

Important Note:
Values in table are in inches and are based on 3x length of flute solid carbide drills.

- 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

Material Guide		SFM	Chip Load (IPR) by Drill Diameter											
			1/16	5/64	3/32	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Carbon Steel	10XX, 11XX, 12XX, 12LXX, ASTM A27, ASTM A36	475-560	.002003	.002003	.003004	.004005	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Low Alloy Steel	13XX, 41XX, 43XX, 51XX, 86XX, 93XX	360-500	.003004	.003004	.004005	.005006	.005007	.006008	.008010	.009012	.010013	.011015	.013017	.015019
Tool Steel	A2, H13, L6, P20, S7	200-275	.002003	.002003	.003004	.004005	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Austenitic Stainless Steel	Nitronic 50, Nitronic 60, 301, 303, 304, 304L, Incoloy 27-7MO, 316, 316L, 321, 347	150-275	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Martensitic & Ferritic Stainless Steel	403, 410, 416, 420, 440, 430, 446	150-275	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
PH Stainless Steel	15-5, 17-4, Carpenter 450, Carpenter 465	100-200	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Gray Cast Iron	SAE J431, ASTM A48	525-690	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Malleable Cast Iron	ASTM A47, ASTM A220, ASTM A602	425-460	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016
Nodular (Ductile) Cast Iron	ASTM A536, ASTM 897	360-500	.002003	.002003	.003004	.003004	.004006	.005007	.006008	.007010	.008011	.009013	.010014	.012016

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, Valor Holemaking has a team of technical experts available to assist you through even the most challenging applications. Please contact us at 866-840-1505 or Valortech@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.