

Soft Plastic Cutting Data

SHEET - 1/2" DIAMETER

APPLICATION	GOOD	BETTER	BEST				
Single Pass	61-000	61-000P	63-750				
Roughing	60-900	81-700	60-000				
Finishing		81-700	60-200				

SHEET - 1/2" DIAMETER

APPLICATION	GOOD	BETTER	BEST			
Single Pass		52-700	52-600			
Roughing	82-100	81-700	60-000			
Finishing		81-700	60-200			

DEPTH OF CUT: 1 x D Use recommended chip load

- 2 x D Reduce chip load by 25%
- 3 x D Reduce chip load by 50%

CHIP LOAD PER TOOTH

Cutting Edge Diameter																						
Series	Cut	1/16	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2
10-00	1 x D	.002004		.004006		.006008		.006010		.006010		.008012										
38-50/ 38-60	1 x D			.001002		.002004		.002006		.002006		.005007		.006008	.007009							
39-00	1 x D																.006008					
52-200B/BL	1 x D	.002004		.002004		.004006		.004006		.004006		.006008		.010012	.012014							
52-400	1 x D			.002004		.003005		.004008		.004008		.006008		.007009								
52-600	1 x D							.008010		.010012		.012014		.014016	.016018							
52-700	1 x D											.012014		.014016	.016018							
56-430	1 x D			.006008		.006008		.006010		.006010		.009011										
56-600	1 x D			.004006		.006008		.008010		.010012		.012014										
57-600	1 x D							.008010		.010012		.012014		.014016	.016018							
60-000	1 x D									.004006		.006008		.008012	.012016							
60-200	1 x D							.004006		.004006		.006010			.012016							
60-470	1 x D							.004006		.004006		.006010			.012016							
60-900	1 x D									.004006		.006008										
61-000P	1 x D			.004006		.006008		.008012		.014018		.018022										
61-400	1 x D			.017019		.017019		.017021		.018022		.020021										
62-750	1 x D			.004006		.006008		.008012		.008012		.010014										
62-850	1 x D			.004006		.006008		.008012		.008012		.010014										
64-000 65-000	1 x D	.002004		.004006		.006008		.008012		.008012												
63-750	1 x D	.002004		.004006		.006008		.008012		.008012		.010014										
63-850	1 x D	.002004		.004006		.006008		.008012		.008012		.010014										
81-700	1 x D							.002004		.003006		.003006		.006010	.010012		.012014					
82-100	1 x D																.003005		.004006	.007009*		

* = 12500 RPM

NOTE: To eliminate rewelding increase the feedrate or change to a single edge tool If using a downcut spiral and chip rewelding occurs, cut a slot in your spoilboard to allow the chips a place to expand Incorrect chiploads can lead to knife marks occurring

FORMULAS: Chip Load = Feed Rate / (RPM x # of cutting edges) Feed Rate = RPM x # of cutting edges x chip load Speed (RPM) = Feed Rate / (# of cutting edges x chip load)



Chipload Instructions and Example

		Example
Instruc	tions	
		63-775 selected to cut Soft Plastic
1.	Find the cutting data for the material being cut	
2.	Find the series number of the selected tool under the	63-750 series
	series column	1/4" diameter tool
3.	Move across until you find the cutting edge diameter of the tool	.008"012" chipload range
4.	Note the chipload range.	Feedrate = RPM x # of cutting edges x chipload.
		18,000 x 1 x .008 = 144 IPM
		18,000 x 1 x .012 = 216 IPM
		(RPM = tools are recommended to cut at 18,000 RPM but the
		customer can vary it based on their machine)