



QUALITY CUTTING TOOLS

An ISO 9001:2015 Company

**BY PROFESSIONALS
TO PROFESSIONALS**

Hi-Performance Drilling & Milling Solution in Hss-Cobalt

Jobber Drills

Long Drills

Extra Long Drills

Centre Drills

**Crank Shaft
Parabolic Flute Drills**

End Mills

Roughing End mills

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DIN:
338ISO:
235IS:
5101

HSS-E

30
HELIXTool
Tol h8Point
118

Hss-Co Parallel Shank Drill (Jobber Series)

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231-0100	1	12	38
M231-0110	1.1	14	38
M231-0119	(1.19) 3/64	16	38
M231-0120	1.2	16	38
M231-0130	1.3	16	38
M231-0140	1.4	18	40
M231-0150	1.5	18	40
M231-0159	(1.59) 1/16	20	43
M231-0160	1.6	20	43
M231-0170	1.7	20	43
M231-0180	1.8	22	46
M231-0190	1.9	22	46
M231-0198	(1.98) 5/64	24	49
M231-0200	2	24	49
M231-0210	2.1	24	49
M231-0220	2.2	27	53
M231-0230	2.3	27	53
M231-0238	(2.38) 3/32	30	57
M231-0240	2.4	30	57
M231-0250	2.5	30	57
M231-0260	2.6	30	57
M231-0270	2.7	33	61
M231-0278	(2.78) 7/64	33	61
M231-0280	2.8	33	61
M231-0290	2.9	33	61
M231-0300	3	33	61
M231-0310	3.1	36	65
M231-0317	(3.17) 1/8	36	65
M231-0320	3.2	36	65
M231-0330	3.3	36	65
M231-0340	3.4	39	70
M231-0350	3.5	39	70
M231-0357	(3.57) 9/64	39	70
M231-0360	3.6	39	70
M231-0370	3.7	39	70
M231-0380	3.8	43	75
M231-0390	3.9	43	75
M231-0397	(3.97) 5/32	43	75
M231-0400	4	43	75
M231-0410	4.1	43	75
M231-0420	4.2	43	75
M231-0430	4.3	47	80
M231-0437	(4.37) 11/64	47	80
M231-0440	4.4	47	80
M231-0450	4.5	47	80
M231-0460	4.6	47	80
M231-0470	4.7	47	80
M231-0476	(4.76) 3/16	52	86
M231-0480	4.8	52	86
M231-0490	4.9	52	86
M231-0500	5	52	86
M231-0510	5.1	52	86
M231-0516	(5.16) 13/64	52	86
M231-0520	5.2	52	86
M231-0530	5.3	52	86
M231-0540	5.4	57	93
M231-0550	5.5	57	93
M231-0556	(5.56) 7/32	57	93
M231-0560	5.6	57	93
M231-0570	5.7	57	93
M231-0580	5.8	57	93
M231-0590	5.9	57	93
M231-0595	(5.95) 15/64	63	101
M231-0600	6	63	101
M231-0610	6.1	63	101
M231-0620	6.2	63	101
M231-0630	6.3	63	101
M231-0635	(6.35) 1/4	63	101
M231-0640	6.4	63	101
M231-0650	6.5	63	101
M231-0660	6.6	63	101
M231-0670	6.7	63	101
M231-0675	(6.75) 17/64	69	109
M231-0680	6.8	69	109
M231-0690	6.9	69	109
M231-0700	7	69	109
M231-0710	7.1	69	109
M231-0714	(7.14) 9/32	69	109
M231-0720	7.2	69	109
M231-0730	7.3	69	109
M231-0740	7.4	69	109
M231-0750	7.5	69	109
M231-0754	(7.54) 19/64	75	117
M231-0760	7.6	75	117
M231-0770	7.7	75	117

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231-0780	7.8	75	117
M231-0790	7.9	75	117
M231-0794	(7.94) 5/16	75	117
M231-0800	8	75	117
M231-0810	8.1	75	117
M231-0820	8.2	75	117
M231-0830	8.3	75	117
M231-0833	(8.33) 21/64	75	117
M231-0840	8.4	75	117
M231-0850	8.5	75	117
M231-0860	8.6	81	125
M231-0870	8.7	81	125
M231-0873	(8.73) 11/32	81	125
M231-0880	8.8	81	125
M231-0890	8.9	81	125
M231-0900	9	81	125
M231-0910	9.1	81	125
M231-0913	(9.13) 23/64	81	125
M231-0920	9.2	81	125
M231-0930	9.3	81	125
M231-0940	9.4	81	125
M231-0950	9.5	81	125
M231-0952	(9.52) 3/8	87	133
M231-0960	9.6	87	133
M231-0970	9.7	87	133
M231-0980	9.8	87	133
M231-0990	9.9	87	133
M231-0992	(9.92) 25/64	87	133
M231-1000	10	87	133
M231-1010	10.1	87	133
M231-1020	10.2	87	133
M231-1030	10.3	87	133
M231-1032	(10.3) 13/32	87	133
M231-1040	10.4	87	133
M231-1050	10.5	87	133
M231-1060	10.6	87	133
M231-1070	10.7	94	142
M231-1080	10.8	94	142
M231-1090	10.9	94	142
M231-1072	(10.72) 27/64	94	142
M231-1100	11	94	142
M231-1110	11.1	94	142
M231-1111	(11.11) 7/16	94	142
M231-1120	11.2	94	142
M231-1130	11.3	94	142
M231-1140	11.4	94	142
M231-1150	11.5	94	142
M231-1151	(11.51) 9/64	94	142
M231-1160	11.6	94	142
M231-1170	11.7	94	142
M231-1180	11.8	94	142
M231-1190	11.9	101	151
M231-1191	(11.91) 15/32	101	151
M231-1200	12	101	151
M231-1210	12.1	101	151
M231-1220	12.2	101	151
M231-1230	12.3	101	151
M231-1240	12.4	101	151
M231-1250	12.5	101	151
M231-1260	12.6	101	151
M231-1270	12.70 1/2	101	151
M231-1280	12.8	101	151
M231-1290	12.9	101	151
M231-1300	13	101	151
M231-1310	13.10 33/64	101	151
M231-1320	13.2	101	151
M231-1330	13.3	108	160
M231-1340	13.4	108	160
M231-1349	(13.49) 17/32	108	160
M231-1350	13.5	108	160
M231-1360	13.6	108	160
M231-1370	13.7	108	160
M231-1380	13.8	108	160
M231-1389	(13.89) 35/64	108	160
M231-1390	13.9	108	160
M231-1400	14	108	160
M231-1429	(14.29) 9/16	114	169
M231-1450	14.5	114	169
M231-1468	(14.68) 37/64	114	169
M231-1500	15	114	169
M231-1508	(15.08) 19/32	120	178
M231-1548	(15.48) 39/64	120	178
M231-1550	15.5	120	178
M231-1587	(15.87) 5/8	120	178
M231-1600	16	120	178

Hss-Co Parallel Shank Drill (Long Series)

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231L-0100	1	33	56
M231L-0110	1.1	37	60
M231L-0119	(1.19) 3/64	41	65
M231L-0120	1.2	41	65
M231L-0130	1.3	41	65
M231L-0140	1.4	45	70
M231L-0150	1.5	45	70
M231L-0159	(1.59) 1/16	50	76
M231L-0160	1.6	50	76
M231L-0170	1.7	50	76
M231L-0180	1.8	53	80
M231L-0190	1.9	53	80
M231L-0198	(1.98) 5/64	56	85
M231L-0200	2	56	85
M231L-0210	2.1	56	85
M231L-0220	2.2	59	90
M231L-0230	2.3	59	90
M231L-0238	(2.38) 3/32	62	95
M231L-0240	2.4	62	95
M231L-0250	2.5	62	95
M231L-0260	2.6	62	95
M231L-0270	2.7	66	100
M231L-0278	(2.78) 7/64	66	100
M231L-0280	2.8	66	100
M231L-0290	2.9	66	100
M231L-0300	3	66	100
M231L-0310	3.1	89	106
M231L-0317	(3.17) 1/8	89	106
M231L-0320	3.2	89	106
M231L-0330	3.3	89	106
M231L-0340	3.4	73	112
M231L-0350	3.5	73	112
M231L-0357	(3.57) 9/64	73	112
M231L-0360	3.6	73	112
M231L-0370	3.7	73	112
M231L-0380	3.8	78	119
M231L-0390	3.9	78	119
M231L-0397	(3.97) 5/32	78	119
M231L-0400	4	78	119
M231L-0410	4.1	78	119
M231L-0420	4.2	78	119
M231L-0430	4.3	82	126
M231L-0437	(4.37) 11/64	82	126
M231L-0440	4.4	82	126
M231L-0450	4.5	82	126
M231L-0460	4.6	82	126
M231L-0470	4.7	82	126
M231L-0476	(4.76) 3/16	87	132
M231L-0480	4.8	87	132
M231L-0490	4.9	87	132
M231L-0500	5	87	132
M231L-0510	5.1	87	132
M231L-0516	(5.16) 13/64	87	132
M231L-0520	5.2	87	132
M231L-0530	5.3	87	132
M231L-0540	5.4	91	139
M231L-0550	5.5	91	139
M231L-0556	(5.56) 7/32	91	139
M231L-0560	5.6	91	139
M231L-0570	5.7	91	139
M231L-0580	5.8	91	139
M231L-0590	5.9	91	139
M231L-0595	(5.95) 15/64	97	148
M231L-0600	6	97	148
M231L-0610	6.1	97	148
M231L-0620	6.2	97	148
M231L-0630	6.3	97	148
M231L-0635	(6.35) 1/4	97	148
M231L-0640	6.4	97	148
M231L-0650	6.5	97	148
M231L-0660	6.6	97	148
M231L-0670	6.7	97	148
M231L-0675	(6.75) 17/64	102	156
M231L-0680	6.8	102	156
M231L-0690	6.9	102	156
M231L-0700	7	102	156
M231L-0710	7.1	102	156
M231L-0714	(7.14) 9/32	102	156
M231L-0720	7.2	102	156
M231L-0730	7.3	102	156
M231L-0740	7.4	102	156
M231L-0750	7.5	102	156
M231L-0754	(7.54) 19/64	109	165
M231L-0760	7.6	109	165

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231L-0770	7.7	109	165
M231L-0780	7.8	109	165
M231L-0790	7.9	109	165
M231L-0794	(7.94) 5/16	109	165
M231L-0800	8	109	165
M231L-0810	8.1	109	165
M231L-0820	8.2	109	165
M231L-0830	8.3	109	165
M231L-0833	(8.33) 21/64	109	165
M231L-0840	8.4	109	165
M231L-0850	8.5	109	165
M231L-0860	8.6	115	175
M231L-0870	8.7	115	175
M231L-0873	(8.73) 11/32	115	175
M231L-0880	8.8	115	175
M231L-0890	8.9	115	175
M231L-0900	9	115	175
M231L-0910	9.1	115	175
M231L-0913	(9.13) 23/64	115	175
M231L-0920	9.2	115	175
M231L-0930	9.3	115	175
M231L-0940	9.4	115	175
M231L-0950	9.5	115	175
M231L-0952	(9.52) 3/8	121	184
M231L-0960	9.6	121	184
M231L-0970	9.7	121	184
M231L-0980	9.8	121	184
M231L-0990	9.9	121	184
M231L-0992	(9.92) 25/64	121	184
M231L-1000	10	121	184
M231L-1020	10.2	121	184
M231L-1030	(10.3) 13/32	121	184
M231L-1040	10.4	121	184
M231L-1050	10.5	121	184
M231L-1060	10.6	121	184
M231L-1070	10.7	128	195
M231L-1072	(10.72) 27/64	128	195
M231L-1080	10.8	128	195
M231L-1090	10.9	128	195
M231L-1100	11	128	195
M231L-1110	11.1	128	195
M231L-1111	(11.11) 7/16	128	195
M231L-1120	11.2	128	195
M231L-1130	11.3	128	195
M231L-1140	11.4	128	195
M231L-1150	11.5	128	195
M231L-1151	(11.51) 29/64	128	195
M231L-1160	11.6	128	195
M231L-1170	11.7	128	195
M231L-1180	11.8	128	195
M231L-1190	11.9	134	205
M231L-1191	(11.91) 15/32	134	205
M231L-1200	12	134	205
M231L-1210	12.1	134	205
M231L-1220	12.2	134	205
M231L-1230	12.3 31/64	134	205
M231L-1240	12.4	134	205
M231L-1250	12.5	134	205
M231L-1260	12.6	134	205
M231L-1270	12.70 1/2	134	205
M231L-1280	12.8	134	205
M231L-1290	12.9	134	205
M231L-1300	13	134	205
M231L-1310	13.10 33/64	134	205
M231L-1320	13.2	140	214
M231L-1330	13.3	140	214
M231L-1340	13.4	140	214
M231L-1349	(13.49) 17/32	140	214
M231L-1350	13.5	140	214
M231L-1360	13.6	140	214
M231L-1370	13.7	140	214
M231L-1380	13.8	140	214
M231L-1389	(13.89) 35/64	140	214
M231L-1390	13.9	140	214
M231L-1400	14	140	214
M231L-1429	(14.29) 9/16	144	220
M231L-1450	14.5	144	220
M231L-1468	(14.68) 37/64	144	220
M231L-1500	15	144	220
M231L-1508	(15.08) 19/32	149	227
M231L-1548	(15.48) 39/64	149	227
M231L-1550	15.5	149	227
M231L-1587	(15.87) 5/8	149	227
M231L-1600	16	149	227

DIN:
340ISO:
235IS:
5102BS:
328

HSS-E

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DIN:
1869/1ISO:
3292IS:
7823BS:
328

HSS-E

30
HELIXTool
Tol h8Point
118

Hss-Co Parallel Shank Drill (Extra Long Series)

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231EL-0100-100	1	50	100
M231EL-0100-125	1	75	125
M231EL-0100-150	1	100	150
M231EL-0119-100	(1.19) 3/64	50	100
M231EL-0119-125	(1.19) 3/64	75	125
M231EL-0119-150	(1.19) 3/64	100	150
M231EL-0150-100	1.5	50	100
M231EL-0150-125	1.5	75	125
M231EL-0150-150	1.5	100	150
M231EL-0150-175	1.5	125	175
M231EL-0150-200	1.5	150	200
M231EL-0159-100	(1.59) 1/16	50	100
M231EL-0159-125	(1.59) 1/16	75	125
M231EL-0159-150	(1.59) 1/16	100	150
M231EL-0159-200	(1.59) 1/16	150	200
M231EL-0198-100	(1.98) 5/64	50	100
M231EL-0198-125	(1.98) 5/64	75	125
M231EL-0198-150	(1.98) 5/64	100	150
M231EL-0198-200	(1.98) 5/64	150	200
M231EL-0198-250	(1.98) 5/64	200	250
M231EL-0198-300	(1.98) 5/64	250	300
M231EL-0200-125	2	75	125
M231EL-0200-150	2	100	150
M231EL-0200-175	2	125	175
M231EL-0200-200	2	150	200
M231EL-0238-125	(2.38) 3/32	75	125
M231EL-0238-150	(2.38) 3/32	100	150
M231EL-0238-175	(2.38) 3/32	125	175
M231EL-0238-200	(2.38) 3/32	150	200
M231EL-0250-150	2.5	100	150
M231EL-0250-200	2.5	150	200
M231EL-0278-125	(2.78) 7/64	75	125
M231EL-0278-150	(2.78) 7/64	100	150
M231EL-0278-175	(2.78) 7/64	125	175
M231EL-0278-200	(2.78) 7/64	150	200
M231EL-0300-125	3	75	125
M231EL-0300-150	3	100	150
M231EL-0300-175	3	125	175
M231EL-0300-200	3	150	200
M231EL-0300-250	3	200	250
M231EL-0317-150	(3.17) 1/8	100	150
M231EL-0317-200	(3.17) 1/8	150	200
M231EL-0317-250	(3.17) 1/8	200	250
M231EL-0330-150	3.3	100	150
M231EL-0330-200	3.3	150	200
M231EL-0330-250	3.3	200	250
M231EL-0350-150	3.5	100	150
M231EL-0350-200	3.5	150	200
M231EL-0350-250	3.5	200	250
M231EL-0397-150	(3.97) 5/32	100	150
M231EL-0397-200	(3.97) 5/32	150	200
M231EL-0397-250	(3.97) 5/32	200	250
M231EL-0400-150	4	100	150
M231EL-0400-200	4	150	200
M231EL-0400-250	4	100	250
M231EL-0400-300	4	250	300
M231EL-0420-150	4.2	100	150
M231EL-0420-200	4.2	150	200
M231EL-0420-250	4.2	200	250
M231EL-0420-300	4.2	250	300
M231EL-0437-150	(4.37) 11/64	100	150
M231EL-0437-200	(4.37) 11/64	150	200
M231EL-0437-250	(4.37) 11/64	200	250

Item Code	Size (H8) MM Inch	Flute Length	O.A.L
M231EL-0437-300	(4.37) 11/64	250	300
M231EL-0450-150	4.5	100	150
M231EL-0450-200	4.5	150	200
M231EL-0450-250	4.5	100	250
M231EL-0450-300	4.5	250	300
M231EL-0476-150	(4.76) 3/16	100	150
M231EL-0476-200	(4.76) 3/16	150	200
M231EL-0476-250	(4.76) 3/16	200	250
M231EL-0476-300	(4.76) 3/16	250	300
M231EL-0500-150	5	100	150
M231EL-0500-200	5	150	200
M231EL-0500-250	5	200	250
M231EL-0500-300	5	250	300
M231EL-0500-350	5	300	350
M231EL-0500-400	5	300	400
M231EL-0516-150	(5.16) 13/64	100	150
M231EL-0516-200	(5.16) 13/64	150	200
M231EL-0516-250	(5.16) 13/64	200	250
M231EL-0516-300	(5.16) 13/64	250	300
M231EL-0550-200	5.5	150	200
M231EL-0550-250	5.5	200	250
M231EL-0550-300	5.5	250	300
M231EL-0550-350	5.5	300	350
M231EL-0550-400	5.5	300	400
M231EL-0556-100	(5.56) 7/32	100	150
M231EL-0556-200	(5.56) 7/32	150	200
M231EL-0556-250	(5.56) 7/32	200	250
M231EL-0556-300	(5.56) 7/32	250	300
M231EL-0556-350	(5.56) 7/32	300	350
M231EL-0595-200	(5.95) 15/64	150	200
M231EL-0595-250	(5.95) 15/64	200	250
M231EL-0595-300	(5.95) 15/64	250	300
M231EL-0595-350	(5.95) 15/64	300	350
M231EL-0600-200	6	150	200
M231EL-0600-250	6	200	250
M231EL-0600-300	6	250	300
M231EL-0600-350	6	300	350
M231EL-0600-400	6	300	400
M231EL-0635-200	(6.35) 1/4	150	200
M231EL-0635-250	(6.35) 1/4	200	250
M231EL-0635-300	(6.35) 1/4	250	300
M231EL-0635-350	(6.35) 1/4	300	350
M231EL-0635-400	(6.35) 1/4	300	400
M231EL-0650-200	6.5	150	200
M231EL-0650-250	6.5	200	250
M231EL-0650-300	6.5	250	300
M231EL-0650-350	6.5	300	350
M231EL-0650-400	6.5	300	400
M231EL-0675-200	(6.75) 17/64	150	200
M231EL-0675-250	(6.75) 17/64	200	250
M231EL-0675-300	(6.75) 17/64	250	300
M231EL-0675-350	(6.75) 17/64	300	350
M231EL-0675-400	(6.75) 17/64	300	400
M231EL-0680-200	6.8	150	200
M231EL-0680-250	6.8	200	250
M231EL-0680-300	6.8	250	300
M231EL-0680-350	6.8	300	350
M231EL-0680-400	6.8	300	400
M231EL-0700-200	7	150	200
M231EL-0700-250	7	200	250
M231EL-0700-300	7	250	300
M231EL-0700-350	7	300	350

Hss-Co Parallel Shank Drill (Extra Long Series)

Item Code	Size (H8)		Flute Length	
	MM	Inch		
M231EL-0700-400	7		300	400
M231EL-0714-200	(7.14)	9/32	150	200
M231EL-0714-250	(7.14)	9/32	200	250
M231EL-0714-300	(7.14)	9/32	250	300
M231EL-0714-350	(7.14)	9/32	300	350
M231EL-0714-400	(7.14)	9/32	300	400
M231EL-0750-200	7.5		150	200
M231EL-0750-250	7.5		200	250
M231EL-0750-300	7.5		250	300
M231EL-0750-350	7.5		300	350
M231EL-0750-400	7.5		300	400
M231EL-0754-200	(7.54)	19/64	150	200
M231EL-0754-250	(7.54)	19/64	200	250
M231EL-0754-300	(7.54)	19/64	250	300
M231EL-0754-350	(7.54)	19/64	300	350
M231EL-0754-400	(7.54)	19/64	300	400
M231EL-0794-200	(7.94)	5/16	150	200
M231EL-0794-250	(7.94)	5/16	200	250
M231EL-0794-300	(7.94)	5/16	250	300
M231EL-0794-350	(7.94)	5/16	300	350
M231EL-0794-400	(7.94)	5/16	300	400
M231EL-0800-200	8		150	200
M231EL-0800-250	8		200	250
M231EL-0800-300	8		250	300
M231EL-0800-350	8		300	350
M231EL-0800-400	8		300	400
M231EL-0820-200	8.2		150	200
M231EL-0820-250	8.2		200	250
M231EL-0820-300	8.2		250	300
M231EL-0820-350	8.2		300	350
M231EL-0820-400	8.2		300	400
M231EL-0833-200	(8.33)	21/64	150	200
M231EL-0833-250	(8.33)	21/64	200	250
M231EL-0833-300	(8.33)	21/64	250	300
M231EL-0833-350	(8.33)	21/64	300	350
M231EL-0833-400	(8.33)	21/64	300	400
M231EL-0850-200	8.5		150	200
M231EL-0850-250	8.5		200	250
M231EL-0850-300	8.5		250	300
M231EL-0850-350	8.5		300	350
M231EL-0850-400	8.5		300	400
M231EL-0873-200	(8.73)	11/32	150	200
M231EL-0873-250	(8.73)	11/32	200	250
M231EL-0873-300	(8.73)	11/32	250	300
M231EL-0873-350	(8.73)	11/32	300	350
M231EL-0873-400	(8.73)	11/32	300	400
M231EL-0900-200	9		150	200
M231EL-0900-250	9		200	250
M231EL-0900-300	9		150	300
M231EL-0900-350	9		300	350
M231EL-0900-400	9		300	400
M231EL-0913-200	(9.13)	23/64	150	200
M231EL-0913-250	(9.13)	23/64	200	250
M231EL-0913-300	(9.13)	23/64	150	300
M231EL-0913-350	(9.13)	23/64	300	350
M231EL-0913-400	(9.13)	23/64	300	400
M231EL-0950-200	9.5		150	200
M231EL-0950-250	9.5		200	250
M231EL-0950-300	9.5		250	300
M231EL-0950-350	9.5		300	350
M231EL-0950-400	9.5		300	400
M231EL-0952-200	(9.52)	3/8	150	200

Item Code	Size (H8)		Flute Length	O.A.L
	MM	Inch		
M231EL-0952-250	(9.52)	3/8	200	250
M231EL-0952-300	(9.52)	3/8	250	300
M231EL-0952-350	(9.52)	3/8	300	350
M231EL-0952-400	(9.52)	3/8	300	400
M231EL-0992-200	(9.92)	25/64	150	200
M231EL-0992-250	(9.92)	25/64	200	250
M231EL-0992-300	(9.92)	25/64	250	300
M231EL-0992-350	(9.92)	25/64	300	350
M231EL-0992-400	(9.92)	25/64	300	400
M231EL-1000-250	10		200	250
M231EL-1000-300	10		250	300
M231EL-1000-350	10		300	350
M231EL-1000-400	10		300	400
M231EL-1020-250	10.2		200	250
M231EL-1020-300	10.2		250	300
M231EL-1020-350	10.2		300	350
M231EL-1020-400	10.2		300	400
M231EL-1030-250	(10.3)	13/32	200	250
M231EL-1030-300	(10.3)	13/32	250	300
M231EL-1030-350	(10.3)	13/32	300	350
M231EL-1030-400	(10.3)	13/32	300	400
M231EL-1050-250	10.5		200	250
M231EL-1050-300	10.5		250	300
M231EL-1050-350	10.5		300	350
M231EL-1050-400	10.5		300	400
M231EL-1072-250	(10.72)	27/64	200	250
M231EL-1072-300	(10.72)	27/64	250	300
M231EL-1072-350	(10.72)	27/64	300	350
M231EL-1072-400	(10.72)	27/64	300	400
M231EL-1100-250	11		200	250
M231EL-1100-300	11		250	300
M231EL-1100-350	11		300	350
M231EL-1100-400	11		300	400
M231EL-1111-250	(11.11)	7/16	200	250
M231EL-1111-300	(11.11)	7/16	250	300
M231EL-1111-350	(11.11)	7/16	300	350
M231EL-1111-400	(11.11)	7/16	300	400
M231EL-1150-250	11.5		200	250
M231EL-1150-300	11.5		250	300
M231EL-1150-350	11.5		300	350
M231EL-1150-400	11.5		300	400
M231EL-1191-250	(11.91)	15/32	200	250
M231EL-1191-300	(11.91)	15/32	250	300
M231EL-1191-350	(11.91)	15/32	300	350
M231EL-1191-400	(11.91)	15/32	300	400
M231EL-1200-250	12		200	250
M231EL-1200-300	12		250	300
M231EL-1200-350	12		300	350
M231EL-1200-400	12		300	400
M231EL-1250-250	12.5		200	250
M231EL-1250-300	12.5		250	300
M231EL-1250-350	12.5		300	350
M231EL-1250-400	12.5		300	400
M231EL-1270-250	(12.70)	1/2	200	250
M231EL-1270-300	(12.70)	1/2	250	300
M231EL-1270-350	(12.70)	1/2	300	350
M231EL-1270-400	(12.70)	1/2	300	400
M231EL-1300-250	13		200	250
M231EL-1300-300	13		250	300
M231EL-1300-350	13		300	350
M231EL-1300-400	13		300	400

DIN:
1869/1

ISO:
3292

IS:
7823

BS:
328

HSS-E

30
HELIX

Tool
Tol h8

Point
118



HSS-Co Centre Drill Form - A

Item Code	Pilot Dia	Body Dia	Pilot Length	Overall
M400A-0050	0.5	3.15	0.8	25
M400A-0080	0.8	3.15	1.1	25
M400A-0100	1	3.15	1.3	31.5
M400A-0125	1.25	3.15	1.6	31.5
M400A-0160	1.6	4	2	35.5
M400A-0200	2	5	2.5	40
M400A-0250	2.5	6.3	3.1	45
M400A-0315	3.15	8	3.9	50
M400A-0400	4	10	5	56
M400A-0500	5	12.5	6.3	63
M400A-0630	6.3	16	8	71

Sizes upto 1mm are Single Sided

DIN:
333

ISO:
866

IS:
6708

HSS-Co Centre Drill Form - B

Item Code	Pilot Dia K12	Body Dia h9	OAL		Pilot Length	
			Max	Min	Max	Min
M400B-0160	1.6	6.3	47	43	2.8	2
M400B-0200	2	8	52	48	3.3	2.5
M400B-0250	2.5	10	59	53	4.1	3.1
M400B-0315	3.15	11.2	63	57	4.9	3.9
M400B-0400	4	14	70	64	6.2	5
M400B-0500	5	18	78	72	7.5	6.3
M400B-0630	6.3	20	83	77	9.2	8
M400B-0800	8	25	103	97	11.5	10.1
M400B-1000	10	31.5	128	122	14.2	12.8

DIN:
333

ISO:
2540

IS:
6709

HSS-Co Centre Drill Form - R

Item Code	Pilot Dia	Body Dia	Pilot Length	Overall
M400R-0050	0.5	3.15	0.8	25
M400R-0080	0.8	3.15	1.1	25
M400R-0100	1	3.15	1.3	31.5
M400R-0125	1.25	3.15	1.6	31.5
M400R-0160	1.6	4	2	35.5
M400R-0200	2	5	2.5	40
M400R-0250	2.5	6.3	3.1	45
M400R-0315	3.15	8	3.9	50
M400R-0400	4	10	5	56
M400R-0500	5	12.5	6.3	63
M400R-0630	6.3	16	8	71

DIN:
333

HSS-Co Centre Drill Form BS

Item Code	BS	Pilot Dia d1	Body Dia d2	Pilot Length l1 max	Pilot Length l1 Min	Overall l2
M400-BS1	BS1	3/64"	1/8"	5/64"	1/6"	1.1/2"
M400-BS2	BS2	1/16"	3/16"	3/32"	5/64"	1.3/4"
M400-BS3	BS3	3/32"	1/4"	5/32"	1/8"	2"
M400-BS4	BS4	1/8"	5/16"	3/16"	5/32"	2.1/4"
M400-BS5	BS5	3/16"	7/16"	9/32"	1/4"	2.1/2"
M400-BS6	BS6	1/4"	5/8"	3/8"	5/16"	3"
M400-BS7	BS7	5/16"	3/4"	15/32"	13/32"	3.1/2"

BS:
328

HSS-Co ENDMILL

M104FS - (4 Flute Flat STD Length) (DIN-844K)



Code	Cutter dia-k10	Cutter length	OAL	Shank dia-h6
M104FS-0600	6	13	57	6
M104FS-0700	7	16	66	10
M104FS-0800	8	19	69	10
M104FS-0900	9	19	69	10
M104FS-1000	10	22	72	10
M104FS-1100	11	22	79	12
M104FS-1200	12	26	83	12
M104FS-1300	13	26	83	12
M104FS-1400	14	26	83	12
M104FS-1500	15	26	83	12
M104FS-1600	16	32	92	16
M104FS-1800	18	32	92	16
M104FS-2000	20	38	104	20
M104FS-2200	22	38	104	20
M104FS-2400	24	45	121	25
M104FS-2500	25	45	121	25
M104FS-2600	26	45	121	25
M104FS-2800	28	45	121	25
M104FS-3000	30	45	121	25
M104FS-3200	32	53	133	32
M104FS-4000	40	63	155	40

HSS-Co ROUGHING ENDMILL

M124RCS-(4 Flute Flat STD Length Rough) (DIN 844K)



Code	Cutter dia-k12	Cutter length	OAL	Shank dia-h6
M124RCS-0600	6	13	57	6
M124RCS-0700	7	16	66	10
M124RCS-0800	8	19	69	10
M124RCS-0900	9	19	69	10
M124RCS-1000	10	22	72	10
M124RCS-1100	11	22	79	12
M124RCS-1200	12	26	83	12
M124RCS-1300	13	26	83	12
M124RCS-1400	14	26	83	12
M124RCS-1500	15	26	83	12
M124RCS-1600	16	32	92	16
M124RCS-1800	18	32	92	16
M124RCS-2000	20	38	104	20
M124RCS-2200	22	38	104	20
M124RCS-2400	24	45	121	25
M124RCS-2500	25	45	121	25
M124RCS-2600	26	45	121	25
M124RCS-2800	28	45	121	25
M124RCS-3000	30	45	121	25
M124RCS-3200	32	53	133	32
M124RCS-4000	40	63	155	40

HSS-Co ENDMILL

M104FL-(4 Flute Flat LONG Length) (DIN-844L)



Code	Cutter dia-k10	Cutter length	OAL	Shank dia-h6
M104FL-0600	6	24	68	6
M104FL-0700	7	30	80	10
M104FL-0800	8	38	88	10
M104FL-0900	9	38	88	10
M104FL-1000	10	45	95	10
M104FL-1200	12	53	110	12
M104FL-1400	14	53	110	12
M104FL-1600	16	63	123	16
M104FL-1800	18	63	123	16
M104FL-2000	20	75	141	20
M104FL-2200	22	75	141	20
M104FL-2500	25	90	166	25
M104FL-2800	28	90	166	25
M104FL-3200	32	106	186	32

HSS-Co ROUGHING ENDMILL

M124RCL-(4 Flute Flat LONG Length Rough) (DIN 844L)



Code	Cutter dia-k12	Cutter length	OAL	Shank dia-h6
M124RCL-0600	6	24	68	6
M124RCL-0700	7	30	80	10
M124RCL-0800	8	38	88	10
M124RCL-0900	9	38	88	10
M124RCL-1000	10	45	95	10
M124RCL-1200	12	53	110	12
M124RCL-1400	14	53	110	12
M124RCL-1600	16	63	123	16
M124RCL-1800	18	63	123	16
M124RCL-2000	20	75	141	20
M124RCL-2200	22	75	141	20
M124RCL-2500	25	90	166	25
M124RCL-2800	28	90	166	25
M124RCL-3200	32	106	186	32

Other Range of Products



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