



3300 Series 3-Flute End Mill is offered in an extensive variety of configurations.

	Hi Si Aluminum (>10%) Recommended in Unique Situations					Low Si Aluminum (<10%) (1000-1600) SFM (ft/min)					Brass & Copper (400-600) SFM (ft/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
1/8"	-	-	-	-	-	.0010	.0015	.0010	.0015	.0010	.0008	.0010	.0008	.0010	.0008
1/4"	-	-	-	-	-	.0030	.0035	.0030	.0035	.0030	.0015	.0020	.0015	.0020	.0015
3/8"	-	-	-	-	-	.0045	.0050	.0045	.0050	.0045	.0025	.0030	.0025	.0030	.0025
1/2"	-	-	-	-	-	.0065	.0070	.0065	.0070	.0065	.0030	.0035	.0030	.0035	.0030
3/4"	-	-	-	-	-	.0085	.0090	.0085	.0090	.0085	.0035	.0040	.0035	.0040	.0035
1"	-	-	-	-	-	.0100	.0110	.0100	.0110	.0100	.0040	.0045	.0040	.0045	.0040

IPT (in/tooth)

	Cast Iron (250-400) SFM (ft/min)					Steels (200-500) SFM (ft/min)					Stainless Steels (130-300) SFM (ft/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
1/8"	.0007	.0009	.0007	.0009	.0007	.0007	.0009	.0007	.0009	.0007	.0006	.0008	.0006	.0008	.0006
1/4"	.0014	.0020	.0014	.0020	.0014	.0015	.0020	.0015	.0020	.0015	.0014	.0017	.0014	.0017	.0014
3/8"	.0022	.0026	.0022	.0026	.0022	.0023	.0026	.0023	.0026	.0023	.0022	.0022	.0022	.0022	.0022
1/2"	.0025	.0034	.0025	.0034	.0025	.0026	.0034	.0026	.0034	.0026	.0023	.0029	.0023	.0029	.0023
3/4"	.0028	.0045	.0028	.0045	.0028	.0030	.0045	.0030	.0045	.0030	.0025	.0040	.0025	.0040	.0025
1"	.0035	.0050	.0035	.0050	.0035	.0040	.0050	.0040	.0050	.0040	.0030	.0045	.0030	.0045	.0030

IPT (in/tooth)

	Super Alloys (Nickel Based, Inconel) (65-130) SMM (ft/min)					Titanium (120-210) SMM (ft/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
1/8"	.0004	.0005	.0004	.0005	.0004	.0004	.0006	.0004	.0006	.0004
1/4"	.0008	.0009	.0008	.0009	.0008	.0008	.0012	.0008	.0012	.0008
3/8"	.0011	.0011	.0011	.0011	.0011	.0012	.0016	.0012	.0016	.0012
1/2"	.0014	.0015	.0014	.0015	.0014	.0016	.0022	.0016	.0022	.0016
3/4"	.0020	.0021	.0020	.0021	.0020	.0020	.0029	.0020	.0029	.0020
1"	.0023	.0025	.0023	.0025	.0023	.0028	.0035	.0028	.0035	.0028

IPT (in/tooth)

Not Recommended for Composites, Plastics, Graphite, or Hardened Steels > 48 RC.
High Si Aluminum Recommended in Unique Situations.

The parameters listed for tool series that are stocked uncoated are based on running an uncoated tool.

If a coating is applied to the tools, the SFM can be increased by approximately 25%.
 All speed and feed recommendations should be considered only as a starting point.
 Start with conservative speeds and feeds while analyzing the rigidity of the process.
 Then cautiously progress incrementally to achieve optimum performance.

Contact Engineering at 800.248.8315 or engineering@fullertontool.com



3300 Series 3-Flute End Mill is offered in an extensive variety of configurations.

	High Si Aluminum (>10%) Recommended in Unique Situations					Low Si Aluminum (<10%) (304-487) SMM (m/min)					Brass & Copper (121-182) SMM (m/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
3	-	-	-	-	-	.0254	.0381	.0254	.0381	.0254	.0203	.0254	.0203	.0254	.0203
6	-	-	-	-	-	.0762	.0889	.0762	.0889	.0762	.0381	.0508	.0381	.0508	.0381
10	-	-	-	-	-	.1143	.1270	.1143	.1270	.1143	.0635	.0762	.0635	.0762	.0635
12	-	-	-	-	-	.1651	.1778	.1651	.1778	.1651	.0762	.0889	.0762	.0889	.0762
20	-	-	-	-	-	.2159	.2286	.2159	.2286	.2159	.0889	.1016	.0889	.1016	.0889
25	-	-	-	-	-	.2540	.2794	.2540	.2794	.2540	.1016	.1143	.1016	.1143	.1016

IPT (in/tooth)

	Cast Iron (76-121)SMM (m/min)					Steels (60-152) SMM (m/min)					Stainless Steels (39-91) SMM (m/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
3	.0178	.0229	.0178	.0229	.0178	.0178	.0229	.0178	.0229	.0178	.0152	.0203	.0152	.0203	.0152
6	.0356	.0508	.0356	.0508	.0356	.0381	.0508	.0381	.0508	.0381	.0356	.0432	.0356	.0432	.0356
10	.0559	.0660	.0559	.0660	.0559	.0584	.0660	.0584	.0660	.0584	.0559	.0559	.0559	.0559	.0559
12	.0635	.0864	.0635	.0864	.0635	.0660	.0864	.0660	.0864	.0660	.0584	.0737	.0584	.0737	.0584
20	.0711	.1143	.0711	.1143	.0711	.0762	.1143	.0762	.1143	.0762	.0635	.1016	.0635	.1016	.0635
25	.0889	.1270	.0889	.1270	.0889	.1016	.1270	.1016	.1270	.1016	.0762	.1143	.0762	.1143	.0762

IPT (in/tooth)

	Super Alloys (Nickel Based, Inconel) (19-39) SMM (m/min)					Titanium (36-64) SMM (m/min)				
	Slotting	Plunge	Rough	Finish	Pocket	Slotting	Plunge	Rough	Finish	Pocket
Axial Depth	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)	< (1xD)	< (1xD)	1.5xD	1xD	< (1xD)
Radial Width	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD	full	full	(.3-.5)xD	(.010-.015)	(.3-.5)xD
3	.0102	.0127	.0102	.0127	.0102	.0102	.0152	.0102	.0152	.0102
6	.0203	.0229	.0203	.0229	.0203	.0203	.0305	.0203	.0305	.0203
10	.0279	.0279	.0279	.0279	.0279	.0305	.0406	.0305	.0406	.0305
12	.0356	.0381	.0356	.0381	.0356	.0406	.0559	.0406	.0559	.0406
20	.0508	.0533	.0508	.0533	.0508	.0508	.0737	.0508	.0737	.0508
25	.0584	.0635	.0584	.0635	.0584	.0711	.0889	.0711	.0889	.0711

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