

# Hard Plastic Cutting Data Recommendations

HP

**< 1/2 DIAMETER TOOL**

APPLICATION	GOOD	BETTER	BEST
Single Pass	56-000P	65-000	63-700
Roughing			60-000
Finishing			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%

**≥ 1/2 DIAMETER TOOL**

APPLICATION	GOOD	BETTER	BEST
Single Pass	56-000P	52-600	60-200
Roughing			60-000
Finishing			60-200

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	
37-00/37-20	Varies							.004-.006															
37-50	1 x D					.003-.006		.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		.008-.010	.010-.012								
52-600	1 x D							.006-.008		.008-.010		.010-.012		.012-.014	.014-.016								
56-000	1 x D			.002-.004		.004-.006		.004-.006	.004-.006			.008-.010											
56-000P	1 x D			.002-.004		.004-.006		.004-.006		.006-.008		.008-.010											
56-430	1 x D			.005-.007		.005-.007		.006-.008		.007-.009		.008-.010											
56-450	1 x D					.005-.007		.006-.008		.007-.009		.008-.010											
56-600	1 x D			.003-.005		.005-.007		.007-.009		.009-.011		.011-.013											
57-600	1 x D							.006-.008		.008-.010		.010-.012											
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			.003-.005		.005-.007		.007-.011		.013-.017		.017-.021											
61-400	1 x D			.014-.016		.014-.016		.015-.017		.016-.018		.017-.019											
62-700	1 x D			.006-.008		.008-.010		.010-.012		.010-.012		.012-.016											
62-750	1 x D			.004-.006		.006-.008		.008-.012		.008-.012		.010-.014											
62-800	1 x D			.006-.008		.008-.010		.010-.012		.010-.012		.012-.016											
62-850	1 x D			.004-.006		.006-.008		.008-.012		.008-.012		.010-.014											
63-500	1 x D	.002-.004		.003-.005		.003-.005		.004-.006		.005-.007													
63-700	1 x D	.002-.004		.006-.008		.008-.010		.010-.012		.010-.012		.012-.016											
63-750	1 x D	.002-.004		.004-.006		.006-.008		.008-.012		.008-.012		.010-.014											
63-800	1 x D	.002-.004		.006-.008		.008-.010		.010-.012		.010-.012		.012-.016											
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		.006-.008		.008-.010		.010-.012		.010-.012													
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 (SE)	1 x D							.008-.010															

**NOTE:** When chip rewelding occurs while cutting plastic, increase feedrate or go to a single edge tool. Incorrect chiploads can result in cratering.

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

**DEFINITIONS:** IPM = Inches Per Minute