



CESSCO Inc.
1-800-882-4959
www.cessco.com

Calculated RPM's for Core Drilling

Diameter (Inches)	Min RPM	Best RPM	Max RPM	Avg Weight	Recommended Hp
0.5	4775	6364	7960	6 lbs	1-2 Hp
0.625	3820	5090	6368	6 lbs	
0.75	3183	4242	5307	6 lbs	
0.875	2728	3636	4549	6 lbs	
1	2387	3182	3980	7 lbs	
1.125	2122	2828	3538	7 lbs	
1.25	1910	2545	3184	7 lbs	
1.375	1736	2314	2895	7 lbs	
1.5	1592	2121	2653	8 lbs	
1.625	1469	1958	2449	8 lbs	
1.75	1364	1818	2274	8 lbs	
1.875	1273	1697	2123	9 lbs	
2	1194	1591	1990	9 lbs	
2.125	1127	1502	1880	9 lbs	
2.25	1061	1414	1769	9 lbs	
2.375	1005	1340	1676	9 lbs	
2.5	955	1273	1592	9 lbs	
2.625	911	1215	1520	10 lbs	
2.75	868	1157	1447	10 lbs	
2.875	832	1110	1387	11 lbs	
3	796	1061	1327	11 lbs	
3.25	735	979	1225	12 lbs	
3.5	682	909	1137	13 lbs	
4	597	795	995	13 lbs	2 Hp
4.25	562	749	937	13 lbs	
4.5	531	707	887	14 lbs	
4.75	504	671	840	15 lbs	
5	477	636	798	15 lbs	
5.25	455	608	706	17 lbs	
5.5	434	579	724	17 lbs	
6	398	530	663	18 lbs	
6.25	382	509	637	18 lbs	2-3 Hp
6.5	367	490	612	20 lbs	
7	341	455	569	21 lbs	
7.25	330	441	552		
7.5	320	420	534		
8	298	398	498	22 lbs	
8.25	290	387	483		
8.5	282	376	469		
9	265	354	442	30 lbs	
9.5	252	336	420		
10	239	318	398	40 lbs	3 Hp
12	199	265	332	48 lbs	
14	171	227	284	55 lbs	8-10 GPM @ 1500psi
16	149	199	249	65 lbs	
18	133	177	221	85 lbs	8-10 GPM @ 1500psi
20	119	159	199	85 lbs	
24	99	133	166	175 lbs	
26	92	122	153	220 lbs	
28	85	114	142	275 lbs	

Diameter * Pi = Circumference
Circumference * RPMs =
Surface Speed (inches)
Min 624 ft/min
Best 833 ft/min
Max 1042 ft/min



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Diameter (Inches)	Min RPM	Best RPM	Max RPM	Avg Weight	Recommended Hp
30	80	106	133	310 lbs	12-15 GPM @ 2000psi
32	75	99	124	310 lbs	
34	70	94	117	350 lbs	
36	66	88	111	375 lbs	15-20 GPM @ 2500psi
38	63	84	105	400 lbs	
40	60	80	100	425 lbs	
42	57	76	95	450 lbs	
44	54	72	90		Call
46	52	69	87		
48	52	66	83		
54	44	59	74		
56	43	57	71		
60	40	53	66		

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 Circumference * RPMs =
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