

SURFACE FEET CONVERSION CHART

SURFACE FEET PER MINUTE (SFM) TO REVOLUTIONS PER MINUTE (RPM)

SFM	RPM							
	CUTTER DIAMETER							
	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
10	305	153	102	76	61	51	44	38
15	458	229	153	115	92	76	65	57
20	611	305	204	153	122	102	87	76
25	763	382	254	191	153	127	109	95
30	916	458	305	229	183	153	131	115
35	1,069	534	356	267	214	178	153	134
40	1,221	611	407	305	244	204	174	153
45	1,374	687	458	344	275	229	196	172
50	1,527	763	509	382	305	254	218	191
60	1,832	916	611	458	366	305	262	229
70	2,137	1,069	712	534	427	356	305	267
80	2,443	1,221	814	611	489	407	349	305
90	2,748	1,374	916	687	550	458	393	344
100	3,053	1,527	1,018	763	611	509	436	382
150	4,580	2,290	1,527	1,145	916	763	654	573
200	6,107	3,053	2,036	1,527	1,221	1,018	872	763
250	7,634	3,817	2,545	1,908	1,527	1,272	1,091	954
300	9,160	4,580	3,053	2,290	1,832	1,527	1,309	1,145
350	10,687	5,344	3,562	2,672	2,137	1,781	1,527	1,336
400	12,214	6,107	4,071	3,053	2,443	2,036	1,745	1,527
450	13,740	6,870	4,580	3,435	2,748	2,290	1,963	1,718
500	15,267	7,634	5,089	3,817	3,053	2,545	2,181	1,908
600	18,321	9,160	6,107	4,580	3,664	3,053	2,617	2,290
700	21,374	10,687	7,125	5,344	4,275	3,562	3,053	2,672
800	24,427	12,214	8,142	6,107	4,885	4,071	3,490	3,053
900	27,481	13,740	9,160	6,870	5,496	4,580	3,926	3,453
1000	30,534	15,267	10,178	7,634	6,107	5,089	4,362	3,817
1100	33,588	16,794	11,196	8,397	6,718	5,598	4,798	4,198
1200	36,641	18,321	12,214	9,160	7,328	6,107	5,234	4,580
1300	39,695	19,847	13,232	9,924	7,939	6,616	5,671	4,962
1400	42,748	21,374	14,249	10,687	8,550	7,125	6,107	5,344
1500	45,802	22,901	15,267	11,450	9,160	7,634	6,543	5,725
1600	48,855	24,427	16,285	12,214	9,771	8,142	6,979	6,107
1700	51,908	25,954	17,303	12,977	10,382	8,651	7,415	6,489
1800	54,962	27,481	18,321	13,740	10,992	9,160	7,852	6,870
1900	58,015	29,008	19,338	14,504	11,603	9,669	8,288	7,252
2000	61,069	30,534	20,356	15,267	12,214	10,178	8,724	7,634

FORMULAS

SFM =
RPM x
DIAMETER x .262

RPM =
(SFM x 3.82) ÷ DIAMETER