CUTTING SPEED CHART R.P.M.
DEPENDING ON DRILL Ø & CUTTING SPEED

Cutting speed	Ø DRILLS AND CUTTING SPEED R.P.M.																
m/min.	2	2,5	3	4	5	6,5	8	10	13	16	20	25	30	40	50	63	80
3	477	382	318	238	190	147	119	95	73	60	48	38	32	24	19	15	12
5	796	636	530	398	318	245	198	159	122	99	80	64	53	40	32	25	20
8	1.273	1.018	848	636	509	392	318	254	195	159	127	102	85	64	50	40	32
10	1.592	1.273	1.061	795	636	490	398	318	245	199	159	127	106	80	64	50	40
12	1.910	1.528	1.273	955	764	588	477	382	294	238	190	152	127	95	76	60	48
15	2.387	1.910	1.592	1.194	955	735	596	477	367	298	138	190	159	119	95	75	60
20	3.183	2.546	2.122	1.592	1.273	979	795	636	490	398	318	255	212	159	127	101	80
25	3.979	3.183	2.652	1.989	1.592	1224	995	795	612	497	398	318	265	198	159	126	99
30	4.775	3.820	3.183	2.387	1.910	1469	1.194	995	735	596	477	382	318	238	190	151	119
35	5.570	4.456	3.714	2.785	2.228	1.714	1.393	1.114	857	696	557	445	371	278	222	176	139
40	6.366	5.092	4.245	3.183	2.456	1958	1.592	1.273	979	795	636	509	424	318	255	202	159
45	7.162	5.730	4.775	3.581	2.865	2.204	1.790	1.432	1.102	895	716	572	477	358	286	227	179
50	7.958	6.366	5.305	3.978	3.183	2.448	1.990	1.592	1.224	995	795	636	530	398	318	252	198
55	8.754	7.002	5.836	4.376	3.501	2.693	2.188	1.750	1.346	1.094	875	700	584	438	350	277	218
60	9.550	7.639	6.366	4.775	3.820	2.938	2.388	1.910	1.469	1.194	955	764	636	477	382	303	238
70	11.142	8.912	7.428	5.570	4.456	3.428	2.785	2.228	1.714	1.392	1.114	891	742	557	445	354	278
75	11.937	9.549	7.958	5.968	4.775	3.672	2.981	2.387	1.836	1.492	1.194	955	795	596	477	378	298
80	12.732	10.185	8.488	6.366	5.092	3.918	3.183	2.546	1.958	1.592	1.273	1.018	848	636	509	404	318
90	14.324	11.459	9.550	7.162	5.730	4.407	1.581	2.865	2.204	1.790	1.432	1.145	955	716	572	455	358
100	15.915	12.732	10.611	7.958	6.366	4.897	3.978	3.183	2.448	1.989	1.592	1.273	1.061	795	636	505	398

CONVERSIN FORMULA

$$R.P.M = \frac{Vc \times 1.000}{Ø \times \Pi}$$

$$Vc. = \frac{R.P.M. \times Ø \times \Pi}{1.000}$$

R.P.M. = REVOLUTIONS PER MINUTE
Vc. = CUTTING DEPTH IN MILIMETER PER MINUTE
Ø = DRILL DIAMETER
Π = 3,1416

EXAMPLE:

Drilling material: GREY CAST IRON
DRILL Ø: 10 Vc: 20 m/min.

$$R.P.M. = \frac{20 \times 1.000}{10 \times \Pi} = 637$$