

# Speed guide values for **HSS and bi-metal hole saws**

Material:		High carbon struc. steel	Alloyed steel	Cast iron	CuZn alloy	Aluminium alloy	Thermo-plastics	Duro-plastics	Wood
		up to 700 N/mm <sup>2</sup>	up to 1000 N/mm <sup>2</sup>	over 250 N/mm <sup>2</sup>		up to 11% Si			
Vc = m/min		30	20	10	35	30	20	15	40
Coolant:		Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Ø mm	Ø inch	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
14,0	9/16	682	455	227	796	682	455	341	910
16,0	5/8	597	398	199	697	597	398	299	796
17,0		562	375	187	656	562	375	281	749
19,0	3/4	503	335	168	587	503	335	251	670
21,0		455	303	152	531	455	303	227	607
22,0	7/8	434	290	145	507	434	290	217	579
24,0	15/16	398	265	133	464	398	265	199	531
25,0	1	382	255	127	446	382	255	191	510
27,0	1 1/16	354	236	118	413	354	236	177	472
28,0	1 3/32	341	227	114	398	341	227	171	455
29,0	1 1/8	329	220	110	384	329	220	165	439
30,0	1 3/16	318	212	106	372	318	212	159	425
32,0	1 1/4	299	199	100	348	299	199	149	398
33,0		290	193	97	338	290	193	145	386
35,0	1 3/8	273	182	91	318	273	182	136	364
36,0		265	177	88	310	265	177	133	354
37,0		258	172	86	301	258	172	129	344
38,0	1 1/2	251	168	84	293	251	168	126	335
40,0		239	159	80	279	239	159	119	318
41,0	1 5/8	233	155	78	272	233	155	117	311
43,0	1 11/16	222	148	74	259	222	148	111	296
44,0	1 3/4	217	145	72	253	217	145	109	290
46,0	1 3/4	208	138	69	242	208	138	104	277
48,0	1 7/8	199	133	66	232	199	133	100	265
50,0	1 31/32	190	128	64	225	194	129	97	257
51,0	2	187	125	62	219	187	125	94	250
52,0		184	122	61	214	184	122	92	245
54,0	2 1/8	177	118	59	206	177	118	88	236
57,0	2 1/4	168	112	56	196	168	112	84	223
59,0		162	108	54	189	162	108	81	216
60,0	2 3/8	159	106	53	186	159	106	80	212
63,0		152	101	51	177	152	101	76	202
64,0	2 1/2	149	100	50	174	149	100	75	199
65,0		147	98	49	171	147	98	73	196
67,0	2 5/8	143	95	48	166	143	95	71	190
68,0		141	94	47	164	141	94	70	187
70,0	2 3/4	136	91	45	159	136	91	68	182
73,0	2 7/8	131	87	44	153	131	87	65	175
76,0	3	126	84	42	147	126	84	63	168
79,0	3 1/8	121	81	40	141	121	81	60	161
83,0	3 1/4	115	77	38	134	115	77	58	153
86,0	3 3/8	111	74	37	130	111	74	56	148
89,0	3 1/2	107	72	36	125	107	72	54	143
92,0	3 5/8	104	69	35	121	104	69	52	138
95,0	3 3/4	101	67	34	117	101	67	50	134
98,0	3 7/8	97	65	32	114	97	65	49	130
102,0	4	94	62	31	109	94	62	47	125
105,0		91	61	30	106	91	61	45	121
108,0	4 1/4	88	59	29	103	88	59	44	118
111,0	4 3/8	86	57	29	100	86	57	43	115
114,0	4 1/2	84	56	28	98	84	56	42	112
121,0	4 3/4	79	53	26	92	79	53	39	105
127,0	5	75	50	25	88	75	50	38	100
140,0	5 1/2	68	45	23	80	68	45	34	91
152,0	6	63	42	21	73	63	42	31	84
160,0	6 5/16	60	40	20	70	60	40	30	80
168,0	6 5/8	57	38	19	66	57	38	28	76
177,0		54	36	18	63	54	36	27	72
210,0	8 9/32	45	30	15	53	45	30	23	61

