

## SFPM / Chipload Chart

## PERFORMANCE YOU CAN TRUST, QUALITY YOU CAN MEASURE

Materials		Aluminum	Carbon Steels	Alloy Steel	Stainless				Cast Iron		High Temp Alloys			Tool Steels		Mold Steel	
Description		2024, 6061, 7075	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 86XX Series	303	304, 304L, 316, 316L	410, 416, 420, 430F, 440C	13-8PH, 15-4PH, 16-6PH, 17-4PH	Gray	Ductile	Inconel 600 / 718, A286, Haynes	Pure Titanium	Wrought/ Cast 6AL4, ASTM 1, 2 & 3 Alpha - Beta	$\Delta 2 S / H1$	D2	P20	
SFM <32RC		800-2000	200 - 450	150 - 300	150 - 350	150 - 250	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200	90 - 140	250 - 450	150 - 250	
SFM >3	2RC	800-2000	100 - 250	80 - 200	80 - 200		100 - 250	90 - 125	130 -300	80 - 140	40 - 90	90 - 160	90 - 160	80 - 120	100 - 160	80 - 160	
1/4"	S	.0030	.0014	.0012	.0013	.0012	.0013	.0012	.0012	.0012	.0008	.0012	.0012	.0008	.0008	.0010	
	HP	.0040	.0017	.0012	.0013	.0012	.0013	.0010	.0013	.0014	.0009	.0014	.0012	.0010	.0010	.0012	
	LP	.0060	.0019	.0016	.0013	.0012	.0014	.0013	.0013	.0015	.0012	.0014	.0014	.0012	.0015	.0013	
3/8"	S	.0050	.0018	.0016	.0016	.0015	.0016	.0015	.0015	.0018	.0014	.0016	.0015	.0015	.0012	.0015	
	HP	.0060	.0018	.0016	.0018	.0015	.0015	.0015	.0016	.0018	.0014	.0016	.0016	.0016	.0012	.0016	
	LP	.0080	.0025	.0022	.0022	.0016	.0016	.0016	.0016	.0018	.0015	.0022	.0018	.0018	.0015	.0018	
1/2"	S	.0060	.0030	.0025	.0027	.0025	.0025	.0025	.0025	.0027	.0020	.0026	.0025	.0025	.0020	.0025	
	HP	.0070	.0030	.0030	.0032	.0030	.0030	.0028	.0028	.0030	.0022	.0025	.0025	.0026	.0020	.0025	
	LP	.0120	.0035	.0032	.0035	.0035	.0038	.0035	.0038	.0040	.0025	.0030	.0030	.0030	.0025	.0030	
	S	.0070	.0035	.0030	.0030	.0030	.0030	.0030	.0030	.0035	.0025	.0035	.0030	.0030	.0025	.0030	
5/8"	HP	.0090	.0038	.0035	.0030	.0030	.0030	.0030	.0035	.0035	.0028	.0035	.0030	.0030	.0025	.0030	
	LP	.0150	.0040	.0040	.0040	.0040	.0040	.0040	.0040	.0044	.0030	.0040	.0038	.0038	.0030	.0035	
	S	.0080	.0040	.0040	.0040	.0035	.0035	.0035	.0035	.0040	.0028	.0040	.0038	.0038	.0032	.0035	
3/4"	HP	.0150	.0050	.0040	.0043	.0040	.0040	.0040	.0040	.0045	.0035	.0040	.0040	.0040	.0035	.0040	
	LP	.0200	.0060	.0050	.0050	.0045	.0040	.0040	.0040	.0045	.0040	.0050	.0045	.0050	.0045	.0050	
	S	.0100	.0050	.0040	.0040	.0040	.0040	.0040	.0040	.0050	.0038	.0050	.0042	.0042	.0040	.0045	
1"	HP	.0150	.0060	.0060	.0050	.0050	.0050	.0045	.0045	.0050	.0040	.0050	.0045	.0045	.0040	.0045	
	LP	.0200	.0070	.0060	.0065	.0060	.0060	.0060	.0060	.0070	.0055	.0070	.0060	.0060	.0050	.0055	
	Stub an	nd Regular L	ength		S = Slotting				HP = Heavy	Peripheral			LP = Light Profile				
										= LOC			Axial DOC = LOC				
					up to .5 X Diameter				Radial DOC = .5 X Diameter				Radial WOC = .15 X Diameter				
	Mediur	n Length			S = Slotting				HP = Heavy	Peripheral			LP = Light Profile				
						Not Recommended				Axial DOC = up to 1 X Diameter				Axial DOC = up to 1.5 X Diameter			
										= .2 X Diam			Radial WOC = .1 X Diameter				

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