

# Aluma-Flo<sup>®</sup> High Performance

**CONTOUR360<sup>®</sup>**  
cutting tool technologies

## End Mills for Aluminum

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cutting tool technologies

### New Solid Carbide High Performance Features Include:

- \*Reduce Cycle Time - one tool for roughing, finishing, slot and profile cuts
- \*Promotes dynamic chip movement at high velocity
- \*Specifically Designed for Aluminum
- \*High Performance Zirconium Nitride (ZrN) coating
- \*3 Flute, variable helix angle, center cutting
- \*Available in stub, regular and long lengths



New High Performance ZrN coating



New Variable Helix Geometry for superior performance

### Three Flute

Cutter Dia	Shank Dia	Flute Length	Overall Length	Item #
1/8	1/8	1/2	1-1/2	NC43050
3/16	3/16	5/16	2	NC43S58
3/16	3/16	5/8	2	NC43058
1/4	1/4	1/2	2	NC43S66
1/4	1/4	3/4	2-1/2	NC43066
1/4	1/4	1-1/4	3	NC43L66
5/16	5/16	13/16	2-1/2	NC43070
3/8	3/8	1/2	2	NC43S74
3/8	3/8	1	2-1/2	NC43074
3/8	3/8	1-1/2	3-1/2	NC43L74
7/16	7/16	1	2-3/4	NC43078
1/2	1/2	5/8	2-1/2	NC43S82
1/2	1/2	1-1/4	3	NC43082
1/2	1/2	2	4	NC43L82
9/16	9/16	1-1/4	3	NC43083
5/8	5/8	7/8	3	NC43S84
5/8	5/8	1-1/4	3-1/2	NC43084
5/8	5/8	2-1/2	6	NC43L84
3/4	3/4	1	3-1/2	NC43S86
3/4	3/4	1-1/2	4	NC43086
3/4	3/4	3	6	NC43L86
1	1	1	3-1/2	NC43S90
1	1	1-1/2	4	NC43090
1	1	3	6	NC43L90

Save Time...Save Money!



Don't see what your looking for? Other sizes are available upon request.

Ensure adequate coolant is applied for maximum tool life

### Recommended Starting Parameters for Speeds & Feeds

Diameter	SFM Range	IPT	Recommended DOC	
			Slot	Profile
1/4	1000-2500	.004-.006	0.125	0.250 - 0.375
5/16	1000-2500	.005-.007	0.150	0.300 - 0.450
3/8	1000-2500	.007-.009	0.200	0.375 - 0.550
1/2	1000-2500	.006-.010	0.250	0.500 - 0.750
5/8	1000-2500	.008-.012	0.300	0.625 - 0.900
3/4	1000-2500	.010-.014	0.400	0.750 - 1.125
1	1000-2500	.008-.016	0.500	1.000 - 1.500

Reduce feed rate by 20% when using long length tools