

Hard Wood Cutting Data Recommendations



APPLICATION	GOOD	BETTER	BEST
Single Pass	52-200 / 57-200	60-300 / 60-350	60-100C
Roughing	52-200 / 57-200	60-800 / 60-900	60-000
Finishing		60-300 / 60/350	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%

		Cutting Edge Diameter (in)																					
		Chip Load Per Tooth (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	
12-00	1 x D			.002-.004	.002-.004		.003-.005	.003-.005		.004-.006	.005-.007	.005-.007				.010-.012							
37-00/ 37-20	Varies							.004-.006															
37-50	1/2 CED					.003-.006		.003-.006		.003-.006													
37-60	1/2 CED									.004-.006		.004-.006			.006-.008		.008-.010						
37-80	Varies																.004-.006		.004-.006*			.004-.006**	
40-50	1 1/2											.003-.005											
40-000	1 x D			.006-.008	.006-.008	.007-.009		.008-.010	.008-.010	.009-.007		.010-.012											
40-100	1 x D			.004-.006		.005-.007	.005-.007	.005-.007	.006-.008	.006-.008		.007-.009			.009-.011								
48-000	1 x D				.004-.006		.005-.007	.005-.007	.005-.007	.005-.007		.006-.008		.007-.009	.008-.010	.009-.011	.010-.012	.011-.013	.012-.014	.013-.015	.014-.016	.015-.017	
52-200/ 57-200	1 x D			.003-.005	.003-.005	.004-.006	.004-.006	.005-.007	.005-.007	.006-.008	.006-.008	.007-.009	.007-.008	.008-.010	.009-.011								
52-700	1 x D			.002-.004		.003-.005		.004-.006		.005-.007		.006-.008		.007-.009	.008-.010		.009-.011						
57-200MD	1 x D							.009-.011		.010-.012		.011-.013											
52-400/ 57-400	1 x D				.004-.006	.004-.006		.005-.007	.005-.007	.006-.008		.007-.009											
52-900	1 x D							.006-.008		.007-.009		.007-.009											
56-200	1 x D			.003-.005	.003-.005	.004-.006	.004-.006	.005-.007	.005-.007	.006-.008		.007-.009			.009-.011								
57-900	1 x D							.005-.007		.006-.008		.007-.009											
60-000 (LH)	1 x D									.013-.015		.014-.016		.016-.018	.017-.019								
60-000 (HH)	1 x D									.015-.017		.017-.019		.019-.021	.021-.023								
60-090	1 x D													.005-.007									
60-100MW	1 x D			.010-.012		.012-.014		.014-.016		.016-.018		.018-.020		.020-.022	.022-.024								
60-100C	1 x D									.019-.021		.021-.023		.023-.025	.025-.027								
60-100DC	1 x D									.019-.021		.021-.023											
60-100MC	1 x D									.019-.021		.021-.023											
60-100PLR	1 x D									.021-.023		.023-.025											
60-300	1 x D									.024-.026		.026-.028		.028-.030	.030-.032								
60-500/ 500M	1 x D											.013-.015		.015-.017	.016-.018								
60-600	1 x D											.018-.020			.022-.024								
60-700	1 x D											.018-.020		.020-.022	.022-.024								
60-800	1 x D									.017-.019		.019-.021		.021-.023	.023-.025								
60-900	1 x D									.015-.017		.017-.019			.019-.021								
60-950	1 x D									.019-.021		.021-.023											
61-200	1 x D			.007-.009				.009-.011	.009-.011	.010-.012													
63-200	1 x D			.003-.005				.005-.007															
64-000/ 65-000	1 x D	.001-.003		.002-.004		.003-.005		.004-.006		.005-.007													
68-100	1 x D									.010-.012		.011-.013		.012-.014	.013-.015								
77-100	1 x D			.003-.005				.005-.007															

* = 16,000 RPM

** = 15,000 RPM

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