

Soft Plastic Cutting Data Recommendations

SP

< 1/2 DIAMETER TOOL

APPLICATION	GOOD	BETTER	BEST
Single Pass	61-000P	65-000	63-750
Roughing			60-000

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%

≥ 1/2 DIAMETER TOOL

APPLICATION	GOOD	BETTER	BEST
Single Pass	56-600	52-600	52-700
Roughing			60-000

Recommended Chip Load per Tooth by Cutting Diameter (in)																						
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	.002-.004		.004-.006		.006-.008		.006-.008		.007-.009		.008-.010										
37-00/37-20	Varies							.004-.006														
37-50*	1 x D					.003-.006		.003-.006														
37-60*	1 x D									.004-.006		.004-.006			.006-.008		.008-.010					
52-200B/BL	1 x D	.002-.004		.002-.004		.004-.006		.004-.006		.004-.006		.006-.008		.010-.012	.012-.014							
52-600	1 x D							.008-.010		.010-.012		.012-.014		.014-.016	.016-.018							
52-700	1 x D											.012-.014		.014-.016	.016-.018							
56-430	1 x D			.006-.008		.006-.008		.007-.009		.008-.010		.009-.011										
56-600	1 x D			.004-.006		.006-.008		.008-.010		.010-.012		.012-.014										
57-600	1 x D							.008-.010		.010-.012		.012-.014		.014-.016	.016-.018							
60-000	1 x D									.004-.006		.006-.008		.008-.012	.012-.016							
60-200	1 x D							.004-.006		.004-.006		.006-.010			.012-.016							
60-900	1 x D									.004-.006		.006-.008										
61-000P	1 x D			.004-.006		.006-.008		.008-.012		.014-.018		.018-.022										
61-400	1 x D			.017-.019		.017-.019		.018-.020		.019-.021		.020-.021										
62-750	1 x D			.004-.006		.006-.008		.008-.012		.008-.012		.010-.014										
62-850	1 x D			.004-.006		.006-.008		.008-.012		.008-.012		.010-.014										
63-500	1 x D	.002-.004		.004-.006		.005-.007		.006-.008		.007-.009												
63-750	1 x D	.002-.004		.004-.006		.006-.008		.008-.012		.008-.012		.010-.014										
63-850	1 x D	.002-.004		.004-.006		.006-.008		.008-.012		.008-.012		.010-.014										
64-000/65-000	1 x D	.002-.004		.004-.006		.006-.008		.008-.012		.008-.012												
65-200B/65-300B	1 x D	.002-.003		.002-.003		.003-.004		.003-.005	.003-.005	.004-.006		.006-.008										
66-000	1 x D							.004-.008		.004-.008		.004-.008										
66-200	1 x D							.004-.006		.006-.008												
66-300	1 x D			.002-.004				.004-.006		.006-.008		.006-.008										
77-100 (DE)	1 x D			.005-.007																		
77-100 (3E)	1 x D							.008-.010														

* = 12,500 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)

DEFINITIONS: IPM = Inches Per Minute