

DRILLS - METALWORKING

Aircraft Extension Drills

Straight Shank — High Speed Steel
135° Split Point — Treated (Black Oxide)
6" & 12" Overall Length

Drilling in mild steel where extra length is required.
 135° Split point is self-centering, and reduces thrust.

Black Oxide Surface Treatment increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.



List No. 139

MADE IN USA

List No. 139QI

IMPORT

STANDARD PACKAGE

Fractional Sizes
 3/64" thru 1 1/32" — 12 each
 23/64" thru 1/2" — 1 each

Letter Sizes
 A thru V — 6 each
 W thru Z — 1 each

LIST NO. 139 & 139QI

FRACTIONAL SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	EDP NO. - LIST NO. 139		EDP NO. - LIST NO. 139QI	
			6" OAL	12" OAL	6" OAL	12" OAL
3/64	.0469	3/4	85944*	85974*	86930*	87146*
1/16	.0625	7/8	85945	85975	86931	87147
5/64	.0781	1	85946	85976	86932	87148
3/32	.0938	1-1/4	85947	85977	86933	87149
7/64	.1094	1-1/2	85948	85978	86934	87150
1/8	.1250	1-5/8	85949	85979	86935	87151
9/64	.1406	1-3/4	85950	85980	86936	87152
5/32	.1562	2	85951	85981	86937	87153
11/64	.1719	2-1/8	85952	85982	86938	87154
3/16	.1875	2-5/16	85953	85983	86939	87155
13/64	.2031	2-7/16	85954	85984	86940	87156
7/32	.2187	2-1/2	85955	85985	86941	87157
15/64	.2344	2-5/8	85956	85986	86942	87158
1/4	.2500	2-3/4	85957	85987	86943	87159
17/64	.2656	2-7/8	85958	85988	86944	87160
9/32	.2812	2-15/16	85959	85989	86945	87161
19/64	.2969	3-1/16	85960	85990	86946	87162
5/16	.3125	3-3/16	85961	85991	86947	87163
21/64	.3281	3-5/16	85962	85992	86948	87164
11/32	.3437	3-7/16	85963	85993	86949	87165
23/64	.3594	3-1/2	85964	85994	86950	87166
3/8	.3750	3-5/8	85965	85995	86951	87167
25/64	.3906	3-3/4	85966	85996	86952	87168
13/32	.4062	3-7/8	85967	85997	86953	87169
27/64	.4219	3-15/16	85968	85998	86954	87170
7/16	.4375	4-1/16	85969	85999	86955	87171
29/64	.4531	4-3/16	85970	86000	86956	87172
15/32	.4687	4-5/16	85971	86001	86957	87173
31/64	.4844	4-3/8	85972	86002	86958	87174
1/2	.5000	4-1/2	85973	86003	86959	87175

* Sizes #53 and smaller furnished with 135° regular point.

LIST NO. 139QI

LETTER SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	EDP NO. - LIST NO. 139QI	
			6" OAL	12" OAL
A	.2340	2-5/8	87120	87236
B	.2380	2-3/4	87121	87237
C	.2420	2-3/4	87122	87238
D	.2460	2-3/4	87123	87239
E	.2500	2-3/4	86943	87159
F	.2570	2-7/8	87125	87241
G	.2610	2-7/8	87126	87242
H	.2660	2-7/8	87127	87243
I	.2720	2-7/8	87128	87244
J	.2770	2-7/8	87129	87245
K	.2810	2-15/16	87130	87246
L	.2900	2-15/16	87131	87247
M	.2950	3-1/16	87132	87248
N	.3020	3-1/16	87133	87249
O	.3160	3-1/16	87134	87250
P	.3230	3-5/16	87135	87251
Q	.3320	3-7/16	87136	87252
R	.3390	3-7/16	87137	87253
S	.3480	3-1/2	87138	87254
T	.3580	3-1/2	87139	87255
U	.3680	3-5/8	87140	87256
V	.3770	3-5/8	87141	87257
W	.3860	3-3/4	87142	87258
X	.3970	3-3/4	87143	87259
Y	.4040	3-7/8	87144	87260
Z	.4130	3-7/8	87145	87261

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Aircraft Extension Drills

Straight Shank — High Speed Steel
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6" & 12" Overall Length



List No. 139QI

IMPORT

STANDARD PACKAGE

Wire Gage Sizes

#1 thru #60 — 12 each

Drilling in mild steel where extra length is required.
135° Split point is self-centering, and reduces thrust.

Black Oxide Surface Treatment increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.

LIST NO. 139QI

WIRE GAGE SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	EDP NO. - LIST NO. 139QI	
			6" OAL	12" OAL
1	.2280	2-5/8	87060	87176
2	.2210	2-5/8	87061	87177
3	.2130	2-1/2	87062	87178
4	.2090	2-1/2	87063	87179
5	.2055	2-1/2	87064	87180
6	.2040	2-1/2	87065	87181
7	.2010	2-7/16	87066	87182
8	.1990	2-7/16	87067	87183
9	.1960	2-7/16	87068	87184
10	.1935	2-7/16	87069	87185
11	.1910	2-5/16	87070	87186
12	.1890	2-5/16	87071	87187
13	.1850	2-5/16	87072	87188
14	.1820	2-3/16	87073	87189
15	.1800	2-3/16	87074	87190
16	.1770	2-3/16	87075	87191
17	.1730	2-3/16	87076	87192
18	.1695	2-1/8	87077	87193
19	.1660	2-1/8	87078	87194
20	.1610	2-1/8	87079	87195
21	.1590	2-1/8	87080	87196
22	.1570	2	87081	87197
23	.1540	2	87082	87198
24	.1520	2	87083	87199
25	.1495	1-7/8	87084	87200
26	.1470	1-7/8	87085	87201
27	.1440	1-7/8	87086	87202
28	.1405	1-3/4	87087	87203
29	.1360	1-3/4	87088	87204
30	.1285	1-5/8	87089	87205

WIRE GAGE SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	EDP NO. - LIST NO. 139QI	
			6" OAL	12" OAL
31	.1200	1-5/8	87090	87206
32	.1160	1-5/8	87091	87207
33	.1130	1-1/2	87092	87208
34	.1110	1-1/2	87093	87209
35	.1100	1-1/2	87094	87210
36	.1065	1-7/16	87095	87211
37	.1040	1-7/16	87096	87212
38	.1015	1-7/16	87097	87213
39	.0995	1-3/8	87098	87214
40	.0980	1-3/8	87099	87215
41	.0960	1-3/8	87100	87216
42	.0935	1-1/4	87101	87217
43	.0890	1-1/4	87102	87218
44	.0860	1-1/8	87103	87219
45	.0820	1-1/8	87104	87220
46	.0810	1-1/8	87105	87221
47	.0785	1	87106	87222
48	.0760	1	87107	87223
49	.0730	1	87108	87224
50	.0700	1	87109	87225
51	.0670	1	87110	87226
52	.0635	7/8	87111	87227
53	.0595	7/8	87112*	87228*
54	.0550	7/8	87113*	87229*
55	.0520	7/8	87114*	87230*
56	.0465	3/4	87115*	87231*
57	.0430	3/4	87116*	87232*
58	.0420	11/16	87117*	87233*
59	.0410	11/16	87118*	87234*
60	.0400	11/16	87119*	87235*

* Sizes #53 and smaller furnished with 135° regular point.