	3/4	0.03	1 1/2	4	XF7500

*AVAILABLE WITHOUT CORNER RADIUS



ALX SERIES

VARIABLE PITCH/HELIX 3 FLUTE END MILLS
DESIGNED FOR MILLING ALUMINUM



ALX TX7



- FEATURES:**
- *DUAL HOOK DESIGN CREATES DESIRABLE CHIP EVACUATION ANGLE
 - *"DUBBED" GASH END RETAINS CORNER LONGER
 - * MINIMAL CYLINDRICAL LAND AT OD PROVIDES MIRROR FINISHES
 - * VARIABLE PITCH MINIMIZES CHATTER AT HIGH SPEEDS AND FEEDS
 - * 4 DEGREE END DISH FOR GREATER RAMPING ABILITY AND CUTTING CLEARANCE
 - *EXCELLENT CHIP EVACUATION
 - ZrN COATING RAMPS IT UP A NOTCH!
 - *WELDON FLATS AVAILABLE

*AVAILABLE WITH CORNER RADIUS

ALX SERIES

DIA	SHANK DIA	FLUTE LG	OAL	UNCOATED ITEM #	ZRN ITEM #
1/8	1/8	1/2	2	ALX1250	ALX1250Z
3/16	3/16	5/8	2 1/2	ALX1875	ALX1875Z
1/4	1/4	5/8	2 1/2	ALX2500	ALX2500Z
5/16	5/16	3/4	2 1/2	ALX3125	ALX3125Z
3/8	3/8	7/8	2 1/2	ALX3750	ALX3750Z
1/2	1/2	1 1/4	3	ALX5000	ALX5000Z
5/8	5/8	1 3/8	3 1/2	ALX6250	ALX6250Z
3/4	3/4	1 1/2	4	ALX7500	ALX7500Z



RGH SERIES

**MEDIUM PITCH KNUCKLE TOOTH ROUGHER
DESIGNED FOR MILLING STEEL**

- FEATURES:**
- *REDUCED FLUTE DEPTH AND KNUCKLE PROFILE PROVIDES TOOL STRENGTH*
 - *"DUBBED" GASH END IS STRONGER IN HEAVY CUTS*
 - * AUTOMATIC CHAMFERED EDGE RETIANS CORNER*
 - * TIALN COATING STANDARD*
 - *30 DEGREE HELIX*
 - *WELDON FLATS AVAILABLE*

RGH SERIES

				STD WITH TIALN COATING
DIA	SHANK DIA	FLUTE LG	OAL	ITEM #
1/2	1/2	1-1/4	3	RGH5000



ENG SERIES

**SOLID CARBIDE DOUBLE ENDED BLADE STYLE ENGRAVER TOOL
 DESIGNED FOR FINE ENGRAVING AND CHAMFERING/DEBURRING
 IN STEEL AND ALUMINUM**

USES:
 -FINE DEBURRING IN CNC MACHINIING CENTERS
 -CHAMFERING
 -ENGRAVING IN STEEL AND ALUMINUM

FEATURES: *2 FLUTE FOR FASTER FEEDS
 *DOUBLE ENDED
 * BLADE STYLE WITH FINE WEB MAKES IT MORE VERSATILE THAN SINGLE FLUTE
 *PRICED FOR SINGLE USE -NO REGRINDING NECESSARY
 *SOLID CARBIDE

ENG SERIES

	DIA	SHANK DIA	FLUTE LG	OAL	POINT ANGLE	UNCOATED	TIALN COATED
						ITEM #	ITEM #
	1/8	1/8	N/A	2	90 DEG INCL	ENG90DE	ENG90DE-T
	1/8	1/8	N/A	3	90 DEG INCL	ENG90DE LG	ENG90DE LG-T
WITH .005" WEB FOR FINE ENGRAVING	1/8"	1/8"	NA	2	90 DEG INCL	END90DE-A	ENG90DE-A-T



CM SERIES

SOLID CARBIDE SINGLE ENDED CHAMFER MILLS

DESIGNED FOR MILLING CHAMFERS ON FERROUS AND NON FERROUS MATERIALS

USES:

- MILLS ON THE TIP ONLY, 2 FLUTERS ARE CENTER CUTTING
- CHAMFERING, ANGLE MILLING
- 2 FLUTERS CAN BE USED AS SPOTTING TOOLS OR ENGRAVERS

FEATURES: FACET GROUND

SOLID SUB-MICROGRAIN CARBIDE MANUFACTURED ON CNC GRINDING CENTERS

IN STOCK AND READY TO PERFORM

RE-GRINDABLE

POINT ANGLE PER SIDE	DIA	SHANK DIA	LOC	OAL	UNCOATED	TIALN COATED
					ITEM# 2 FLUTE	ITEM# 2 FLUTE
45	3/16	3/16	N/A	2-1/2	CM1875 902	CM1875 902T
	1/4	1/4	N/A	2-1/2	CM2500 902	CM2500 902T
	3/8	3/8	N/A	2-1/2	CM3750 902	CM3750 902T
	1/2	1/2	NA	3	CM5000 902	CM5000 902T