



Two Spade RH Cut Drill Flutes | 118° Drill Point

		Imperial (in)						Metric (mm)					
		1/8	1/4	3/8	1/2	3/4	1	3	6	10	12	19	25
Graphite	RPM	10,696	5,348	3,565	2,674	1,783	1,337	11,319	5,659	3,396	2,830	1,787	1,358
	IPM	32	27	23	21	16	13	815	679	589	543	407	340
	SFM	350	350	350	350	350	350	107	107	107	107	107	107
	IPR	.003	.005	.007	.008	.009	.010	0.07	0.12	0.17	0.19	0.23	0.25
Cast Iron	RPM	3,667	1,834	1,222	917	611	458	3,881	1,940	1,164	970	613	466
	IPM	11	9	8	7	6	5	279	233	202	186	140	116
	SFM	120	120	120	120	120	120	37	37	37	37	37	37
	IPR	.003	.005	.007	.008	.009	.010	0.07	0.12	0.17	0.19	0.23	0.25
Hardened Steels >48 RC	RPM	1,528	764	509	382	255	191	1,617	808	485	404	255	194
	IPM	3	3	2	2	2	1	78	68	52	53	42	36
	SFM	50	50	50	50	50	50	15	15	15	15	15	15
	IPR	.002	.004	.004	.006	.007	.008	0.05	0.08	0.11	0.13	0.16	0.19
Steels	RPM	3,362	1,681	1,121	840	560	420	3,557	1,779	1,067	889	562	427
	IPM	8	7	6	5	4	4	213	171	157	139	107	91
	SFM	110	110	110	110	110	110	34	34	34	34	34	34
	IPR	.003	.004	.006	.007	.008	.009	0.06	0.10	0.15	0.16	0.19	0.21
Stainless Steels	RPM	2,445	1,222	815	611	407	306	2,587	1,294	776	647	408	310
	IPM	5	4	4	3	3	2	124	109	93	85	67	58
	SFM	80	80	80	80	80	80	24	24	24	24	24	24
	IPR	.002	.004	.005	.006	.007	.008	0.05	0.08	0.12	0.13	0.16	0.19

Not Recommended for High Si Aluminum >10%, Low Si Aluminum <10%, Composites, Plastics, Brass & Copper, Super Alloys (Nickel based, Inconel), or Titanium.

The parameters listed for tool series that are stocked uncoated are based on running an uncoated tool. If a coating is applied to the tools, the SFM can be increased by approximately 25%. All speed and feed recommendations should be considered only as a starting point. Start with conservative speeds and feeds while analyzing the rigidity of the process. Then cautiously progress incrementally to achieve optimum performance.

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