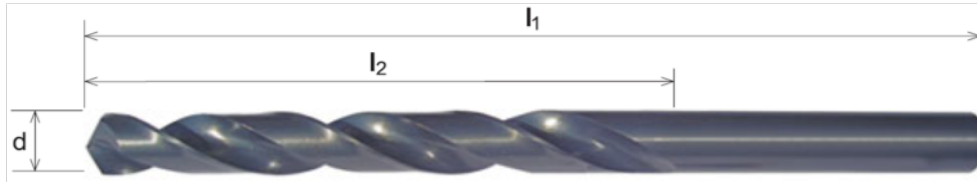


CAPITAL

CUTTING TOOLS



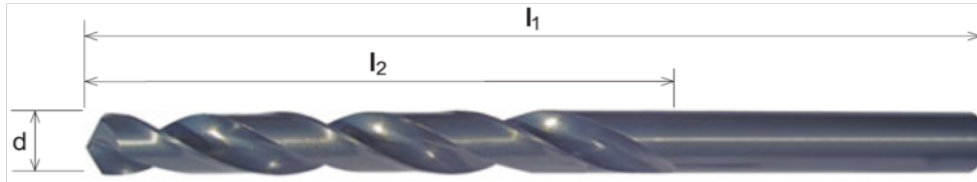
JOBBER DRILLS (BULK) BLACK FINISH

Code	Size	l ₂	l ₁	\$ ea.
J102-00156	1/64	5	20	4.81
J101-00157	0.4	5	20	4.81
J101-00165	0.42	5	20	6.72
J101-00177	0.45	5	20	4.81
J101-00189	0.48	5	20	6.72
J101-00197	0.5	6	22	4.81
J101-00205	0.52	6	22	6.72
J101-00217	0.55	7	24	4.81
J101-00228	0.58	7	24	6.72
J101-00236	0.6	7	24	4.81
J101-00244	0.62	8	26	6.72
J101-00256	0.65	8	26	4.81
J101-00268	0.68	9	28	6.22
J101-00276	0.7	9	28	4.81
J101-00283	0.72	9	28	5.20
J101-00295	0.75	9	28	4.81
J101-00307	0.78	10	30	4.81
J102-00312	1/32	10	30	3.32
J101-00315	0.8	10	30	3.05
J101-00323	0.82	10	30	4.79
J101-00335	0.85	10	30	3.05
J101-00346	0.88	11	32	4.81
J101-00354	0.9	11	32	3.05
J101-00362	0.92	11	32	4.81
J101-00374	0.95	11	32	3.05
J101-00386	0.98	12	34	4.81
J101-00394	1	12	34	1.88
J101-00413	1.05	12	34	3.01
J101-00433	1.1	14	36	1.88
J101-00453	1.15	14	36	3.01
J102-00469	3/64	16	38	1.88
J101-00472	1.2	16	38	1.88

Code	Size	l ₂	l ₁	\$ ea.
J101-00492	1.25	16	38	3.01
J101-00512	1.3	16	38	1.93
J101-00531	1.35	18	40	3.07
J101-00551	1.4	18	40	2.28
J101-00571	1.45	18	40	2.28
J101-00591	1.5	18	40	1.72
J101-00610	1.55	20	43	2.29
J102-00625	1/16	20	43	1.71
J101-00630	1.6	20	43	1.68
J101-00650	1.65	20	43	2.29
J101-00669	1.7	20	43	1.60
J101-00689	1.75	22	46	2.28
J101-00709	1.8	22	46	1.55
J101-00728	1.85	22	46	2.29
J101-00748	1.9	22	46	1.55
J101-00768	1.95	24	49	2.29
J102-00781	5/64	24	49	1.55
J101-00787	2	24	49	1.55
J101-00807	2.05	24	49	1.93
J101-00827	2.1	24	49	1.55
J101-00846	2.15	27	53	1.93
J101-00866	2.2	27	53	1.55
J101-00886	2.25	27	53	1.93
J101-00906	2.3	27	53	1.55
J101-00925	2.35	27	53	1.93
J102-00938	3/32	30	57	1.55
J101-00945	2.4	30	57	1.55
J101-00965	2.45	30	57	1.93
J101-00984	2.5	30	57	1.55
J101-01004	2.55	30	57	1.93
J101-01024	2.6	30	57	1.55
J101-01043	2.65	30	57	1.93

CAPITAL

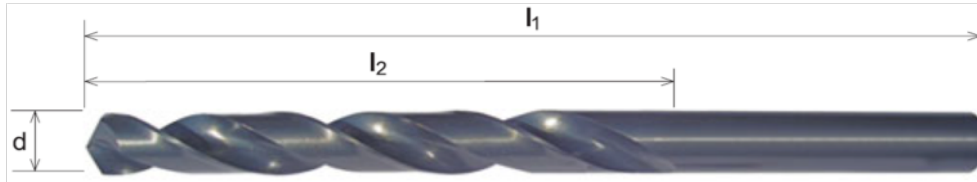
CUTTING TOOLS



JOBBER DRILLS (BULK) BLACK FINISH

Code	Size	l ₂	l ₁	\$ ea.
J101-01063	2.7	33	61	1.42
J101-01083	2.75	33	61	1.55
J102-01094	7/64	33	61	1.42
J101-01102	2.8	33	61	1.42
J101-01122	2.85	33	61	1.58
J101-01142	2.9	33	61	1.42
J101-01161	2.95	33	61	1.58
J101-01181	3	33	61	1.49
J101-01220	3.1	36	65	1.49
J102-01250	1/8	36	65	1.49
J101-01260	3.2	36	65	1.49
J101-01279	3.25	36	65	1.58
J101-01299	3.3	36	65	1.55
J101-01339	3.4	39	70	1.55
J101-01378	3.5	39	70	1.63
J102-01406	9/64	39	70	1.69
J101-01417	3.6	39	70	1.55
J101-01457	3.7	39	70	1.69
J101-01476	3.75	39	70	1.74
J101-01496	3.8	43	75	1.74
J101-01535	3.9	43	75	1.80
J102-01562	5/32	43	75	1.80
J101-01575	4	43	75	1.87
J101-01614	4.1	43	75	1.95
J101-01654	4.2	43	75	1.49
J101-01673	4.25	43	75	1.95
J101-01693	4.3	47	80	2.07
J102-01719	11/64	47	80	2.10
J101-01732	4.4	47	80	2.07
J101-01772	4.5	47	80	2.07
J101-01811	4.6	47	80	2.23
J101-01850	4.7	47	80	2.23

Code	Size	l ₂	l ₁	\$ ea.
J101-01870	4.75	47	80	2.29
J101-01875	3/16	52	86	2.33
J101-01890	4.8	52	86	2.44
J101-01929	4.9	52	86	2.44
J101-01968	5.0	52	86	2.56
J101-02008	5.1	52	86	2.56
J102-02031	13/64	52	86	2.69
J101-02047	5.2	52	86	3.18
J101-02066	5.25	52	86	3.01
J101-02087	5.3	52	86	3.01
J101-02126	5.4	57	93	3.01
J101-02165	5.5	57	93	3.01
J102-02188	7/32	57	93	3.12
J101-02205	5.6	57	93	3.12
J101-02244	5.7	57	93	3.23
J101-02263	5.75	57	93	3.08
J101-02283	5.8	57	93	3.08
J101-02323	5.9	57	93	3.08
J102-02344	15/64	57	93	3.08
J101-02362	6.0	57	93	3.19
J101-02402	6.1	63	101	3.34
J101-02441	6.2	63	101	3.34
J101-02460	6.25	63	101	3.51
J101-02480	6.3	63	101	3.34
J102-02500	1/4	63	101	3.46
J101-02520	6.4	63	101	3.59
J101-02559	6.5	63	101	3.59
J101-02598	6.6	63	101	3.92
J101-02638	6.7	63	101	3.92
J102-02656	17/64	69	109	3.92
J101-02657	6.75	69	109	4.13
J101-02677	6.8	69	109	3.99



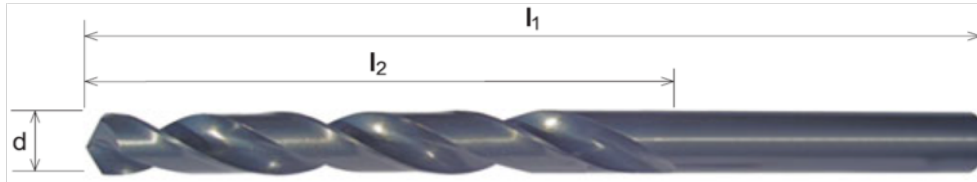
JOBBER DRILLS (BULK) BLACK FINISH

Code	Size	l ₂	l ₁	\$ ea.
J101-02717	6.9	69	109	4.16
J101-02756	7.0	69	109	4.19
J101-02795	7.1	69	109	4.19
J102-02812	9/32	69	109	4.40
J101-02835	7.2	69	109	4.49
J101-02854	7.25	69	109	4.78
J101-02874	7.3	69	109	4.49
J101-02913	7.4	69	109	4.49
J101-02953	7.5	69	109	4.76
J102-02969	19/64	75	117	4.76
J101-02992	7.6	75	117	4.90
J101-03032	7.7	75	117	5.12
J101-03051	7.75	75	117	5.43
J101-03071	7.8	75	117	5.12
J101-03110	7.9	75	117	5.12
J102-03125	5/16	75	117	5.14
J101-03150	8.0	75	117	5.12
J101-03189	8.1	75	117	5.58
J101-03228	8.2	75	117	5.58
J101-03258	8.25	75	117	5.85
J101-03268	8.3	75	117	5.58
J102-03281	21/64	75	117	5.58
J101-03307	8.4	75	117	5.66
J101-03346	8.5	75	117	5.82
J101-03386	8.6	81	125	6.11
J101-03425	8.7	81	125	6.11
J102-03438	11/32	81	125	6.11
J101-03444	8.75	81	125	6.61
J101-03465	8.8	81	125	6.39
J101-03504	8.9	81	125	6.39
J101-03543	9.0	81	125	6.39
J101-03583	9.1	81	125	6.64

Code	Size	l ₂	l ₁	\$ ea.
J102-03594	23/64	81	125	6.64
J101-03622	9.2	81	125	7.07
J101-03641	9.25	81	125	7.64
J101-03661	9.3	81	125	7.07
J101-03701	9.4	81	125	7.07
J101-03740	9.5	81	125	7.07
J102-03750	3/8	87	133	7.07
J101-03780	9.6	87	133	7.48
J101-03819	9.7	87	133	7.48
J101-03838	9.75	87	133	7.99
J101-03858	9.8	87	133	7.54
J101-03898	9.9	87	133	7.54
J102-03906	25/64	87	133	7.54
J101-03937	10.0	87	133	7.59
J101-03976	10.1	87	133	11.58
J101-04016	10.2	87	133	8.45
J101-04035	10.25	87	133	11.58
J101-04055	10.3	87	133	11.58
J102-04062	13/32	87	133	8.45
J101-04094	10.4	87	133	12.27
J101-04134	10.5	87	133	8.60
J101-04173	10.6	87	133	12.87
J101-04213	10.7	94	142	12.87
J102-04219	27/64	94	142	9.41
J101-04232	10.75	94	142	14.20
J101-04252	10.8	94	142	14.20
J101-04291	10.9	94	142	14.20
J101-04331	11.0	94	142	9.95
J101-04370	11.1	94	142	15.48
J102-04375	7/16	94	142	10.50
J101-04409	11.2	94	142	16.13
J101-04429	11.25	94	142	16.13

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CUTTING TOOLS



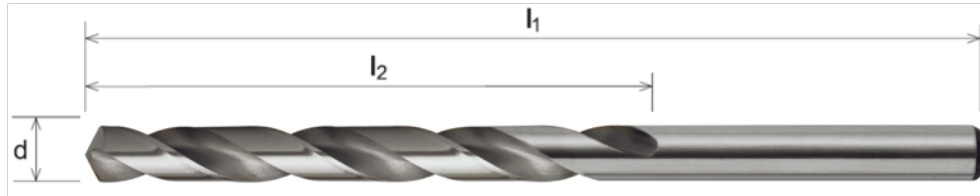
JOBBER DRILLS (BULK) BLACK FINISH

Code	Size	l ₂	l ₁	\$ ea.
J101-04449	11.3	94	142	16.13
J101-04488	11.4	94	142	15.99
J101-04528	11.5	94	142	11.10
J102-04531	29/64	94	142	11.10
J101-04567	11.6	94	142	17.41
J101-04606	11.7	94	142	17.41
J101-04625	11.75	94	142	17.41
J101-04646	11.8	94	142	17.41
J101-04685	11.9	101	151	16.53
J102-04688	15/32	101	151	12.54
J101-04724	12.0	101	151	12.68
J101-04764	12.1	101	151	19.36
J101-04803	12.2	101	151	19.36
J101-04822	12.25	101	151	20.12
J101-04843	12.3	101	151	19.36
J102-04844	31/64	101	151	13.30
J101-04882	12.4	101	151	20.04
J101-04924	12.5	101	151	13.93
J101-04961	12.6	101	151	20.04
J101-04987	12.7	101	151	20.67
J102-05000	1/2	101	151	13.95
J101-05019	12.75	101	151	20.67
J101-05039	12.8	101	151	20.67
J101-05079	12.9	101	151	20.67
J101-05118	13.0	101	151	14.98
J102-05157	33/64	101	151	32.12

Code	Size	l ₂	l ₁	\$ ea.
J101-05216	13.25	108	160	45.22
J101-05275	13.4	108	160	45.22
J102-05312	17/32	108	160	32.12
J101-05314	13.5	108	160	44.25
J101-05413	13.75	108	160	44.25
J102-05468	35/64	108	160	32.25
J101-05512	14.0	108	160	32.28
J102-05625	9/16	114	169	33.50
J101-05709	14.5	114	169	34.20
J102-05781	37/64	114	169	34.20
J101-05906	15.0	114	169	36.95
J102-05938	19/32	120	178	36.95
J102-06094	39/64	120	178	36.96
J101-06102	15.5	120	178	44.25
J101-06200	15.75	120	178	44.25
J102-06250	5/8	120	178	42.40
J101-06299	16.0	120	178	40.74
J101-06496	16.5	125	184	54.71
J101-06693	17.0	125	184	54.71
J101-06890	17.5	130	191	69.09
J101-07087	18.0	130	191	69.09
J101-07283	18.5	135	198	73.26
J101-07480	19.0	135	198	73.26
J101-07677	19.5	140	205	59.85
J101-07874	20.0	140	205	81.80

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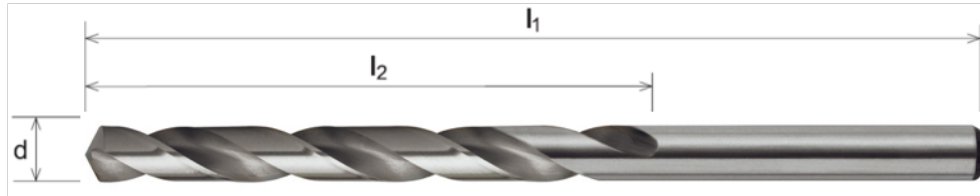
CUTTING TOOLS



JOBBER DRILLS (BULK) BRIGHT FINISH

Code	Size	l ₂	l ₁	\$ ea.
J104-00156	1/64	5	20	4.81
J103-00157	0.4	5	20	4.81
J103-00165	0.42	5	20	6.72
J103-00177	0.45	5	20	4.81
J103-00189	0.48	5	20	6.72
J103-00197	0.5	6	22	4.81
J103-00205	0.52	6	22	6.72
J103-00217	0.55	7	24	4.81
J103-00228	0.58	7	24	6.72
J103-00236	0.6	7	24	4.81
J103-00244	0.62	8	26	6.72
J103-00256	0.65	8	26	4.81
J103-00268	0.68	9	28	6.22
J103-00276	0.7	9	28	4.81
J103-00283	0.72	9	28	5.20
J103-00295	0.75	9	28	4.81
J103-00307	0.78	10	30	4.81
J104-00312	1/32	10	30	3.32
J103-00315	0.8	10	30	3.05
J103-00323	0.82	10	30	4.79
J103-00335	0.85	10	30	3.05
J103-00346	0.88	11	32	4.81
J103-00354	0.9	11	32	3.05
J103-00362	0.92	11	32	4.81
J103-00374	0.95	11	32	3.05
J103-00386	0.98	12	34	4.81
J103-00394	1	12	34	1.88
J103-00413	1.05	12	34	3.01
J103-00433	1.1	14	36	1.88
J103-00453	1.15	14	36	3.01
J104-00469	3/64	16	38	1.88
J103-00472	1.2	16	38	1.88

Code	Size	l ₂	l ₁	\$ ea.
J103-00492	1.25	16	38	3.01
J103-00512	1.3	16	38	1.93
J103-00531	1.35	18	40	3.07
J103-00551	1.4	18	40	2.28
J103-00571	1.45	18	40	2.28
J103-00591	1.5	18	40	1.72
J103-00610	1.55	20	43	2.29
J104-00625	1/16	20	43	1.71
J103-00630	1.6	20	43	1.68
J103-00650	1.65	20	43	2.29
J103-00669	1.7	20	43	1.60
J103-00689	1.75	22	46	2.28
J103-00709	1.8	22	46	1.55
J103-00728	1.85	22	46	2.29
J103-00748	1.9	22	46	1.55
J103-00768	1.95	24	49	2.29
J104-00781	5/64	24	49	1.55
J103-00787	2	24	49	1.55
J103-00807	2.05	24	49	1.93
J103-00827	2.1	24	49	1.55
J103-00846	2.15	27	53	1.93
J103-00866	2.2	27	53	1.55
J103-00886	2.25	27	53	1.93
J103-00906	2.3	27	53	1.55
J103-00925	2.35	27	53	1.93
J104-00938	3/32	30	57	1.55
J103-00945	2.4	30	57	1.55
J103-00965	2.45	30	57	1.93
J103-00984	2.5	30	57	1.55
J103-01004	2.55	30	57	1.93
J103-01024	2.6	30	57	1.55
J103-01043	2.65	30	57	1.93



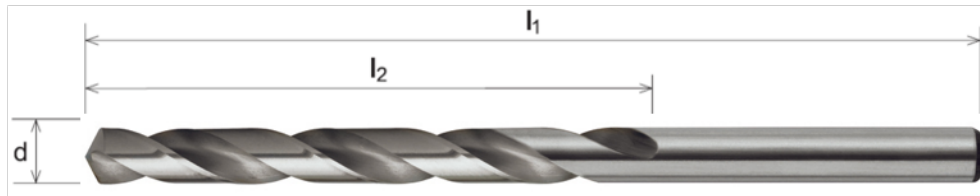
JOBBER DRILLS (BULK) BRIGHT FINISH

Code	Size	l ₂	l ₁	\$ ea.
J103-01063	2.7	33	61	1.42
J103-01083	2.75	33	61	1.55
J104-01094	7/64	33	61	1.42
J103-01102	2.8	33	61	1.42
J103-01122	2.85	33	61	1.58
J103-01142	2.9	33	61	1.42
J103-01161	2.95	33	61	1.58
J103-01181	3	33	61	1.49
J103-01220	3.1	36	65	1.49
J104-01250	1/8	36	65	1.49
J103-01260	3.2	36	65	1.49
J103-01279	3.25	36	65	1.58
J103-01299	3.3	36	65	1.55
J103-01339	3.4	39	70	1.55
J103-01378	3.5	39	70	1.63
J104-01406	9/64	39	70	1.69
J103-01417	3.6	39	70	1.55
J103-01457	3.7	39	70	1.69
J103-01476	3.75	39	70	1.74
J103-01496	3.8	43	75	1.74
J103-01535	3.9	43	75	1.80
J104-01562	5/32	43	75	1.80
J103-01575	4	43	75	1.87
J103-01614	4.1	43	75	1.95
J103-01654	4.2	43	75	1.49
J103-01673	4.25	43	75	1.95
J103-01693	4.3	47	80	2.07
J104-01719	11/64	47	80	2.10
J103-01732	4.4	47	80	2.07
J103-01772	4.5	47	80	2.07
J103-01811	4.6	47	80	2.23
J103-01850	4.7	47	80	2.23

Code	Size	l ₂	l ₁	\$ ea.
J103-01870	4.75	47	80	2.29
J103-01875	3/16	52	86	2.33
J103-01890	4.8	52	86	2.44
J103-01929	4.9	52	86	2.44
J103-01968	5.0	52	86	2.56
J103-02008	5.1	52	86	2.56
J104-02031	13/64	52	86	2.69
J103-02047	5.2	52	86	3.18
J103-02066	5.25	52	86	3.01
J103-02087	5.3	52	86	3.01
J103-02126	5.4	57	93	3.01
J103-02165	5.5	57	93	3.01
J104-02188	7/32	57	93	3.12
J103-02205	5.6	57	93	3.12
J103-02244	5.7	57	93	3.23
J103-02263	5.75	57	93	3.08
J103-02283	5.8	57	93	3.08
J103-02323	5.9	57	93	3.08
J104-02344	15/64	57	93	3.08
J103-02362	6.0	57	93	3.19
J103-02402	6.1	63	101	3.34
J103-02441	6.2	63	101	3.34
J103-02460	6.25	63	101	3.51
J103-02480	6.3	63	101	3.34
J104-02500	1/4	63	101	3.46
J103-02520	6.4	63	101	3.59
J103-02559	6.5	63	101	3.59
J103-02598	6.6	63	101	3.92
J103-02638	6.7	63	101	3.92
J104-02656	17/64	69	109	3.92
J103-02657	6.75	69	109	4.13
J103-02677	6.8	69	109	3.99

CAPITAL

CUTTING TOOLS



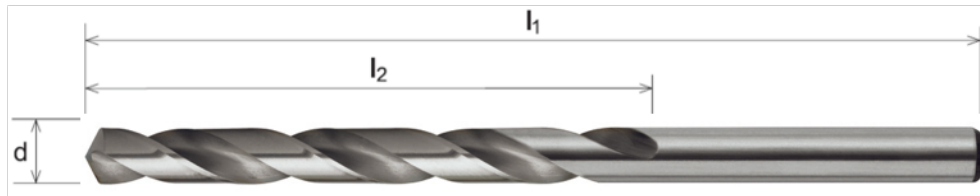
JOBBER DRILLS (BULK) BRIGHT FINISH

Code	Size	l ₂	l ₁	\$ ea.
J103-02717	6.9	69	109	4.16
J103-02756	7.0	69	109	4.19
J103-02795	7.1	69	109	4.19
J104-02812	9/32	69	109	4.40
J103-02835	7.2	69	109	4.49
J103-02854	7.25	69	109	4.78
J103-02874	7.3	69	109	4.49
J103-02913	7.4	69	109	4.49
J103-02953	7.5	69	109	4.76
J104-02969	19/64	75	117	4.76
J103-02992	7.6	75	117	4.90
J103-03032	7.7	75	117	5.12
J103-03051	7.75	75	117	5.43
J103-03071	7.8	75	117	5.12
J103-03110	7.9	75	117	5.12
J104-03125	5/16	75	117	5.14
J103-03150	8.0	75	117	5.12
J103-03189	8.1	75	117	5.58
J103-03228	8.2	75	117	5.58
J103-03258	8.25	75	117	5.85
J103-03268	8.3	75	117	5.58
J104-03281	21/64	75	117	5.58
J103-03307	8.4	75	117	5.66
J103-03346	8.5	75	117	5.82
J103-03386	8.6	81	125	6.11
J103-03425	8.7	81	125	6.11
J104-03438	11/32	81	125	6.11
J103-03444	8.75	81	125	6.61
J103-03465	8.8	81	125	6.39
J103-03504	8.9	81	125	6.39
J103-03543	9.0	81	125	6.39
J103-03583	9.1	81	125	6.64

Code	Size	l ₂	l ₁	\$ ea.
J104-03594	23/64	81	125	6.64
J103-03622	9.2	81	125	7.07
J103-03641	9.25	81	125	7.64
J103-03661	9.3	81	125	7.07
J103-03701	9.4	81	125	7.07
J103-03740	9.5	81	125	7.07
J104-03750	3/8	87	133	7.07
J103-03780	9.6	87	133	7.48
J103-03819	9.7	87	133	7.48
J103-03838	9.75	87	133	7.99
J103-03858	9.8	87	133	7.54
J103-03898	9.9	87	133	7.54
J104-03906	25/64	87	133	7.54
J103-03937	10.0	87	133	7.59
J103-03976	10.1	87	133	11.58
J103-04016	10.2	87	133	8.45
J103-04035	10.25	87	133	11.58
J103-04055	10.3	87	133	11.58
J104-04062	13/32	87	133	8.45
J103-04094	10.4	87	133	12.27
J103-04134	10.5	87	133	8.60
J103-04173	10.6	87	133	12.87
J103-04213	10.7	94	142	12.87
J104-04219	27/64	94	142	9.41
J103-04232	10.75	94	142	14.20
J103-04252	10.8	94	142	14.20
J103-04291	10.9	94	142	14.20
J103-04331	11.0	94	142	9.95
J103-04370	11.1	94	142	15.48
J104-04375	7/16	94	142	10.50
J103-04409	11.2	94	142	16.13
J103-04429	11.25	94	142	16.13

CAPITAL

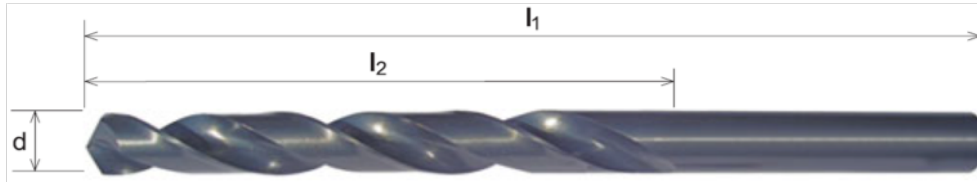
CUTTING TOOLS



JOBBER DRILLS (BULK) BRIGHT FINISH

Code	Size	l ₂	l ₁	\$ ea.
J103-04449	11.3	94	142	16.13
J103-04488	11.4	94	142	15.99
J103-04528	11.5	94	142	11.10
J104-04531	29/64	94	142	11.10
J103-04567	11.6	94	142	17.41
J103-04606	11.7	94	142	17.41
J103-04625	11.75	94	142	17.41
J103-04646	11.8	94	142	17.41
J103-04685	11.9	101	151	16.53
J104-04688	15/32	101	151	12.54
J103-04724	12.0	101	151	12.68
J103-04764	12.1	101	151	19.36
J103-04803	12.2	101	151	19.36

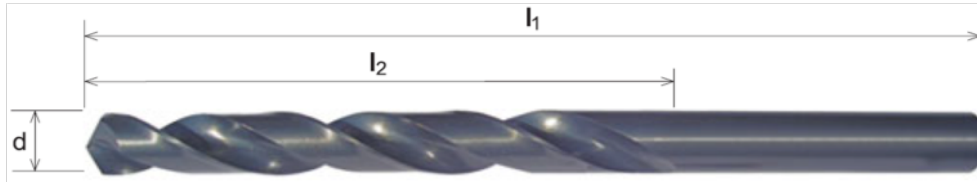
Code	Size	l ₂	l ₁	\$ ea.
J103-04822	12.25	101	151	20.12
J103-04843	12.3	101	151	19.36
J104-04844	31/64	101	151	13.30
J103-04882	12.4	101	151	20.04
J103-04924	12.5	101	151	13.93
J103-04961	12.6	101	151	20.04
J103-04987	12.7	101	151	20.67
J104-05000	1/2	101	151	13.95
J103-05019	12.75	101	151	20.67
J103-05039	12.8	101	151	20.67
J103-05079	12.9	101	151	20.67
J103-05118	13.0	101	151	14.98
J104-05157	33/64	101	151	32.12



JOBBER DRILLS (SINGLE HANG PACK)

Code	Size	l_2	l_1	\$ ea.
JS13-00156	1/64	5	20	7.81
JS13-00157	0.4	5	20	5.91
JS13-00165	0.42	5	20	7.82
JS13-00177	0.45	5	20	5.91
JS13-00189	0.48	5	20	7.82
JS13-00197	0.5	6	22	5.91
JS13-00205	0.52	6	22	7.82
JS13-00217	0.55	7	24	5.91
JS13-00228	0.58	7	24	7.82
JS13-00236	0.6	7	24	5.91
JS13-00244	0.62	8	26	7.86
JS13-00256	0.65	8	26	5.91
JS13-00268	0.68	9	28	7.33
JS13-00276	0.7	9	28	5.91
JS13-00283	0.72	9	28	6.30
JS13-00295	0.75	9	28	5.91
JS13-00307	0.78	10	30	5.91
JS14-00312	1/32	10	30	4.43
JS13-00315	0.8	10	30	4.16
JS13-00323	0.82	10	30	5.89
JS13-00335	0.85	10	30	4.16
JS13-00346	0.88	11	32	5.91
JS13-00354	0.9	11	32	4.16
JS13-00362	0.92	11	32	5.91
JS13-00374	0.95	11	32	4.16
JS13-00386	0.98	12	34	5.91
JS13-00394	1.0	12	34	2.98
JS13-00413	1.05	12	34	4.10
JS13-00433	1.1	14	36	2.98
JS13-00453	1.15	14	36	4.10
JS14-00469	3/64	16	38	2.98
JS13-00472	1.2	16	38	2.98

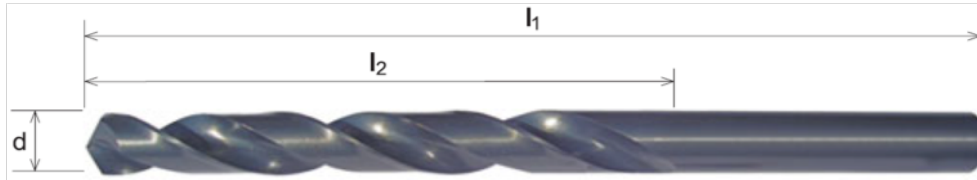
Code	Size	l_2	l_1	\$ ea.
JS13-00492	1.25	16	38	4.10
JS13-00512	1.3	16	38	3.03
JS13-00531	1.35	18	40	4.18
JS13-00551	1.4	18	40	3.39
JS13-00571	1.45	18	40	3.39
JS13-00591	1.5	18	40	2.82
JS13-00610	1.55	20	43	3.40
JS14-00625	1/16	20	43	2.84
JS13-00630	1.6	20	43	2.81
JS13-00650	1.65	20	43	3.40
JS13-00669	1.7	20	43	2.70
JS13-00689	1.75	22	46	3.39
JS13-00709	1.8	22	46	2.64
JS13-00728	1.85	22	46	3.40
JS13-00748	1.9	22	46	2.64
JS13-00768	1.95	24	49	3.40
JS14-00781	5/64	24	49	2.64
JS13-00787	2.0	24	49	2.64
JS13-00807	2.05	24	49	3.03
JS13-00827	2.1	24	49	2.64
JS13-00846	2.15	27	53	3.03
JS13-00866	2.2	27	53	2.64
JS13-00886	2.25	27	53	3.03
JS13-00906	2.3	27	53	2.64
JS13-00925	2.35	27	53	3.03
JS14-00938	3/32	30	57	2.64
JS13-00945	2.4	30	57	2.64
JS13-00965	2.45	30	57	3.03
JS13-00984	2.5	30	57	2.64
JS13-01004	2.55	30	57	3.03
JS13-01024	2.6	30	57	2.64
JS13-01043	2.65	30	57	3.03



JOBBER DRILLS (SINGLE HANG PACK)

Code	Size	l ₂	l ₁	\$ ea.
JS13-01063	2.7	33	61	2.52
JS13-01083	2.75	33	61	2.64
JS14-01094	7/64	33	61	2.52
JS13-01102	2.8	33	61	2.52
JS13-01122	2.85	33	61	2.67
JS13-01142	2.9	33	61	2.52
JS13-01161	2.95	33	61	2.67
JS13-01181	3.0	33	61	2.60
JS13-01220	3.1	36	65	2.60
JS14-01250	1/8	36	65	2.60
JS13-01260	3.2	36	65	2.85
JS13-01279	3.25	36	65	2.81
JS13-01299	3.3	36	65	2.81
JS13-01339	3.4	39	70	2.81
JS13-01378	3.5	39	70	2.89
JS14-01406	9/64	39	70	2.95
JS13-01417	3.6	39	70	2.81
JS13-01457	3.7	39	70	2.95
JS13-01476	3.75	39	70	2.95
JS13-01496	3.8	43	75	2.95
JS13-01535	3.9	43	75	3.07
JS14-01562	5/32	43	75	3.07
JS13-01575	4.0	43	75	3.13
JS13-01614	4.1	43	75	3.21
JS13-01654	4.2	43	75	3.36
JS13-01673	4.25	43	75	3.21
JS13-01693	4.3	47	80	3.34
JS14-01719	11/64	47	80	3.37
JS13-01732	4.4	47	80	3.34
JS13-01772	4.5	47	80	3.34
JS13-01811	4.6	47	80	3.49
JS13-01850	4.7	47	80	3.49

Code	Size	l ₂	l ₁	\$ ea.
JS13-01870	4.75	47	80	3.60
JS13-01875	3/16	52	86	3.60
JS13-01890	4.8	52	86	3.70
JS13-01929	4.9	52	86	3.70
JS13-01968	5.0	52	86	3.83
JS13-02008	5.1	52	86	3.83
JS14-02031	13/64	52	86	4.10
JS13-02047	5.2	52	86	4.46
JS13-02066	5.25	52	86	4.27
JS13-02087	5.3	52	86	4.27
JS13-02126	5.4	57	93	4.27
JS13-02165	5.5	57	93	4.27
JS14-02188	7/32	57	93	4.39
JS13-02205	5.6	57	93	4.39
JS13-02244	5.7	57	93	4.49
JS13-02263	5.75	57	93	4.34
JS13-02283	5.8	57	93	4.34
JS13-02323	5.9	57	93	4.34
JS14-02344	15/64	57	93	4.34
JS13-02362	6.0	57	93	4.48
JS13-02402	6.1	63	101	4.60
JS13-02441	6.2	63	101	4.60
JS13-02460	6.25	63	101	4.95
JS13-02480	6.3	63	101	4.77
JS14-02500	1/4	63	101	4.89
JS13-02520	6.4	63	101	5.03
JS13-02559	6.5	63	101	5.03
JS13-02598	6.6	63	101	5.36
JS13-02638	6.7	63	101	5.36
JS14-02656	17/64	69	109	5.36
JS13-02657	6.75	69	109	5.57
JS13-02677	6.8	69	109	5.42



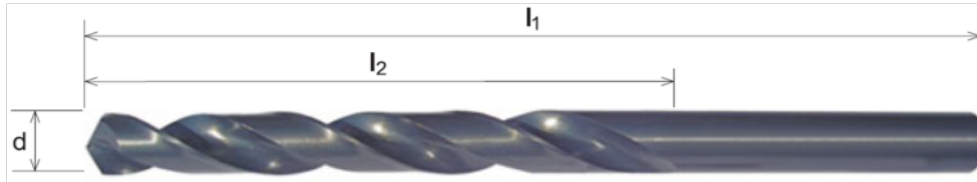
JOBBER DRILLS (SINGLE HANG PACK)

Code	Size	l_2	l_1	\$ ea.
JS13-02717	6.9	69	109	5.60
JS13-02756	7.0	69	109	5.63
JS13-02795	7.1	69	109	5.63
JS14-02812	9/32	69	109	5.83
JS13-02835	7.2	69	109	5.92
JS13-02854	7.25	69	109	6.21
JS13-02874	7.3	69	109	5.92
JS13-02913	7.4	69	109	5.92
JS13-02953	7.5	69	109	6.19
JS14-02969	19/64	75	117	6.19
JS13-02992	7.6	75	117	6.19
JS13-03032	7.7	75	117	6.57
JS13-03051	7.75	75	117	6.86
JS13-03071	7.8	75	117	6.57
JS13-03110	7.9	75	117	6.57
JS14-03125	5/16	75	117	6.58
JS13-03150	8.0	75	117	6.57
JS13-03189	8.1	75	117	7.01
JS13-03228	8.2	75	117	7.01
JS13-03258	8.25	75	117	7.28
JS13-03268	8.3	75	117	7.01
JS14-03281	21/64	75	117	7.01
JS13-03307	8.4	75	117	7.10
JS13-03346	8.5	75	117	7.25
JS13-03386	8.6	81	125	7.54
JS13-03425	8.7	81	125	7.54
JS14-03438	11/32	81	125	7.54
JS13-03444	8.75	81	125	8.04
JS13-03465	8.8	81	125	7.82
JS13-03504	8.9	81	125	7.82
JS13-03543	9.0	81	125	7.82
JS13-03583	9.1	81	125	8.07

Code	Size	l_2	l_1	\$ ea.
JS14-03594	23/64	81	125	8.07
JS13-03622	9.2	81	125	8.51
JS13-03641	9.25	81	125	9.07
JS13-03661	9.3	81	125	8.51
JS13-03701	9.4	81	125	8.51
JS13-03740	9.5	81	125	8.51
JS14-03750	3/8	87	133	8.51
JS13-03780	9.6	87	133	8.92
JS13-03819	9.7	87	133	8.92
JS13-03838	9.75	87	133	9.42
JS13-03858	9.8	87	133	8.98
JS13-03898	9.9	87	133	8.98
JS14-03906	25/64	87	133	8.98
JS13-03937	10.0	87	133	9.03
JS13-03976	10.1	87	133	13.01
JS13-04016	10.2	87	133	9.88
JS13-04035	10.25	87	133	13.01
JS13-04055	10.3	87	133	13.01
JS14-04062	13/32	87	133	9.88
JS13-04094	10.4	87	133	13.71
JS13-04134	10.5	87	133	10.04
JS13-04173	10.6	87	133	14.31
JS13-04213	10.7	94	142	14.31
JS14-04219	27/64	94	142	10.85
JS13-04232	10.75	94	142	15.64
JS13-04252	10.8	94	142	15.64
JS13-04291	10.9	94	142	15.64
JS13-04331	11.0	94	142	11.38
JS13-04370	11.1	94	142	16.92
JS14-04375	7/16	94	142	11.59
JS13-04409	11.2	94	142	17.56
JS13-04429	11.25	94	142	17.56

CAPITAL

CUTTING TOOLS



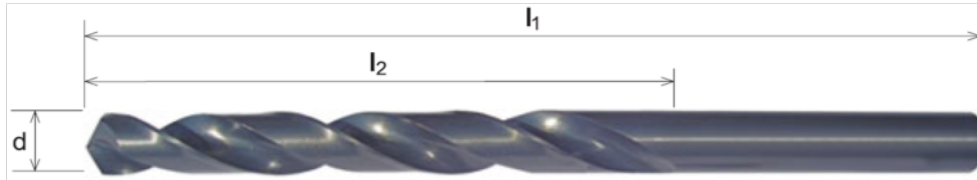
JOBBER DRILLS (SINGLE HANG PACK)

Code	Size	l ₂	l ₁	\$ ea.
JS13-04449	11.3	94	142	17.56
JS13-04488	11.4	94	142	17.43
JS13-04528	11.5	94	142	12.53
JS14-04531	29/64	94	142	12.53
JS13-04567	11.6	94	142	18.85
JS13-04606	11.7	94	142	18.85
JS13-04625	11.75	94	142	18.85
JS13-04646	11.8	94	142	18.85
JS13-04685	11.9	101	151	17.97
JS14-04688	15/32	101	151	13.98
JS13-04724	12.0	101	151	14.12
JS13-04764	12.1	101	151	20.80
JS13-04803	12.2	101	151	20.80

Code	Size	l ₂	l ₁	\$ ea.
JS13-04822	12.25	101	151	21.56
JS13-04843	12.3	101	151	20.80
JS14-04844	31/64	101	151	14.74
JS13-04882	12.4	101	151	21.47
JS13-04924	12.5	101	151	15.37
JS13-04961	12.6	101	151	21.47
JS13-05000	12.7	101	151	22.11
JS14-05000	1/2	101	151	15.38
JS13-05019	12.75	101	151	22.81
JS13-05039	12.8	101	151	22.81
JS13-05079	12.9	101	151	22.81
JS13-05118	13.0	101	151	16.41

CAPITAL

CUTTING TOOLS



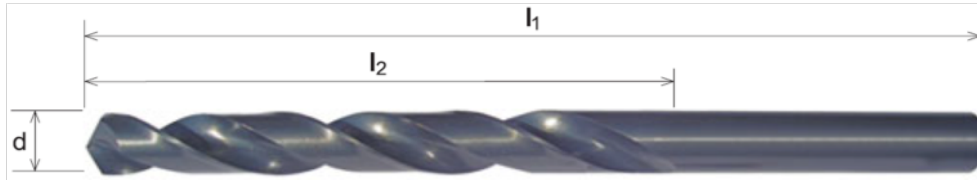
LEFT HAND JOBBER DILLS (BULK)

Code	Size	l ₂	l ₁	\$ ea.
LHJ-00394	1.0	12	34	8.20
LHJ-00433	1.1	14	36	8.84
LHJ-00469	3/64	16	38	10.37
LHJ-00472	1.2	16	38	8.84
LHJ-00512	1.3	16	38	8.84
LHJ-00551	1.4	18	40	8.84
LHJ-00591	1.5	18	40	6.96
LHJ-00625	1/16	20	43	6.96
LHJ-00630	1.6	20	43	8.84
LHJ-00669	1.7	20	43	8.84
LHJ-00709	1.8	22	46	8.84
LHJ-00748	1.9	22	46	8.84
LHJ-00781	5/64	24	49	9.12
LHJ-00787	2.0	24	49	6.96
LHJ-00827	2.1	24	49	6.96
LHJ-00866	2.2	27	53	6.96
LHJ-00906	2.3	27	53	6.96
LHJ-00938	3/32	30	57	9.12
LHJ-00945	2.4	30	57	6.96
LHJ-00984	2.5	30	57	6.96
LHJ-01024	2.6	30	57	6.96
LHJ-01063	2.7	33	61	6.96
LHJ-01094	7/64	33	61	9.12
LHJ-01102	2.8	33	61	6.96
LHJ-01142	2.9	33	61	6.96
LHJ-01181	3.0	33	61	6.96
LHJ-01220	3.1	36	65	8.84
LHJ-01250	1/8	36	65	9.12
LHJ-01260	3.2	36	65	8.84
LHJ-01299	3.3	36	65	8.84
LHJ-01339	3.4	39	70	8.84
LHJ-01378	3.5	39	70	8.34

Code	Size	l ₂	l ₁	\$ ea.
LHJ-01406	9/64	39	70	10.37
LHJ-01417	3.6	39	70	8.84
LHJ-01457	3.7	39	70	8.84
LHJ-01496	3.8	43	75	8.84
LHJ-01535	3.9	43	75	8.84
LHJ-01562	5/32	43	75	8.84
LHJ-01575	4.0	43	75	7.52
LHJ-01614	4.1	43	75	8.84
LHJ-01654	4.2	43	75	8.84
LHJ-01693	4.3	47	80	8.84
LHJ-01719	11/64	47	80	10.37
LHJ-01732	4.4	47	80	8.84
LHJ-01772	4.5	47	80	8.84
LHJ-01811	4.6	47	80	12.30
LHJ-01850	4.7	47	80	12.30
LHJ-01875	3/16	52	86	13.85
LHJ-01890	4.8	52	86	12.30
LHJ-01929	4.9	52	86	12.30
LHJ-01968	5.0	52	86	10.37
LHJ-02008	5.1	52	86	12.87
LHJ-02031	13/64	52	86	15.72
LHJ-02047	5.2	52	86	12.87
LHJ-02087	5.3	52	86	12.87
LHJ-02126	5.4	57	93	12.87
LHJ-02165	5.5	57	93	12.30
LHJ-02188	7/32	57	93	17.55
LHJ-02205	5.6	57	93	14.76
LHJ-02244	5.7	57	93	14.76
LHJ-02283	5.8	57	93	14.76
LHJ-02323	5.9	57	93	14.76
LHJ-02344	15/64	57	93	17.61
LHJ-02362	6.0	57	93	12.30

CAPITAL

CUTTING TOOLS



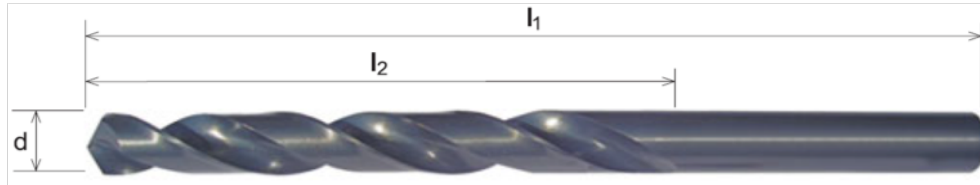
LEFT HAND JOBBER DILLS (BULK)

Code	Size	l ₂	l ₁	\$ ea.
LHJ-02402	6.1	63	101	16.63
LHJ-02441	6.2	63	101	16.63
LHJ-02480	6.3	63	101	16.63
LHJ-02500	1/4	63	101	19.03
LHJ-02520	6.4	63	101	16.63
LHJ-02559	6.5	63	101	14.76
LHJ-02598	6.6	63	101	18.23
LHJ-02638	6.7	63	101	18.23
LHJ-02656	17/64	69	109	22.45
LHJ-02677	6.8	69	109	18.23
LHJ-02717	6.9	69	109	18.23
LHJ-02756	7.0	69	109	14.74
LHJ-02795	7.1	69	109	19.49
LHJ-02812	9/32	69	109	22.22
LHJ-02835	7.2	69	109	19.49
LHJ-02874	7.3	69	109	19.49
LHJ-02913	7.4	69	109	19.49
LHJ-02953	7.5	69	109	18.23
LHJ-02969	19/64	75	117	26.95
LHJ-02992	7.6	75	117	24.15
LHJ-03032	7.7	75	117	24.15
LHJ-03071	7.8	75	117	24.15
LHJ-03110	7.9	75	117	24.15
LHJ-03125	5/16	75	117	27.69
LHJ-03150	8.0	75	117	20.90
LHJ-03189	8.1	75	117	28.25
LHJ-03228	8.2	75	117	28.25
LHJ-03268	8.3	75	117	28.25
LHJ-03281	21/64	75	117	33.21
LHJ-03307	8.4	75	117	28.25
LHJ-03346	8.5	75	117	24.15
LHJ-03386	8.6	81	125	37.94

Code	Size	l ₂	l ₁	\$ ea.
LHJ-03425	8.7	81	125	37.94
LHJ-03438	11/32	81	125	43.07
LHJ-03465	8.8	81	125	37.94
LHJ-03504	8.9	81	125	37.94
LHJ-03543	9.0	81	125	28.25
LHJ-03583	9.1	81	125	40.68
LHJ-03594	23/64	81	125	47.46
LHJ-03622	9.2	81	125	40.68
LHJ-03661	9.3	81	125	40.68
LHJ-03701	9.4	81	125	40.68
LHJ-03740	9.5	81	125	30.99
LHJ-03750	3/8	87	133	47.46
LHJ-03780	9.6	87	133	44.10
LHJ-03819	9.7	87	133	44.10
LHJ-03858	9.8	87	133	44.10
LHJ-03898	9.9	87	133	44.10
LHJ-03906	25/64	87	133	56.86
LHJ-03937	10.0	87	133	30.99
LHJ-03976	10.1	87	133	44.10
LHJ-04016	10.2	87	133	44.10
LHJ-04055	10.3	87	133	44.10
LHJ-04062	13/32	87	133	56.86
LHJ-04094	10.4	87	133	44.10
LHJ-04134	10.5	87	133	40.68
LHJ-04173	10.6	87	133	52.64
LHJ-04213	10.7	94	142	52.64
LHJ-04219	27/64	94	142	66.95
LHJ-04252	10.8	94	142	52.64
LHJ-04291	10.9	94	142	52.64
LHJ-04331	11.0	94	142	44.10
LHJ-04370	11.1	94	142	60.12
LHJ-04375	7/16	94	142	56.86

CAPITAL

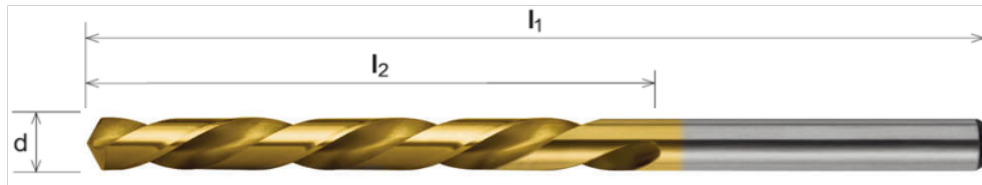
CUTTING TOOLS



LEFT HAND JOBBER DILLS (BULK)

Code	Size	l ₂	l ₁	\$ ea.
LHJ-04409	11.2	94	142	60.12
LHJ-04449	11.3	94	142	60.12
LHJ-04488	11.4	94	142	60.12
LHJ-04528	11.5	94	142	52.64
LHJ-04531	29/64	94	142	66.95
LHJ-04567	11.6	94	142	60.12
LHJ-04606	11.7	94	142	60.12
LHJ-04646	11.8	94	142	60.12
LHJ-04685	11.9	101	151	60.12
LHJ-04688	15/32	101	151	66.95
LHJ-04724	12.0	101	151	52.64
LHJ-04764	12.1	101	151	68.07

Code	Size	l ₂	l ₁	\$ ea.
LHJ-04803	12.2	101	151	68.07
LHJ-04843	12.3	101	151	68.07
LHJ-04844	31/64	101	151	74.63
LHJ-04882	12.4	101	151	68.07
LHJ-04924	12.5	101	151	62.33
LHJ-04961	12.6	101	151	68.07
LHJ-05000	12.7	101	151	68.07
LHJ-05000	1/2	101	151	71.22
LHJ-05039	12.8	101	151	68.07
LHJ-05079	12.9	101	151	68.07
LHJ-05118	13.0	101	151	74.63



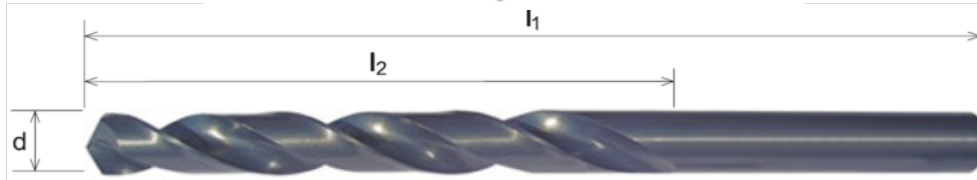
TiNITE COATED JOBBER DILLS (BULK)

Code	Size	l ₂	l ₁	\$ ea.
J105-00394	1.0	12	34	4.65
J105-00591	1.5	18	40	4.87
J106-00625	1/16	20	43	4.97
J106-00781	5/64	24	49	5.18
J105-00787	2.0	24	49	4.97
J106-00938	3/32	30	57	5.42
J105-00984	2.5	30	57	5.45
J106-01094	7/64	33	61	5.62
J105-01181	3.0	33	61	5.56
J106-01250	1/8	36	65	5.77
J105-01378	3.5	39	70	5.62
J106-01406	9/64	39	70	6.52
J106-01562	5/32	43	75	6.88
J106-01575	4.0	43	75	5.77
J106-01719	11/64	47	80	7.11
J105-01772	4.5	47	80	6.52
J106-01875	3/16	52	86	7.35
J105-01968	5.0	52	86	7.32
J106-02031	13/64	52	86	8.60
J105-02165	5.5	57	93	7.93
J106-02188	7/32	57	93	9.46
J106-02344	15/64	57	93	9.99
J105-02362	6.0	57	93	8.59
J106-02500	1/4	63	101	10.25
J105-02559	6.5	63	101	9.46
J106-02656	17/64	69	109	10.46
J105-02756	7.0	69	109	9.78

Code	Size	l ₂	l ₁	\$ ea.
J106-02812	9/32	69	109	10.80
J105-02953	7.5	69	109	10.28
J106-02969	19/64	75	117	11.15
J106-03125	5/16	75	117	11.57
J105-03150	8.0	75	117	11.02
J106-03281	21/64	75	117	11.88
J105-03346	8.5	75	117	11.57
J106-03438	11/32	81	125	12.27
J105-03543	9.0	81	125	12.20
J106-03594	23/64	81	125	12.65
J105-03740	9.5	81	125	13.09
J106-03750	3/8	87	133	13.41
J106-03906	25/64	87	133	14.06
J105-03937	10.0	87	133	13.89
J106-04062	13/32	87	133	14.15
J105-04134	10.5	87	133	14.39
J106-04219	27/64	94	142	14.39
J105-04331	11.0	94	142	15.37
J106-04375	7/16	94	142	15.32
J105-04528	11.5	94	142	15.95
J106-04531	29/64	94	142	15.95
J106-04688	15/32	101	151	16.43
J105-04724	12.0	101	151	16.88
J106-04844	31/64	101	151	17.58
J105-04924	12.5	101	151	17.51
J106-05000	1/2	101	151	18.16
J105-05118	13.0	101	151	18.61

CAPITAL

CUTTING TOOLS



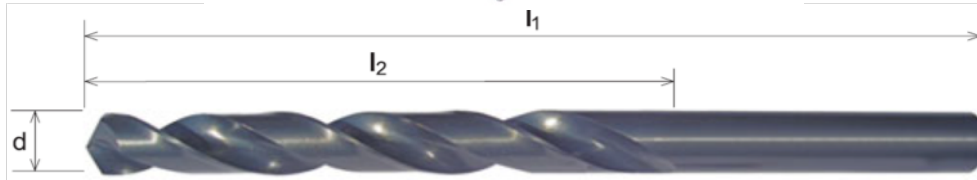
LETTER GAUGE JOBBER DRILLS

Code	Letter	l_2	l_1	\$ ea.
J109-02340	A	57	93	8.69
J109-02380	B	57	93	8.96
J109-02420	C	63	101	9.20
J109-02460	D	63	101	9.92
J109-02500	E	63	101	9.56
J109-02570	F	63	101	10.05
J109-02610	G	63	101	10.72
J109-02660	H	63	101	11.14
J109-02720	I	69	109	11.19
J109-02770	J	69	109	11.25
J109-02810	K	69	109	11.25
J109-02900	L	69	109	11.85
J109-02950	M	69	109	12.39

Code	Letter	l_2	l_1	\$ ea.
J109-03000	N	75	117	13.12
J109-03160	O	75	117	13.12
J109-03230	P	75	117	14.04
J109-03320	Q	75	117	14.22
J109-03390	R	81	125	15.06
J109-03480	S	81	125	15.64
J109-03580	T	81	125	16.15
J109-03680	U	81	125	17.00
J109-03770	V	81	125	17.13
J109-03860	W	87	133	17.41
J109-03970	X	87	133	17.54
J109-04040	Y	87	133	17.61
J109-04130	Z	87	133	17.78

CAPITAL

CUTTING TOOLS



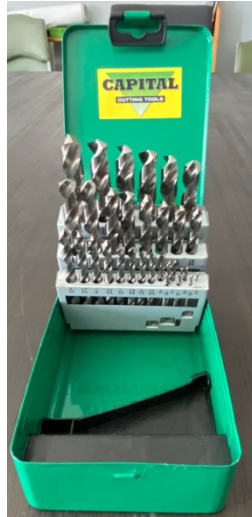
NUMBER GAUGE JOBBER DRILLS

Code	Number	l_2	l_1	\$ ea.
J110-02280	1	57	93	4.56
J110-02210	2	57	93	4.56
J110-02130	3	57	93	4.56
J110-02090	4	52	86	4.56
J110-02055	5	52	86	4.56
J110-02040	6	52	86	4.56
J110-02010	7	52	86	4.56
J110-01990	8	52	86	4.56
J110-01960	9	52	86	4.56
J110-01935	10	52	86	4.56
J110-01910	11	52	86	5.08
J110-01890	12	52	86	5.08
J110-01850	13	47	80	5.08
J110-01820	14	47	80	5.08
J110-01800	15	47	80	5.08
J110-01770	16	47	80	5.08
J110-01730	17	47	80	5.08
J110-01695	18	47	80	5.08
J110-01660	19	43	75	5.08
J110-01610	20	43	75	5.08
J110-01590	21	43	75	5.24
J110-01570	22	43	75	5.24
J110-01540	23	43	75	5.24
J110-01520	24	43	75	5.24
J110-01495	25	43	75	5.24
J110-01470	26	39	70	5.24
J110-01440	27	39	70	5.24
J110-01405	28	39	70	5.24
J110-01360	29	39	70	5.24
J110-01285	30	36	65	5.24

Code	Number	l_2	l_1	\$ ea.
J110-01200	31	36	65	5.56
J110-01160	32	33	61	5.56
J110-01130	33	33	61	5.56
J110-01110	34	33	61	5.56
J110-01100	35	33	61	5.56
J110-01065	36	33	61	5.56
J110-01040	37	30	57	5.56
J110-01015	38	30	57	5.56
J110-00995	39	30	57	5.56
J110-00980	40	30	57	5.56
J110-00960	41	30	57	6.19
J110-00935	42	27	53	6.19
J110-00890	43	27	53	6.19
J110-00860	44	27	53	6.19
J110-00820	45	24	49	6.19
J110-00810	46	24	49	6.19
J110-00785	47	24	49	6.19
J110-00760	48	24	49	6.19
J110-00730	49	22	46	6.19
J110-00700	50	22	46	6.19
J110-00670	51	20	43	7.45
J110-00635	52	20	43	7.45
J110-00595	53	18	40	7.45
J110-00550	54	18	40	7.45
J110-00520	55	18	40	7.45
J110-00465	56	16	38	7.45
J110-00430	57	14	36	7.45
J110-00420	58	12	34	7.45
J110-00410	59	12	34	7.45
J110-00400	60	12	34	7.45

CAPITAL

CUTTING TOOLS



METAL CASE DRILL SETS (HSS)

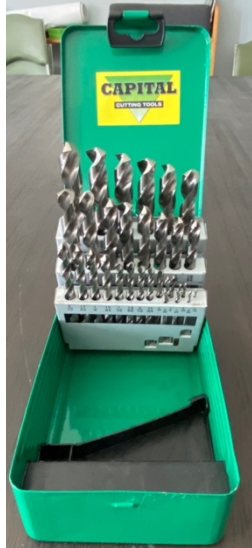
Code	Set No.	No. of Drills	Drill Sizes	\$ ea.
JDS-100	CM-1	25	1mm – 13mm in 0.5mm rises	163.84
JDS-200	CM-2	19	1mm – 10mm in 0.5mm rises	82.40
JDS-300	CM-3	29	1/16 – 1/2 in 1/64 rises	180.01
JDS-400	CM-4	21	1/16 – 3/8 in 1/64 rises	84.22

METAL CASE DRILL SETS (COBALT)

Code	Set No.	No. of Drills	Drill Sizes	\$ ea.
JDS-500	CM-5	25	1mm – 13mm in 0.5mm rises	315.44
JDS-600	CM-6	19	1mm – 10mm in 0.5mm rises	160.00
JDS-700	CM-7	29	1/16 – 1/2 in 1/64 rises	339.09
JDS-800	CM-8	21	1/16 – 3/8 in 1/64 rises	169.36

REFILL SETS (HSS)

Code	Set No.	No. of Drills	Drill Sizes	\$ ea.
JSR-A	RF-1	25	1mm – 13mm in 0.5mm rises	150.43
JSR-B	RF-2	19	1mm – 10mm in 0.5mm rises	68.99
JSR-C	RF-3	29	1/16 – 1/2 in 1/64 rises	166.59
JSR-D	RF-4	21	1/16 – 3/8 in 1/64 rises	70.87



REFILL SETS (COBALT)

Code	Set No.	No. of Drills	Sizes	\$ ea.
JSR-E	RF-5	25	1mm – 13mm in 0.5mm rises	299.34
JSR-F	RF-6	19	1mm – 10mm in 0.5mm rises	143.89
JSR-G	RF-7	29	1/16 – 1/2 in 1/64 rises	322.03
JSR-H	RF-8	21	1/16 – 3/8 in 1/64 rises	159.30

METAL CASE (EMPTY)

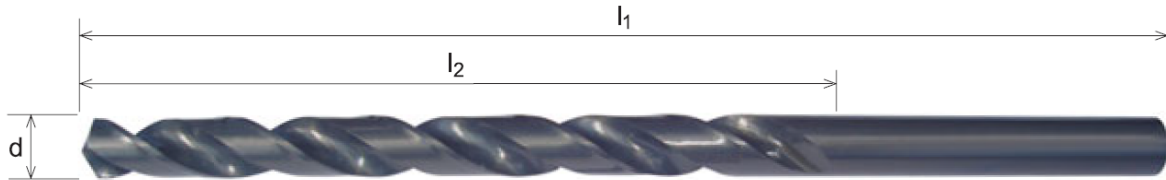
Code	Set No.	No. of Drills	Sizes	\$ ea.
JDE-100	JDE-1	N / A	1mm – 13mm in 0.5mm rises	17.05
JDE-200	JDE-2	N / A	1mm – 10mm in 0.5mm rises	10.06
JDE-300	JDE-3	N / A	1/16 – 1/2 in 1/64 rises	17.05
JDE-400	JDE-4	N / A	1/16 – 3/8 in 1/64 rises	10.06

LEFT HAND COBALT METAL CASE DRILL SETS

Code	Set No.	No. of Drills	Sizes	\$ ea.
LHCJ-100	LHCJ-1	13	1mm – 13mm in 1.0mm rises	217.24
LHCJ-200	LHCJ-2	10	1mm – 10mm in 1.0mm rises	143.38

CAPITAL

CUTTING TOOLS



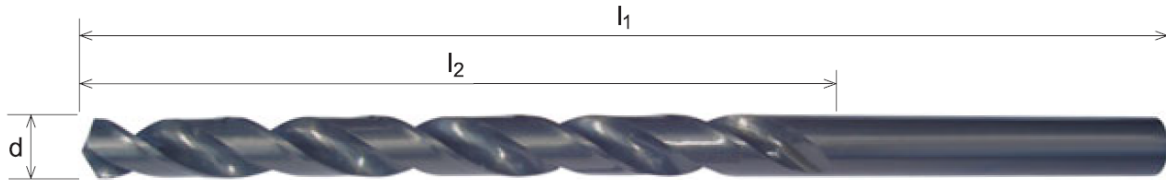
LONG SERIES DRILLS (BULK)

Code	Size	l ₂	l ₁	\$ ea.
J107-00394	1.0	33	56	5.24
J107-00433	1.1	37	60	6.26
J108-00469	3/64	41	65	6.26
J107-00472	1.2	41	65	6.26
J107-00512	1.3	41	65	6.26
J107-00551	1.4	45	70	6.26
J107-00591	1.5	45	70	4.25
J108-00625	1/16	50	76	5.98
J107-00630	1.6	50	76	5.11
J107-00669	1.7	50	76	5.11
J107-00709	1.8	53	80	5.11
J107-00748	1.9	53	80	5.11
J108-00781	5/64	56	85	4.30
J107-00787	2.0	56	85	5.14
J107-00827	2.1	56	85	6.18
J107-00866	2.2	59	90	6.18
J107-00906	2.3	59	90	6.18
J108-00938	3/32	62	95	4.32
J107-00945	2.4	62	95	6.18
J107-00984	2.5	62	95	5.14
J107-01024	2.6	62	95	6.18
J107-01063	2.7	66	100	6.18
J108-01094	7/64	66	100	4.32
J107-01102	2.8	66	100	6.18
J107-01142	2.9	66	100	6.18
J107-01181	3.0	66	100	5.14
J107-01220	3.1	69	106	5.60
J108-01250	1/8	69	106	4.86
J107-01260	3.2	69	106	5.60
J107-01299	3.3	69	106	5.60
J107-01339	3.4	73	112	5.60
J107-01378	3.5	73	112	5.60

Code	Size	l ₂	l ₁	\$ ea.
J108-01406	9/64	73	112	5.09
J107-01417	3.6	73	112	6.74
J107-01457	3.7	73	112	6.74
J107-01496	3.8	78	119	6.74
J107-01535	3.9	78	119	6.74
J108-01562	5/32	78	119	5.46
J107-01575	4.0	78	119	5.84
J107-01614	4.1	78	119	6.99
J107-01654	4.2	78	119	6.99
J107-01693	4.3	82	126	6.99
J108-01719	11/64	82	126	5.84
J107-01732	4.4	82	126	6.99
J107-01772	4.5	82	126	7.20
J107-01811	4.6	82	126	8.64
J107-01850	4.7	82	126	8.64
J108-01875	3/16	87	132	7.20
J107-01890	4.8	87	132	8.64
J107-01929	4.9	87	132	8.64
J107-01968	5.0	87	132	7.75
J107-02008	5.1	87	132	9.32
J108-02031	13/64	87	132	7.75
J107-02047	5.2	87	132	9.32
J107-02087	5.3	87	132	9.32
J107-02126	5.4	91	139	8.05
J107-02165	5.5	91	139	8.05
J108-02188	7/32	91	139	8.05
J107-02205	5.6	91	139	9.66
J107-02244	5.7	91	139	9.66
J107-02283	5.8	91	139	9.66
J107-02323	5.9	91	139	9.66
J108-02344	15/64	91	139	8.34
J107-02362	6.0	91	139	8.62

CAPITAL

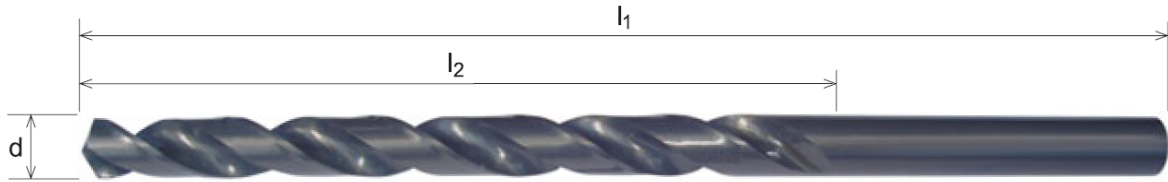
CUTTING TOOLS



LONG SERIES DRILLS (BULK)

Code	Size	l_2	l_1	\$ ea.
J107-02402	6.1	97	148	10.36
J107-02441	6.2	97	148	10.36
J107-02480	6.3	97	148	10.36
J108-02500	1/4	97	148	9.35
J107-02520	6.4	97	148	10.36
J107-02559	6.5	97	148	12.53
J107-02598	6.6	97	148	14.54
J107-02638	6.7	97	148	14.54
J108-02656	17/64	102	156	12.53
J107-02677	6.8	102	156	14.54
J107-02717	6.9	102	156	14.54
J107-02756	7.0	102	156	12.53
J107-02795	7.1	102	156	15.03
J108-02812	9/32	102	156	12.23
J107-02835	7.2	102	156	18.05
J107-02874	7.3	102	156	18.05
J107-02913	7.4	102	156	18.05
J107-02953	7.5	102	156	13.51
J108-02969	19/64	109	165	13.51
J107-02992	7.6	109	165	16.23
J107-03032	7.7	109	165	14.65
J107-03071	7.8	109	165	16.23
J107-03110	7.9	109	165	16.23
J108-03125	5/16	109	165	14.06
J107-03150	8.0	109	165	15.55
J107-03189	8.1	109	165	18.62
J107-03228	8.2	109	165	18.62
J107-03268	8.3	109	165	18.62
J108-03281	21/64	109	165	15.53
J107-03307	8.4	109	165	18.62
J107-03346	8.5	109	165	15.53
J107-03386	8.6	115	175	18.62

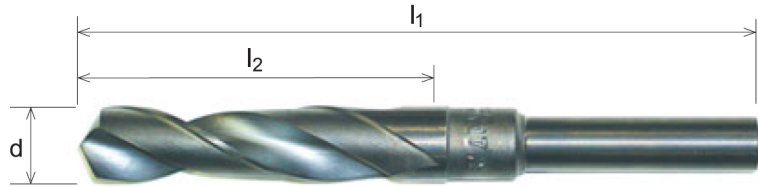
Code	Size	l_2	l_1	\$ ea.
J107-03425	8.7	115	175	18.62
J108-03438	11/32	115	175	17.54
J107-03465	8.8	115	175	18.62
J107-03504	8.9	115	175	18.62
J107-03543	9.0	115	175	17.92
J107-03583	9.1	115	175	21.56
J108-03594	23/64	115	175	17.92
J107-03622	9.2	115	175	21.56
J107-03661	9.3	115	175	21.56
J107-03701	9.4	115	175	21.56
J107-03740	9.5	115	175	18.87
J108-03750	3/8	121	184	18.39
J107-03780	9.6	121	184	22.62
J107-03819	9.7	121	184	22.62
J107-03858	9.8	121	184	22.62
J107-03898	9.9	121	184	22.62
J108-03906	25/64	121	184	19.41
J107-03937	10.0	121	184	19.41
J107-03976	10.1	121	184	22.29
J107-04016	10.2	121	184	27.17
J107-04055	10.3	121	184	27.17
J108-04062	13/32	121	184	22.29
J107-04094	10.4	121	184	27.17
J107-04134	10.5	121	184	22.29
J107-04173	10.6	121	184	31.68
J107-04213	10.7	128	195	31.68
J108-04219	27/64	128	195	24.47
J107-04252	10.8	128	195	31.68
J107-04291	10.9	128	195	31.68
J107-04331	11.0	128	195	25.24
J107-04370	11.1	128	195	35.25
J108-04375	7/16	128	195	25.24



LONG SERIES DRILLS (BULK)

Code	Size	l_2	l_1	\$ ea.
J107-04409	11.2	128	195	35.25
J107-04449	11.3	128	195	35.25
J107-04488	11.4	128	195	35.25
J107-04528	11.5	128	195	28.82
J108-04531	29/64	128	195	25.89
J107-04567	11.6	128	195	40.33
J107-04606	11.7	128	195	40.33
J107-04646	11.8	128	195	40.33
J107-04685	11.9	134	205	40.33
J108-04688	15/32	134	205	29.47
J107-04724	12.0	134	205	30.91
J107-04764	12.1	134	205	43.29
J107-04803	12.2	134	205	43.29
J107-04843	12.3	134	205	43.29
J108-04844	31/64	134	205	30.91
J107-04882	12.4	134	205	43.29
J107-04924	12.5	134	205	32.38
J107-04961	12.6	134	205	45.30
J107-05000	12.7	134	205	45.30
J108-05000	1/2	134	205	32.38

Code	Size	l_2	l_1	\$ ea.
J107-05039	12.8	134	205	45.30
J107-05079	12.9	134	205	45.30
J107-05118	13.0	134	205	33.78
J108-05156	33/64	140	214	34.45
J108-05312	17/32	140	214	39.07
J107-05512	14.0	140	214	42.09
J108-05625	9/16	144	220	39.38
J107-05906	15.0	144	220	47.83
J107-05937	19/32	149	227	47.83
J108-06250	5/8	149	227	43.65
J107-06299	16.0	149	227	43.65
J107-06693	17.0	154	235	52.49
J107-07087	18.0	158	241	56.94
J107-07480	19.0	162	247	58.43
J107-07874	20.0	166	254	66.24
J107-08267	21.0	171	261	67.73
J107-08661	22.0	176	268	71.60
J107-09055	23.0	180	275	76.76
J107-09448	24.0	185	282	87.61
J107-09842	25.0	185	290	94.36



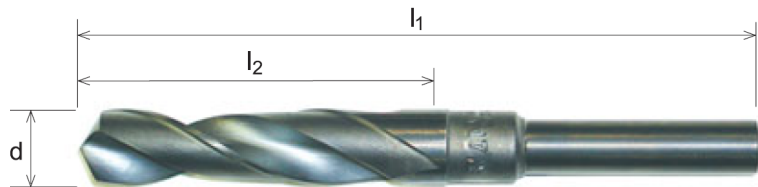
HSS 1/2" REDUCED SHANK DRILLS

Code	Size	l_2	l_1	\$ ea.
RDM13	13.0	94	142	26.29
RDI27	17/32	80	152	34.72
RDI28	35/64	80	152	34.72
RDM13.5	13.5	80	152	34.72
RDM14	14.0	80	152	34.72
RDI29	9/16	80	152	34.72
RDM14.5	14.5	80	152	34.72
RDI30	37/64	80	152	34.72
RDM15	15.0	80	152	38.02
RDI31	19/32	80	152	38.02
RDI32	39/64	80	152	38.02
RDM15.5	15.5	80	152	38.02
RDI33	5/8	80	152	38.02
RDI34	41/64	80	152	38.02
RDM16	16.0	80	152	38.02
RDM16.5	16.5	80	152	42.96
RDI35	21/32	80	152	42.96
RDM17	17.0	80	152	42.96
RDI36	43/64	80	152	42.96
RDI37	11/16	80	152	43.80
RDM17.5	17.5	80	152	44.63
RDI38	45/64	80	152	45.00
RDM18	18.0	80	152	44.63
RDI39	23/32	80	152	44.63
RDM18.5	18.5	80	152	46.29
RDI40	47/64	80	152	46.29
RDM19	19.0	80	152	46.29
RDI41	3/4	80	152	46.29
RDI42	49/64	76	152	52.92

Code	Size	l_2	l_1	\$ ea.
RDM19.5	19.5	76	152	52.92
RDI43	25/32	76	152	52.92
RDM20	20.0	76	152	52.92
RDI44	51/64	76	152	54.55
RDM20.5	20.5	76	152	57.02
RDI45	13/16	76	152	54.55
RDM21	21.0	76	152	57.02
RDI46	53/64	76	152	57.02
RDI47	27/32	76	152	57.02
RDM21.5	21.5	76	152	57.02
RDI48	55/64	76	152	57.02
RDM22	22.0	76	152	57.02
RDI49	7/8	76	152	57.02
RDM22.5	22.5	76	152	62.81
RDI50	57/64	76	152	62.81
RDM23	23.0	76	152	62.81
RDI51	29/32	76	152	62.81
RDI52	59/64	76	152	66.11
RDM23.5	23.5	76	152	66.11
RDI53	15/16	76	152	66.11
RDM24	24.0	76	152	69.40
RDI54	61/64	76	152	69.40
RDM24.5	24.5	76	152	69.40
RDI55	31/32	76	152	69.40
RDM25	25.0	76	152	69.40
RDI56	63/64	76	152	69.40
RDI57	1"	76	152	69.40
RDM25.5	25.5	76	152	69.40
RDM26	26.0	76	152	95.86

CAPITAL

CUTTING TOOLS



HSS 1/2" REDUCED SHANK DRILLS

Code	Size	l_2	l_1	\$ ea.
RDM26.5	26.5	76	152	95.86
RDI60	1.3/64	76	152	95.86
RDI61	1.1/16	76	152	95.86
RDM27	27.0	76	152	95.86
RDI62	1.5/64	76	152	102.48
RDI63	1.3/32	76	152	102.48
RDM28	28.0	76	152	102.47
RDI64	1.7/64	76	152	102.48
RDM28.5	28.5	76	152	102.47
RDI65	1.1/8	76	152	102.47
RDI66	1.9/64	76	152	107.42
RDM29	29.0	76	152	102.47
RDI67	1.5/32	76	152	107.42
RDM30	30.0	76	152	107.42
RDI69	1.3/16	76	152	107.42
RDI70	1.7/32	76	152	118.99

Code	Size	l_2	l_1	\$ ea.
RDM31	31.0	76	152	118.99
RDI71	1.15/64	76	152	118.99
RDI73	1.1/4	76	152	118.99
RDM32	32.0	76	152	118.99
RDM33	33.0	76	152	139.51
RDI77	1.5/16	76	152	139.52
RDM34	34.0	76	152	139.52
RDI81	1.3/8	76	152	139.52
RDM35	35.0	76	152	139.51
RDM36	36.0	76	152	154.05
RDM37	37.0	76	152	154.05
RDM38	38.0	76	152	154.05
RDI89	1.1/2	76	152	154.05
RDM39	39.0	76	152	154.05
RDM40	40.0	76	152	154.05



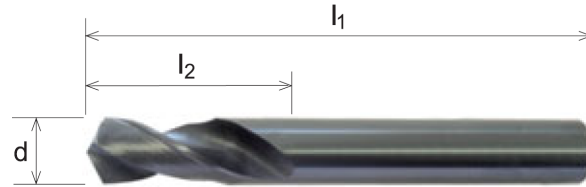
REDUCED SHANK DRILL SETS (HSS)

Code	Sizes	\$ ea.
RSD-200	M14, M15, M16, M17, M18, M19, M20	349.40
RSD-300	9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4	362.77
RSD-100	M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25	618.85
RSD-400	9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4, 25/32, 13/16, 7/8, 15/16, 1"	642.22

EXTENSION REDUCED SHANK DRILL SETS (HSS) - 200MM OAL

Code	Sizes	\$ ea.
RSD-500	M14, M15, M16, M17, M18, M19, M20	617.88
RSD-700	9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4	626.41
RSD-600	M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25	1149.42
RSD-800	9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4, 25/32, 13/16, 7/8, 15/16, 1"	1167.67

REDUCED SHANK DRILL SETS INCLUDE ONE DRILL PER SIZE LISTED ABOVE



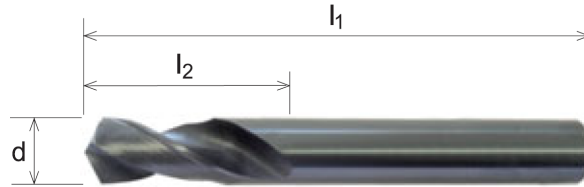
STUB DRILLS

Code	Size	l_2	l_1	\$ ea.
J123-00591	1.5	9	32	2.15
J124-00625	1/16	10	34	2.07
J123-00630	1.6	10	34	2.47
J123-00669	1.7	10	34	2.47
J123-00709	1.8	12	38	2.47
J123-00748	1.9	12	38	2.29
J124-00781	5/64	12	38	2.29
J123-00787	2.0	12	38	2.29
J123-00827	2.1	12	38	2.53
J123-00866	2.2	13	40	2.53
J123-00906	2.3	13	40	2.53
J124-00938	3/32	14	43	2.29
J123-00945	2.4	14	43	2.53
J123-00984	2.5	14	43	2.29
J123-01024	2.6	14	43	2.53
J123-01063	2.7	16	46	2.53
J124-01094	7/64	16	46	1.83
J123-01102	2.8	16	46	2.26
J123-01142	2.9	16	46	2.26
J123-01181	3.0	16	46	1.95
J123-01220	3.1	18	49	2.26
J124-01250	1/8	18	49	1.95
J123-01260	3.2	18	49	2.26
J123-01299	3.3	18	49	2.26
J123-01339	3.4	20	52	2.26
J123-01378	3.5	20	52	2.07
J124-01406	9/64	20	52	2.07
J123-01417	3.6	20	52	2.39
J123-01457	3.7	20	52	2.39
J123-01496	3.8	22	55	2.39
J123-01535	3.9	22	55	2.39
J124-01562	5/32	22	55	2.26

Code	Size	l_2	l_1	\$ ea.
J123-01575	4.0	22	55	2.39
J123-01614	4.1	22	55	2.69
J123-01654	4.2	22	55	2.69
J123-01693	4.3	24	58	2.69
J124-01719	11/64	24	58	2.58
J123-01732	4.4	24	58	2.69
J123-01772	4.5	24	58	2.58
J123-01811	4.6	24	58	2.69
J123-01850	4.7	24	58	2.69
J124-01875	3/16	26	62	2.83
J123-01890	4.8	26	62	2.83
J123-01929	4.9	26	62	3.05
J123-01968	5.0	26	62	3.05
J123-02008	5.1	26	62	3.05
J124-02031	13/64	26	62	3.64
J123-02047	5.2	26	62	3.64
J123-02087	5.3	26	62	3.64
J123-02126	5.4	28	66	3.64
J123-02165	5.5	28	66	3.64
J124-02188	7/32	28	66	3.64
J123-02205	5.6	28	66	3.64
J123-02244	5.7	28	66	4.02
J123-02283	5.8	28	66	4.02
J123-02323	5.9	28	66	4.02
J123-02362	6.0	28	66	4.02
J123-02402	6.1	31	70	4.37
J123-02441	6.2	31	70	4.37
J123-02480	6.3	31	70	3.95
J124-02500	1/4	31	70	4.37
J123-02520	6.4	31	70	4.46
J123-02559	6.5	31	70	4.46
J123-02677	6.8	34	74	5.25

CAPITAL

CUTTING TOOLS



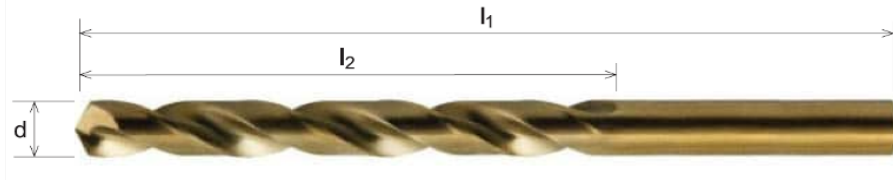
STUB DRILLS

Code	Size	l ₂	l ₁	\$ ea.
J123-02756	7.0	34	74	5.24
J123-02835	7.2	34	74	5.24
J123-02953	7.5	34	74	5.92
J123-03071	7.8	37	79	6.44
J124-03125	5/16	37	79	6.44
J123-03150	8.0	37	79	6.44
J123-03228	8.2	37	79	7.23
J123-03346	8.5	37	79	7.23
J123-03465	8.8	40	84	7.97
J123-03543	9.0	40	84	7.97
J123-03622	9.2	40	84	8.84
J123-03740	9.5	40	84	8.84
J124-03750	3/8	43	89	8.84
J123-03858	9.8	43	89	9.49
J123-03937	10.0	43	89	9.49
J123-04016	10.2	43	89	9.49
J123-04134	10.5	43	89	12.64
J123-04252	10.8	47	95	12.64
J123-04331	11.0	47	95	12.64
J124-04375	7/16	47	95	12.64
J123-04409	11.2	47	95	13.92
J123-04528	11.5	47	95	13.92
J123-04646	11.8	47	95	13.92
J123-04724	12.0	51	102	15.77
J123-04803	12.2	51	102	17.35

Code	Size	l ₂	l ₁	\$ ea.
J123-04924	12.5	51	102	17.35
J124-05000	1/2	51	102	17.35
J123-05039	12.8	51	102	18.39
J123-05118	13.0	51	102	18.39
J123-05196	13.2	51	102	28.99
J123-05314	13.5	54	107	31.59
J123-05433	13.8	54	107	32.17
J123-05512	14.0	54	107	33.07
J123-05709	14.5	56	111	33.07
J123-05906	15.0	56	111	33.33
J123-06102	15.5	58	115	34.40
J123-06299	16.0	58	115	36.77
J123-06496	16.5	60	119	49.36
J123-06693	17.0	60	119	49.36
J123-06890	17.5	62	123	62.32
J123-07087	18.0	62	123	62.32
J123-07283	18.5	64	127	62.32
J123-07480	19.0	64	127	42.58
J123-07677	19.5	66	131	53.98
J123-07874	20.0	66	131	61.15
J123-08268	21.0	68	136	61.15
J123-08661	22.0	70	141	62.89
J123-09055	23.0	72	146	62.89
J123-09449	24.0	75	151	64.97
J123-09843	25.0	75	151	66.24

CAPITAL

CUTTING TOOLS



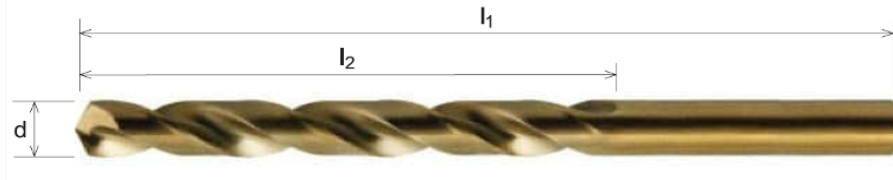
COBALT JOBBER DRILLS

Code	Size	l ₂	l ₁	\$ ea.
J113-00394	1.0	18	40	12.68
J113-00591	1.5	18	40	9.95
J114-00625	1/16	20	43	5.24
J113-00630	1.6	20	43	9.95
J113-00669	1.7	20	43	9.95
J113-00709	1.8	22	46	9.95
J113-00748	1.9	22	46	9.95
J114-00781	5/64	24	49	4.79
J113-00787	2.0	24	49	4.37
J113-00827	2.1	24	49	4.79
J113-00866	2.2	27	53	4.79
J113-00906	2.3	27	53	4.79
J114-00938	3/32	30	57	4.79
J113-00945	2.4	30	57	4.79
J113-00984	2.5	30	57	4.37
J113-01024	2.6	30	57	4.37
J113-01063	2.7	33	61	4.37
J114-01094	7/64	33	61	4.37
J113-01102	2.8	33	61	4.37
J113-01142	2.9	33	61	4.37
J113-01181	3.0	33	61	4.19
J113-01220	3.1	36	65	5.88
J114-01250	1/8	36	65	4.67
J113-01260	3.2	36	65	5.88
J113-01299	3.3	36	65	5.88
J113-01339	3.4	39	70	5.88
J113-01378	3.5	39	70	4.57
J114-01406	9/64	39	70	5.63
J113-01417	3.6	39	70	6.53
J113-01457	3.7	39	70	6.53
J113-01496	3.8	43	75	6.53
J113-01535	3.9	43	75	6.53

Code	Size	l ₂	l ₁	\$ ea.
J114-01562	5/32	43	75	5.63
J113-01575	4.0	43	75	5.25
J113-01614	4.1	43	75	6.53
J113-01654	4.2	43	75	6.53
J113-01693	4.3	47	80	6.53
J114-01719	11/64	47	80	6.39
J113-01732	4.4	47	80	6.53
J113-01772	4.5	47	80	5.76
J113-01811	4.6	47	80	8.89
J113-01850	4.7	47	80	8.89
J114-01875	3/16	52	86	6.98
J113-01890	4.8	52	86	8.89
J113-01929	4.9	52	86	8.89
J113-01968	5.0	52	86	6.79
J113-02008	5.1	52	86	9.41
J114-02031	13/64	52	86	8.02
J113-02047	5.2	52	86	9.41
J113-02087	5.3	52	86	9.41
J113-02126	5.4	57	93	9.41
J113-02165	5.5	57	93	7.88
J114-02188	7/32	57	93	8.70
J113-02205	5.6	57	93	9.58
J113-02244	5.7	57	93	9.58
J113-02283	5.8	57	93	9.58
J113-02323	5.9	57	93	9.58
J114-02344	15/64	57	93	9.58
J113-02362	6.0	57	93	9.09
J113-02402	6.1	63	101	10.71
J113-02441	6.2	63	101	10.71
J113-02480	6.3	63	101	10.71
J114-02500	1/4	63	101	10.71
J113-02520	6.4	63	101	10.71

CAPITAL

CUTTING TOOLS



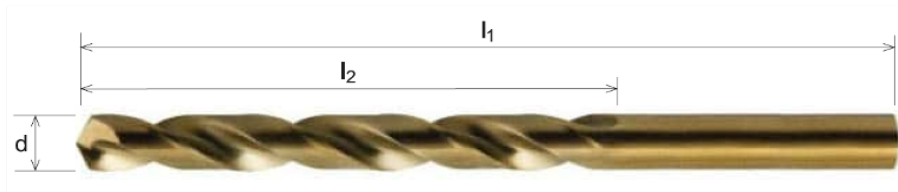
COBALT JOBBER DRILLS

Code	Size	l ₂	l ₁	\$ ea.
J113-02559	6.5	63	101	10.15
J113-02598	6.6	63	101	13.62
J113-02638	6.7	63	101	13.62
J114-02656	17/64	69	109	12.19
J113-02677	6.8	69	109	13.62
J113-02717	6.9	69	109	13.62
J113-02756	7.0	69	109	12.08
J113-02795	7.1	69	109	18.28
J114-02812	9/32	69	109	13.62
J113-02835	7.2	69	109	18.28
J113-02874	7.3	69	109	18.28
J113-02913	7.4	69	109	18.28
J113-02953	7.5	69	109	13.48
J114-02969	19/64	75	117	14.79
J113-02992	7.6	75	117	18.28
J113-03032	7.7	75	117	18.28
J113-03071	7.8	75	117	18.28
J113-03110	7.9	75	117	18.28
J114-03125	5/16	75	117	15.94
J113-03150	8.0	75	117	14.47
J113-03189	8.1	75	117	22.08
J113-03228	8.2	75	117	22.08
J113-03268	8.3	75	117	22.08
J114-03281	21/64	75	117	17.10
J113-03307	8.4	75	117	22.08
J113-03346	8.5	75	117	16.24
J113-03386	8.6	81	125	24.85
J113-03425	8.7	81	125	24.85
J114-03438	11/32	81	125	18.71
J113-03465	8.8	81	125	24.85
J113-03504	8.9	81	125	24.85
J113-03543	9.0	81	125	17.79

Code	Size	l ₂	l ₁	\$ ea.
J113-03583	9.1	81	125	27.85
J114-03594	23/64	81	125	20.61
J113-03622	9.2	81	125	27.85
J113-03661	9.3	81	125	27.85
J113-03701	9.4	81	125	28.93
J113-03740	9.5	81	125	19.87
J114-03750	3/8	87	133	21.89
J113-03780	9.6	87	133	27.85
J113-03819	9.7	87	133	27.85
J113-03858	9.8	87	133	27.85
J113-03898	9.9	87	133	27.85
J114-03906	25/64	87	133	23.38
J113-03937	10.0	87	133	21.56
J113-03976	10.1	87	133	31.63
J113-04016	10.2	87	133	31.63
J113-04055	10.3	87	133	31.63
J114-04062	13/32	87	133	26.29
J113-04094	10.4	87	133	31.63
J113-04134	10.5	87	133	26.84
J113-04173	10.6	87	133	31.63
J113-04213	10.7	94	142	31.63
J114-04219	27/64	94	142	29.02
J113-04252	10.8	94	142	31.63
J113-04291	10.9	94	142	31.63
J113-04331	11.0	94	142	28.15
J113-04370	11.1	94	142	38.83
J114-04375	7/16	94	142	31.54
J113-04409	11.2	94	142	38.83
J113-04449	11.3	94	142	38.83
J113-04488	11.4	94	142	38.83
J113-04528	11.5	94	142	32.33
J114-04531	29/64	94	142	34.72

CAPITAL

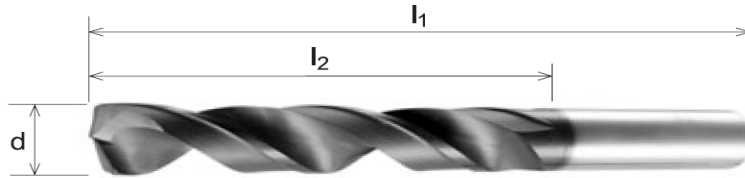
CUTTING TOOLS



COBALT JOBBER DRILLS

Code	Size	l ₂	l ₁	\$ ea.
J113-04567	11.6	94	142	50.79
J113-04606	11.7	94	142	50.79
J113-04646	11.8	94	142	50.79
J113-04685	11.9	101	151	50.79
J114-04688	15/32	101	151	39.03
J113-04724	12.0	101	151	50.79
J113-04764	12.1	101	151	116.12
J113-04803	12.2	101	151	116.12
J113-04843	12.3	101	151	116.12
J114-04844	31/64	101	151	64.73

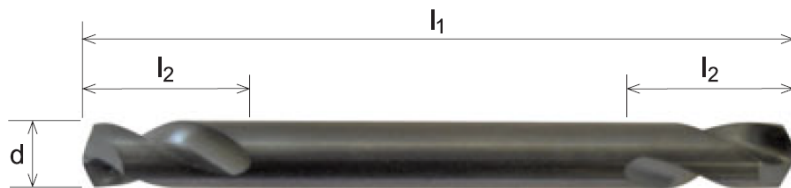
Code	Size	l ₂	l ₁	\$ ea.
J113-04882	12.4	101	151	116.12
J113-04924	12.5	101	151	64.37
J113-04961	12.6	101	151	116.12
J113-05000	12.7	101	151	116.12
J114-05000	1/2	101	151	43.40
J113-05019	12.75	101	151	116.12
J113-05039	12.8	101	151	116.12
J113-05079	12.9	101	151	116.12
J113-05118	13.0	101	151	53.76



CARBIDE JOBBER DRILLS

Code	Size	l_2	l_1	\$ ea.
CJD-01181	3.0	45	80	43.00
CJD-01378	3.5	45	80	43.00
CJD-01575	4.0	45	80	43.00
CJD-01772	4.5	45	80	52.21
CJD-01968	5.0	45	80	52.21
CJD-02165	5.5	50	83	67.57
CJD-02362	6.0	50	83	73.71
CJD-02559	6.5	53	85	84.33
CJD-02756	7.0	53	85	97.55
CJD-02953	7.5	58	90	106.68
CJD-03150	8.0	58	90	121.93
CJD-03346	8.5	64	98	134.41

Code	Size	l_2	l_1	\$ ea.
CJD-03543	9.0	64	98	150.89
CJD-03740	9.5	64	98	163.78
CJD-03937	10.0	68	105	183.39
CJD-04134	10.5	73	110	193.86
CJD-04331	11.0	73	110	209.27
CJD-04528	11.5	80	120	222.70
CJD-04724	12.0	80	120	235.04
CJD-04924	12.5	90	137	252.86
CJD-05118	13.0	90	137	265.05
CJD-05512	14.0	105	156	327.54
CJD-05906	15.0	105	156	367.00
CJD-06299	16.0	105	156	424.22

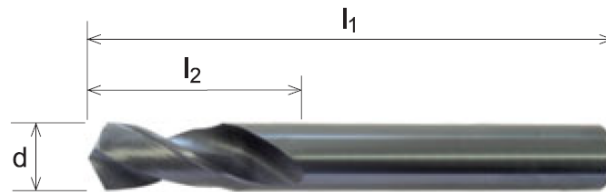


DOUBLE ENDED PANEL DRILLS

Code	Size	l_2	l_1	\$ ea.
D126-01285	30	10	49	2.50
D126-01610	20	12	55	3.07
D126-01910	11	14	62	3.65

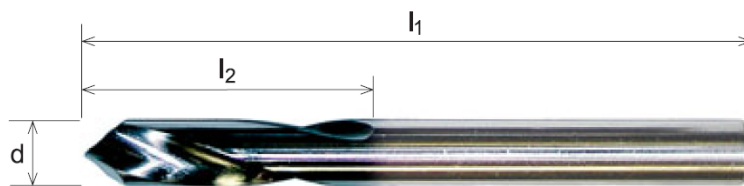
CAPITAL

CUTTING TOOLS



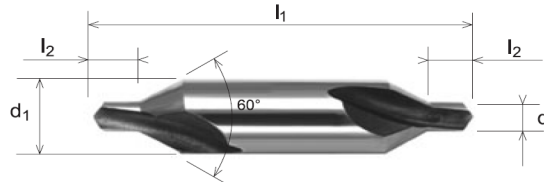
SINGLE ENDED PANEL DRILLS

Code	Size	l_2	l_1	\$ ea.
D129-01285	30	12	49	1.60
D129-01610	20	15	55	1.96
D129-01910	11	17	62	2.34



NC SPOTTING DRILL HSS Co TiCN

Code	Diameter	OAL	F/L	Point Angle	\$ ea.
D149-6	6	66	30	90°	30.40
D149-8	8	79	33	90°	37.03
D149-10	10	89	35	90°	43.47
D149-12	12	102	40	90°	63.98
D149-16	16	115	40	90°	148.27
D149-20	20	131	55	90°	168.90

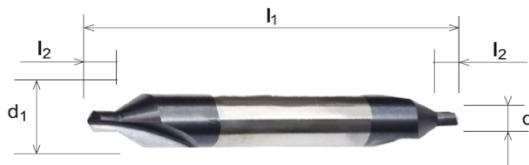


CENTRE DRILL PLAIN TYPE

Code	Size	Body O/D	OAL	Drill Point Diameter	Drill Point Length	\$ ea.
C170-1	No1	1/8	31	3/64	3/64	7.06
C170-2	No2	3/16	47	5/64	5/64	7.42
C170-3	No3	1/4	50	7/64	7/64	8.16
C170-4	No4	5/16	54	1/8	1/8	9.83
C170-5	No5	7/16	70	3/16	3/16	15.98
C170-6	No6	1/2	75	7/32	7/32	29.81
C170-7	No7	5/8	81	1/4	1/4	45.27
C170-8	No8	3/4	87	5/16	5/16	63.67

LONG SERIES CENTRE DRILL

Code	Size	Body O/D	OAL	Drill Point Diameter	Drill Point Length	\$ ea.
C171-1	No1	1/8	60	3/64	3/64	41.43
C171-2	No2	3/16	80	5/64	5/64	41.43
C171-3	No3	1/4	100	7/64	7/64	45.57
C171-4	No4	5/16	120	1/8	1/8	58.00
C171-5	No5	7/16	120	3/16	3/16	66.29
C171-6	No6	1/2	120	7/32	7/32	76.93
C171-7	No7	5/8	120	1/4	1/4	91.99



CARBIDE CENTRE DRILL

Code	Size	Body O/D	OAL	Drill Point Diameter	Drill Point Length	\$ ea.
CCD-1	No1	1/8	31	3/64	3/64	64.55
CCD-2	No2	3/16	47	5/64	5/64	70.79
CCD-3	No3	1/4	50	7/64	7/64	85.18
CCD-4	No4	5/16	54	1/8	1/8	92.80
CCD-5	No5	7/16	70	3/16	3/16	130.93
CCD-6	No6	1/2	75	7/32	7/32	151.15
CCD-7	No7	5/8	81	1/4	1/4	184.23

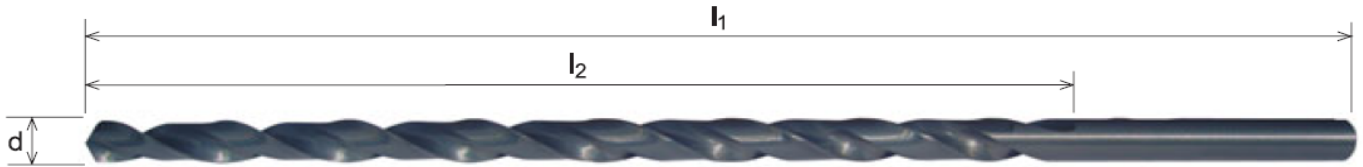


CENTRE DRILL PLAIN TYPE SETS

Code	Sizes	Number in Set	\$ ea.
C170-0105	No 1	2	85.23
	No 2	2	
	No 3	1	
	No 4	1	
	No 5	1	

Code	Sizes	Number in Set	\$ ea.
C170-0107	No 1	2	147.84
	No 2	2	
	No 3	2	
	No 4	2	
	No 5	1	
	No 6	1	
	No 7	1	

Code	Sizes	Number in Set	\$ ea.
C170-0108	No 1	2	200.41
	No 2	2	
	No 3	2	
	No 4	2	
	No 5	1	
	No 6	1	
	No 7	1	
	No 8	1	



EXTRA LENGTH DRILLS - STRAIGHT SHANK

80mm FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J16U-00591	1.5	80	125	18.87
J16U-00787	2.0	80	125	18.87

Code	Size	l_2	l_1	\$ ea.
J16U-00984	2.5	80	125	18.87
J16U-01181	3.0	80	125	17.08

100mm FLUTE LENGTH

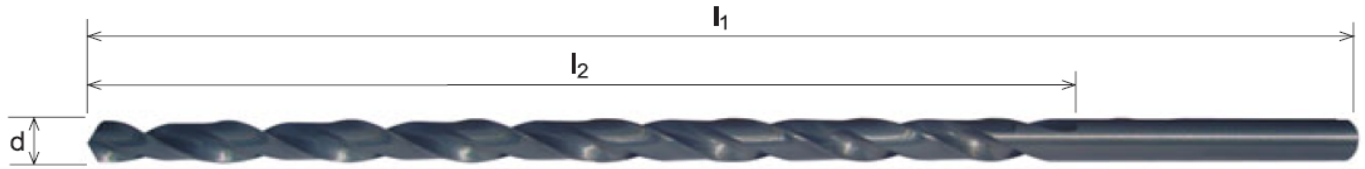
Code	Size	l_2	l_1	\$ ea.
J16V-00591	1.5	100	160	24.69
J16V-00787	2.0	100	160	24.69
J16V-00984	2.5	100	160	20.06
J16V-01181	3.0	100	160	18.32
J16V-01378	3.5	100	160	19.41

Code	Size	l_2	l_1	\$ ea.
J16V-01575	4.0	100	160	20.48
J16V-01772	4.5	100	160	25.39
J16V-01968	5.0	100	160	26.65
J16V-02165	5.5	100	160	30.48
J16V-02362	6.0	100	160	32.57

150mm FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J16W-00787	2.0	150	200	30.48
J16W-00984	2.5	150	200	30.48
J16W-01181	3.0	150	200	28.94
J16W-01378	3.5	150	200	31.02
J16W-01575	4.0	150	200	31.02
J16W-01772	4.5	150	200	32.22
J16W-01968	5.0	150	200	32.22
J16W-02165	5.5	150	200	34.95
J16W-02362	6.0	150	200	35.63

Code	Size	l_2	l_1	\$ ea.
J16W-02559	6.5	150	200	35.63
J16W-02756	7.0	150	200	41.17
J16W-02953	7.5	150	200	41.17
J16W-03150	8.0	150	200	43.04
J16W-03346	8.5	150	200	43.05
J16W-03543	9.0	150	200	49.54
J16W-03740	9.5	150	200	51.70
J16W-03937	10.0	150	200	53.32



EXTRA LENGTH DRILLS - STRAIGHT SHANK

200mm FLUTE LENGTH

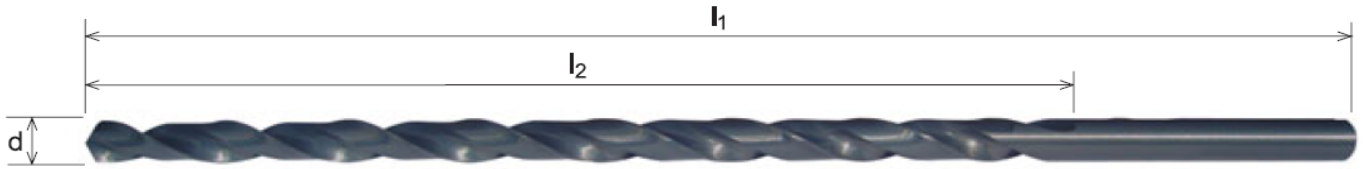
Code	Size	l_2	l_1	\$ ea.	Code	Size	l_2	l_1	\$ ea.
J16X-01181	3.0	200	250	33.15	J16X-03346	8.5	200	250	58.68
J16X-01378	3.5	200	250	34.05	J16X-03543	9.0	200	250	59.39
J16X-01575	4.0	200	250	35.49	J16X-03740	9.5	200	250	62.06
J16X-01772	4.5	200	250	36.38	J16X-03937	10.0	200	250	64.10
J16X-01968	5.0	200	250	38.86	J16X-04134	10.5	200	250	72.99
J16X-02165	5.5	200	250	40.06	J16X-04331	11.0	200	250	76.25
J16X-02362	6.0	200	250	43.08	J16X-04528	11.5	200	250	80.76
J16X-02559	6.5	200	250	44.24	J16X-04724	12.0	200	250	83.73
J16X-02756	7.0	200	250	45.90	J16X-04921	12.5	200	250	87.37
J16X-02953	7.5	200	250	47.88	J16X-05118	13.0	200	250	88.92
J16X-03150	8.0	200	250	53.95					

250mm FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.	Code	Size	l_2	l_1	\$ ea.
J16Y-01181	3.0	250	315	40.20	J16Y-03543	9.0	250	315	67.95
J16Y-01575	4.0	250	315	41.88	J16Y-03937	10.0	250	315	77.64
J16Y-01968	5.0	250	315	43.46	J16Y-04331	11.0	250	315	88.38
J16Y-02362	6.0	250	315	45.06	J16Y-04724	12.0	250	315	98.81
J16Y-02756	7.0	250	315	55.97	J16Y-05118	13.0	250	315	106.06
J16Y-03150	8.0	250	315	61.49					

300mm FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.	Code	Size	l_2	l_1	\$ ea.
J16Z-01378	3.5	300	400	57.97	J16Z-03346	8.5	300	400	92.19
J16Z-01575	4.0	300	400	53.36	J16Z-03543	9.0	300	400	81.36
J16Z-01772	4.5	300	400	59.83	J16Z-03740	9.5	300	400	98.30
J16Z-01968	5.0	300	400	55.15	J16Z-03937	10.0	300	400	87.67
J16Z-02165	5.5	300	400	64.07	J16Z-04134	10.5	300	400	106.30
J16Z-02362	6.0	300	400	59.12	J16Z-04331	11.0	300	400	98.31
J16Z-02559	6.5	300	400	73.85	J16Z-04528	11.5	300	400	125.38
J16Z-02756	7.0	300	400	68.96	J16Z-04724	12.0	300	400	112.71
J16Z-02953	7.5	300	400	82.86	J16Z-04921	12.5	300	400	139.04
J16Z-03150	8.0	300	400	75.11	J16Z-05118	13.0	300	400	118.42



EXTRA LENGTH DRILLS - STRAIGHT SHANK

3" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J163U-00625	1/16	3"	5"	19.75
J163U-00781	5/64	3"	5"	19.75

Code	Size	l_2	l_1	\$ ea.
J163U-00938	3/32	3"	5"	19.75
J163U-01250	1/8	3"	5"	15.69

4" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J164V-01250	1/8	4"	6"	24.44
J164V-01562	5/32	4"	6"	27.09
J164V-01875	3/16	4"	6"	29.29

Code	Size	l_2	l_1	\$ ea.
J164V-02188	7/32	4"	6"	31.33
J164V-02500	1/4	4"	6"	33.55

6" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J165W-01250	1/8	6"	8"	26.29
J165W-01562	5/32	6"	8"	29.66
J165W-01875	3/16	6"	8"	31.02
J165W-02188	7/32	6"	8"	31.66
J165W-02500	1/4	6"	8"	33.15
J165W-02812	9/32	6"	8"	35.29

Code	Size	l_2	l_1	\$ ea.
J165W-03125	5/16	6"	8"	39.51
J165W-03438	11/32	6"	8"	44.92
J165W-03750	3/8	6"	8"	48.86
J165W-04375	7/16	6"	8"	53.36
J165W-05000	1/2	6"	8"	70.87

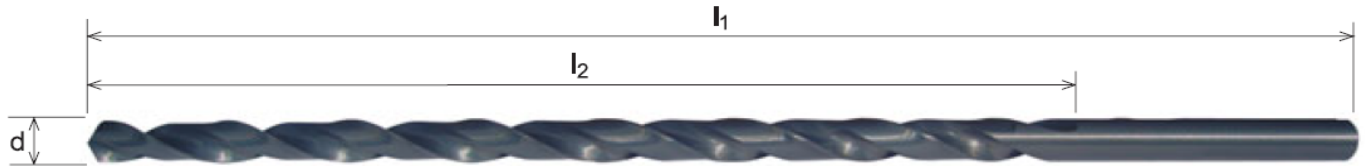
8" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J168X-01250	1/8	8"	10"	29.40
J168X-01562	5/32	8"	10"	34.81
J168X-01875	3/16	8"	10"	36.90
J168X-02188	7/32	8"	10"	37.15
J168X-02500	1/4	8"	10"	39.98
J168X-02812	9/32	8"	10"	42.55
J168X-03125	5/16	8"	10"	48.43

Code	Size	l_2	l_1	\$ ea.
J168X-03438	11/32	8"	10"	54.79
J168X-03750	3/8	8"	10"	60.20
J168X-04062	13/32	8"	10"	66.29
J168X-04375	7/16	8"	10"	72.44
J168X-04688	15/32	8"	10"	79.52
J168X-05000	1/2	8"	10"	87.56

CAPITAL

CUTTING TOOLS



EXTRA LENGTH DRILLS - STRAIGHT SHANK

10" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J161Y-01250	1/8	10"	12"	41.72
J161Y-01562	5/32	10"	12"	43.62
J161Y-01875	3/16	10"	12"	44.21
J161Y-02188	7/32	10"	12"	45.11
J161Y-02500	1/4	10"	12"	48.84
J161Y-02812	9/32	10"	12"	51.96
J161Y-03125	5/16	10"	12"	58.93

Code	Size	l_2	l_1	\$ ea.
J161Y-03438	11/32	10"	12"	66.56
J161Y-03750	3/8	10"	12"	72.66
J161Y-04062	13/32	10"	12"	80.02
J161Y-04375	7/16	10"	12"	88.78
J161Y-04688	15/32	10"	12"	95.63
J161Y-05000	1/2	10"	12"	105.73

12" FLUTE LENGTH

Code	Size	l_2	l_1	\$ ea.
J161Z-01875	3/16	12"	16"	56.29
J161Z-02500	1/4	12"	16"	59.34
J161Z-03125	5/16	12"	16"	72.17
J161Z-03438	11/32	12"	16"	78.86

Code	Size	l_2	l_1	\$ ea.
J161Z-03750	3/8	12"	16"	89.41
J161Z-04375	7/16	12"	16"	108.20
J161Z-04688	15/32	12"	16"	117.14
J161Z-05000	1/2	12"	16"	126.94



HSS ANNULAR CUTTERS

35mm Depth

Code	Size	\$ ea.	Code	Size	\$ ea.
CC801-1200	12.0	41.39	CC801-3700	37.0	130.55
CC801-1300	13.0	45.06	CC801-3800	38.0	134.04
CC801-1400	14.0	46.33	CC801-3900	39.0	137.63
CC801-1500	15.0	50.30	CC801-4000	40.0	141.27
CC801-1600	16.0	53.71	CC801-4100	41.0	161.56
CC801-1700	17.0	56.01	CC801-4200	42.0	165.44
CC801-1800	18.0	59.03	CC801-4300	43.0	171.67
CC801-1900	19.0	60.20	CC801-4400	44.0	173.36
CC801-2000	20.0	61.98	CC801-4500	45.0	202.88
CC801-2100	21.0	63.77	CC801-4600	46.0	206.83
CC801-2200	22.0	65.62	CC801-4700	47.0	210.96
CC801-2300	23.0	67.62	CC801-4800	48.0	215.13
CC801-2400	24.0	72.45	CC801-4900	49.0	219.44
CC801-2500	25.0	74.50	CC801-5000	50.0	223.79
CC801-2600	26.0	92.13	CC801-5100	51.0	256.29
CC801-2700	27.0	94.57	CC801-5200	52.0	260.64
CC801-2800	28.0	97.18	CC801-5300	53.0	269.34
CC801-2900	29.0	99.85	CC801-5400	54.0	278.04
CC801-3000	30.0	102.60	CC801-5500	55.0	264.05
CC801-3100	31.0	107.50	CC801-5600	56.0	300.80
CC801-3200	32.0	110.34	CC801-5700	57.0	309.39
CC801-3300	33.0	117.59	CC801-5800	58.0	317.97
CC801-3400	34.0	120.71	CC801-5900	59.0	326.56
CC801-3500	35.0	123.91	CC801-6000	60.0	307.00
CC801-3600	36.0	127.31			

****OVERALL LENGTH OF 35MM DEPTH = 64MM**



HSS ANNULAR CUTTERS

50mm Depth

Code	Size	\$ ea.	Code	Size	\$ ea.
CC802-1400	14.0	84.30	CC802-3400	34.0	202.28
CC802-1500	15.0	85.25	CC802-3500	35.0	180.12
CC802-1600	16.0	91.01	CC802-3600	36.0	212.89
CC802-1700	17.0	94.68	CC802-3700	37.0	217.23
CC802-1800	18.0	98.73	CC802-3800	38.0	192.31
CC802-1900	19.0	100.75	CC802-3900	39.0	225.15
CC802-2000	20.0	103.15	CC802-4000	40.0	200.38
CC802-2100	21.0	105.53	CC802-4100	41.0	247.40
CC802-2200	22.0	107.96	CC802-4200	42.0	266.26
CC802-2300	23.0	110.56	CC802-4300	43.0	285.12
CC802-2400	24.0	117.26	CC802-4400	44.0	303.98
CC802-2500	25.0	119.76	CC802-4500	45.0	294.74
CC802-2600	26.0	138.90	CC802-4600	46.0	327.84
CC802-2700	27.0	141.95	CC802-4700	47.0	332.80
CC802-2800	28.0	145.12	CC802-4800	48.0	337.75
CC802-2900	29.0	149.46	CC802-4900	49.0	342.71
CC802-3000	30.0	151.76	CC802-5000	50.0	319.49
CC802-3100	31.0	178.74	CC802-5500	55.0	376.65
CC802-3200	32.0	162.10	CC802-6000	60.0	434.97
CC802-3300	33.0	196.27			

****OVERALL LENGTH OF 50MM DEPTH = 89MM**



ANNULAR CUTTER SETS - HSS COBALT

Code	Sizes	\$ ea.
CC801-100	M14, M15, M16, M17, M18, M19, M20, M22, M25	604.07

ANNULAR CUTTER SETS INCLUDE ONE PIECE PER LISTED SIZE & TWO PINS

CAPITAL

CUTTING TOOLS



HOLESAWS - 8% COBALT

Code	Size	\$ ea.	Code	Size	\$ ea.
HS801-0140	14.0	9.56	HS801-0640	64.0	27.34
HS801-0160	16.0	9.85	HS801-0650	65.0	28.01
HS801-0190	19.0	10.67	HS801-0670	67.0	30.01
HS801-0200	20.0	10.96	HS801-0680	68.0	30.11
HS801-0210	21.0	11.75	HS801-0700	70.0	30.27
HS801-0220	22.0	12.23	HS801-0730	73.0	30.67
HS801-0240	24.0	12.74	HS801-0760	76.0	31.16
HS801-0250	25.0	13.29	HS801-0790	79.0	32.10
HS801-0270	27.0	14.40	HS801-0830	83.0	32.10
HS801-0290	29.0	14.94	HS801-0860	86.0	33.78
HS801-0320	32.0	16.34	HS801-0890	89.0	34.00
HS801-0330	33.0	16.60	HS801-0920	92.0	36.96
HS801-0350	35.0	16.98	HS801-0950	95.0	39.15
HS801-0370	37.0	17.35	HS801-0980	98.0	41.26
HS801-0380	38.0	18.20	HS801-1020	102.0	43.09
HS801-0400	40.0	18.47	HS801-1050	105.0	46.20
HS801-0410	41.0	18.70	HS801-1080	108.0	49.35
HS801-0430	43.0	21.00	HS801-1140	114.0	53.75
HS801-0440	44.0	21.28	HS801-1210	121.0	55.95
HS801-0460	46.0	21.67	HS801-1270	127.0	59.36
HS801-0480	48.0	21.89	HS801-1400	140.0	64.77
HS801-0510	51.0	22.01	HS801-1460	146.0	67.64
HS801-0520	52.0	23.26	HS801-1520	152.0	70.19
HS801-0540	54.0	24.02	HS801-1600	160.0	76.66
HS801-0550	55.0	24.22	HS801-1650	165.0	83.95
HS801-0570	57.0	25.11	HS801-1680	168.0	86.51
HS801-0590	59.0	25.61	HS801-1780	178.0	99.06
HS801-0600	60.0	25.68	HS801-2000	200.0	117.03

ADAPTERS, PILOT DRILLS AND ARBORS SOLD SEPARATELY



HOLES AW ARBORS

Code	Size	\$ ea.
HS-ARB-02500	1/4" SHANK 1/2 x 20 UNF	19.13
HS-ARB-04375	7/16" SHANK 5/8 x 18 UNF	32.38

HOLES AW ADAPTOR

Code	Size	\$ ea.
HS-ADA-05625	9/16 x 12 UNF	9.85

HOLES AW PILOT DRILL

Code	Size	\$ ea.
HSD-02500	1/4" x 4" LONG	10.96



HOLES AW SETS - 8% COBALT

Code	Set Type	Sizes	\$ ea.
HSP-0100	PLUMBER	19, 22, 29, 38, 44, 57	209.04
HSP-0200	PLUMBER	44, 57, 64, 92, 114	243.15
HSP-0300	PLUMBER	16, 19, 22, 25, 27, 32, 35, 44, 57, 73, 92, 114	334.50
HSE-0100	ELECTRICIAL	16, 20, 25, 32, 40, 51	202.20
HSE-0200	ELECTRICIAL	22, 29, 35, 44, 51, 68	221.12
HSE-0300	ELECTRICIAL	51, 76, 86, 105,	224.10
HSE-0400	ELECTRICIAL	16, 20, 22, 25, 32, 40, 51, 60, 92	262.53
HSM-100	MAINTENANCE	20, 25, 32, 38, 54	194.66
HSM-200	MAINTENANCE	16, 20, 25, 32, 40, 51, 54, 64	240.71
HSM-300	MAINTENANCE	16, 20, 22, 25, 32, 40, 51, 54, 60	249.47
HSM-400	MAINTENANCE	16, 19, 22, 25, 29, 32, 35, 38, 44, 51	252.11
HSM-500	MAINTENANCE	19, 22, 29, 35, 38, 44, 51, 57, 64	260.61
HSM-600	MAINTENANCE	16, 19, 22, 25, 32, 38, 54, 92, 102	277.49
HSM-700	MAINTENANCE	19, 22, 25, 32, 35, 38, 44, 51, 54, 63, 76	288.43
HSM-800	MAINTENANCE	19, 22, 25, 29, 32, 35, 44, 51, 57, 64, 68, 76	317.85
HSM-900	MAINTENANCE	16, 20, 22, 25, 32, 40, 51, 54, 64, 92, 114	321.39
HSM-1000	MAINTENANCE	16, 20, 22, 25, 32, 38, 40, 51, 54, 60, 64, 70, 89, 92, 100, 114	444.87

HOLES AW SETS INCLUDE ONE HOLES AW PER SIZE, PLUS ADAPTOR, PILOT DRILL & ARBOR