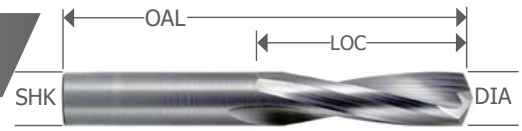


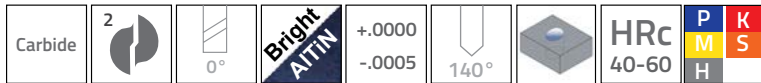
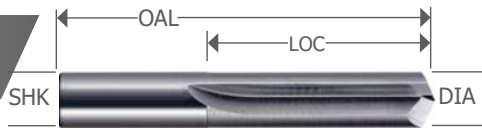
2 FLUTE • STUB LENGTH CARBIDE DRILLS



SERIES: IDR

DIAMETER		LOC	OAL	TOOL	BRIGHT EDP	ALTIN EDP
T	0.3580	1-3/4	3-1/16	IDR-T	17187	57187
23/64	0.3594	1-3/4	3-1/16	IDR-23/64	17158	57158
U	0.3680	1-13/16	3-1/8	IDR-U	17188	57188
9.5mm	0.3740	46mm	79mm	IDR-9.5MM	17431	57431
3/8	0.3750	1-13/16	3-1/8	IDR-3/8	17159	57159
V	0.3770	1-7/8	3-1/4	IDR-V	17189	57189
W	0.3860	1-7/8	3-1/4	IDR-W	17190	57190
25/64	0.3906	1-7/8	3-1/4	IDR-25/64	17160	57160
10mm	0.3937	48mm	83mm	IDR-10MM	17432	57432
X	0.3970	1-15/16	3-5/16	IDR-X	17191	57191
Y	0.4040	1-15/16	3-5/16	IDR-Y	17192	57192
13/32	0.4062	1-15/16	3-5/16	IDR-13/32	17161	57161
Z	0.4130	2	3-3/8	IDR-Z	17193	57193
10.5mm	0.4134	51mm	86mm	IDR-10.5MM	17433	57433
27/64	0.4219	2	3-3/8	IDR-27/64	17162	57162
11mm	0.4331	52mm	87mm	IDR-11MM	17434	57434
7/16	0.4375	2-1/16	3-7/16	IDR-7/16	17163	57163
11.5mm	0.4528	54mm	90mm	IDR-11.5MM	17435	57435
29/64	0.4531	2-1/8	3-9/16	IDR-29/64	17164	57164
15/32	0.4688	2-1/8	3-5/8	IDR-15/32	17165	57165
12mm	0.4724	54mm	92mm	IDR-12MM	17436	57436
31/64	0.4844	2-3/16	3-11/16	IDR-31/64	17166	57166
1/2	0.5000	2-1/4	3-3/4	IDR-1/2	17167	57167
9/16	0.5625	2-1/2	4	IDR-9/16	17993	57993
5/8	0.6250	2-3/4	5	IDR-5/8	17994	57994
3/4	0.7500	3	5	IDR-3/4	17995	57995

2 FLUTE • STRAIGHT FLUTE CARBIDE DRILLS



SERIES: JDR

DIAMETER		LOC	OAL	TOOL	BRIGHT EDP	ALTIN EDP
# 56	0.0465	1/2	1-1/2	JDR-56	17361	57361
3/64	0.0469	1/2	1-1/2	JDR-3/64	17250	57250
# 55	0.0520	1/2	1-1/2	JDR-55	17360	57360
# 54	0.0550	1/2	1-1/2	JDR-54	17359	57359
1.5mm	0.0591	13mm	38mm	JDR-1.5MM	17371	57371
# 53	0.0595	1/2	1-1/2	JDR-53	17358	57358
1/16	0.0625	5/8	1-5/8	JDR-1/16	17251	57251
# 52	0.0635	11/16	1-11/16	JDR-52	17357	57357
# 51	0.0670	11/16	1-11/16	JDR-51	17356	57356
# 50	0.0700	11/16	1-11/16	JDR-50	17355	57355
# 49	0.0730	11/16	1-11/16	JDR-49	17354	57354
# 48	0.0760	11/16	1-11/16	JDR-48	17353	57353
5/64	0.0781	11/16	1-11/16	JDR-5/64	17252	57252
# 47	0.0785	3/4	1-3/4	JDR-47	17352	57352
2mm	0.0787	19mm	45mm	JDR-2MM	17372	57372

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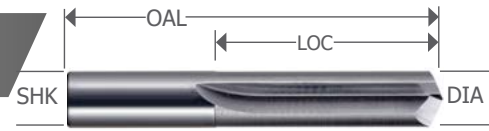
2 FLUTE • STRAIGHT FLUTE CARBIDE DRILLS

SERIES: JDR

DIAMETER		LOC	OAL	TOOL	BRIGHT EDP	ALTIN EDP
# 46	0.0810	3/4	1-3/4	JDR-46	17351	57351
# 45	0.0820	3/4	1-3/4	JDR-45	17350	57350
# 44	0.0860	3/4	1-3/4	JDR-44	17349	57349
# 43	0.0890	3/4	1-3/4	JDR-43	17348	57348
# 42	0.0935	3/4	1-3/4	JDR-42	17347	57347
3/32	0.0938	3/4	1-3/4	JDR-3/32	17253	57253
# 41	0.0960	13/16	1-13/16	JDR-41	17346	57346
# 40	0.0980	13/16	1-13/16	JDR-40	17345	57345
2.5mm	0.0984	21mm	46mm	JDR-2.5MM	17373	57373
# 39	0.0995	13/16	1-13/16	JDR-39	17344	57344
# 38	0.1015	13/16	1-13/16	JDR-38	17343	57343
# 37	0.1040	13/16	1-13/16	JDR-37	17342	57342
# 36	0.1065	13/16	1-13/16	JDR-36	17341	57341
7/64	0.1094	13/16	1-13/16	JDR-7/64	17254	57254
# 35	0.1100	7/8	1-7/8	JDR-35	17340	57340
# 34	0.1110	7/8	1-7/8	JDR-34	17339	57339
# 33	0.1130	7/8	1-7/8	JDR-33	17338	57338
# 32	0.1160	7/8	1-7/8	JDR-32	17337	57337
3mm	0.1181	22mm	48mm	JDR-3MM	17374	57374
# 31	0.1200	7/8	1-7/8	JDR-31	17336	57336
1/8	0.1250	5/8	1-1/2	JDR-1/8-S	17437	57437
1/8	0.1250	7/8	1-7/8	JDR-1/8	17255	57255
# 30	0.1285	15/16	1-15/16	JDR-30	17335	57335
# 29	0.1360	15/16	1-15/16	JDR-29	17334	57334
3.5mm	0.1378	24mm	52mm	JDR-3.5MM	17375	57375
# 28	0.1405	15/16	1-15/16	JDR-28	17333	57333
9/64	0.1406	15/16	1-15/16	JDR-9/64	17256	57256
# 27	0.1440	1	2-1/16	JDR-27	17332	57332
# 26	0.1470	1	2-1/16	JDR-26	17331	57331
# 25	0.1495	1	2-1/16	JDR-25	17330	57330
# 24	0.1520	1	2-1/16	JDR-24	17329	57329
# 23	0.1540	1	2-1/16	JDR-23	17328	57328
5/32	0.1562	1	2-1/16	JDR-5/32	17257	57257
# 22	0.1570	1-1/16	2-1/8	JDR-22	17327	57327
4mm	0.1575	27mm	53mm	JDR-4MM	17376	57376
# 21	0.1590	1-1/16	2-1/8	JDR-21	17326	57326
# 20	0.1610	1-1/16	2-1/8	JDR-20	17325	57325
# 19	0.1660	1-1/16	2-1/8	JDR-19	17324	57324
# 18	0.1695	1-1/16	2-1/8	JDR-18	17323	57323
11/64	0.1719	1-1/16	2-1/8	JDR-11/64	17258	57258
# 17	0.1730	1-1/8	2-3/16	JDR-17	17322	57322
# 16	0.1770	1-1/8	2-3/16	JDR-16	17321	57321
4.5mm	0.1772	29mm	55mm	JDR-4.5MM	17377	57377
# 15	0.1800	1-1/8	2-3/16	JDR-15	17320	57320
# 14	0.1820	1-1/8	2-3/16	JDR-14	17319	57319
# 13	0.1850	1-1/8	2-3/16	JDR-13	17318	57318
3/16	0.1875	5/8	2	JDR-3/16-S	17438	57438
3/16	0.1875	1-1/8	2-3/16	JDR-3/16	17259	57259
# 12	0.1890	1-3/16	2-1/4	JDR-12	17317	57317
# 11	0.1910	1-3/16	2-1/4	JDR-11	17316	57316
# 10	0.1935	1-3/16	2-1/4	JDR-10	17315	57315
# 9	0.1960	1-3/16	2-1/4	JDR-9	17314	57314
5mm	0.1969	30mm	57mm	JDR-5MM	17378	57378
# 8	0.1990	1-3/16	2-1/4	JDR-8	17313	57313
# 7	0.2010	1-3/16	2-1/4	JDR-7	17312	57312
13/64	0.2031	1-3/16	2-1/4	JDR-13/64	17260	57260

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2 FLUTE • STRAIGHT FLUTE CARBIDE DRILLS



SERIES: JDR

	DIAMETER	LOC	OAL	TOOL	BRIGHT EDP	ALTiN EDP
# 6	0.2040	1-1/4	2-3/8	JDR-6	17311	57311
# 5	0.2055	1-1/4	2-3/8	JDR-5	17310	57310
# 4	0.2090	1-1/4	2-3/8	JDR-4	17309	57309
# 3	0.2130	1-1/4	2-3/8	JDR-3	17308	57308
5.5mm	0.2165	32mm	60mm	JDR-5.5MM	17379	57379
7/32	0.2188	1-1/4	2-3/8	JDR-7/32	17261	57261
# 2	0.2210	1-5/16	2-7/16	JDR-2	17307	57307
# 1	0.2280	1-5/16	2-7/16	JDR-1	17306	57306
A	0.2340	1-5/16	2-7/16	JDR-A	17280	57280
15/64	0.2344	1-5/16	2-7/16	JDR-15/64	17262	57262
6mm	0.2362	33mm	61mm	JDR-6MM	17380	57380
B	0.2380	1-3/8	2-1/2	JDR-B	17281	57281
C	0.2420	1-3/8	2-1/2	JDR-C	17282	57282
D	0.2460	1-3/8	2-1/2	JDR-D	17283	57283
E	0.2500	1-3/8	2-1/2	JDR-E	17284	57284
1/4	0.2500	3/4	2	JDR-1/4-S	17439	57439
1/4	0.2500	1-3/8	2-1/2	JDR-1/4	17263	57263
6.5mm	0.2559	35mm	63mm	JDR-6.5MM	17381	57381
F	0.2570	1-7/16	2-5/8	JDR-F	17285	57285
G	0.2610	1-7/16	2-5/8	JDR-G	17286	57286
17/64	0.2656	1-7/16	2-5/8	JDR-17/64	17264	57264
H	0.2660	1-1/2	2-11/16	JDR-H	17287	57287
I	0.2720	1-1/2	2-11/16	JDR-I	17288	57288
7mm	0.2756	38mm	68mm	JDR-7MM	17382	57382
J	0.2770	1-1/2	2-11/16	JDR-J	17289	57289
K	0.2810	1-1/2	2-11/16	JDR-K	17290	57290
9/32	0.2812	1-1/2	2-11/16	JDR-9/32	17265	57265
L	0.2900	1-9/16	2-3/4	JDR-L	17291	57291
M	0.2950	1-9/16	2-3/4	JDR-M	17292	57292
7.5mm	0.2953	40mm	70mm	JDR-7.5MM	17383	57383
19/64	0.2969	1-9/16	2-3/4	JDR-19/64	17266	57266
N	0.3020	1-5/8	2-13/16	JDR-N	17293	57293
5/16	0.3125	3/4	2-1/2	JDR-5/16-S	17440	57440
5/16	0.3125	1-5/8	2-13/16	JDR-5/16	17267	57267
8mm	0.3150	41mm	71mm	JDR-8MM	17384	57384
O	0.3160	1-11/16	2-15/16	JDR-O	17294	57294
P	0.3230	1-11/16	2-15/16	JDR-P	17295	57295
21/64	0.3281	1-11/16	2-15/16	JDR-21/64	17268	57268
Q	0.3320	1-11/16	3	JDR-Q	17296	57296
8.5mm	0.3346	24mm	76mm	JDR-8.5MM	17385	57385
R	0.3390	1-11/16	3	JDR-R	17297	57297
11/32	0.3438	1-11/16	3	JDR-11/32	17269	57269
S	0.3480	1-3/4	3-1/16	JDR-S	17298	57298
9mm	0.3543	44mm	78mm	JDR-9MM	17386	57386
T	0.3580	1-3/4	3-1/16	JDR-T	17299	57299
23/64	0.3594	1-3/4	3-1/16	JDR-23/64	17270	57270
U	0.3680	1-13/16	3-1/8	JDR-U	17300	57300
9.5mm	0.3740	46mm	79mm	JDR-9.5MM	17387	57387
3/8	0.3750	1	2-1/2	JDR-3/8-S	17441	57441
3/8	0.3750	1-13/16	3-1/8	JDR-3/8	17271	57271
V	0.3770	1-7/8	3-1/4	JDR-V	17301	57301
W	0.3860	1-7/8	3-1/4	JDR-W	17302	57302
25/64	0.3906	1-7/8	3-1/4	JDR-25/64	17272	57272
10mm	0.3937	48mm	83mm	JDR-10MM	17388	57388
X	0.3970	1-15/16	3-5/16	JDR-X	17303	57303
Y	0.4040	1-15/16	3-5/16	JDR-Y	17304	57304

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2 FLUTE • STRAIGHT FLUTE CARBIDE DRILLS

SERIES: JDR

DIAMETER		LOC	OAL	TOOL	BRIGHT EDP	ALTIN EDP
13/32	0.4062	1-15/16	3-5/16	JDR-13/32	17273	57273
Z	0.4130	2	3-3/8	JDR-Z	17305	57305
10.5mm	0.4134	51mm	86mm	JDR-10.5MM	17389	57389
27/64	0.4219	2	3-3/8	JDR-27/64	17274	57274
11mm	0.4331	52mm	87mm	JDR-11MM	17390	57390
7/16	0.4375	1	2-3/4	JDR-7/16-S	17442	57442
7/16	0.4375	2-1/16	3-7/16	JDR-7/16	17275	57275
11.5mm	0.4528	54mm	90mm	JDR-11.5MM	17391	57391
29/64	0.4531	2-1/8	3-9/16	JDR-29/64	17276	57276
15/32	0.4688	2-1/8	3-5/8	JDR-15/32	17277	57277
12mm	0.4724	54mm	92mm	JDR-12MM	17392	57392
31/64	0.4844	2-3/16	3-11/16	JDR-31/64	17278	57278
1/2	0.5000	1	3	JDR-1/2-S	17443	57443
1/2	0.5000	2-1/4	3-3/4	JDR-1/2	17279	57279
9/16	0.5625	1-1/8	3-1/2	JDR-9/16	17444	57444
5/8	0.6250	1-1/4	3-1/2	JDR-5/8	17445	57445
3/4	0.7500	1-1/2	4	JDR-3/4	17446	57446

2 FLUTE • 60° DOUBLE END COMBINED DRILL & COUNTERSINK



Carbide	HSS	2	60°	BRIGHT	+0.000 -0.005		HRC <48	<table border="1"> <tr> <td>P</td> <td>K</td> </tr> <tr> <td>M</td> <td>S</td> </tr> <tr> <td>H</td> <td>N</td> </tr> </table>	P	K	M	S	H	N
P	K													
M	S													
H	N													

SERIES: KDR(CARBIDE) HSCD(HSS)

SIZE	SHK	DRILL DIA	DRILL LENGTH	OAL	CARBIDE TOOL	BRIGHT EDP	HSS TOOL	BRIGHT EDP
00	1/8	0.025	0.030	1-1/2	KDR-00	17362	HSCD-00*	11587
0	1/8	1/32	0.038	1-1/2	KDR-0	17363	HSCD-0*	11589
1	1/8	3/64	3/64	1-1/2	KDR-1	17364	HSCD-1*	11591
2	3/16	5/64	5/64	2	KDR-2	17365	HSCD-2**	11593
3	1/4	7/64	7/64	2	KDR-3	17366	HSCD-3	11595
4	5/16	1/8	1/8	2-1/8	KDR-4	17367	HSCD-4	11597
5	7/16	3/16	3/16	2-3/4	KDR-5	17368	HSCD-5	11599
6	1/2	7/32	7/32	3	KDR-6	17369	HSCD-6	11601
7	5/8	1/4	1/4	3-1/4	KDR-7	10611	HSCD-7	11603
8	3/4	5/16	5/16	3-1/2	KDR-8	10613	HSCD-8	11605

* = 1-1/4 OAL
** = 1-7/8 OAL