



End Mills featuring high efficiency at speeds as low as 3,000 RPM and provide maximum performance at speeds of 10,000 RPM and higher!

Our flute designs are engineered to create less drag on the spindle and draw less power.

Applications for roughing and/or finishing can be accomplished with either low or high horsepower.

These selected families of End Mills provide maximum performance in following materials:

- | | |
|--------------------------------------|--------------------------|
| Aluminum Alloys | Die Cast Aluminum |
| High Silicon Aluminum | Extruded Metal Materials |
| Brass, Bronze, and Copper Alloys | Non-Ferrous Materials |
| Composites, Fiberglass, and Plastics | Magnesium Alloys |

MATERIAL TYPES	Type of Cut	Axial D.O.C.	Radial D.O.C.	No. of Flutes	SFM (Vc)	Cutter Diameter Chip Load per Tooth (Fz)						
						1/8	1/4	3/8	1/2	5/8	3/4	1
Materials												
Aluminum / Aluminum Alloys												
2024, 6061, 7075	Slotting	D x 1	D x 1	2	800	.0020	.0040	.0060	.0080	.0100	.0120	.0160
	Roughing	D x 1	D x .75	3	1000	.0020	.0050	.0075	.0100	.0120	.0150	.0200
	Finishing	D x 1.5	D x .01	3	1200	.0030	.0060	.0090	.0120	.0160	.0200	.0250
High Silicone Aluminum												
A380, A390	Slotting	D x 1	D x 1	3	400	.0010	.0020	.0030	.0040	.0050	.0060	.0080
	Roughing	D x 1	D x .75	3	600	.0015	.0030	.0045	.0060	.0075	.0090	.0120
	Finishing	D x 1.5	D x .01	3	800	.0018	.0035	.0055	.0070	.0090	.0110	.0140
Brass / Bronze / Copper Alloys												
High Lead Brass, Red Brass, Yellow Brass, Naval Brass, Low Silicon Brass, Beryllium Copper, Nickel Silver, Oxygen Free Copper	Slotting	D x .75	D x 1	2	400	.0010	.0020	.0030	.0040	.0050	.0060	.0080
	Roughing	D x 1	D x .75	3	475	.0012	.0025	.0037	.0050	.0063	.0075	.0100
	Finishing	D x 1.5	D x .01	3	550	.0015	.0030	.0045	.0060	.0075	.0090	.0120
Composites, Fiberglass, Plastics												
Acrylics, Fiberglass, Glass Epoxy, Phenolics, Plastics	Slotting	D x 1	D x 1	3	400	.0010	.0020	.0030	.0040	.0050	.0060	.0080
	Roughing	D x 1	D x .75	3	600	.0015	.0030	.0045	.0060	.0075	.0090	.0120
	Finishing	D x 1.5	D x .01	3	800	.0018	.0035	.0055	.0070	.0090	.0110	.0140
Magnesium Alloys												
	Slotting	D x 1	D x 1	2	800	.0020	.0040	.0060	.0080	.0100	.0120	.0160
	Roughing	D x 1	D x .75	3	1000	.0020	.0050	.0075	.0100	.0120	.0150	.0200
	Finishing	D x 1.5	D x .01	3	1200	.0030	.0060	.0090	.0120	.0160	.0200	.0250

The Machining Data shown below, is considered to be "safe starting conditions" and may need to be adjusted to obtain optimal tool performance.

Safety precautions must be implemented including safety glasses and machine shields to protect the operator and/or observers from hot flying chips.

Our Technical Team is ready to offer solutions for that difficult machining application. Whether you need tool specific speeds, feeds, depth of cuts, grade selection(s) or any questions and/or concerns regarding the application of MICRO 100 Solid Carbide Cutting Tools, they are there to help!

