

















(METRIC)

Multi Extreme

Recommended Cutting Data for Face Milling with -HF Style

Material	Grade	SFM	IPT	DOC	woc	
Gray Cast Iron	JC8118	600	.060"	.060"080"	70%	
Nodular Cast Iron	JC8118	550	.060"	.040"060"	70%	
Carbon Steel	JC8050	500	.060"	.040"060"	70%	
Low Alloy Steel	JC8050	450	.060"	.040"060"	70%	
Mold Steel	JC8118	400	.060"	.040"060"	60%	
Tool & Die Steel (40-50 HRC)	JC8118	300	.040"	.020"040"	60%	
Stainless (Austenitic) (300 Series)	JC8050	300	.050"	.030"050"	40-60%	
Stainless (Martensitic) (400 Series)	JC8118	400	.050"	.020"040"	40-60%	

Recommended Cutting Data for -SM style, Side & Face Milling

Material	Grade	Side Milling				Face Milling			
		SFM	IPT	DOC	WOC	SFM	IPT	DOC	WOC
Gray Cast Iron	JC8118	700	.012"	.120"	12%	600	.012"	.060"	80%
Nodular Cast Iron	JC8118	650	.012"	.120"	10%	550	.012"	.060"	80%
Carbon Steel	JC8050	600	.012"	.120"	10%	500	.012"	.060"	80%
Low Alloy Steel	JC8050	550	.012"	.120"	10%	450	.012"	.060"	80%
Mold Steel	JC8118	500	.010"	.120"	8%	400	.010"	.060"	80%
Tool & Die Steel (40-50 HRC)	JC8118	400	.006"	.120"	6%	300	.006"	.040"	60%
Stainless (Austenitic) (300 Series)	JC8050	450	.010"	.120"	10%	300	.010"	.050"	60%
Stainless (Martensitic) (400 Series)	JC8118	500	.012"	.120"	10%	400	.012"	.060"	60%

NOTE: 1. These parameters are for stable machining with steel bodies at lengths 4XD. See table below for longer applications.

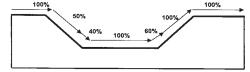
- 2. If chatter occurs, recommend to reduce DOC or spindle speed and maintain IPT.
- 3. If machine does not have enough power, recommend reducing DOC or spindle speed and feed.
- 4. $RPM = 3.82 \times SFM / Dia.$
- 5. IPM = RPM x IPT x # of flutes (or teeth)

Additional Cutting Data For Longer Tools

Reach/Dia.	~4.0	4.0~4.5	4.5~5.3	5.3~5.7	5.7~6.2	6.3~
rpm %	100	90	80	80	75	70
Feed %	100	90	90	80	75	70

NOTE: The above percentages should be applied, according to tool ratio.

Reduced Cutting Data For Cutting Pattern



NOTE: Feed should be reduced when cutting the above pattern