

Recommended cutting speed for SST™ CORE CUT & ICECUT™ annular cutter

Diameter		Mild Steel 500N/mm <sup>2</sup>	Steel 750N/mm <sup>2</sup>	Steel 900N/mm <sup>2</sup>	Steel 1200N/mm <sup>2</sup>	Steel 1400N/mm <sup>2</sup>	Stainless Steel	Aluminum
mm	Inch							
11.1	7/16"	717	573	373	287	201	344	1433
12.7	1/2"	627	502	326	251	176	301	1254
14.3	9/16"	558	446	290	223	156	268	1115
15.9	5/8"	501	401	261	201	140	241	1003
17.5	11/16"	456	365	237	182	128	219	912
19.1	3/4"	418	334	217	167	117	201	836
20.6	13/16"	386	309	201	154	108	185	771
22.2	7/8"	358	287	186	143	100	172	717
23.8	15/16"	334	268	174	134	94	161	669
25.4	1"	313	251	163	125	88	150	627
27.0	1-1/16"	295	236	153	118	83	142	590
28.6	1-1/8"	279	223	145	111	78	134	557
30.2	1-3/16"	264	211	137	106	74	127	528
31.8	1-1/4"	251	201	130	100	70	120	502
33.3	1-5/16"	239	191	124	96	67	115	478
34.9	1-3/8"	228	182	119	91	64	109	456
36.5	1-7/16"	218	174	113	87	61	105	436
38.1	1-1/2"	209	167	109	84	59	100	418
39.7	1-9/16"	201	161	104	80	56	96	401
41.3	1-5/8"	193	154	100	77	54	93	386
42.9	1-11/16"	186	149	97	74	52	89	372
44.5	1-3/4"	179	143	93	72	50	86	358
46.0	1-13/16"	173	138	90	69	48	83	346
47.6	1-7/8"	167	134	87	67	47	80	334
49.2	1-15/16"	162	129	84	65	45	78	324
50.8	2"	157	125	81	63	44	75	313
52.4	2-1/16"	152	122	79	61	43	73	304
54.0	2-1/8"	148	118	77	59	41	71	295
55.6	2-3/16"	143	115	75	57	40	69	287
57.2	2-1/4"	139	111	72	56	39	67	279
58.7	2-5/16"	136	108	70	54	38	65	271
60.4	2-3/8"	132	106	69	53	37	63	264
61.9	2-7/16"	129	103	67	51	36	62	257
63.5	2-1/2"	125	100	65	50	35	60	251
65.1	2-7/16"	122	98	64	49	34	59	245
66.7	2-5/8"	119	96	62	48	33	57	239
68.3	2-11/16"	117	93	61	47	33	56	233
69.9	2-3/4"	114	91	59	46	32	55	228
71.4	2-7/16"	111	89	58	45	31	54	223
73.0	2-7/8"	109	87	57	44	31	52	218
74.6	2-15/16"	107	85	55	43	30	51	213
76.2	3"	104	84	54	42	29	50	209
77.8	3-1/16"	102	82	53	41	29	49	205
79.4	3-1/8"	100	80	52	40	28	48	201
81.0	3-3/16"	98	79	51	39	28	47	197
82.6	3-1/4"	96	77	50	39	27	46	193
84.1	3-5/16"	95	76	49	38	26	45	189
85.7	3-3/8"	93	74	48	37	26	45	186
87.3	3-7/16"	91	73	47	36	26	44	182
88.9	3-1/2"	90	72	47	36	25	43	179
90.5	3-9/16"	88	70	46	35	25	42	176
92.1	3-5/8"	86	69	45	35	24	42	173
93.7	3-11/16"	85	68	44	34	24	41	170
95.3	3-3/4"	84	67	43	33	23	40	167
96.8	3-13/16"	82	66	43	33	23	39	164
98.4	3-7/8"	81	65	42	32	23	39	162
100.0	3-15/16"	80	64	41	32	22	38	159
101.6	4"	78	63	41	31	22	38	157

Recommended cutting speed for CARBIDE CORE CUT annular cutter

Diameter		Mild Steel	Steel	Steel	Steel	Steel	Stainless Steel	Aluminum
mm	Inch	500N/mm <sup>2</sup>	750N/mm <sup>2</sup>	900N/mm <sup>2</sup>	1200N/mm <sup>2</sup>	1400N/mm <sup>2</sup>		
11.1	7/16"	1147	1061	1003	860	717	573	2580
12.7	1/2"	1003	928	878	752	627	502	2257
14.3	9/16"	892	825	781	669	558	446	2007
15.9	5/8"	802	742	702	602	501	401	1805
17.5	11/16"	730	675	638	547	456	365	1642
19.1	3/4"	669	619	585	502	418	334	1505
20.6	13/16"	617	571	540	463	386	309	1389
22.2	7/8"	573	530	502	430	358	287	1290
23.8	15/16"	535	495	468	401	334	268	1204
25.4	1"	502	464	439	376	313	251	1128
27.0	1-1/16"	472	437	413	354	295	236	1062
28.6	1-1/8"	446	412	390	334	279	223	1003
30.2	1-3/16"	422	391	370	317	264	211	950
31.8	1-1/4"	401	371	351	301	251	201	903
33.3	1-5/16"	382	353	334	287	239	191	860
34.9	1-3/8"	365	337	319	274	228	182	821
36.5	1-7/16"	349	323	305	262	218	174	785
38.1	1-1/2"	334	309	293	251	209	167	752
39.7	1-9/16"	321	297	281	241	201	161	722
41.3	1-5/8"	309	285	270	231	193	154	694
42.9	1-11/16"	297	275	260	223	186	149	669
44.5	1-3/4"	287	265	251	215	179	143	645
46.0	1-13/16"	277	256	242	208	173	138	623
47.6	1-7/8"	267	247	234	201	167	134	602
49.2	1-15/16"	259	239	227	194	162	129	582
50.8	2"	251	232	219	188	157	125	564
52.4	2-1/16"	243	225	213	182	152	122	547
54.0	2-1/8"	236	218	207	177	148	118	531
55.6	2-3/16"	229	212	201	172	143	115	516
57.2	2-1/4"	223	206	195	167	139	111	502
58.7	2-5/16"	217	201	190	163	136	108	488
60.4	2-3/8"	211	195	185	158	132	106	475
61.9	2-7/16"	206	190	180	154	129	103	463
63.5	2-1/2"	201	186	176	150	125	100	451
65.1	2-7/16"	196	181	171	147	122	98	440
66.7	2-5/8"	191	177	167	143	119	96	430
68.3	2-11/16"	187	173	163	140	117	93	420
69.9	2-3/4"	182	169	160	137	114	91	410
71.4	2-7/16"	178	165	156	134	111	89	401
73.0	2-7/8"	174	161	153	131	109	87	393
74.6	2-15/16"	171	158	149	128	107	85	384
76.2	3"	167	155	146	125	104	84	376
77.8	3-1/16"	164	151	143	123	102	82	368
79.4	3-1/8"	160	148	140	120	100	80	361
81.0	3-3/16"	157	146	138	118	98	79	354
82.6	3-1/4"	154	143	135	116	96	77	347
84.1	3-5/16"	151	140	132	114	95	76	341
85.7	3-3/8"	149	137	130	111	93	74	334
87.3	3-7/16"	146	135	128	109	91	73	328
88.9	3-1/2"	143	133	125	107	90	72	322
90.5	3-9/16"	141	130	123	106	88	70	317
92.1	3-5/8"	138	128	121	104	86	69	311
93.7	3-11/16"	136	126	119	102	85	68	306
95.3	3-3/4"	134	124	117	100	84	67	301
96.8	3-13/16"	132	122	115	99	82	66	296
98.4	3-7/8"	129	120	113	97	81	65	291
100.0	3-15/16"	127	118	111	96	80	64	287
101.6	4"	125	116	110	94	78	63	282