



Speeds & Feeds

Product Table: Miniature High Performance Drills - Prehardened Steels

Characteristics: 8x-10x Length of Flute

Series: ADSxxxx-C3, EXPxxxx-C3

Product Notes:

Pecking cycles are recommended to avoid chip packing and breakage.

- For steels at 29-37 Rc, an initial peck should be 2-3x Diameter, and each subsequent peck should be 1-2x Diameter.
- For harder steels at 38-45 Rc, 1-2x Diameter is recommended for an initial peck, and each subsequent peck should be .5-1x Diameter.

General Notes:

All posted speed and feed parameters are suggested starting values that may be increased given optimal setup conditions.

If you require additional information, Harvey Tool has a team of technical experts available to assist you through even the most challenging applications. Please contact us at **800-645-5609** or Harveytech@harveyperformance.com

WARNING: Cutting tools may shatter under improper use. Government regulations require use of safety glasses and other appropriate safety equipment in the vicinity of use.

MATERIAL	Hardness: 29-37 Rc (279-344 HBn)										Hardness: 38-45 Rc (353-421 HBn)									
	SFM	Chip Load (IPR - Inches Per Revolution) By Drill Diameter									SFM	Chip Load (IPR - Inches Per Revolution) By Drill Diameter								
		0.015	0.031	0.047	0.062	0.078	0.093	0.125	0.187	0.250		0.015	0.031	0.047	0.062	0.078	0.093	0.125	0.187	0.250
CARBON STEELS																				
Free-Machining/Low Carbon steels, 10xx 1029 & all 10Lxx, 11xx - 1139 & all 11Lxx, 12xx - 1215 & all 12Lxx	240	.00047	.00098	.00148	.00195	.00246	.00293	.00394	.00589	.00788	-	-	-	-	-	-	-	-	-	-
1030 - 1095, 1140 - 1151, 13xx, 15xx, 2xxx, 3xxx, 4xxx & 4xLxx, 5xxx & 5xLxx, 50xxx & 50Lxxx, 51xxx & 51Lxxx, 52xxx & 52Lxxx, 6xxx, 8xxx, 9xxx	150	.00043	.00089	.00135	.00179	.00225	.00268	.00360	.00539	.00720	-	-	-	-	-	-	-	-	-	-
STAINLESS STEELS																				
203 EZ, 303 (all types), 416, 416Se, 416 Plus X, 420F, 420FSe, 430F, 430FSe, 440F, 440FSe	180	.00047	.00098	.00148	.00195	.00246	.00293	.00394	.00589	.00788	-	-	-	-	-	-	-	-	-	-
201, 202, 203, 205, 301, 302, 304, 304L, 308, 309, 310, 314, 316, 316L, 317, 321, 329, 330, 347, 348, 385, 403, 405, 409, 410, 413, 420, 429, 430, 434, 436, 442, 446, 501, 502	150	.00043	.00089	.00135	.00179	.00225	.00268	.00360	.00539	.00720	100	.00035	.00071	.00108	.00143	.00180	.00214	.00288	.00431	.00576
414, 431, 440A, 440B, 440C, 13-8, 15-5, 15-7, 17-4, 17-7	125	.00027	.00056	.00085	.00112	.00140	.00167	.00225	.00337	.00450	90	.00022	.00045	.00068	.00089	.00112	.00134	.00180	.00269	.00360
TOOL STEELS																				
A, L, O, P, W series	125	.00043	.00089	.00135	.00179	.00225	.00268	.00360	.00539	.00720	100	.00035	.00071	.00108	.00143	.00180	.00214	.00288	.00431	.00576
D, H, M, T, S series	90	.00027	.00056	.00085	.00112	.00140	.00167	.00225	.00337	.00450	75	.00022	.00045	.00068	.00089	.00112	.00134	.00180	.00269	.00360
TITANIUM ALLOYS																				
70	100	.00027	.00056	.00085	.00112	.00140	.00167	.00225	.00337	.00450	75	.00022	.00045	.00068	.00089	.00112	.00134	.00180	.00269	.00360
HIGH TEMP ALLOYS																				
Inconel, Hastelloy, Waspalloy, Monel, Nimonic, Haynes, Discoloy, Incoloy	70	.00027	.00056	.00085	.00112	.00140	.00167	.00225	.00337	.00450	50	.00022	.00045	.00068	.00089	.00112	.00134	.00180	.00269	.00360