

CGS

STORM

ECCENTRIC



3 FLUTE HI-HELIX "HEAVY DUTY"

Performance Matters

SQUARE END

3000 SERIES

SQUARE END

EDP #	DIA	SHANK	LOC	OAL	RADIUS
3001	1/8	1/8	1/2	1-1/2	NO
3003	3/16	1/4	5/8	2-1/2	NO
3006	1/4	1/4	3/4	2-1/2	NO
3009	5/16	5/16	13/16	2-1/2	NO
3012	3/8	3/8	1	2-1/2	NO
3015	7/16	7/16	1	3	NO
3018	1/2	1/2	1	3	NO
3024	5/8	5/8	1-1/4	3-1/2	NO
3030	3/4	3/4	1-1/2	4	NO
3033	1	1	1-1/2	4	NO

60 DEGREE HI HELIX CARBIDE END MILLS

- ✓ FOR FASTER, EASIER, AND MORE PRODUCTIVE CNC MACHINING WHEN COMMON ORDINARY END MILLS 'JUST CAN'T CUT IT'.
- ✓ FOR MAXIMUM SPEEDS, FEEDS, SURFACE FINISHES, AND TOOL LIFE. FOR BETTER MACHINING OF HARD EXOTIC METALS INCLUDING TITANIUM ALLOYS, INCONELS, ALLOY STEELS, AND STAINLESS STEELS.

CONSIDER THESE ADVANTAGES:

- ✓ **100% CNC PRECISION GROUND** WITH ECCENTRIC FORM RELIEF PRODUCING SUPERIOR CUTTING EDGE STRENGTH AND DURABILITY.
- ✓ **FREE CUTTING GEOMETRY** REDUCES CUTTING FORCE AND SIDE LOAD FOR MAXIMUM TRANSVERSE RUPTURE STRENGTH AND LESS TOOL DEFLECTION.
- ✓ **AVAILABLE WITH PVD COATINGS**
- ✓ **COMPLETE CNC REGRINDING SERVICE** RESTORES TOOLS TO ORIGINAL GEOMETRIES
- ✓ **AVAILABLE WITH RADIUS FOR STRONGER CORNERS**

THESE END MILLS HAVE CONSISTENTLY OUTPERFORMED ALL OTHERS IN TESTING AND EVALUATIONS CONDUCTED BY MAJOR AEROSPACE AND MEDICAL EQUIPMENT MANUFACTURERS ACROSS THE COUNTRY.

XL LENGTH

*** ALL ITEMS ***
ADD THE FOLLOWING AFTER EDP#
-UC = UNCOATED
-ALTIN = ALTiN COATED

	COMPETITORS TOOL	CGS TOOL	COMPETITORS TOOL	CGS TOOL	COMPETITORS TOOL	CGS TOOL
MATERIAL TYPE	INC 718	INC 718	IRON CLASS 30	IRON CLASS 30	316 STAINLESS	316 STAINLESS
HARDNESS	37 RC	37 RC	214-240 BN	214-240 BM	162 BRINELL	162 BRINELL
TOOL MATERIAL	SOLID CARBIDE	CGS STORM	CARBIDE INSERT	CGS STORM	M-42	CGS STORM
NUMBER OF FLUTES	4	4	8	4	6	3
CUTTER SIZE	1"	1"	8"	1"	1"	1"
CUTTER DEPTH	.125	.225	.150-200	.150	900	.900
RADIAL DEPTH OF CUT	.200	.375	SLOT	SLOT	.050	.100
S.F.M. OR R.P.M.	17 S.F.M.	60 S.F.M.	250 S.F.M.	250 S.F.M.	250 R.P.M.	750 R.P.M.
I.P.M. OR TOOTH	.001 I.P.T	.0035 I.P.T	6.40 I.P.M.	40.0 I.P.M.	41 I.P.M.	15 I.P.M.
COATING TYPE	TIN	ALTIN	TIN	ALTIN	NONE	NONE

3100XL SERIES

LONG LENGTH

EDP #	DIA	SHANK	LOC	OAL	RADIUS
3103	3/16	1/4	1	2-1/2	NO
3106	1/4	1/4	1	2-1/2	NO
3109	3/8	3/8	1-1/2	3	NO
3115	1/2	1/2	2	4	NO
3116	5/8	5/8	1-3/4	4	NO
3121	3/4	3/4	2	4	NO
3124	3/4	3/4	2-1/2	5	NO
3127	3/4	3/4	3-1/2	6	NO
3136	1	1	4	6-1/2	NO



**DIVISION OF
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