

BetterEdge

HIGH PERFORMANCE CARBIDE DRILLS, END MILLS & SPECIALS

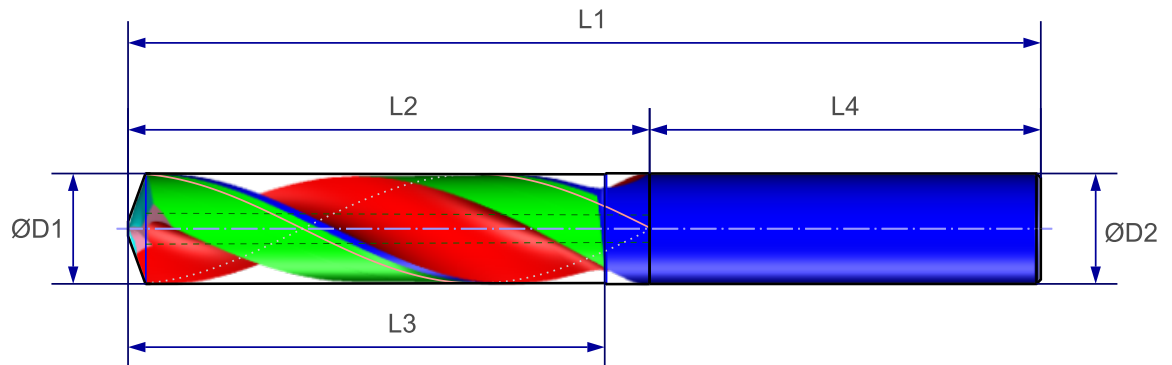
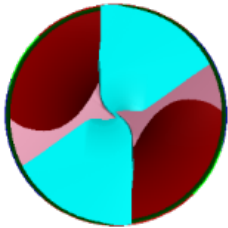
for the Metalworking Industry

401 Porter Avenue
Scottsdale, PA 15683

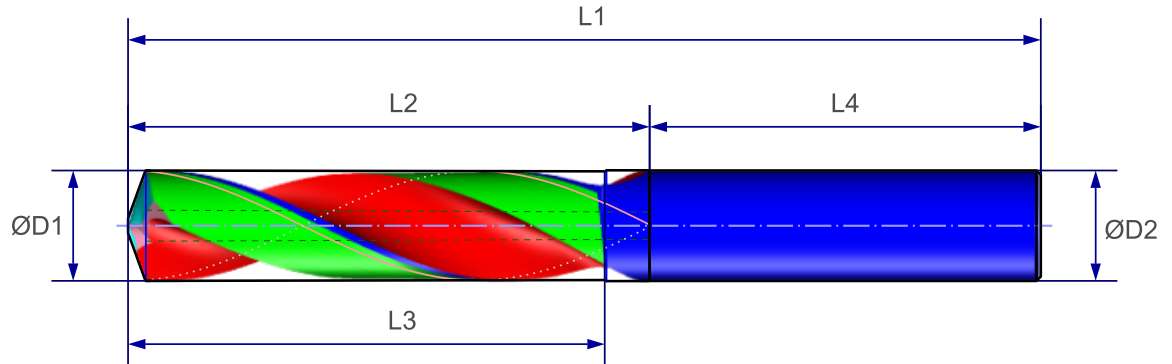
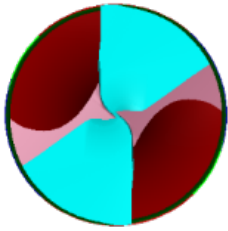
T. 866-887-5546 | 724-887-5546 | F. 724-887-7088



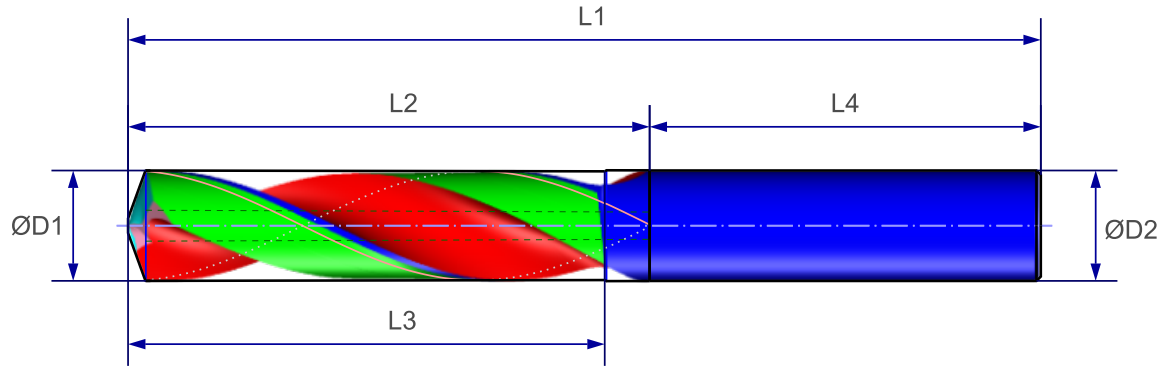
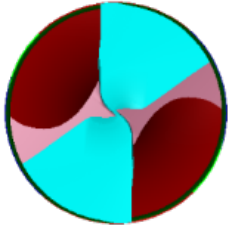
WWW.BETTER-EDGE.COM



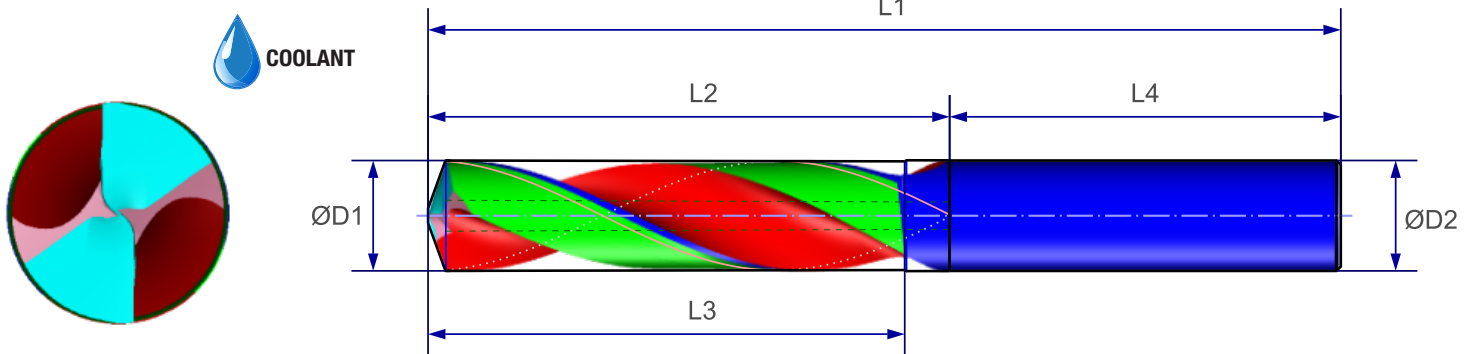
DESCRIPTION EXAMPLE...I=INCH, P= STEEL, S=Solid, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-0892-3XD	0.089	4-40	6	2.441	0.787	0.653	1.417
IPS2-1096-3XD	0.110	6-32	6	2.441	0.787	0.623	1.417
IPS2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IPS2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IPS2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IPS2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IPS2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IPS2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IPS2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IPS2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IPS2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IPS2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IPS2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IPS2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IPS2-2045-3XD	.205	1/4-20	6	2.598	1.102	0.795	1.417
IPS2-2175-3XD	.218	1/4-28	6	2.598	1.102	0.776	1.417
IPS2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IPS2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IPS2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IPS2-2620-3XD	.262	5/16-18	8	3.110	1.339	0.946	1.417
IPS2-2746-3XD	.275	5/16-24	8	3.110	1.339	0.927	1.417
IPS2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IPS2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IPS2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IPS2-2968-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IPS2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417



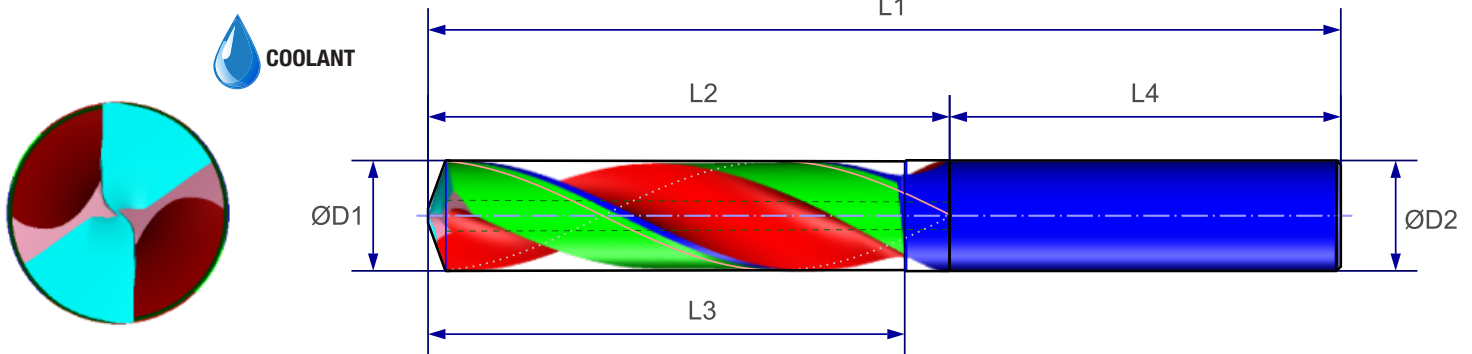
DESCRIPTION EXAMPLE...I=INCH, P= STEEL, S=Solid, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-3180-3XD	.318	3/8-16	10	3.504	1.850	1.373	1.575
IPS2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IPS2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575
IPS2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IPS2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IPS2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IPS2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IPS2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IPS2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772
IPS2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IPS2-4300-3XD	.430	1/2-13	12	4.016	2.165	1.520	1.772
IPS2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IPS2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IPS2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IPS2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IPS2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IPS2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IPS2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IPS2-5423-3XD	.542	5/8-11	14	4.213	2.362	1.549	1.772
IPS2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IPS2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IPS2-5745-3XD	.575	5/8-18	16	4.528	2.559	1.697	1.890
IPS2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IPS2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IPS2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IPS2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890



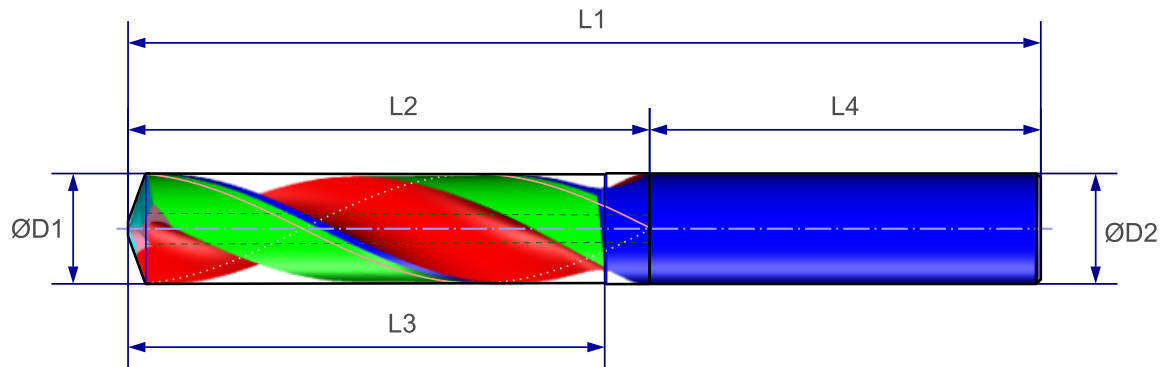
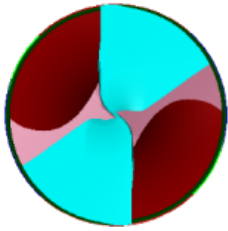
DESCRIPTION EXAMPLE...I=INCH, P= STEEL, S=Solid, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-6591-3XD	.659	3/4-10	18	4.843	2.874	1.885	1.890
IPS2-6875-3XD	.688	11/16	18	4.843	2.874	1.843	1.890
IPS2-6931-3XD	.693	3/4-16	18	4.843	2.874	1.834	1.890
IPS2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



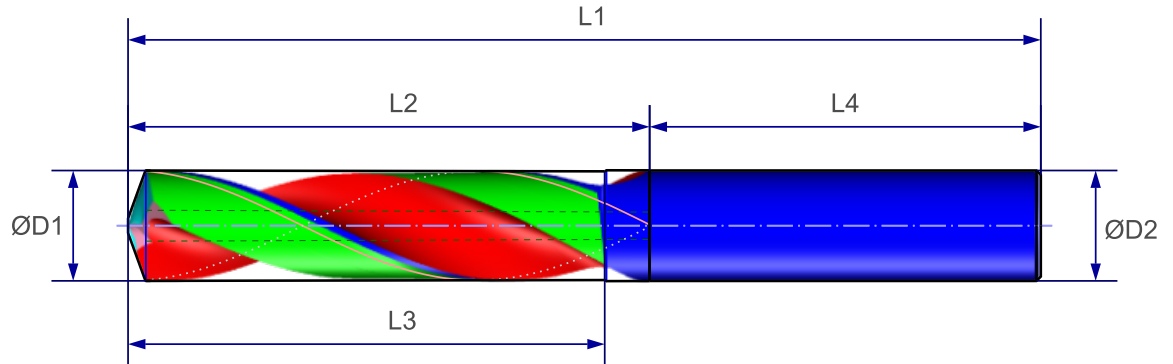
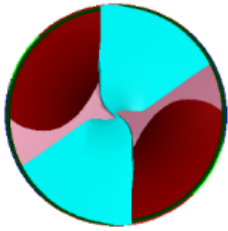
DESCRIPTION EXAMPLE...I=INCH, P= STEEL C=COOLANT 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IPC2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IPC2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IPC2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IPC2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IPC2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IPC2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IPC2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IPC2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IPC2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IPC2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IPC2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IPC2-2045-3XD	.205	1/4-20	6	2.598	1.102	0.795	1.417
IPC2-2175-3XD	.218	1/4-28	6	2.598	1.102	0.776	1.417
IPC2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IPC2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IPC2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IPC2-2620-3XD	.262	5/16-18	8	3.110	1.339	0.946	1.417
IPC2-2746-3XD	.275	5/16-24	8	3.110	1.339	0.927	1.417
IPC2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IPC2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IPC2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IPC2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IPC2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IPC2-3180-3XD	.318	3/8-16	10	3.504	1.850	1.373	1.575
IPC2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IPC2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575



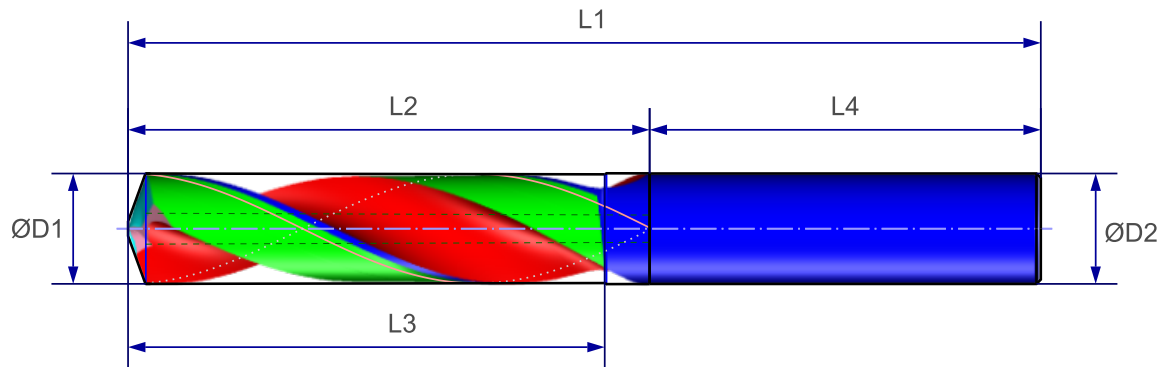
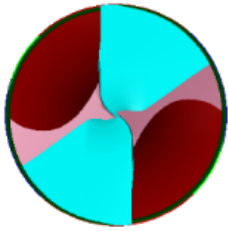
DESCRIPTION EXAMPLE...I=INCH, P= STEEL C=COOLANT 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IPC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IPC2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IPC2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IPC2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IPC2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772
IPC2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IPC2-4300-3XD	.430	1/2-13	12	4.016	2.165	1.520	1.772
IPC2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IPC2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IPC2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IPC2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IPC2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IPC2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IPC2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IPC2-5423-3XD	.542	5/8-11	14	4.213	2.362	1.549	1.772
IPC2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IPC2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IPC2-5745-3XD	.575	5/8-18	16	4.528	2.559	1.697	1.890
IPC2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IPC2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IPC2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IPC2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IPC2-6591-3XD	.659	3/4-10	18	4.843	2.874	1.885	1.890
IPC2-6875-3XD	.688	11/16	18	4.843	2.874	1.843	1.890
IPC2-6931-3XD	.693	3/4-16	18	4.843	2.874	1.834	1.890
IPC2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



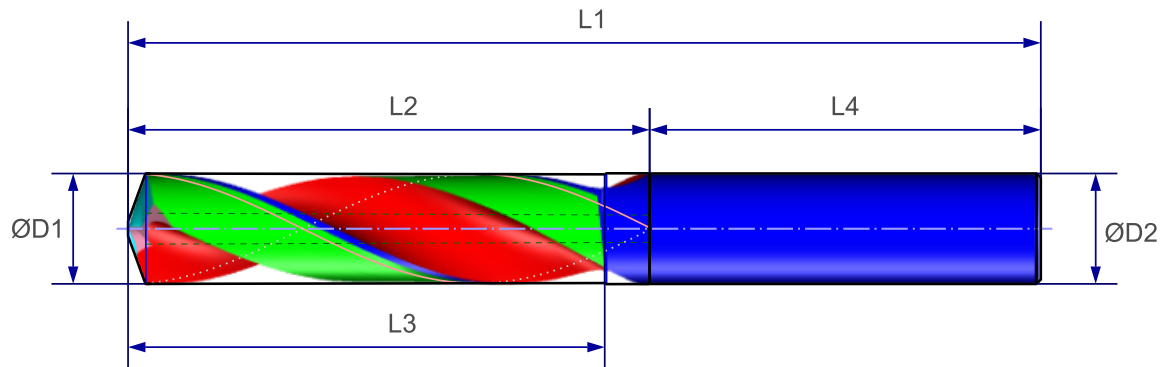
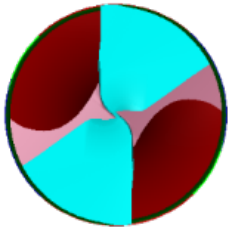
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-0255-3XD	2.55	M3	6	62	20	16	36
MPS2-0300-3XD	3.00		6	62	20	15	36
MPS2-0310-3XD	3.10		6	62	20	15	36
MPS2-0320-3XD	3.20		6	62	20	15	36
MPS2-0330-3XD	3.30		6	62	20	15	36
MPS2-0337-3XD	3.37	M4	6	62	20	14	36
MPS2-0340-3XD	3.40		6	62	20	14	36
MPS2-0350-3XD	3.50		6	62	20	14	36
MPS2-0360-3XD	3.60		6	62	20	14	36
MPS2-0370-3XD	3.70		6	62	20	14	36
MPS2-0380-3XD	3.80		6	66	24	18	36
MPS2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MPS2-0400-3XD	4.00		6	66	24	18	36
MPS2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MPS2-0420-3XD	4.20		6	66	24	17	36
MPS2-0430-3XD	4.30	MMC5	6	66	24	17	36
MPS2-0440-3XD	4.40		6	66	24	17	36
MPS2-0450-3XD	4.50		6	66	24	17	36
MPS2-0470-3XD	4.70		6	66	24	16	36
MPS2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MPS2-0490-3XD	4.90		6	66	28	20	36
MPS2-0500-3XD	5.00		6	66	28	20	36
MPS2-0510-3XD	5.10	MMC6	6	66	28	20	36
MPS2-0520-3XD	5.20		6	66	28	20	36
MPS2-0530-3XD	5.30		6	66	28	20	36



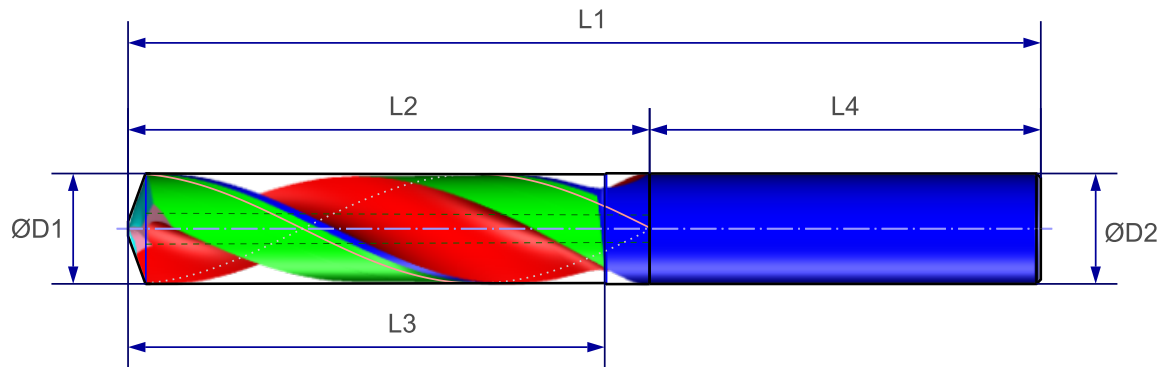
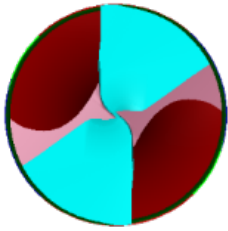
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-0540-3XD	5.40		6	66	28	19	36
MPS2-0550-3XD	5.50		6	66	28	19	36
MPS2-0560-3XD	5.60		6	66	28	19	36
MPS2-0570-3XD	5.70		6	66	28	19	36
MPS2-0580-3XD	5.80		6	66	28	19	36
MPS2-0590-3XD	5.90		6	66	28	19	36
MPS2-0600-3XD	6.00		8	79	34	25	36
MPS2-0610-3XD	6.10		8	79	34	24	36
MPS2-0620-3XD	6.20		8	79	34	24	36
MPS2-0630-3XD	6.30		8	79	34	24	36
MPS2-0640-3XD	6.40		8	79	34	24	36
MPS2-0650-3XD	6.50		8	79	34	24	36
MPS2-0660-3XD	6.60		8	79	34	24	36
MPS2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MPS2-0675-3XD	6.75		8	79	34	23	36
MPS2-0680-3XD	6.80		8	79	34	23	36
MPS2-0690-3XD	6.90		8	79	34	23	36
MPS2-0700-3XD	7.00		8	79	34	23	36
MPS2-0710-3XD	7.10	MMCF8x1	8	79	41	30	36
MPS2-0720-3XD	7.20		8	79	41	30	36
MPS2-0730-3XD	7.30		8	79	41	30	36
MPS2-0740-3XD	7.40		8	79	41	29	36
MPS2-0750-3XD	7.50		8	79	41	29	36
MPS2-0760-3XD	7.60		8	79	41	29	36
MPS2-0770-3XD	7.70		8	79	41	29	36



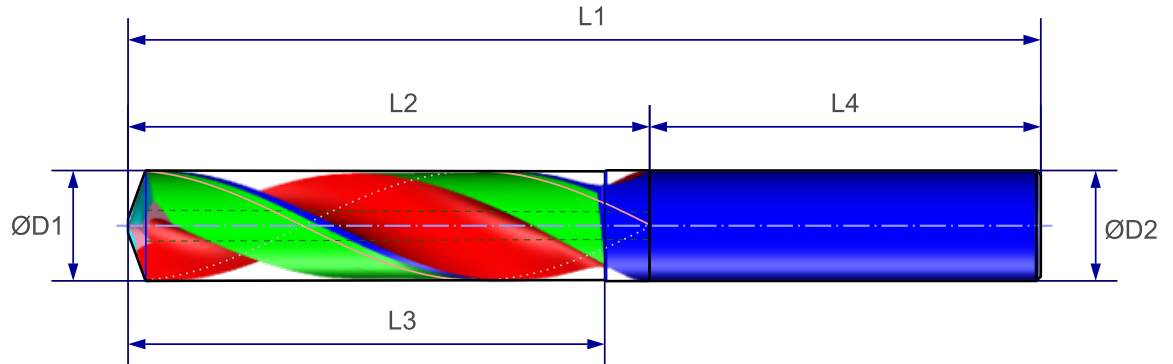
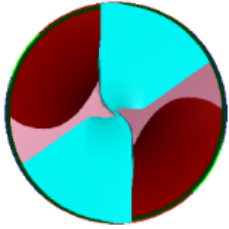
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-0780-3XD	7.80		8	79	41	29	36
MPS2-0790-3XD	7.90		8	79	41	29	36
MPS2-0800-3XD	8.00		10	89	47	35	40
MPS2-0810-3XD	8.10		10	89	47	34	40
MPS2-0820-3XD	8.20		10	89	47	34	40
MPS2-0830-3XD	8.30		10	89	47	34	40
MPS2-0840-3XD	8.40		10	89	47	34	40
MPS2-0850-3XD	8.50		10	89	47	34	40
MPS2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MPS2-0870-3XD	8.70		10	89	47	33	40
MPS2-0880-3XD	8.80		10	89	47	33	40
MPS2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MPS2-0900-3XD	9.00		10	89	47	33	40
MPS2-0910-3XD	9.10		10	89	47	33	40
MPS2-0920-3XD	9.20		10	89	47	33	40
MPS2-0930-3XD	9.30		10	89	47	33	40
MPS2-0940-3XD	9.40		10	89	47	32	40
MPS2-0950-3XD	9.50		10	89	47	32	40
MPS2-0960-3XD	9.60		10	89	47	32	40
MPS2-0970-3XD	9.70		10	89	47	32	40
MPS2-0980-3XD	9.80		10	89	47	32	40
MPS2-0990-3XD	9.90		10	89	47	32	40
MPS2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MPS2-1010-3XD	10.10		12	102	55	39	45
MPS2-1020-3XD	10.20		12	102	55	39	45



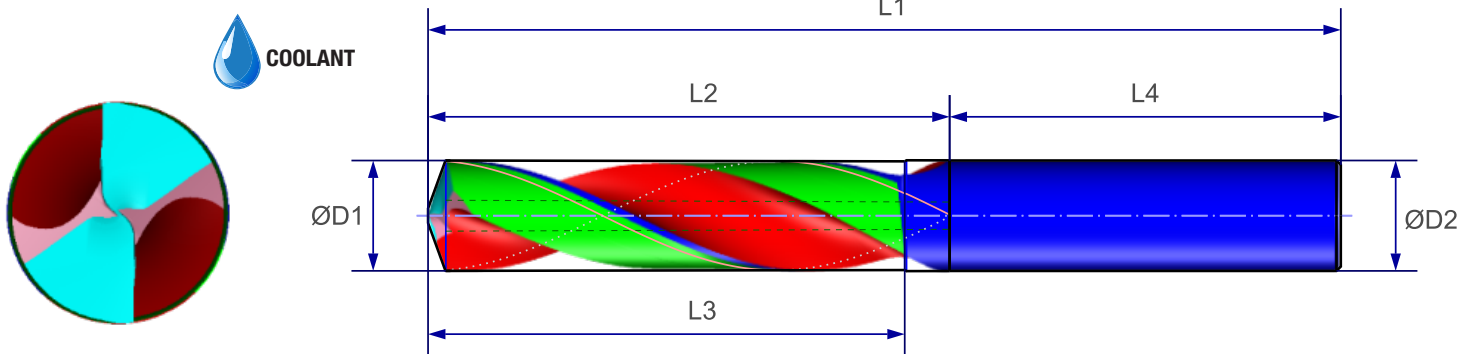
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-1030-3XD	10.30		12	102	55	39	45
MPS2-1040-3XD	10.40	M12 X 1.75	12	102	55	39	45
MPS2-1050-3XD	10.50		12	102	55	39	45
MPS2-1060-3XD	10.60		12	102	55	39	45
MPS2-1070-3XD	10.70	MMCF12x1.5	12	102	55	38	45
MPS2-1080-3XD	10.80		12	102	55	38	45
MPS2-1085-3XD	10.85	M12 X 1.25	12	102	55	38	45
MPS2-1090-3XD	10.90		12	102	55	38	45
MPS2-1100-3XD	11.00		12	102	55	38	45
MPS2-1110-3XD	11.10		12	102	55	38	45
MPS2-1120-3XD	11.20		12	102	55	38	45
MPS2-1140-3XD	11.40		12	102	55	37	45
MPS2-1150-3XD	11.50		12	102	55	37	45
MPS2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MPS2-1170-3XD	11.70		12	102	55	37	45
MPS2-1180-3XD	11.80		12	102	55	37	45
MPS2-1190-3XD	11.90		12	102	55	37	45
MPS2-1200-3XD	12.00		14	107	60	42	45
MPS2-1210-3XD	12.10		14	107	60	41	45
MPS2-1220-3XD	12.20	M14 X 2.0	14	107	60	41	45
MPS2-1230-3XD	12.30		14	107	60	41	45
MPS2-1250-3XD	12.50		14	107	60	41	45
MPS2-1260-3XD	12.60	M14 X 1.5	14	107	60	41	45
MPS2-1270-3XD	12.70		14	107	60	40	45
MPS2-1280-3XD	12.80		14	107	60	40	45



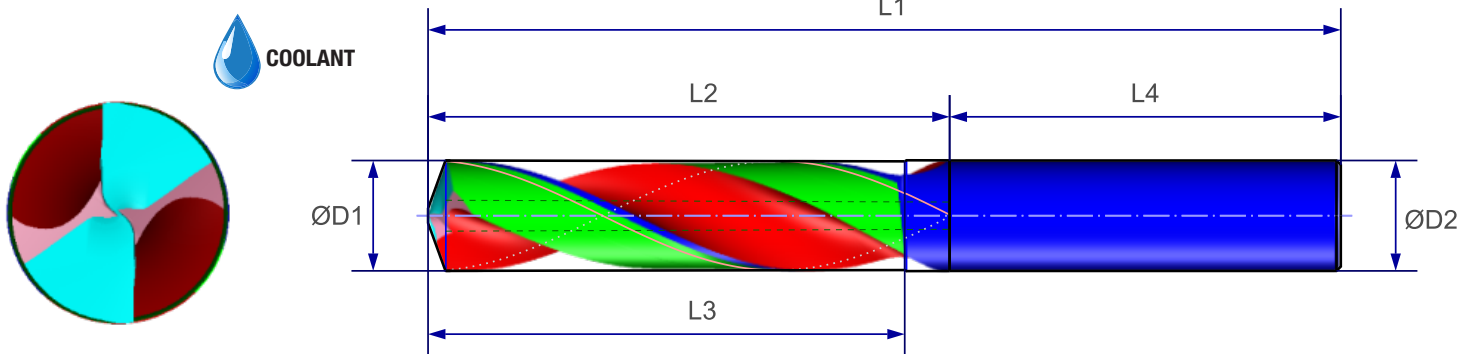
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-1290-3XD	12.90		14	107	60	40	45
MPS2-1300-3XD	13.00		14	107	60	40	45
MPS2-1310-3XD	13.10		14	107	60	40	45
MPS2-1320-3XD	13.20		14	107	60	40	45
MPS2-1330-3XD	13.30		14	107	60	40	45
MPS2-1350-3XD	13.50		14	107	60	39	45
MPS2-1380-3XD	13.80		14	107	60	39	45
MPS2-1400-3XD	14.00		16	115	65	44	48
MPS2-1410-3XD	14.10		16	115	65	43	48
MPS2-1420-3XD	14.20	M16 X 2.0	16	115	65	43	48
MPS2-1430-3XD	14.30		16	115	65	43	48
MPS2-1440-3XD	14.40		16	115	65	43	48
MPS2-1450-3XD	14.50		16	115	65	43	48
MPS2-1460-3XD	14.60	M16 X 1.5	16	115	65	43	48
MPS2-1480-3XD	14.80		16	115	65	42	48
MPS2-1500-3XD	15.00		16	115	65	42	48
MPS2-1510-3XD	15.10		16	115	65	42	48
MPS2-1520-3XD	15.20		16	115	65	42	48
MPS2-1530-3XD	15.30		16	115	65	42	48
MPS2-1540-3XD	15.40		16	115	65	41	48
MPS2-1550-3XD	15.50		16	115	65	41	48
MPS2-1560-3XD	15.60		16	115	65	41	48
MPS2-1570-3XD	15.70		16	115	65	41	48
MPS2-1575-3XD	15.75		16	115	65	41	48
MPS2-1580-3XD	15.80		16	115	65	41	48



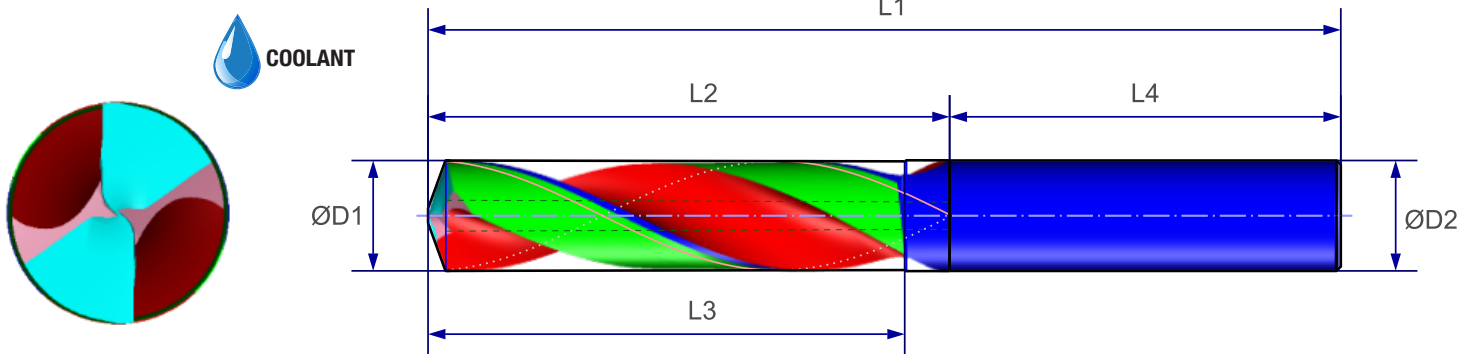
DESCRIPTION EXAMPLE M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-1590-3XD	15.90		16	115	65	41	48
MPS2-1600-3XD	16.00		18	123	73	49	48
MPS2-1610-3XD	16.10		18	123	73	48	48
MPS2-1650-3XD	16.50		18	123	73	48	48
MPS2-1660-3XD	16.60		18	123	73	48	48
MPS2-1700-3XD	17.00		18	123	73	47	48
MPS2-1750-3XD	17.50		18	123	73	46	48
MPS2-1775-3XD	17.75	M20 X 2.5	18	123	73	46	48
MPS2-1800-3XD	18.00		20	131	73	46	50
MPS2-1840-3XD	18.40		20	131	79	51	50
MPS2-1850-3XD	18.50		20	131	79	51	50
MPS2-1860-3XD	18.60	M20 X 1.5	20	131	79	51	50
MPS2-1900-3XD	19.00		20	131	79	50	50
MPS2-1910-3XD	19.10		20	131	79	50	50
MPS2-1920-3XD	19.20		20	131	79	50	50
MPS2-1930-3XD	19.30		20	131	79	50	50
MPS2-1950-3XD	19.50		20	131	79	49	50
MPS2-2000-3XD	20.00		20	131	79	49	50



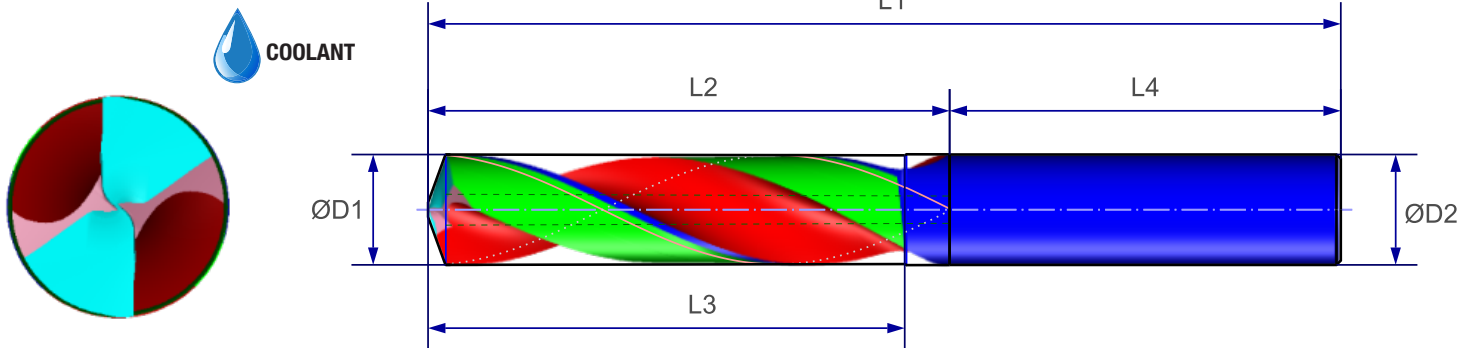
DESCRIPTION EXAMPLE . . M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0300-3XD	3.00		6	62	20	15	36
MPC2-0310-3XD	3.10		6	62	20	15	36
MPC2-0320-3XD	3.20		6	62	20	15	36
MPC2-0330-3XD	3.30		6	62	20	15	36
MPC2-0337-3XD	3.37	M4	6	62	20	14	36
MPC2-0340-3XD	3.40		6	62	20	14	36
MPC2-0350-3XD	3.50		6	62	20	14	36
MPC2-0360-3XD	3.60		6	62	20	14	36
MPC2-0370-3XD	3.70		6	62	20	14	36
MPC2-0380-3XD	3.80		6	66	24	18	36
MPC2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MPC2-0400-3XD	4.00		6	66	24	18	36
MPC2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MPC2-0420-3XD	4.20		6	66	24	17	36
MPC2-0430-3XD	4.30	MMC5	6	66	24	17	36
MPC2-0440-3XD	4.40		6	66	24	17	36
MPC2-0450-3XD	4.50		6	66	24	17	36
MPC2-0470-3XD	4.70		6	66	24	16	36
MPC2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MPC2-0490-3XD	4.90		6	66	28	20	36
MPC2-0500-3XD	5.00		6	66	28	20	36
MPC2-0510-3XD	5.10	MMC6	6	66	28	20	36
MPC2-0520-3XD	5.20		6	66	28	20	36
MPC2-0530-3XD	5.30		6	66	28	20	36



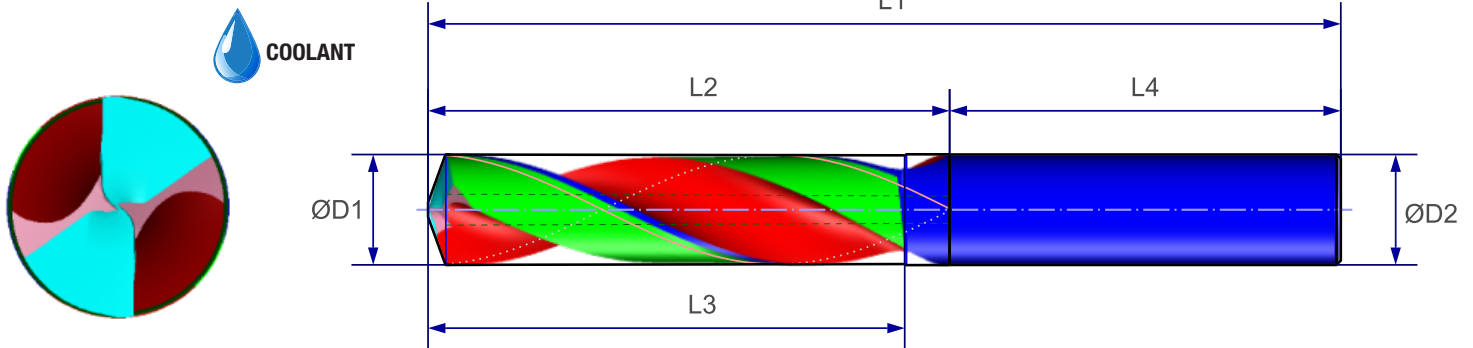
DESCRIPTION EXAMPLE .. M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0540-3XD	5.40		6	66	28	19	36
MPC2-0550-3XD	5.50		6	66	28	19	36
MPC2-0560-3XD	5.60		6	66	28	19	36
MPC2-0570-3XD	5.70		6	66	28	19	36
MPC2-0580-3XD	5.80		6	66	28	19	36
MPC2-0590-3XD	5.90		6	66	28	19	36
MPC2-0600-3XD	6.00		8	79	34	25	36
MPC2-0610-3XD	6.10		8	79	34	24	36
MPC2-0620-3XD	6.20		8	79	34	24	36
MPC2-0630-3XD	6.30		8	79	34	24	36
MPC2-0640-3XD	6.40		8	79	34	24	36
MPC2-0650-3XD	6.50		8	79	34	24	36
MPC2-0660-3XD	6.60		8	79	34	24	36
MPC2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MPC2-0675-3XD	6.75		8	79	34	23	36
MPC2-0680-3XD	6.80		8	79	34	23	36
MPC2-0690-3XD	6.90		8	79	34	23	36
MPC2-0700-3XD	7.00		8	79	34	23	36
MPC2-0710-3XD	7.10	MMCF8x1	8	79	41	30	36
MPC2-0720-3XD	7.20		8	79	41	30	36
MPC2-0730-3XD	7.30		8	79	41	30	36
MPC2-0740-3XD	7.40		8	79	41	29	36
MPC2-0750-3XD	7.50		8	79	41	29	36
MPC2-0770-3XD	7.70		8	79	41	29	36



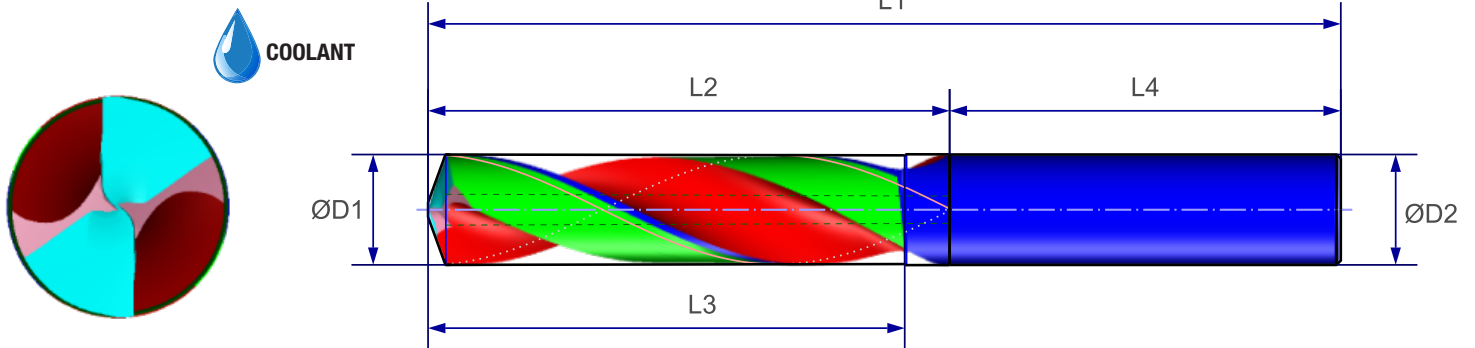
DESCRIPTION EXAMPLE .. M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0780-3XD	7.80		8	79	41	29	36
MPC2-0790-3XD	7.90		8	79	41	29	36
MPC2-0800-3XD	8.00		10	89	47	35	40
MPC2-0810-3XD	8.10		10	89	47	34	40
MPC2-0820-3XD	8.20		10	89	47	34	40
MPC2-0830-3XD	8.30		10	89	47	34	40
MPC2-0840-3XD	8.40		10	89	47	34	40
MPC2-0850-3XD	8.50		10	89	47	34	40
MPC2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MPC2-0870-3XD	8.70		10	89	47	33	40
MPC2-0880-3XD	8.80		10	89	47	33	40
MPC2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MPC2-0900-3XD	9.00		10	89	47	33	40
MPC2-0910-3XD	9.10		10	89	47	33	40
MPC2-0920-3XD	9.20		10	89	47	33	40
MPC2-0930-3XD	9.30		10	89	47	33	40
MPC2-0940-3XD	9.40		10	89	47	32	40
MPC2-0950-3XD	9.50		10	89	47	32	40
MPC2-0960-3XD	9.60		10	89	47	32	40
MPC2-0970-3XD	9.70		10	89	47	32	40
MPC2-0980-3XD	9.80		10	89	47	32	40
MPC2-0990-3XD	9.90		10	89	47	32	40
MPC2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MPC2-1010-3XD	10.10		12	102	55	39	45



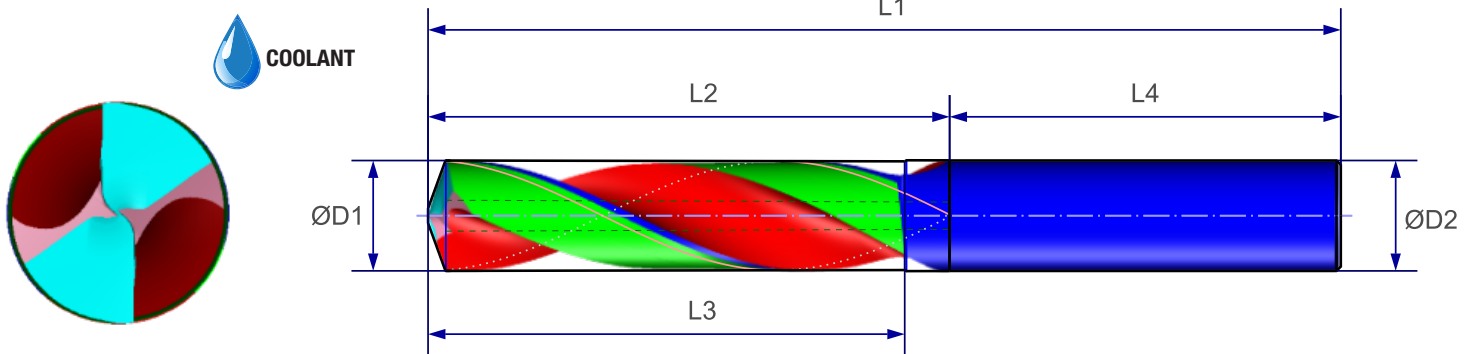
DESCRIPTION EXAMPLE .. M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1020-3XD	10.20		12	102	55	39	45
MPC2-1030-3XD	10.30		12	102	55	39	45
MPC2-1040-3XD	10.40	M12 X 1.75	12	102	55	39	45
MPC2-1050-3XD	10.50		12	102	55	39	45
MPC2-1060-3XD	10.60		12	102	55	39	45
MPC2-1070-3XD	10.70	MMCF12x1.5	12	102	55	38	45
MPC2-1080-3XD	10.80		12	102	55	38	45
MPC2-1085-3XD	10.85	M12 X 1.25	12	102	55	38	45
MPC2-1090-3XD	10.90		12	102	55	38	45
MPC2-1100-3XD	11.00		12	102	55	38	45
MPC2-1110-3XD	11.10		12	102	55	38	45
MPC2-1120-3XD	11.20		12	102	55	38	45
MPC2-1140-3XD	11.40		12	102	55	37	45
MPC2-1150-3XD	11.50		12	102	55	37	45
MPC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MPC2-1170-3XD	11.70		12	102	55	37	45
MPC2-1180-3XD	11.80		12	102	55	37	45
MPC2-1190-3XD	11.90		12	102	55	37	45
MPC2-1200-3XD	12.00		14	107	60	42	45
MPC2-1210-3XD	12.10		14	107	60	41	45
MPC2-1220-3XD	12.20	M14 X 2.0	14	107	60	41	45
MPC2-1230-3XD	12.30		14	107	60	41	45
MPC2-1250-3XD	12.50		14	107	60	41	45
MPC2-1260-3XD	12.60	M14 X 1.5	14	107	60	41	45



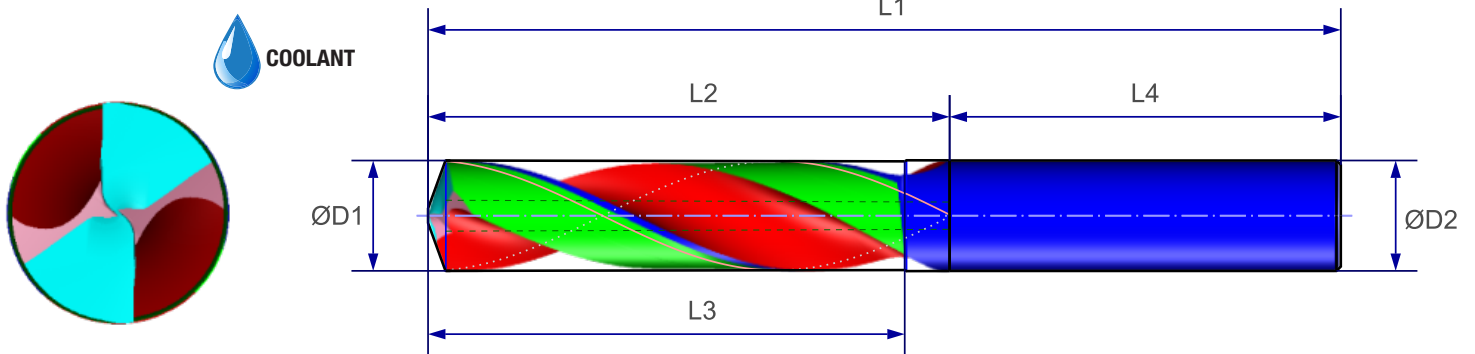
DESCRIPTION EXAMPLE .. M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1270-3XD	12.70		14	107	60	40	45
MPC2-1280-3XD	12.80		14	107	60	40	45
MPC2-1290-3XD	12.90		14	107	60	40	45
MPC2-1300-3XD	13.00		14	107	60	40	45
MPC2-1310-3XD	13.10		14	107	60	40	45
MPC2-1320-3XD	13.20		14	107	60	40	45
MPC2-1330-3XD	13.30		14	107	60	40	45
MPC2-1350-3XD	13.50		14	107	60	39	45
MPC2-1380-3XD	13.80		14	107	60	39	45
MPC2-1400-3XD	14.00		16	115	65	44	48
MPC2-1410-3XD	14.10		16	115	65	43	48
MPC2-1420-3XD	14.20	M16 X 2.0	16	115	65	43	48
MPC2-1430-3XD	14.30		16	115	65	43	48
MPC2-1440-3XD	14.40		16	115	65	43	48
MPC2-1450-3XD	14.50		16	115	65	43	48
MPC2-1460-3XD	14.60	M16 X 1.5	16	115	65	43	48
MPC2-1480-3XD	14.80		16	115	65	42	48
MPC2-1500-3XD	15.00		16	115	65	42	48
MPC2-1510-3XD	15.10		16	115	65	42	48
MPC2-1520-3XD	15.20		16	115	65	42	48
MPC2-1530-3XD	15.30		16	115	65	42	48
MPC2-1540-3XD	15.40		16	115	65	41	48
MPC2-1550-3XD	15.50		16	115	65	41	48
MPC2-1560-3XD	15.60		16	115	65	41	48



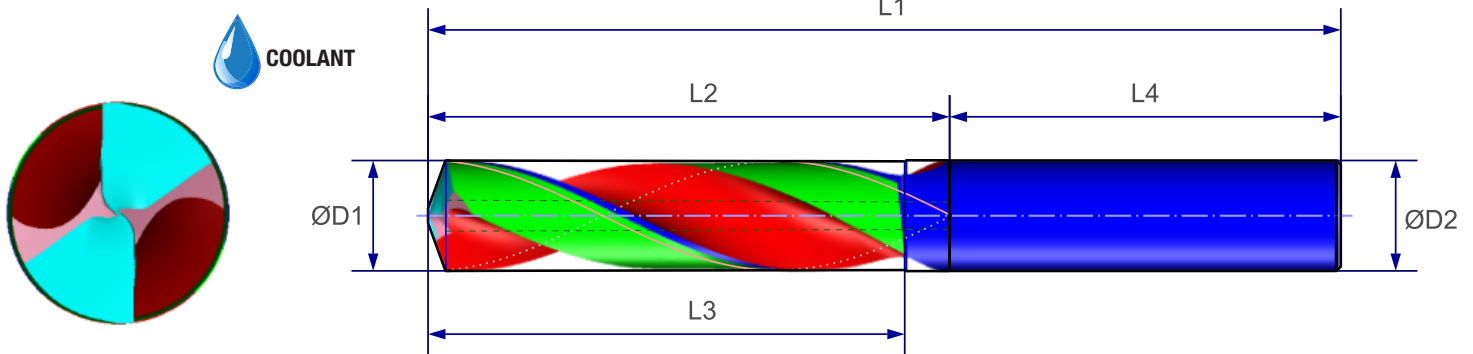
DESCRIPTION EXAMPLE .. M=METRIC,P= STEEL, C=COOLANT, 2=FLUTES, 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1570-3XD	15.70		16	115	65	41	48
MPC2-1575-3XD	15.75		16	115	65	41	48
MPC2-1580-3XD	15.80		16	115	65	41	48
MPC2-1590-3XD	15.90		16	115	65	41	48
MPC2-1600-3XD	16.00		18	123	73	49	48
MPC2-1610-3XD	16.10		18	123	73	48	48
MPC2-1650-3XD	16.50		18	123	73	48	48
MPC2-1660-3XD	16.60		18	123	73	48	48
MPC2-1700-3XD	17.00		18	123	73	47	48
MPC2-1750-3XD	17.50		18	123	73	46	48
MPC2-1775-3XD	17.75	M20 X 2.5	18	123	73	46	48
MPC2-1800-3XD	18.00		20	131	79	52	50
MPC2-1840-3XD	18.40		20	131	79	51	50
MPC2-1850-3XD	18.50		20	131	79	51	50
MPC2-1860-3XD	18.60	M20 X 1.5	20	131	79	51	50
MPC2-1900-3XD	19.00		20	131	79	50	50
MPC2-1910-3XD	19.10		20	131	79	50	50
MPC2-1920-3XD	19.20		20	131	79	50	50
MPC2-1930-3XD	19.30		20	131	79	50	50
MPC2-1950-3XD	19.50		20	131	79	49	50
MPC2-2000-3XD	20.00		20	131	79	49	50



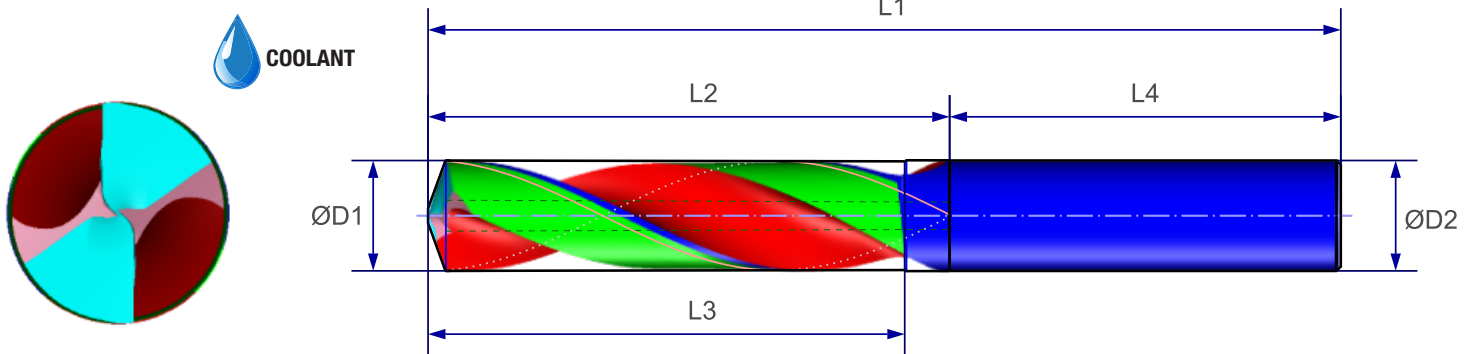
DESCRIPTION EXAMPLE... I=INCH, P= STEEL C=Coolant, 2=FLUTES 125=DIA, 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-1250-5XD	.125	1/8	6	2.598	1.102	0.915	1.417
IPC2-1406-5XD	.141	9/64	6	2.598	1.102	0.891	1.417
IPC2-1540-5XD	.154	10-24 UNC	6	2.913	1.417	1.186	1.417
IPC2-1562-5XD	.156	5/32	6	2.913	1.417	1.183	1.417
IPC2-1610-5XD	.161	10-32 UNF	6	2.913	1.417	1.176	1.417
IPC2-1690-5XD	.169	M5	6	2.913	1.417	1.164	1.417
IPC2-1719-5XD	.172	11/64	6	2.913	1.417	1.159	1.417
IPC2-1875-5XD	.188	3/16	6	3.228	1.732	1.451	1.417
IPC2-1890-5XD	.189	12-32 UNF	6	3.228	1.732	1.449	1.417
IPC2-2010-5XD	.201	M6	6	3.228	1.732	1.431	1.417
IPC2-2031-5XD	.203	13/64	6	3.228	1.732	1.427	1.417
IPC2-2188-5XD	.219	7/32	6	3.228	1.732	1.404	1.417
IPC2-2344-5XD	.234	15/64	6	3.228	1.732	1.380	1.417
IPC2-2500-5XD	.250	1/4	8	3.583	2.087	1.712	1.417
IPC2-2620-5XD	.262	5/18-18UNF	8	3.583	2.087	1.694	1.417
IPC2-2656-5XD	.266	17/64	8	3.583	2.087	1.689	1.417
IPC2-2800-5XD	.280	MF8x1	8	3.583	2.087	1.667	1.417
IPC2-2813-5XD	.281	9/32	8	3.583	2.087	1.665	1.417
IPC2-2968-5XD	.297	19/64	8	3.583	2.087	1.642	1.417
IPC2-3125-5XD	.313	5/16	8	3.583	2.087	1.618	1.417
IPC2-3281-5XD	.328	21/64	10	4.055	2.402	1.910	1.575
IPC2-3438-5XD	.344	11/32	10	4.055	2.402	1.886	1.575
IPC2-3594-5XD	.359	23/64	10	4.055	2.402	1.863	1.575
IPC2-3750-5XD	.375	3/8	10	4.055	2.402	1.840	1.575
IPC2-3906-5XD	.391	25/64	10	4.055	2.402	1.816	1.575



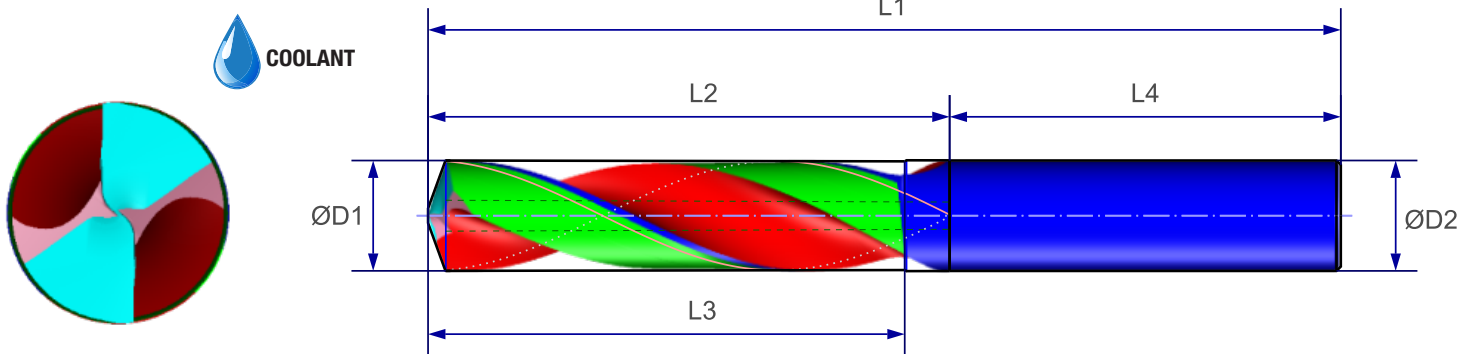
DESCRIPTION EXAMPLE... I=INCH, P= STEEL C=Coolant, 2=FLUTES 125=DIA, 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.204	1.772
IPC2-4063-5XD	.406	13/32	12	4.646	2.795	2.186	1.772
IPC2-4210-5XD	.421	MF12x1.5	12	4.646	2.795	2.164	1.772
IPC2-4375-5XD	.438	7/16	12	4.646	2.795	2.139	1.772
IPC2-4531-5XD	.453	29/64	12	4.646	2.795	2.115	1.772
IPC2-4570-5XD	.457	1/2-20 UNF	12	4.646	2.795	2.110	1.772
IPC2-4690-5XD	.469	15/32	12	4.646	2.795	2.092	1.772
IPC2-4844-5XD	.484	31/64	14	4.882	3.031	2.304	1.772
IPC2-5000-5XD	.500	1/2	14	4.882	3.031	2.281	1.772
IPC2-5469-5XD	.547	35/64	14	4.882	3.031	2.211	1.772
IPC2-5625-5XD	.563	9/16	16	5.236	3.268	2.424	1.890
IPC2-5781-5XD	.578	37/64	16	5.236	3.268	2.401	1.890
IPC2-5938-5XD	.594	19/32	16	5.236	3.268	2.377	1.890
IPC2-6094-5XD	.609	39/64	16	5.236	3.268	2.354	1.890
IPC2-6250-5XD	.625	5/8	16	5.236	3.268	2.331	1.890
IPC2-6875-5XD	.688	11/16	18	5.630	3.661	2.630	1.890
IPC2-7500-5XD	.750	3/4	20	6.024	3.976	2.851	1.969



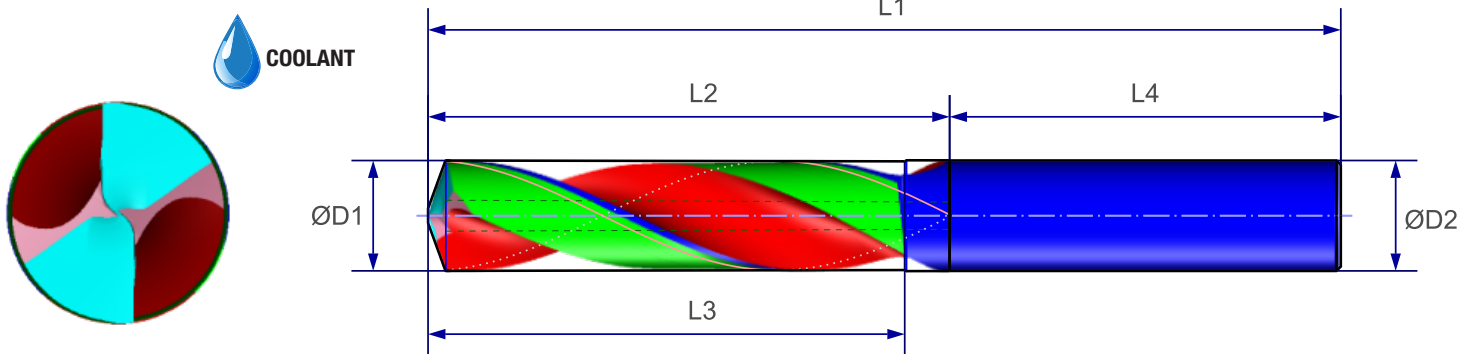
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0300-5XD	3.00		6	66	28	23	36
MPC2-0310-5XD	3.10		6	66	28	23	36
MPC2-0320-5XD	3.20		6	66	28	23	36
MPC2-0330-5XD	3.30		6	66	28	23	36
MPC2-0340-5XD	3.40	M4	6	66	28	22	36
MPC2-0350-5XD	3.50		6	66	28	22	36
MPC2-0360-5XD	3.60		6	66	28	22	36
MPC2-0370-5XD	3.70		6	66	28	22	36
MPC2-0380-5XD	3.80		6	74	36	30	36
MPC2-0390-5XD	3.90	10-24 UNC	6	74	36	30	36
MPC2-0400-5XD	4.00		6	74	36	30	36
MPC2-0410-5XD	4.10	10-32 UNC	6	74	36	29	36
MPC2-0420-5XD	4.20		6	74	36	29	36
MPC2-0430-5XD	4.30	M5	6	74	36	29	36
MPC2-0440-5XD	4.40		6	74	36	29	36
MPC2-0450-5XD	4.50		6	74	36	29	36
MPC2-0470-5XD	4.70		6	74	36	28	36
MPC2-0480-5XD	4.80	12-32 UNC	6	82	44	36	36
MPC2-0490-5XD	4.90		6	82	44	36	36
MPC2-0500-5XD	5.00		6	82	44	36	36
MPC2-0510-5XD	5.10	M6	6	82	44	36	36
MPC2-0520-5XD	5.20		6	82	44	36	36
MPC2-0530-5XD	5.30	1/4-20 UNC	6	82	44	36	36
MPC2-0540-5XD	5.40		6	82	44	35	36



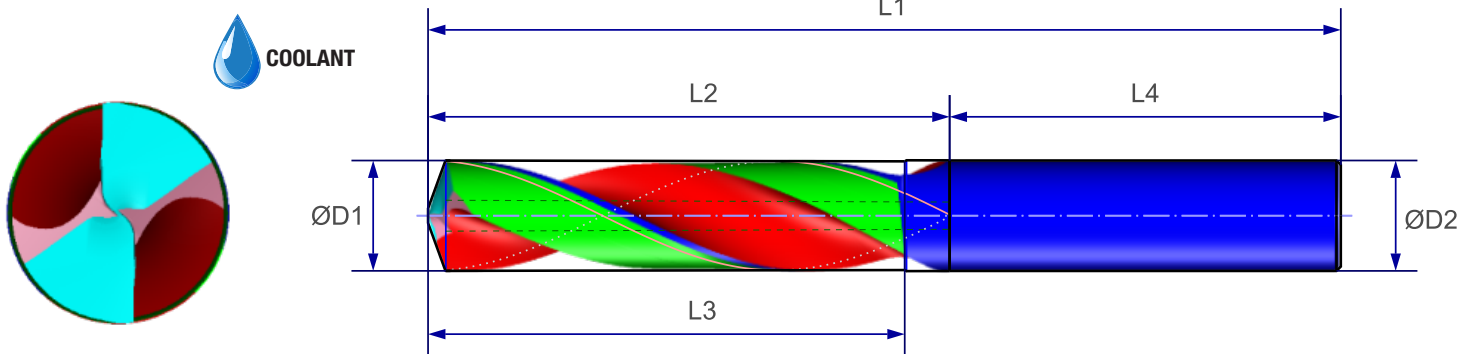
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0550-5XD	5.50		6	82	44	35	36
MPC2-0560-5XD	5.60		6	82	44	35	36
MPC2-0570-5XD	5.70		6	82	44	35	36
MPC2-0580-5XD	5.80		6	82	44	35	36
MPC2-0590-5XD	5.90		6	82	44	35	36
MPC2-0600-5XD	6.00		8	91	53	44	36
MPC2-0610-5XD	6.10		8	91	53	43	36
MPC2-0620-5XD	6.20		8	91	53	43	36
MPC2-0630-5XD	6.30		8	91	53	43	36
MPC2-0640-5XD	6.40		8	91	53	43	36
MPC2-0650-5XD	6.50		8	91	53	43	36
MPC2-0660-5XD	6.60		8	91	53	43	36
MPC2-0670-5XD	6.70	5/18-18UNF	8	91	53	42	36
MPC2-0675-5XD	6.75		8	91	53	42	36
MPC2-0680-5XD	6.80		8	91	53	42	36
MPC2-0690-5XD	6.90	M8	8	91	53	42	36
MPC2-0700-5XD	7.00		8	91	53	42	36
MPC2-0710-5XD	7.10	MF8x1	8	91	53	42	36
MPC2-0720-5XD	7.20		8	91	53	42	36
MPC2-0730-5XD	7.30		8	91	53	42	36
MPC2-0740-5XD	7.40		8	91	53	41	36
MPC2-0750-5XD	7.50		8	91	53	41	36
MPC2-0760-5XD	7.60		8	91	53	41	36
MPC2-0770-5XD	7.70		8	91	53	41	36



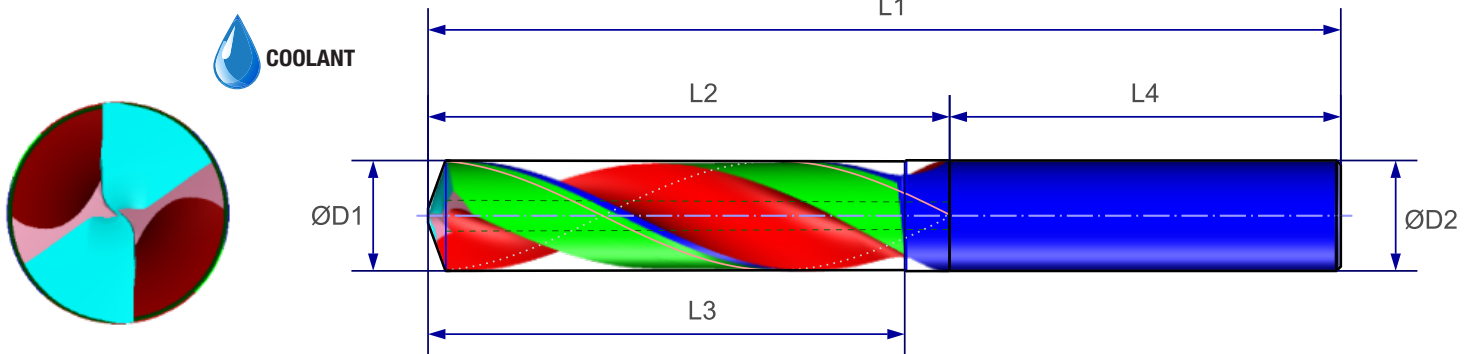
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0780-5XD	7.80		8	91	53	41	36
MPC2-0790-5XD	7.90		8	91	53	41	36
MPC2-0800-5XD	8.00		10	103	61	49	40
MPC2-0810-5XD	8.10		10	103	61	48	40
MPC2-0820-5XD	8.20	3/8-16 UNC	10	103	61	48	40
MPC2-0830-5XD	8.30		10	103	61	48	40
MPC2-0840-5XD	8.40		10	103	61	48	40
MPC2-0850-5XD	8.50		10	103	61	48	40
MPC2-0860-5XD	8.60	3/8-24 UNF	10	103	61	48	40
MPC2-0870-5XD	8.70	M10	10	103	61	47	40
MPC2-0880-5XD	8.80		10	103	61	47	40
MPC2-0890-5XD	8.90	MF10x1.25	10	103	61	47	40
MPC2-0900-5XD	9.00		10	103	61	47	40
MPC2-0910-5XD	9.10		10	103	61	47	40
MPC2-0920-5XD	9.20		10	103	61	47	40
MPC2-0930-5XD	9.30		10	103	61	47	40
MPC2-0940-5XD	9.40		10	103	61	46	40
MPC2-0950-5XD	9.50		10	103	61	46	40
MPC2-0960-5XD	9.60		10	103	61	46	40
MPC2-0970-5XD	9.70		10	103	61	46	40
MPC2-0980-5XD	9.70		10	103	61	46	40
MPC2-0990-5XD	9.90		10	103	61	46	40
MPC2-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MPC2-1010-5XD	10.10		12	118	71	55	45



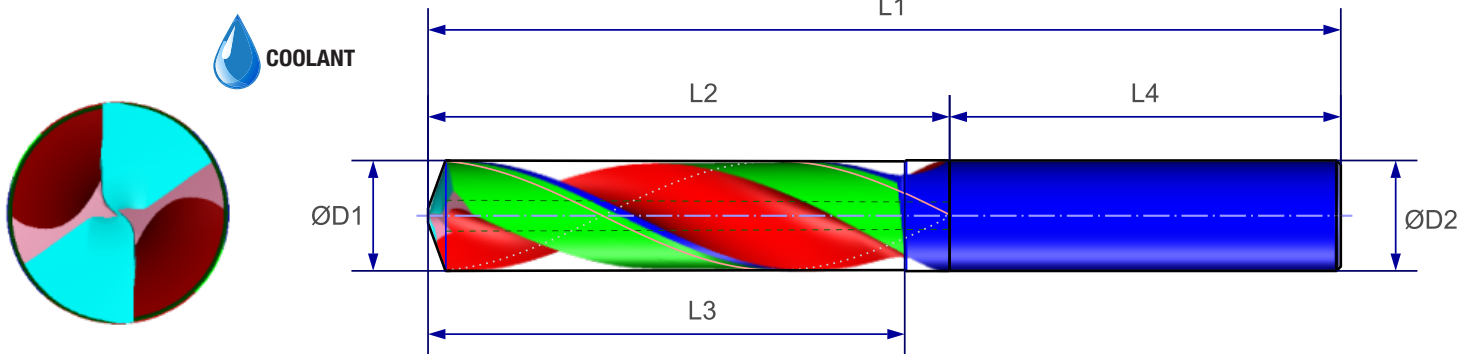
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1020-5XD	10.20		12	118	71	55	45
MPC2-1030-5XD	10.30		12	118	71	55	45
MPC2-1040-5XD	10.40	M12	12	118	71	55	45
MPC2-1050-5XD	10.50		12	118	71	55	45
MPC2-1060-5XD	10.60		12	118	71	55	45
MPC2-1070-5XD	10.70	MF12x1.5	12	118	71	54	45
MPC2-1080-5XD	10.80		12	118	71	54	45
MPC2-1090-5XD	10.90		12	118	71	54	45
MPC2-1100-5XD	11.00	1/2-13 UNC	12	118	71	54	45
MPC2-1110-5XD	11.10		12	118	71	54	45
MPC2-1120-5XD	11.20		12	118	71	54	45
MPC2-1140-5XD	11.40		12	118	71	53	45
MPC2-1150-5XD	11.50		12	118	71	53	45
MPC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45
MPC2-1170-5XD	11.70		12	118	71	53	45
MPC2-1180-5XD	11.80		12	118	71	53	45
MPC2-1190-5XD	11.90		12	118	71	53	45
MPC2-1200-5XD	12.00		14	124	77	59	45
MPC2-1210-5XD	12.10		14	124	77	58	45
MPC2-1220-5XD	12.20		14	124	77	58	45
MPC2-1230-5XD	12.30		14	124	77	58	45
MPC2-1250-5XD	12.50		14	124	77	58	45
MPC2-1260-5XD	12.60		14	124	77	58	45
MPC2-1270-5XD	12.70		14	124	77	57	45



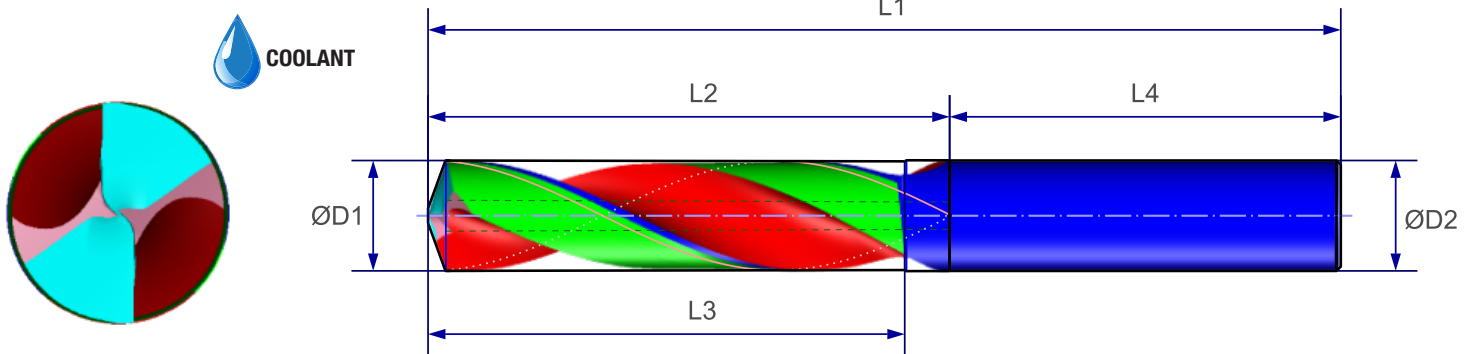
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1280-5XD	12.80		14	124	77	57	45
MPC2-1290-5XD	12.90		14	124	77	57	45
MPC2-1300-5XD	13.00		14	124	77	57	45
MPC2-1310-5XD	13.10		14	124	77	57	45
MPC2-1320-5XD	13.20		14	124	77	57	45
MPC2-1330-5XD	13.30		14	124	77	57	45
MPC2-1350-5XD	13.50		14	124	77	56	45
MPC2-1380-5XD	13.80		14	124	77	56	45
MPC2-1400-5XD	14.00		16	133	83	62	48
MPC2-1410-5XD	14.10		16	133	83	61	48
MPC2-1420-5XD	14.20		16	133	83	61	48
MPC2-1430-5XD	14.30		16	133	83	61	48
MPC2-1440-5XD	14.40		16	133	83	61	48
MPC2-1450-5XD	14.50		16	133	83	61	48
MPC2-1460-5XD	14.60		16	133	83	61	48
MPC2-1480-5XD	14.80		16	133	83	60	48
MPC2-1500-5XD	15.00		16	133	83	60	48
MPC2-1510-5XD	15.10		16	133	83	60	48
MPC2-1520-5XD	15.20		16	133	83	60	48
MPC2-1530-5XD	15.30		16	133	83	60	48
MPC2-1540-5XD	15.40		16	133	83	59	48
MPC2-1550-5XD	15.50		16	133	83	59	48
MPC2-1560-5XD	15.60		16	133	83	59	48
MPC2-1570-5XD	15.70		16	133	83	59	48



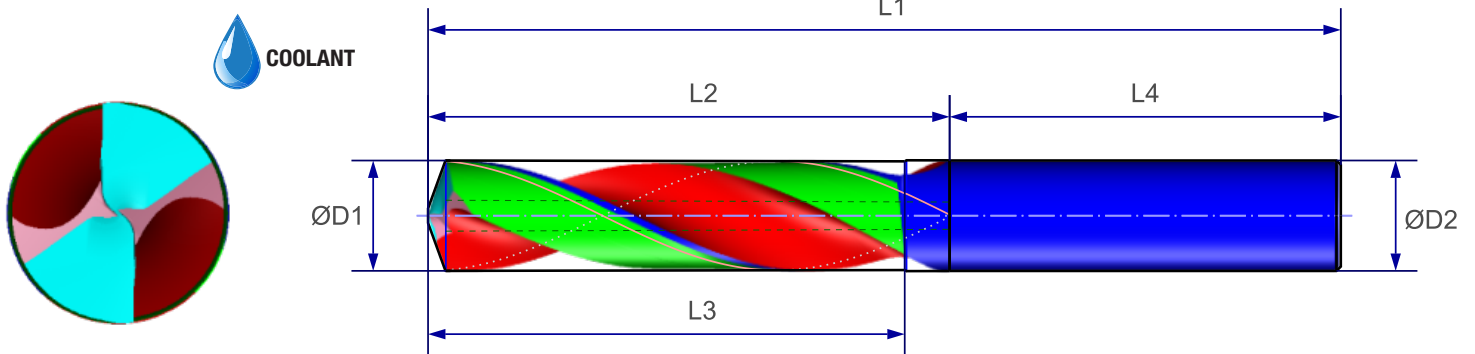
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1580-5XD	15.80		16	133	83	59	48
MPC2-1590-5XD	15.90		16	133	83	59	48
MPC2-1600-5XD	16.00		18	143	93	69	48
MPC2-1610-5XD	16.10		18	143	93	68	48
MPC2-1650-5XD	16.50		18	143	93	68	48
MPC2-1700-5XD	17.00		18	143	93	67	48
MPC2-1750-5XD	17.50		18	143	93	66	48
MPC2-1770-5XD	17.70		18	143	93	66	48
MPC2-1800-5XD	18.00		20	153	101	74	50
MPC2-1840-5XD	18.40		20	153	101	73	50
MPC2-1850-5XD	18.50		20	153	101	73	50
MPC2-1900-5XD	19.00		20	153	101	72	50
MPC2-1910-5XD	19.10		20	153	101	72	50
MPC2-1920-5XD	19.20		20	153	101	72	50
MPC2-1930-5XD	19.30		20	153	101	72	50
MPC2-1950-5XD	19.50		20	153	101	71	50
MPC2-2000-5XD	20.00		20	153	101	71	50



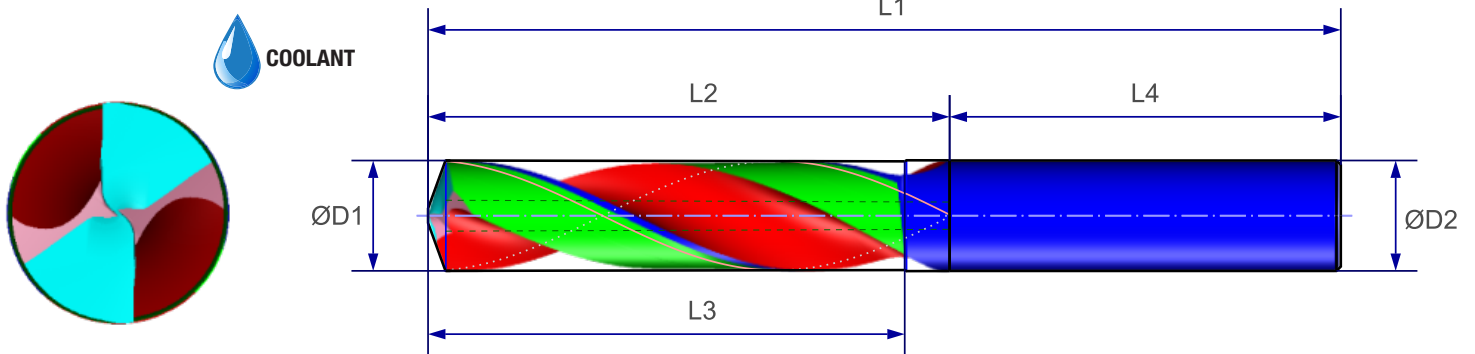
DESCRIPTION EXAMPLE...I=INCH P= STEEL, C= Coolant 2=FLUTES,125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-1250-7XD	.125	1/8	6	2.756	1.181	0.994	1.417
IPC2-1406-7XD	.141	9/64	6	2.953	1.476	1.265	1.417
IPC2-1540-7XD	.154	10-24 UNC	6	2.953	1.476	1.245	1.417
IPC2-1562-7XD	.156	5/32	6	2.953	1.476	1.242	1.417
IPC2-1610-7XD	.161	10-32 UNF	6	2.953	1.476	1.235	1.417
IPC2-1690-7XD	.169	M5	6	3.346	1.772	1.519	1.417
IPC2-1719-7XD	.172	11/64	6	3.346	1.772	1.514	1.417
IPC2-1875-7XD	.188	3/16	6	3.543	1.969	1.688	1.417
IPC2-1890-7XD	.189	12-32 UNF	6	3.543	1.969	1.686	1.417
IPC2-2010-7XD	.201	M6	6	3.543	1.969	1.668	1.417
IPC2-2031-7XD	.203	13/64	6	3.543	1.969	1.664	1.417
IPC2-2188-7XD	.219	7/32	6	3.819	2.244	1.916	1.417
IPC2-2344-7XD	.234	15/64	6	3.819	2.244	1.892	1.417
IPC2-2500-7XD	.250	1/4	8	4.173	2.598	2.223	1.417
IPC2-2620-7XD	.262	5/18-18UNF	8	4.173	2.598	2.205	1.417
IPC2-2656-7XD	.266	17/64	8	4.173	2.598	2.200	1.417
IPC2-2800-7XD	.280	MF8x1	8	4.567	2.992	2.572	1.417
IPC2-2813-7XD	.281	9/32	8	4.567	2.992	2.570	1.417
IPC2-2969-7XD	.297	19/64	8	4.567	2.992	2.547	1.417
IPC2-3125-7XD	.313	5/16	8	4.567	2.992	2.523	1.417
IPC2-3281-7XD	.328	21/64	10	5.157	3.425	2.933	1.575
IPC2-3438-7XD	.344	11/32	10	5.157	3.425	2.909	1.575
IPC2-3594-7XD	.359	23/64	10	5.472	3.740	3.201	1.575
IPC2-3750-7XD	.375	3/8	10	5.472	3.740	3.178	1.575
IPC2-3906-7XD	.391	25/64	10	5.472	3.740	3.154	1.575



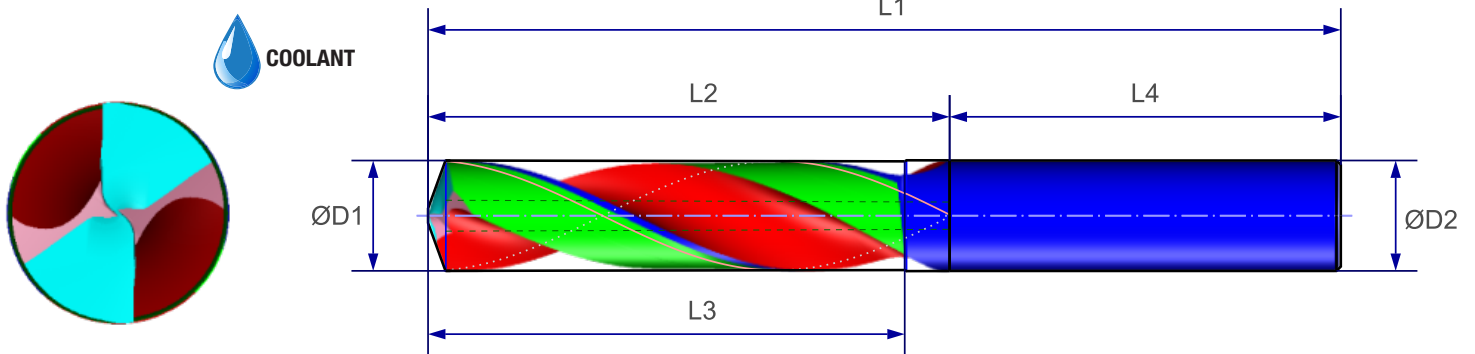
DESCRIPTION EXAMPLE...I=INCH P= STEEL, C= Coolant 2=FLUTES,125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-3940-7XD	.394	7/16-20 UNF	12	6.102	4.173	3.582	1.772
IPC2-4063-7XD	.406	13/32	12	6.102	4.173	3.564	1.772
IPC2-4210-7XD	.421	MF12x1.5	12	6.102	4.173	3.542	1.772
IPC2-4375-7XD	.438	7/16	12	6.417	4.488	3.832	1.772
IPC2-4531-7XD	.453	29/64	12	6.417	4.488	3.808	1.772
IPC2-4570-7XD	.457	1/2-20 UNF	12	6.417	4.488	3.803	1.772
IPC2-4690-7XD	.469	15/32	12	6.417	4.488	3.785	1.772
IPC2-4844-7XD	.484	31/64	14	7.165	5.236	4.509	1.772
IPC2-5000-7XD	.500	1/2	14	7.165	5.236	4.486	1.772
IPC2-5469-7XD	.547	35/64	14	7.165	5.236	4.416	1.772
IPC2-5625-7XD	.563	9/16	16	8.031	5.984	5.140	1.890
IPC2-5781-7XD	.578	37/64	16	8.031	5.984	5.117	1.890
IPC2-5938-7XD	.594	19/32	16	8.031	5.984	5.093	1.890
IPC2-6094-7XD	.609	39/64	16	8.031	5.984	5.070	1.890
IPC2-6250-7XD	.625	5/8	16	8.031	5.984	5.047	1.890
IPC2-6875-7XD	.688	11/16	18	8.780	6.732	5.701	1.890
IPC2-7500-7XD	.750	3/4	20	9.606	7.480	6.355	1.969



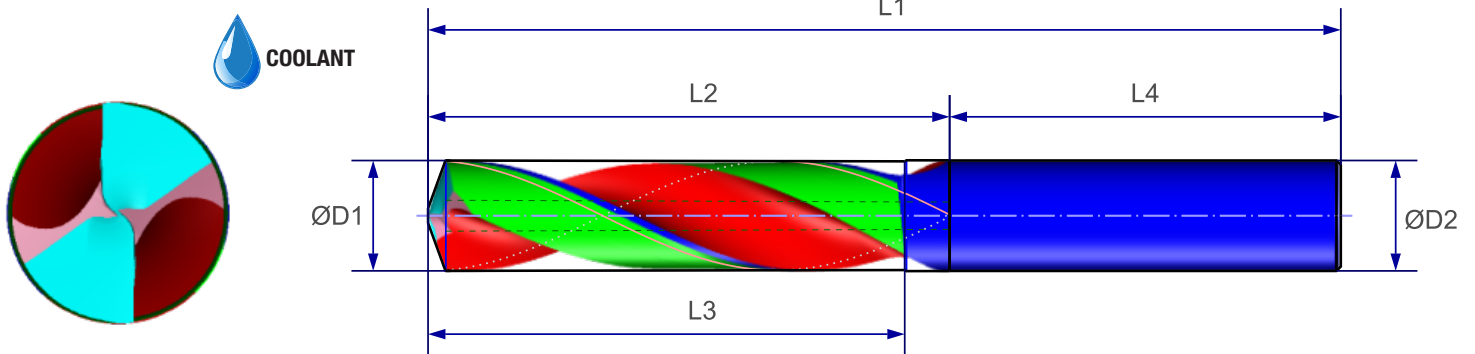
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0300-7XD	3.00		6	70	30	25	36
MPC2-0310-7XD	3.10		6	70	30	25	36
MPC2-0320-7XD	3.20		6	70	30	25	36
MPC2-0330-7XD	3.30		6	70	30	25	36
MPC2-0340-7XD	3.40	M4	6	75	38	32	36
MPC2-0350-7XD	3.50		6	75	38	32	36
MPC2-0360-7XD	3.60		6	75	38	32	36
MPC2-0370-7XD	3.70		6	75	38	31	36
MPC2-0380-7XD	3.80		6	75	38	31	36
MPC2-0390-7XD	3.90	10-24 UNC	6	75	38	31	36
MPC2-0400-7XD	4.00		6	75	38	31	36
MPC2-0410-7XD	4.10	10-32 UNC	6	75	38	31	36
MPC2-0420-7XD	4.20		6	75	38	31	36
MPC2-0430-7XD	4.30	M5	6	85	45	38	36
MPC2-0440-7XD	4.40		6	85	45	38	36
MPC2-0450-7XD	4.50		6	85	45	38	36
MPC2-0470-7XD	4.70		6	85	45	37	36
MPC2-0480-7XD	4.80	12-32 UNC	6	90	50	42	36
MPC2-0490-7XD	4.90		6	90	50	42	36
MPC2-0500-7XD	5.00		6	90	50	42	36
MPC2-0510-7XD	5.10	M6	6	90	50	42	36
MPC2-0520-7XD	5.20		6	90	50	42	36
MPC2-0530-7XD	5.30	1/4-20 UNC	6	90	50	42	36
MPC2-0540-7XD	5.40		6	90	50	41	36



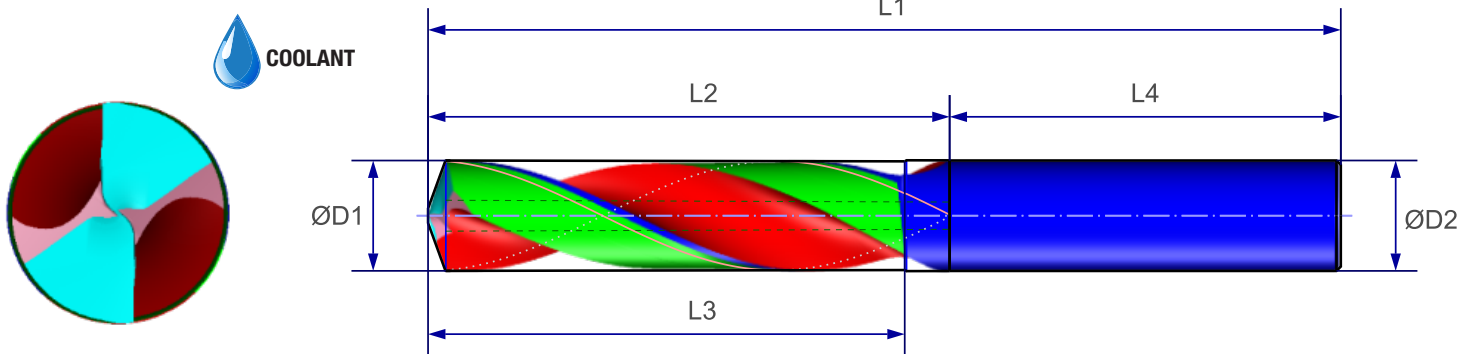
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0550-7XD	5.50		6	97	57	48	36
MPC2-0560-7XD	5.60		6	97	57	48	36
MPC2-0570-7XD	5.70		6	97	57	48	36
MPC2-0580-7XD	5.80		6	97	57	48	36
MPC2-0590-7XD	5.90		6	97	57	48	36
MPC2-0600-7XD	6.00		8	106	66	57	36
MPC2-0610-7XD	6.10		8	106	66	56	36
MPC2-0620-7XD	6.20		8	106	66	56	36
MPC2-0630-7XD	6.30		8	106	66	56	36
MPC2-0640-7XD	6.40		8	106	66	56	36
MPC2-0650-7XD	6.50		8	106	66	56	36
MPC2-0660-7XD	6.60		8	106	66	56	36
MPC2-0670-7XD	6.70	5/18-18UNF	8	106	66	55	36
MPC2-0675-7XD	6.75		8	106	66	55	36
MPC2-0680-7XD	6.80		8	106	66	55	36
MPC2-0690-7XD	6.90	M8	8	116	76	65	36
MPC2-0700-7XD	7.00		8	116	76	65	36
MPC2-0710-7XD	7.10	MF8x1	8	116	76	65	36
MPC2-0720-7XD	7.20		8	116	76	65	36
MPC2-0730-7XD	7.30		8	116	76	65	36
MPC2-0740-7XD	7.40		8	116	76	64	36
MPC2-0750-7XD	7.50		8	116	76	64	36
MPC2-0760-7XD	7.60		8	116	76	64	36
MPC2-0770-7XD	7.70		8	116	76	64	36



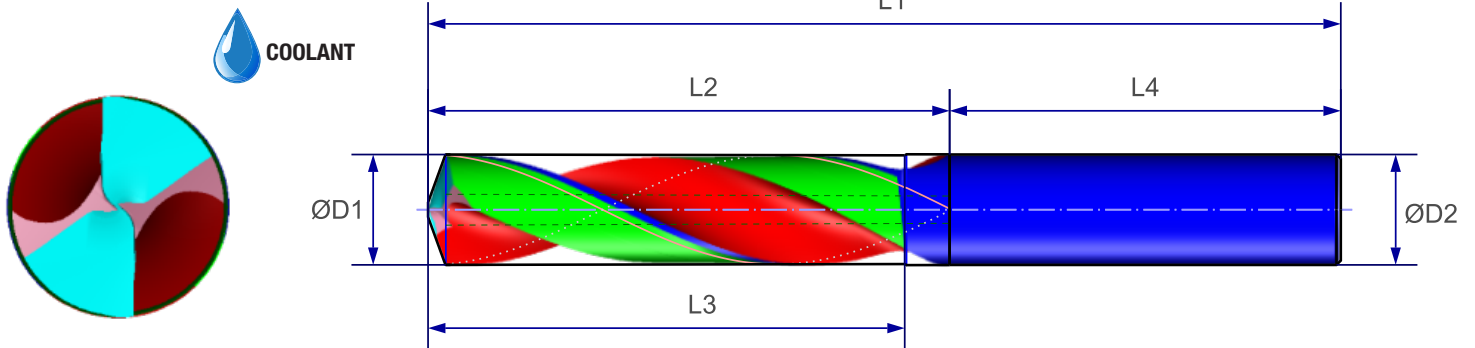
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0780-7XD	7.80		8	116	76	64	36
MPC2-0790-7XD	7.90		8	116	76	64	36
MPC2-0800-7XD	8.00		10	131	87	75	40
MPC2-0810-7XD	8.10		10	131	87	74	40
MPC2-0820-7XD	8.20	3/8-16 UNC	10	131	87	74	40
MPC2-0830-7XD	8.30		10	131	87	74	40
MPC2-0840-7XD	8.40		10	131	87	74	40
MPC2-0850-7XD	8.50		10	131	87	74	40
MPC2-0860-7XD	8.60	3/8-24 UNF	10	131	87	74	40
MPC2-0870-7XD	8.70	M10	10	131	87	73	40
MPC2-0880-7XD	8.80		10	131	87	73	40
MPC2-0890-7XD	8.90	MF10x1.25	10	131	87	73	40
MPC2-0900-7XD	9.00		10	131	87	73	40
MPC2-0910-7XD	9.10		10	139	95	81	40
MPC2-0920-7XD	9.20		10	139	95	81	40
MPC2-0930-7XD	9.30		10	139	95	81	40
MPC2-0940-7XD	9.40		10	139	95	80	40
MPC2-0950-7XD	9.50		10	139	95	80	40
MPC2-0960-7XD	9.60		10	139	95	80	40
MPC2-0970-7XD	9.70		10	139	95	80	40
MPC2-0980-7XD	9.70		10	139	95	80	40
MPC2-0990-7XD	9.90		10	139	95	80	40
MPC2-1000-7XD	10.00	7/16-20 UNF	12	155	106	91	45
MPC2-1010-7XD	10.10		12	155	106	90	45



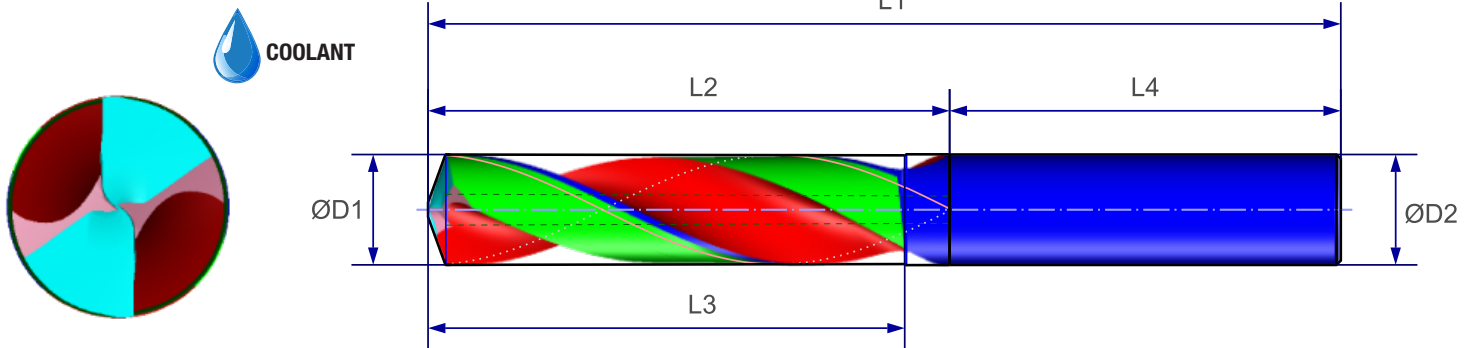
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1020-7XD	10.20		12	155	106	90	45
MPC2-1030-7XD	10.30		12	155	106	90	45
MPC2-1040-7XD	10.40	M12	12	155	106	90	45
MPC2-1050-7XD	10.50		12	155	106	90	45
MPC2-1060-7XD	10.60		12	155	106	90	45
MPC2-1070-7XD	10.70	MF12x1.5	12	155	106	89	45
MPC2-1080-7XD	10.80		12	155	106	89	45
MPC2-1090-7XD	10.90		12	155	106	89	45
MPC2-1100-7XD	11.00	1/2-13 UNC	12	155	106	89	45
MPC2-1110-7XD	11.10		12	155	106	89	45
MPC2-1120-7XD	11.20		12	163	114	97	45
MPC2-1140-7XD	11.40		12	163	114	96	45
MPC2-1150-7XD	11.50		12	163	114	96	45
MPC2-1160-7XD	11.60	1/2-20 UNF	12	163	114	96	45
MPC2-1170-7XD	11.70		12	163	114	96	45
MPC2-1180-7XD	11.80		12	163	114	96	45
MPC2-1190-7XD	11.90		12	163	114	96	45
MPC2-1200-7XD	12.00		14	182	133	115	45
MPC2-1210-7XD	12.10		14	182	133	114	45
MPC2-1220-7XD	12.20		14	182	133	114	45
MPC2-1230-7XD	12.30		14	182	133	114	45
MPC2-1250-7XD	12.50		14	182	133	114	45
MPC2-1260-7XD	12.60		14	182	133	114	45
MPC2-1270-7XD	12.70		14	182	133	113	45



DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1280-7XD	12.80		14	182	133	113	45
MPC2-1290-7XD	12.90		14	182	133	113	45
MPC2-1300-7XD	13.00		14	182	133	113	45
MPC2-1310-7XD	13.10		14	182	133	113	45
MPC2-1320-7XD	13.20		14	182	133	113	45
MPC2-1330-7XD	13.30		14	182	133	113	45
MPC2-1350-7XD	13.50		14	182	133	112	45
MPC2-1380-7XD	13.80		14	182	133	112	45
MPC2-1400-7XD	14.00		16	204	152	131	48
MPC2-1410-7XD	14.10		16	204	152	130	48
MPC2-1420-7XD	14.20		16	204	152	130	48
MPC2-1430-7XD	14.30		16	204	152	130	48
MPC2-1440-7XD	14.40		16	204	152	130	48
MPC2-1450-7XD	14.50		16	204	152	130	48
MPC2-1460-7XD	14.60		16	204	152	130	48
MPC2-1480-7XD	14.80		16	204	152	129	48
MPC2-1500-7XD	15.00		16	204	152	129	48
MPC2-1510-7XD	15.10		16	204	152	129	48
MPC2-1520-7XD	15.20		16	204	152	129	48
MPC2-1530-7XD	15.30		16	204	152	129	48
MPC2-1540-7XD	15.40		16	204	152	128	48
MPC2-1550-7XD	15.50		16	204	152	128	48
MPC2-1560-7XD	15.60		16	204	152	128	48
MPC2-1570-7XD	15.70		16	204	152	128	48



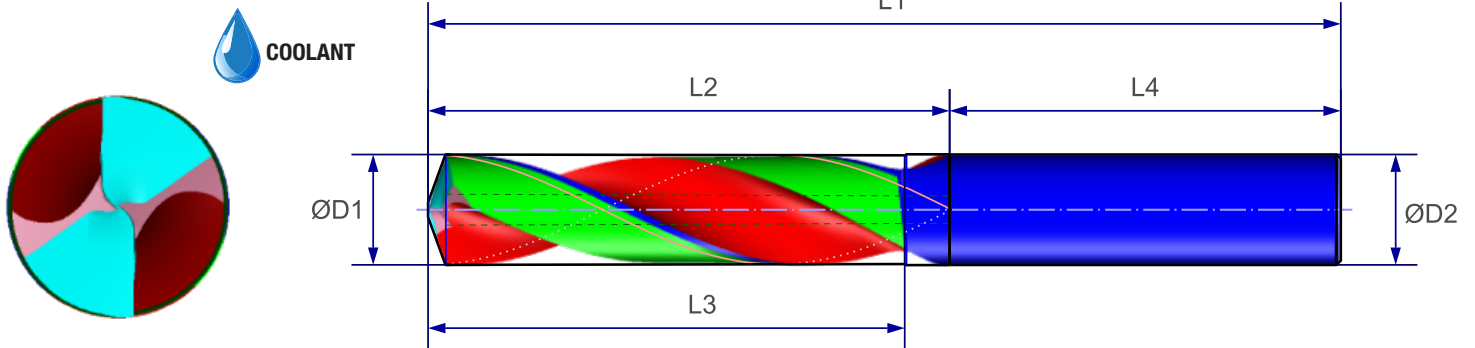
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-1580-7XD	15.80		16	204	152	128	48
MPC2-1590-7XD	15.90		16	204	152	128	48
MPC2-1600-7XD	16.00		18	223	171	147	48
MPC2-1610-7XD	16.10		18	223	171	146	48
MPC2-1650-7XD	16.50		18	223	171	146	48
MPC2-1700-7XD	17.00		18	223	171	145	48
MPC2-1750-7XD	17.50		18	223	171	144	48
MPC2-1770-7XD	17.70		18	223	171	144	48
MPC2-1800-7XD	18.00		20	244	190	163	50
MPC2-1840-7XD	18.40		20	244	190	162	50
MPC2-1850-7XD	18.50		20	244	190	162	50
MPC2-1900-7XD	19.00		20	244	190	161	50
MPC2-1910-7XD	19.10		20	244	190	161	50
MPC2-1920-7XD	19.20		20	244	190	161	50
MPC2-1930-7XD	19.30		20	244	190	161	50
MPC2-1950-7XD	19.50		20	244	190	160	50
MPC2-2000-7XD	20.00		20	244	190	160	50



DESCRIPTION EXAMPLE...M=METRIC, GP= GENERAL PURPOSE, SD=STEP DRILL, C=COOLANT, 2=FLUTES, 03734=METRIC DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1		SHANK DIAMETER metric	OAL metric	STEP LENGTH metric	SHANK LENGTH L4 metric	POINT LENGTH metric
	m7	metric inch					
MPSDC2-03734-3XD	3.734	0.147	6	66	10	36	0.7
MPSDC2-04200-3XD	4.200	0.165	6	66	12	36	0.8
MPSDC2-04496-3XD	4.496	0.177	8	79	13	36	0.9
MPSDC2-05000-3XD	5.000	0.197	8	79	13	36	0.9
MPSDC2-05106-3XD	5.106	0.201	8	79	15	36	1.0
MPSDC2-05410-3XD	5.410	0.213	8	79	16	36	1.0
MPSDC2-06528-3XD	6.528	0.257	10	89	17	40	1.2
MPSDC2-06800-3XD	6.800	0.268	10	89	16	40	1.3
MPSDC2-06909-3XD	6.909	0.272	10	89	18	40	1.3
MPSDC2-07938-3XD	7.938	0.313	12	89	19	45	1.5
MPSDC2-08433-3XD	8.433	0.332	12	102	21	45	1.6
MPSDC2-08500-3XD	8.500	0.335	12	102	19	45	1.6
MPSDC2-09921-3XD	9.921	0.391	14	107	23	45	1.9
MPSDC2-10200-3XD	10.200	0.402	14	107	22	45	1.9
MPSDC2-10500-3XD	10.500	0.413	14	107	22	45	2.0
MPSDC2-10716-3XD	10.716	0.422	14	107	27	45	2.0
MPSDC2-12000-3XD	12.000	0.472	16	115	27	48	2.2
MPSDC2-12304-3XD	12.304	0.484	16	115	28	48	2.3
MPSDC2-12500-3XD	12.500	0.492	16	115	27	48	2.3
MPSDC2-13096-3XD	13.096	0.516	16	115	31	48	2.4
MPSDC2-13495-3XD	13.495	0.531	18	123	32	48	2.5
MPSDC2-14000-3XD	14.000	0.551	18	123	29	48	2.6
MPSDC2-16670-3XD	16.670	0.656	20	131	38	50	3.1
MPSDC2-17463-3XD	17.463	0.688	20	131	40	50	3.2
MPSDC2-19446-3XD	19.446	0.766	25	153	43	56	3.6

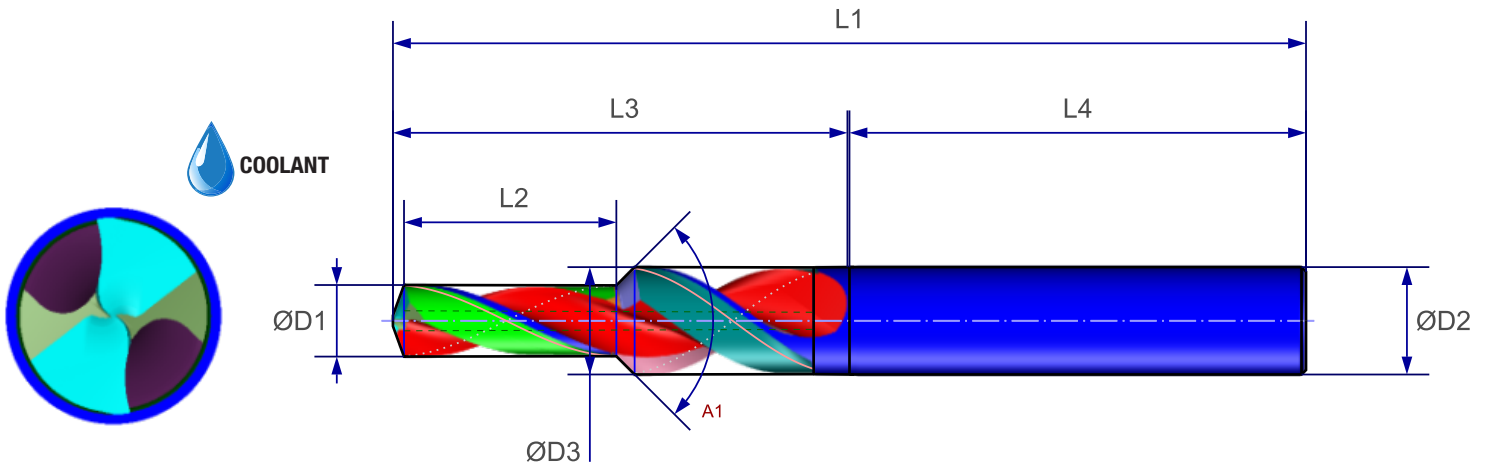
Tool Diameter	
inch	0.125 0.188 0.25 0.313 0.375 0.5 0.625 0.75
mm	3.0 4.0 6.0 8.0 10.0 12.0 16.0 20.0

Low Carbon Steels, Long Chipping				Tensile Strength RM (MPa): <530				Hardness (HB) or HRC: <125							
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter										
SFM	Solid	225	355	485	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019		
SFM	Thru-Coolant	425	785	945	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022		
Low Carbon Steels, Free Machining and Short Chipping				Content C <.25%				Tensile Strength RM (MPa): <650				Hardness (HB) or HRC: <220			
Cutting Speed					Feed Rate by Diameter										
SFM	Solid	290	380	500	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019		
SFM	Thru-Coolant	600	720	875	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022		
Low Alloyed Steels, Low Alloyed Steels				Content C <.25%				Tensile Strength RM (MPa): 600-850				Hardness (HB) or HRC: <330			
Cutting Speed					Feed Rate by Diameter										
SFM	Solid	200	290	375	IPR	.004-.006	.004-.008	.005-.009	.006-.011	.007-.013	.008-.015	.010-.017	.011-.019		
SFM	Thru-Coolant	425	500	600	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022		
Tool Steels				Content C >.25%				Tensile Strength RM (MPa): 800-1100				Hardness (HB) or HRC: 350-450			
Cutting Speed					Feed Rate by Diameter										
SFM	Solid	150	250	375	IPR	.003-.006	.004-.007	.004-.007	.006-.011	.006-.012	.007-.014	.008-.016	.009-.018		
SFM	Thru-Coolant	350	475	550	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022		
Austenitic and PH Stainless Steels				Content C .1%- .6%				Tensile Strength RM (MPa): 900-1350				Hardness (HB) or HRC: 350-450			
Cutting Speed					Feed Rate by Diameter										
SFM	Solid	150	250	375	IPR	.003-.005	.003-.006	.004-.006	.005-.009	.006-.009	.006-.010	.007-.014	.008-.015		
SFM	Thru-Coolant	350	475	550	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022		

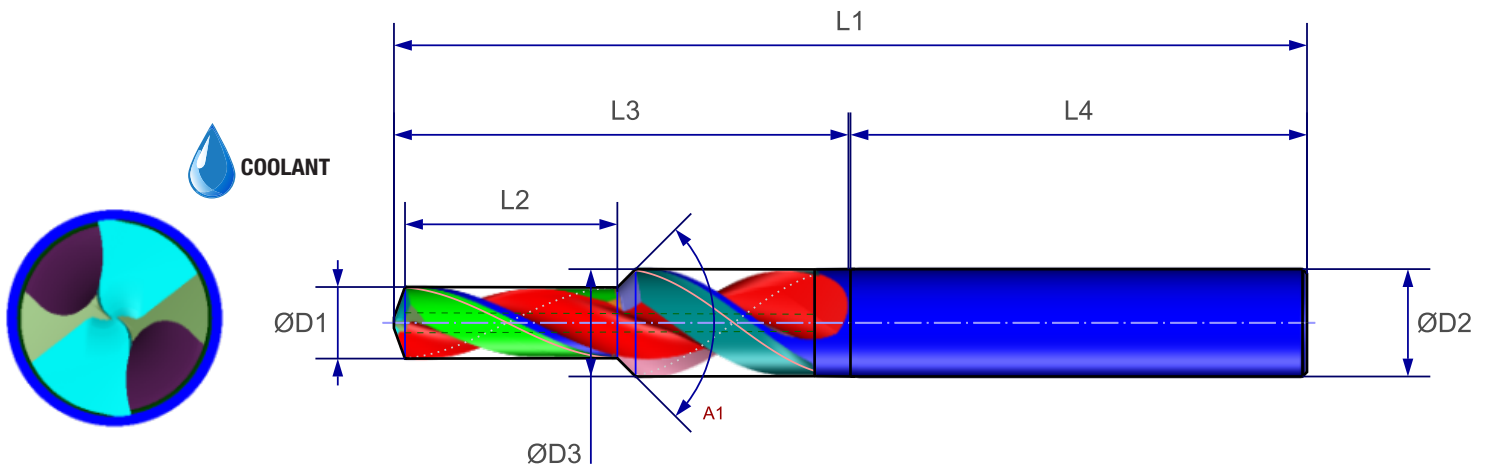


DESCRIPTION EXAMPLE... M=METRIC, GP= GENERAL PURPOSE, SD=STEP DRILL, C=COOLANT, 2=FLUTES, 03734=METRIC DIA, 4XD= FLUTE LENGTH	DRILL DIAMETER D1 m7 metric inch	SHANK DIAMETER D2 metric	OAL metric	STEP LENGTH metric	SHANK LENGTH L4 metric	POINT LENGTH metric
MPSDLC2-03734-4XD	3.734	0.147	6	66	36	0.7
MPSDLC2-04200-4XD	4.200	0.165	6	66	36	0.8
MPSDLC2-04496-4XD	4.496	0.177	8	79	36	0.9
MPSDLC2-05000-4XD	5.000	0.197	8	79	36	0.9
MPSDLC2-05106-4XD	5.106	0.201	8	79	36	1.0
MPSDLC2-05410-4XD	5.410	0.213	8	79	36	1.0
MPSDLC2-06528-4XD	6.528	0.257	10	89	40	1.2
MPSDLC2-06800-4XD	6.800	0.268	10	89	40	1.3
MPSDLC2-06909-4XD	6.909	0.272	10	89	40	1.3
MPSDLC2-07938-4XD	7.938	0.313	12	102	45	1.5
MPSDLC2-08433-4XD	8.433	0.332	12	102	45	1.6
MPSDLC2-08500-4XD	8.500	0.335	12	102	45	1.6
MPSDLC2-09921-4XD	9.921	0.391	14	107	45	1.9
MPSDLC2-10200-4XD	10.200	0.402	14	107	45	1.9
MPSDLC2-10500-4XD	10.500	0.413	14	107	45	2.0
MPSDLC2-10716-4XD	10.716	0.422	14	107	45	2.0
MPSDLC2-12000-4XD	12.000	0.472	16	115	48	2.2
MPSDLC2-12304-4XD	12.304	0.484	16	115	48	2.3
MPSDLC2-12500-4XD	12.500	0.492	16	115	48	2.3
MPSDLC2-13096-4XD	13.096	0.516	16	123	48	2.4
MPSDLC2-13495-4XD	13.495	0.531	18	123	48	2.5
MPSDLC2-14000-4XD	14.000	0.551	18	123	48	2.6
MPSDLC2-16670-4XD	16.670	0.656	20	141	50	3.1
MPSDLC2-17463-4XD	17.463	0.688	20	141	50	3.2
MPSDLC2-19446-4XD	19.446	0.766	25	184	56	3.6

Cutting Speed	Tool Diameter												
	inch	0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75				
	mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0				
Low Carbon Steels, Long Chipping		Tensile Strength RM (MPa): <530					Hardness (HB) or HRC: <125						
	Min.	Start	Max	Feed Rate by Diameter									
SFM	450	700	###	IPR	.003-.007	.004-.008	.004-.009	.006-.012	.006-.014	.007-.015	.008-.018	.009-.020	
Low Carbon Steels, Free Machining and Short Chipping		Content C <.25%		Tensile Strength RM (MPa): <650					Hardness (HB) or HRC: <220				
	Feed Rate by Diameter												
SFM	550	680	###	IPR	.003-.006	.004-.007	.004-.008	.006-.009	.006-.011	.007-.013	.008-.015	.009-.017	
Medium & High Plain-Carbon Steels, Low Alloyed		Content <.25%		Tensile Strength RM (MPa): 600-850					Hardness (HB) or HRC: <330				
	Feed Rate by Diameter												
SFM	380	480	###	IPR	.004-.007	.005-.008	.006-.009	.007-.012	.008-.014	.009-.015	.010-.018	.011-.020	
Alloyed and Tempered Carbon Steels, Tool Steels		Content C>.25%		Tensile Strength RM (MPa): 800-1100									

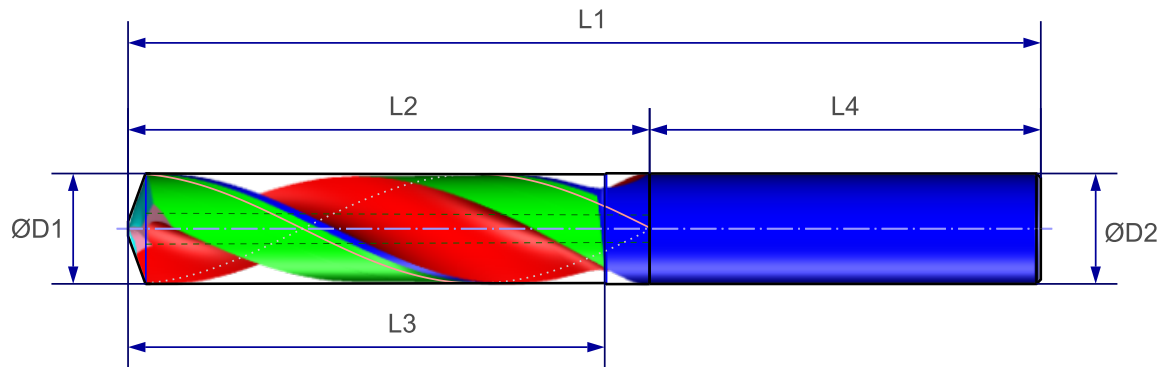
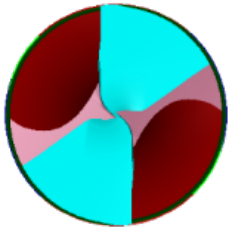


DESCRIPTION EXAMPLE...M=METRIC, GP= GENERAL PURPOSE, SD=STEP DRILL, C=COOLANT, 2=FLUTES 03734=METRIC DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1		SHANK DIAMETER metric	OAL metric	STEP LENGTH metric	SHANK LENGTH L4 metric	POINT LENGTH metric
	metric	inch					
MGPSDC2-03734-3XD	3.734	0.147	6	66	10	36	0.7
MGPSDC2-04200-3XD	4.200	0.165	6	66	12	36	0.8
MGPSDC2-04496-3XD	4.496	0.177	8	79	13	36	0.9
MGPSDC2-05000-3XD	5.000	0.197	8	79	13	36	0.9
MGPSDC2-05106-3XD	5.106	0.201	8	79	15	36	1.0
MGPSDC2-05410-3XD	5.410	0.213	8	79	16	36	1.0
MGPSDC2-06528-3XD	6.528	0.257	10	89	17	40	1.2
MGPSDC2-06800-3XD	6.800	0.268	10	89	16	40	1.3
MGPSDC2-06909-3XD	6.909	0.272	10	89	18	40	1.3
MGPSDC2-07938-3XD	7.938	0.313	12	89	19	45	1.5
MGPSDC2-08433-3XD	8.433	0.332	12	102	21	45	1.6
MGPSDC2-08500-3XD	8.500	0.335	12	102	19	45	1.6
MGPSDC2-09921-3XD	9.921	0.391	14	107	23	45	1.9
MGPSDC2-10200-3XD	10.200	0.402	14	107	22	45	1.9
MGPSDC2-10500-3XD	10.500	0.413	14	107	22	45	2.0
MGPSDC2-10716-3XD	10.716	0.422	14	107	27	45	2.0
MGPSDC2-12000-3XD	12.000	0.472	16	115	27	48	2.2
MGPSDC2-12304-3XD	12.304	0.484	16	115	28	48	2.3
MGPSDC2-12500-3XD	12.500	0.492	16	115	27	48	2.3
MGPSDC2-13096-3XD	13.096	0.516	16	115	31	48	2.4
MGPSDC2-13495-3XD	13.495	0.531	18	123	32	48	2.5
MGPSDC2-14000-3XD	14.000	0.551	18	123	29	48	2.6
MGPSDC2-16670-3XD	16.670	0.656	20	131	38	50	3.1
MGPSDC2-17463-3XD	17.463	0.688	20	131	40	50	3.2
MGPSDC2-19446-3XD	19.446	0.766	25	153	43	56	3.6

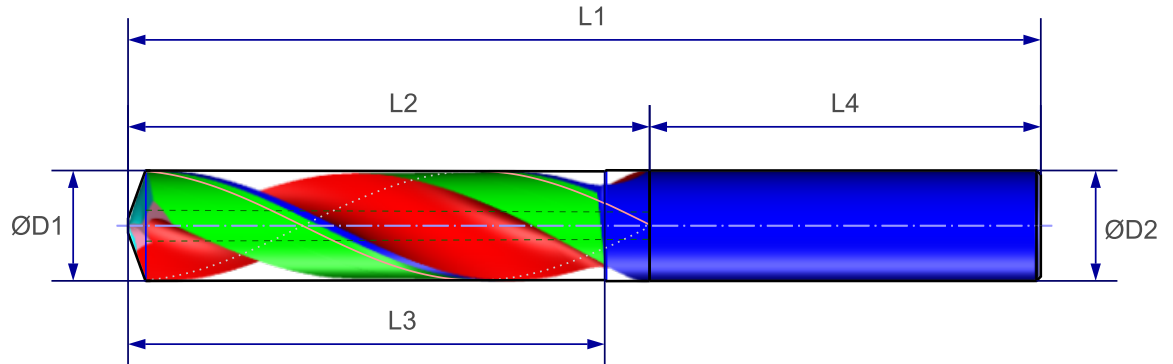
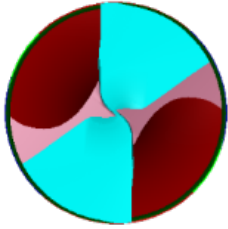


DESCRIPTION EXAMPLE...M=METRIC, GP= GENERAL PURPOSE, SD=STEP DRILL, C=COOLANT, 2=FLUTES 03734=METRIC DIA, 4XD=FLUTE LENGTH	DRILL DIAMETER D1		SHANK DIAMETER metric	OAL metric	STEP LENGTH metric	SHANK LENGTH L4 metric	POINT LENGTH metric
	m7 metric	inch					
MGPSDC2-03734-4XD	3.734	0.147	6	66	16	36	0.7
MGPSDC2-04200-4XD	4.200	0.165	6	66	17	36	0.8
MGPSDC2-04496-4XD	4.496	0.177	8	79	17	36	0.9
MGPSDC2-05000-4XD	5.000	0.197	8	79	20	36	0.9
MGPSDC2-05106-4XD	5.106	0.201	8	79	20	36	1.0
MGPSDC2-05410-4XD	5.410	0.213	8	79	21	36	1.0
MGPSDC2-06528-4XD	6.528	0.257	10	89	24	40	1.2
MGPSDC2-06800-4XD	6.800	0.268	10	89	25	40	1.3
MGPSDC2-06909-4XD	6.909	0.272	10	89	25	40	1.3
MGPSDC2-07938-4XD	7.938	0.313	12	102	27	45	1.5
MGPSDC2-08433-4XD	8.433	0.332	12	102	29	45	1.6
MGPSDC2-08500-4XD	8.500	0.335	12	102	30	45	1.6
MGPSDC2-09921-4XD	9.921	0.391	14	107	33	45	1.9
MGPSDC2-10200-4XD	10.200	0.402	14	107	35	45	1.9
MGPSDC2-10500-4XD	10.500	0.413	14	107	35	45	2.0
MGPSDC2-10716-4XD	10.716	0.422	14	107	37	45	2.0
MGPSDC2-12000-4XD	12.000	0.472	16	115	40	48	2.2
MGPSDC2-12304-4XD	12.304	0.484	16	115	41	48	2.3
MGPSDC2-12500-4XD	12.500	0.492	16	115	40	48	2.3
MGPSDC2-13096-4XD	13.096	0.516	16	123	44	48	2.4
MGPSDC2-13495-4XD	13.495	0.531	18	123	45	48	2.5
MGPSDC2-14000-4XD	14.000	0.551	18	123	43	48	2.6
MGPSDC2-16670-4XD	16.670	0.656	20	141	55	50	3.1
MGPSDC2-17463-4XD	17.463	0.688	20	141	58	50	3.2
MGPSDC2-19446-4XD	19.446	0.766	25	184	76	56	3.6

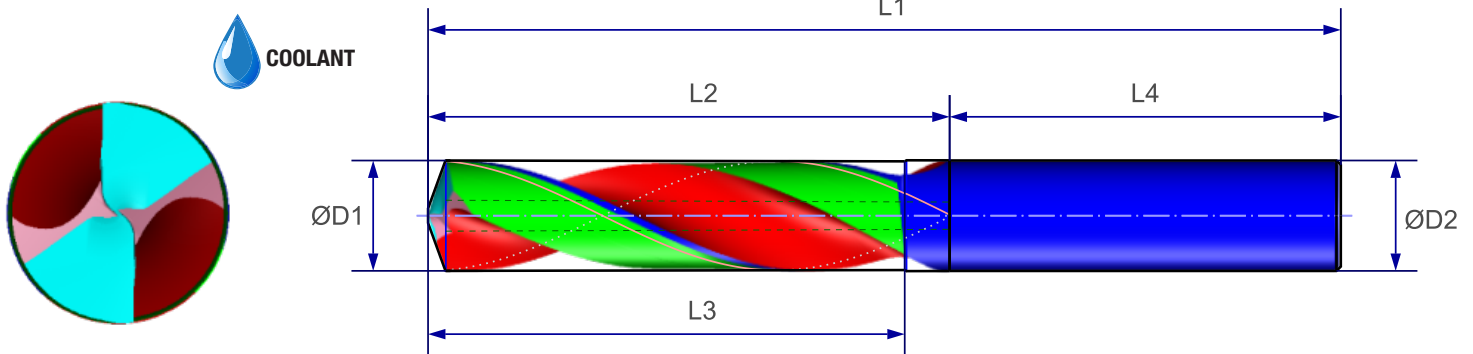
Cutting Speed		Tool Diameter																				
Starting Value	sfm	49	98	164	262	328	394	492	656	820	984	1148	inch	0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75	
	m/min	15	30	50	80	100	120	150	200	250	300	350	mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0	
P1 Low Carbon Steels, Long Chipping													Content C <.25%		Tensile Strength RM (MPa): <530				Hardness (HB) or HRC: <125			
													Feed Rate by Diameter									
720	sfm					460		790					ipr	.003-.007	.004-.008	.004-.009	.006-.012	.006-.014	.007-.015	.008-.018	.009-.020	
220	m/min					140		240					mm/r	0.07-0.17	0.09-0.21	0.11-0.24	0.14-0.30	0.16-0.35	0.18-0.39	0.20-0.46	0.24-0.50	
P2 Low Carbon Steels, Free Machining and Short Chipping													Content C <.25%		Tensile Strength RM (MPa): <650				Hardness (HB) or HRC: <220			
													Feed Rate by Diameter									
690	sfm							590		790			ipr	.003-.006	.004-.007	.004-.008	.006-.009	.006-.011	.007-.013	.008-.015	.009-.017	
210	m/min							180		240			mm/r	0.07-0.14	0.09-0.17	0.11-0.20	0.14-0.24	0.16-0.28	0.18-0.32	0.20-0.37	0.24-0.43	
P3 Medium & High Plain-Carbon Steels, Low Alloyed													Content <.25%		Tensile Strength RM (MPa): 600-850				Hardness (HB) or HRC: <330			
													Feed Rate by Diameter									
490	sfm					390		590					ipr	.004-.007	.005-.008	.006-.009	.007-.012	.008-.014	.009-.015	.010-.018	.011-.020	
150	m/min					120		120					mm/r	0.09-0.17	0.12-0.21	0.14-0.24	0.17-0.30	0.20-0.35	0.22-0.39	0.26-0.46	0.29-0.50	
P4 Alloyed and Tempered Carbon Steels, Tool Steels													Content C >.25%		Tensile Strength RM (MPa): 800-1100				Hardness (HB) or HRC: 350-450			
													Feed Rate by Diameter									
460	sfm					330		590					ipr	.003-.007	.004-.008	.005-.009	.006-.011	.007-.013	.007-.015	.009-.017	.010-.018	
140	m/min					100		180					mm/r	0.08-0.17	0.11-0.20	0.12-0.23	0.15-0.28	0.17-0.33	0.19-0.37	0.22-0.43	0.25-0.45	
P6 High Strength Ferritic, Martensitic, and PH Stainless Steels													Content C .1%-6%		Tensile Strength RM (MPa): 900-1350				Hardness (HB) or HRC: 350-450			
													Feed Rate by Diameter									
330	sfm					460		590					ipr	.003-.005	.004-.006	.004-.007	.005-.008	.006-.009	.007-.011	.007-.013	.008-.014	
100	m/min					140		180					mm/r	0.07-0.13	0.09-0.15	0.11-0.17	0.13-0.21	0.15-0.24	0.17-0.27	0.19-0.33	0.21-0.36	
K1 Malleable Cast Iron													Feed Rate by Diameter									
520	sfm					460		590					ipr	.004-.007	.005-.009	.005-.010	.006-.013	.007-.015	.008-.016	.009-.019	.011-.020	
160	m/min					140		180					mm/r	0.09-0.18	0.12-0.22	0.13-0.26	0.16-0.33	0.19-0.37	0.21-0.41	0.24-0.48	0.27-0.51	
K2 Grey Cast Iron													Feed Rate by Diameter									
490	sfm					330		660					ipr	.004-.006	.005-.007	.005-.009	.006-.011	.007-.013	.008-.014	.009-.016	.011-.018	
150	m/min					100		200					mm/r	0.09-0.16	0.12-0.19	0.13-0.22	0.16-0.27	0.19-0.32	0.21-0.35	0.24-0.41	0.27-0.45	
K3 Nodular Cast Iron													Feed Rate by Diameter									
460	sfm					330		590					ipr	.003-.006	.004-.007	.005-.008	.006-.009	.006-.011	.007-.013	.008-.015	.009-.015	
140	m/min					100		180					mm/r	0.07-0.14	0.09-0.17	0.12-0.20	0.14-0.24	0.16-0.28	0.18-0.32	0.21-0.37	0.24-0.39	



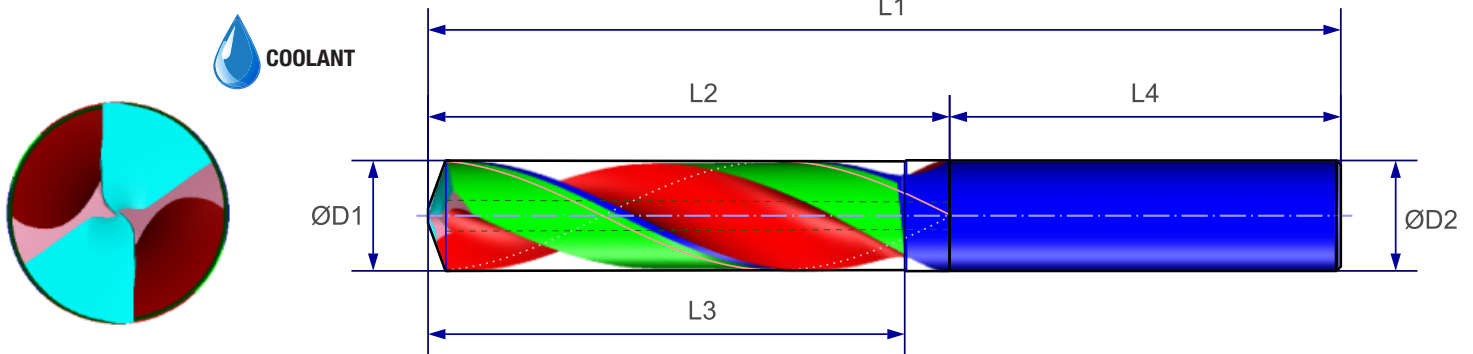
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMS2-0892-3XD	0.089	4-40	6	2.441	0.787	0.653	1.417
IMS2-1096-3XD	0.110	6-32	6	2.441	0.787	0.623	1.417
IMS2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IMS2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IMS2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IMS2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IMS2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IMS2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IMS2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IMS2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IMS2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IMS2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IMS2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IMS2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IMS2-2045-3XD	.205	1/4-20	6	2.598	1.102	0.795	1.417
IMS2-2175-3XD	.218	1/4-28	6	2.598	1.102	0.776	1.417
IMS2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IMS2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IMS2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IMS2-2620-3XD	.262	5/16-18	8	3.110	1.339	0.946	1.417
IMS2-2746-3XD	.275	5/16-24	8	3.110	1.339	0.927	1.417
IMS2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IMS2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IMS2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IMS2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IMS2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IMS2-3180-3XD	.318	3/8-16	10	3.504	1.850	1.373	1.575
IMS2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575



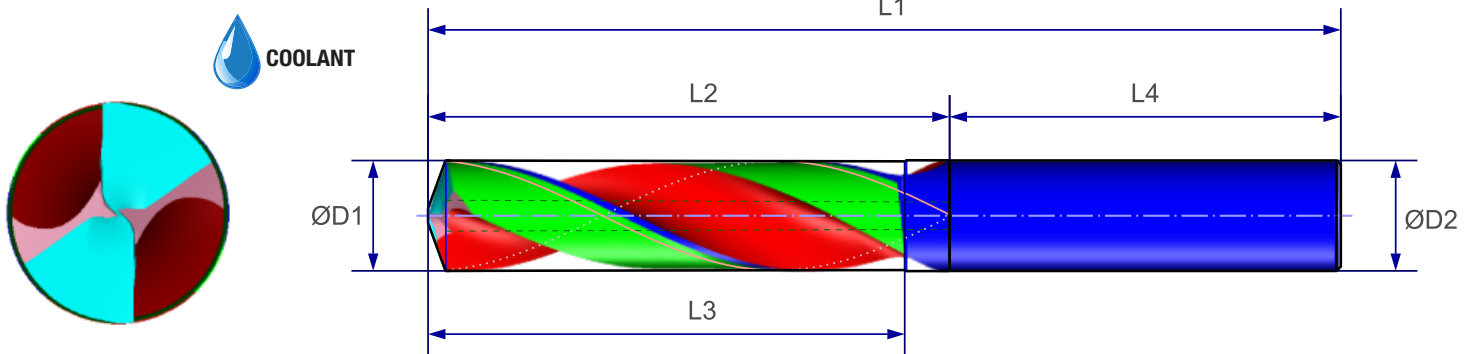
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMS2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575
IMS2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IMS2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IMS2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IMS2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IMS2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IMS2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.575
IMS2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IMS2-4300-3XD	.430	1/2-13	12	4.016	2.165	1.520	1.772
IMS2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IMS2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IMS2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IMS2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IMS2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IMS2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IMS2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IMS2-5423-3XD	.542	5/8-11	14	4.213	2.362	1.549	1.772
IMS2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.890
IMS2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IMS2-5745-3XD	.575	5/8-18	16	4.528	2.559	1.697	1.890
IMS2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IMS2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IMS2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IMS2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IMS2-6591-3XD	.659	3/4-10	18	4.843	2.874	1.885	1.910
IMS2-6875-3XD	.688	11/16	18	5.157	3.110	2.079	1.910
IMS2-6931-3XD	.693	3/4-16	18	5.157	3.110	2.070	1.910
IMS2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



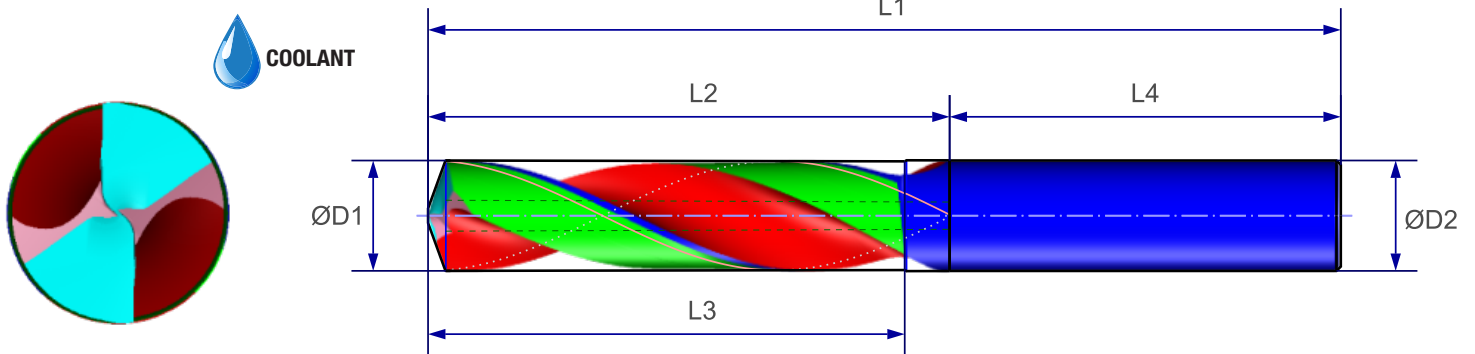
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS... STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IMC2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IMC2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IMC2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IMC2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IMC2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IMC2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IMC2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IMC2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IMC2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IMC2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IMC2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IMC2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IMC2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IMC2-2640-3XD	.264	5/16-18UNF	8	3.110	1.339	0.943	1.417
IMC2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IMC2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IMC2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IMC2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IMC2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IMC2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IMC2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IMC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IMC2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IMC2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IMC2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772



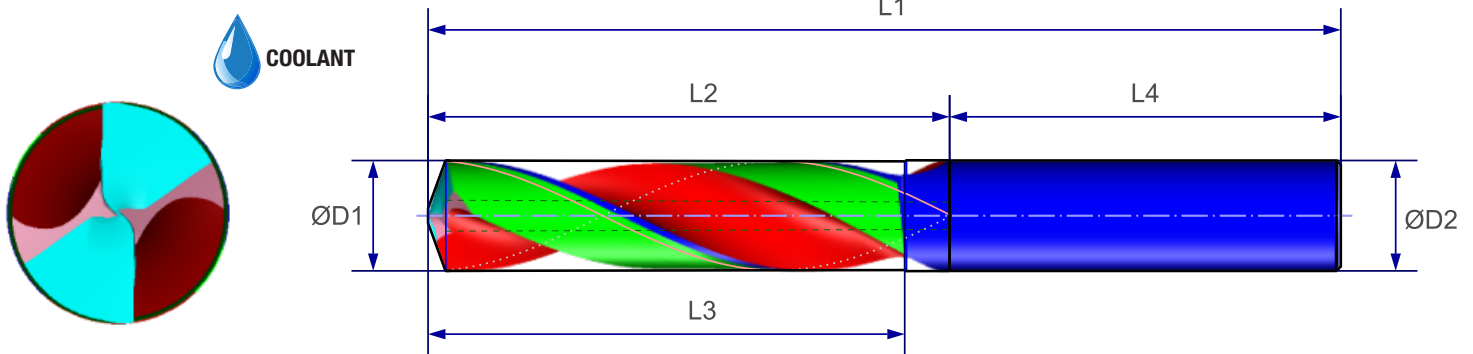
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IMC2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IMC2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IMC2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IMC2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IMC2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IMC2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IMC2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IMC2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IMC2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IMC2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IMC2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IMC2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IMC2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IMC2-6875-3XD	.688	11/16	18	5.157	3.110	2.079	1.890
IMC2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



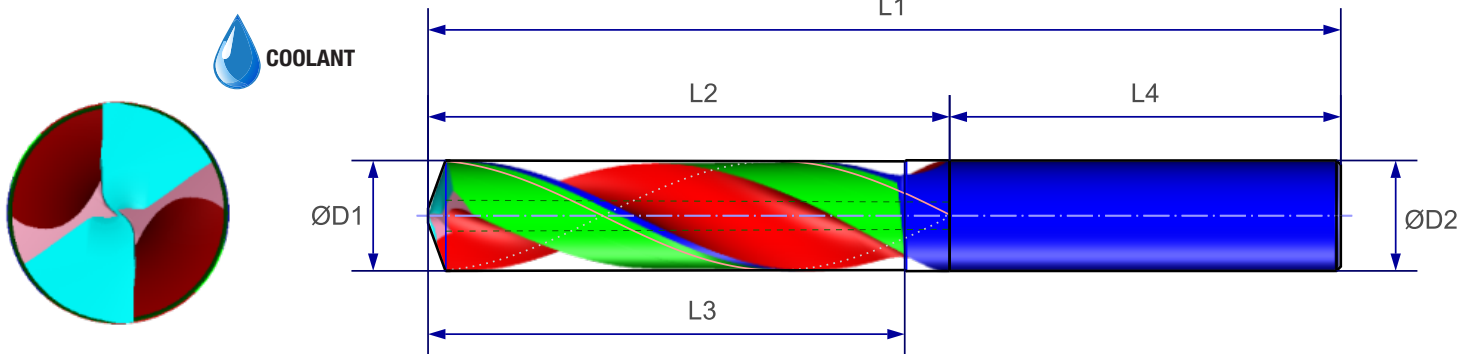
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS... STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-1250-5XD	.125	1/8	6	2.598	1.102	0.915	1.417
IMC2-1406-5XD	.141	9/64	6	2.598	1.102	0.891	1.417
IMC2-1540-5XD	.154	10-24 UNC	6	2.913	1.417	1.186	1.417
IMC2-1562-5XD	.156	5/32	6	2.913	1.417	1.183	1.417
IMC2-1610-5XD	.161	10-32 UNF	6	2.913	1.417	1.176	1.417
IMC2-1690-5XD	.169	M5	6	2.913	1.417	1.164	1.417
IMC2-1719-5XD	.172	11/64	6	2.913	1.417	1.159	1.417
IMC2-1875-5XD	.188	3/16	6	3.228	1.732	1.451	1.417
IMC2-1890-5XD	.189	12-32 UNF	6	3.228	1.732	1.449	1.417
IMC2-2010-5XD	.201	M6	6	3.228	1.732	1.431	1.417
IMC2-2031-5XD	.203	13/64	6	3.228	1.732	1.427	1.417
IMC2-2188-5XD	.219	7/32	6	3.228	1.732	1.404	1.417
IMC2-2344-5XD	.234	15/64	6	3.228	1.732	1.380	1.417
IMC2-2500-5XD	.250	1/4	8	3.583	2.087	1.712	1.417
IMC2-2640-5XD	.264	5/16-18UNF	8	3.583	2.087	1.691	1.417
IMC2-2656-5XD	.266	17/64	8	3.583	2.087	1.689	1.417
IMC2-2800-5XD	.280	MF8x1	8	3.583	2.087	1.667	1.417
IMC2-2813-5XD	.281	9/32	8	3.583	2.087	1.665	1.417
IMC2-2969-5XD	.297	19/64	8	3.583	2.087	1.642	1.417
IMC2-3125-5XD	.313	5/16	8	3.583	2.087	1.618	1.417
IMC2-3281-5XD	.328	21/64	10	4.055	2.402	1.910	1.575
IMC2-3438-5XD	.344	11/32	10	4.055	2.402	1.886	1.575
IMC2-3594-5XD	.359	23/64	10	4.055	2.402	1.863	1.575
IMC2-3750-5XD	.375	3/8	10	4.055	2.402	1.840	1.575
IMC2-3906-5XD	.391	25/64	10	4.055	2.402	1.816	1.575
IMC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.204	1.772



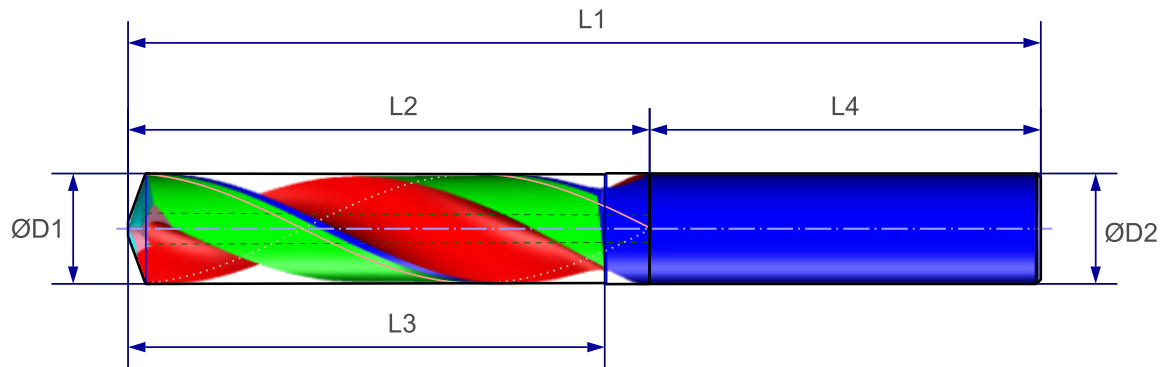
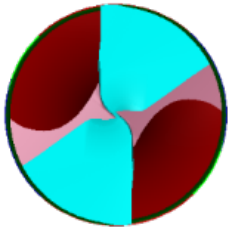
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-4063-5XD	.406	13/32	12	4.646	2.795	2.186	1.772
IMC2-4210-5XD	.421	MF12x1.5	12	4.646	2.795	2.164	1.772
IMC2-4375-5XD	.438	7/16	12	4.646	2.795	2.139	1.772
IMC2-4531-5XD	.453	29/64	12	4.646	2.795	2.115	1.772
IMC2-4570-5XD	.457	1/2-20 UNF	12	4.646	2.795	2.110	1.772
IMC2-4690-5XD	.469	15/32	12	4.646	2.795	2.092	1.772
IMC2-4844-5XD	.484	31/64	14	4.882	3.031	2.304	1.772
IMC2-5000-5XD	.500	1/2	14	4.882	3.031	2.281	1.772
IMC2-5469-5XD	.547	35/64	14	4.882	3.031	2.211	1.772
IMC2-5625-5XD	.563	9/16	16	5.236	3.268	2.424	1.890
IMC2-5781-5XD	.578	37/64	16	5.236	3.268	2.401	1.890
IMC2-5938-5XD	.594	19/32	16	5.236	3.268	2.377	1.890
IMC2-6094-5XD	.609	39/64	16	5.236	3.268	2.354	1.890
IMC2-6250-5XD	.625	5/8	16	5.236	3.268	2.331	1.890
IMC2-6875-5XD	.688	11/16	18	5.630	3.661	2.630	1.890
IMC2-7500-5XD	.750	3/4	20	6.024	3.976	2.851	1.969



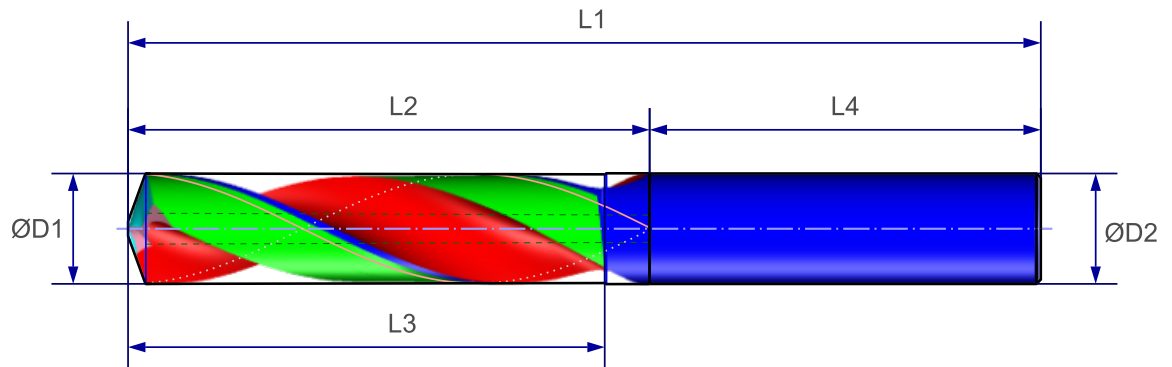
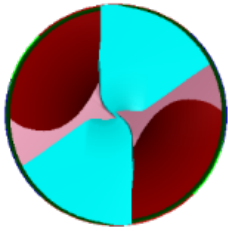
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-1250-7XD	.125	1/8	6	2.756	1.181	0.994	1.417
IMC2-1406-7XD	.141	9/64	6	2.953	1.476	1.265	1.417
IMC2-1540-7XD	.154	10-24 UNC	6	2.953	1.476	1.245	1.417
IMC2-1562-7XD	.156	5/32	6	2.953	1.476	1.242	1.417
IMC2-1610-7XD	.161	10-32 UNF	6	2.953	1.476	1.235	1.417
IMC2-1690-7XD	.169	M5	6	3.346	1.772	1.519	1.417
IMC2-1719-7XD	.172	11/64	6	3.346	1.772	1.514	1.417
IMC2-1875-7XD	.188	3/16	6	3.543	1.969	1.688	1.417
IMC2-1890-7XD	.189	12-32 UNF	6	3.543	1.969	1.686	1.417
IMC2-2010-7XD	.201	M6	6	3.543	1.969	1.668	1.417
IMC2-2031-7XD	.203	13/64	6	3.543	1.969	1.664	1.417
IMC2-2188-7XD	.219	7/32	6	3.819	2.244	1.916	1.417
IMC2-2344-7XD	.234	15/64	6	3.819	2.244	1.892	1.417
IMC2-2500-7XD	.250	1/4	8	4.173	2.598	2.223	1.417
IMC2-2640-7XD	.264	5/16-18UNF	8	4.173	2.598	2.202	1.417
IMC2-2656-7XD	.266	17/64	8	4.173	2.598	2.200	1.417
IMC2-2800-7XD	.280	MF8x1	8	4.567	2.992	2.572	1.417
IMC2-2813-7XD	.281	9/32	8	4.567	2.992	2.570	1.417
IMC2-2969-7XD	.297	19/64	8	4.567	2.992	2.547	1.417
IMC2-3125-7XD	.313	5/16	8	4.567	2.992	2.523	1.417
IMC2-3281-7XD	.328	21/64	10	5.157	3.425	2.933	1.575
IMC2-3438-7XD	.344	11/32	10	5.157	3.425	2.909	1.575
IMC2-3594-7XD	.359	23/64	10	5.472	3.740	3.201	1.575
IMC2-3750-7XD	.375	3/8	10	5.472	3.740	3.178	1.575
IMC2-3906-7XD	.391	25/64	10	5.472	3.740	3.154	1.575
IMC2-3940-7XD	.394	7/16-20 UNF	12	6.102	4.173	3.582	1.772



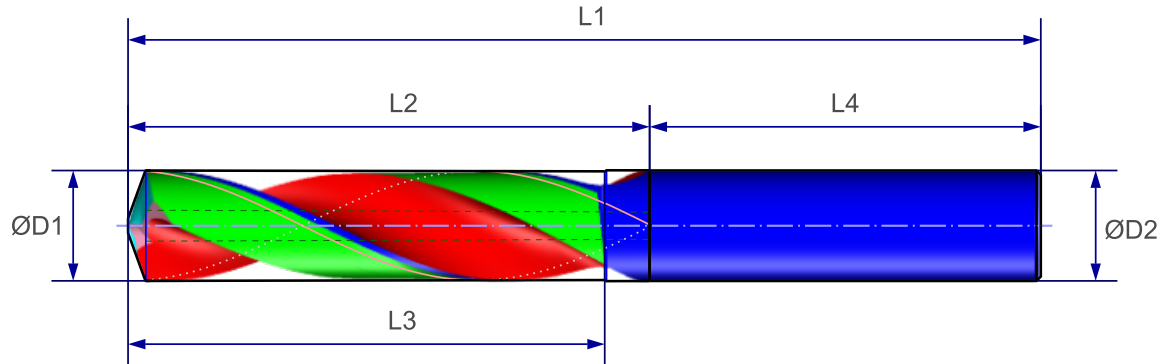
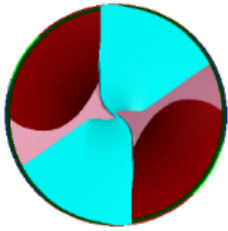
DESCRIPTION EXAMPLE... I=INCH, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IMC2-4063-7XD	.406	13/32	12	6.102	4.173	3.564	1.772
IMC2-4210-7XD	.421	MF12x1.5	12	6.102	4.173	3.542	1.772
IMC2-4375-7XD	.438	7/16	12	6.417	4.488	3.832	1.772
IMC2-4531-7XD	.453	29/64	12	6.417	4.488	3.808	1.772
IMC2-4570-7XD	.457	1/2-20 UNF	12	6.417	4.488	3.803	1.772
IMC2-4690-7XD	.469	15/32	12	6.417	4.488	3.785	1.772
IMC2-4844-7XD	.484	31/64	14	7.165	5.236	4.509	1.772
IMC2-5000-7XD	.500	1/2	14	7.165	5.236	4.486	1.772
IMC2-5469-7XD	.547	35/64	14	7.165	5.236	4.416	1.772
IMC2-5625-7XD	.563	9/16	16	8.031	5.984	5.140	1.890
IMC2-5781-7XD	.578	37/64	16	8.031	5.984	5.117	1.890
IMC2-5938-7XD	.594	19/32	16	8.031	5.984	5.093	1.890
IMC2-6094-7XD	.609	39/64	16	8.031	5.984	5.070	1.890
IMC2-6250-7XD	.625	5/8	16	8.031	5.984	5.047	1.890
IMC2-6875-7XD	.688	11/16	18	8.780	6.732	5.701	1.890
IMC2-7500-7XD	.750	3/4	20	9.606	7.480	6.355	1.969



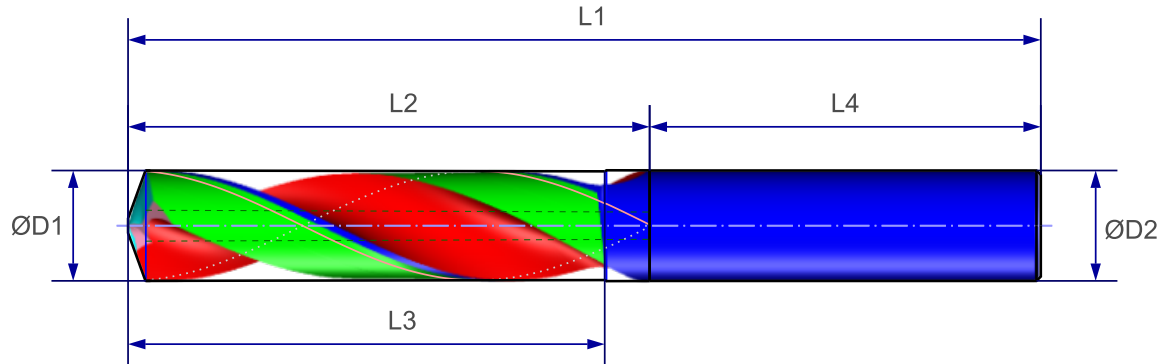
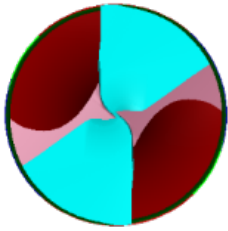
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-0300-3XD	3.00		6	62	20	15	36
MMS2-0310-3XD	3.10		6	62	20	15	36
MMS2-0320-3XD	3.20		6	62	20	15	36
MMS2-0330-3XD	3.30		6	62	20	15	36
MMS2-0340-3XD	3.40		6	62	20	14	36
MMS2-0350-3XD	3.50		6	62	20	14	36
MMS2-0360-3XD	3.60		6	62	20	14	36
MMS2-0370-3XD	3.70		6	62	20	14	36
MMS2-0380-3XD	3.80		6	66	24	18	36
MMS2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MMS2-0400-3XD	4.00		6	66	24	18	36
MMS2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MMS2-0420-3XD	4.20		6	66	24	17	36
MMS2-0430-3XD	4.30	M5	6	66	24	17	36
MMS2-0440-3XD	4.40		6	66	24	17	36
MMS2-0450-3XD	4.50		6	66	24	17	36
MMS2-0470-3XD	4.70		6	66	24	16	36
MMS2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MMS2-0490-3XD	4.90		6	66	28	20	36
MMS2-0500-3XD	5.00		6	66	28	20	36
MMS2-0510-3XD	5.10	M6	6	66	28	20	36
MMS2-0520-3XD	5.20		6	66	28	20	36
MMS2-0530-3XD	5.30		6	66	28	20	36
MMS2-0540-3XD	5.40		6	66	28	19	36
MMS2-0550-3XD	5.50		6	66	28	19	36
MMS2-0560-3XD	5.60		6	66	28	19	36



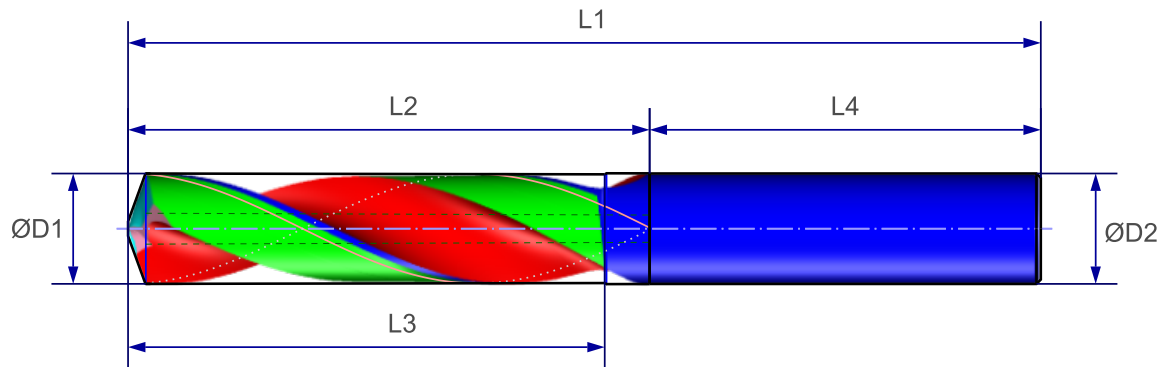
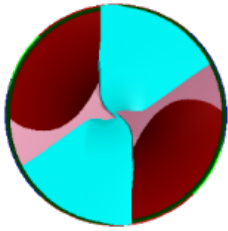
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-0570-3XD	5.70		6	66	28	19	36
MMS2-0580-3XD	5.80		6	66	28	19	36
MMS2-0590-3XD	5.90		6	66	28	19	36
MMS2-0600-3XD	6.00		8	79	34	25	36
MMS2-0610-3XD	6.10		8	79	34	24	36
MMS2-0620-3XD	6.20		8	79	34	24	36
MMS2-0630-3XD	6.30		8	79	34	24	36
MMS2-0640-3XD	6.40		8	79	34	24	36
MMS2-0650-3XD	6.50		8	79	34	24	36
MMS2-0660-3XD	6.60		8	79	34	24	36
MMS2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MMS2-0675-3XD	6.75		8	79	34	23	36
MMS2-0680-3XD	6.80		8	79	34	23	36
MMS2-0690-3XD	6.90		8	79	34	23	36
MMS2-0700-3XD	7.00		8	79	34	23	36
MMS2-0710-3XD	7.10	MF8x1	8	79	41	30	36
MMS2-0720-3XD	7.20		8	79	41	30	36
MMS2-0730-3XD	7.30		8	79	41	30	36
MMS2-0740-3XD	7.40		8	79	41	29	36
MMS2-0750-3XD	7.50		8	79	41	29	36
MMS2-0760-3XD	7.60		8	79	41	29	36
MMS2-0770-3XD	7.70		8	79	41	29	36
MMS2-0780-3XD	7.80		8	79	41	29	36
MMS2-0790-3XD	7.90		8	79	41	29	36
MMS2-0800-3XD	8.00		10	89	47	35	40
MMS2-0810-3XD	8.10		10	89	47	34	40



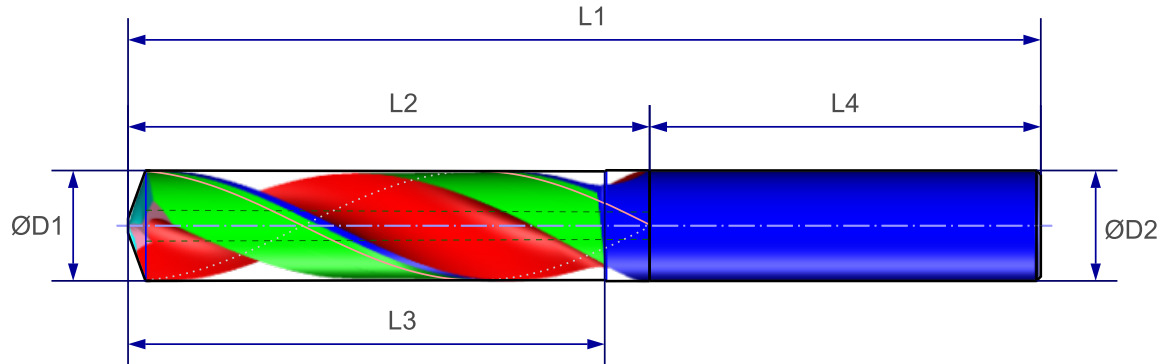
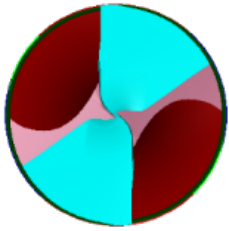
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-0820-3XD	8.20		10	89	47	34	40
MMS2-0830-3XD	8.30		10	89	47	34	40
MMS2-0840-3XD	8.40		10	89	47	34	40
MMS2-0850-3XD	8.50		10	89	47	34	40
MMS2-0860-3XD	8.60	3/8-24 UNF	10	89	47	34	40
MMS2-0870-3XD	8.70	M10	10	89	47	33	40
MMS2-0880-3XD	8.80		10	89	47	33	40
MMS2-0890-3XD	8.90	MF10x1.25	10	89	47	33	40
MMS2-0900-3XD	9.00		10	89	47	33	40
MMS2-0910-3XD	9.10		10	89	47	33	40
MMS2-0920-3XD	9.20		10	89	47	33	40
MMS2-0930-3XD	9.30		10	89	47	33	40
MMS2-0940-3XD	9.40		10	89	47	32	40
MMS2-0950-3XD	9.50		10	89	47	32	40
MMS2-0960-3XD	9.60		10	89	47	32	40
MMS2-0970-3XD	9.70		10	89	47	32	40
MMS2-0980-3XD	9.80		10	89	47	32	40
MMS2-0990-3XD	9.90		10	89	47	32	40
MMS2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MMS2-1010-3XD	10.10		12	102	55	39	45
MMS2-1020-3XD	10.20		12	102	55	39	45
MMS2-1030-3XD	10.30		12	102	55	39	45
MMS2-1040-3XD	10.40		12	102	55	39	45
MMS2-1050-3XD	10.50		12	102	55	39	45
MMS2-1060-3XD	10.60		12	102	55	39	45
MMS2-1070-3XD	10.70	MF12x1.5	12	102	55	38	45



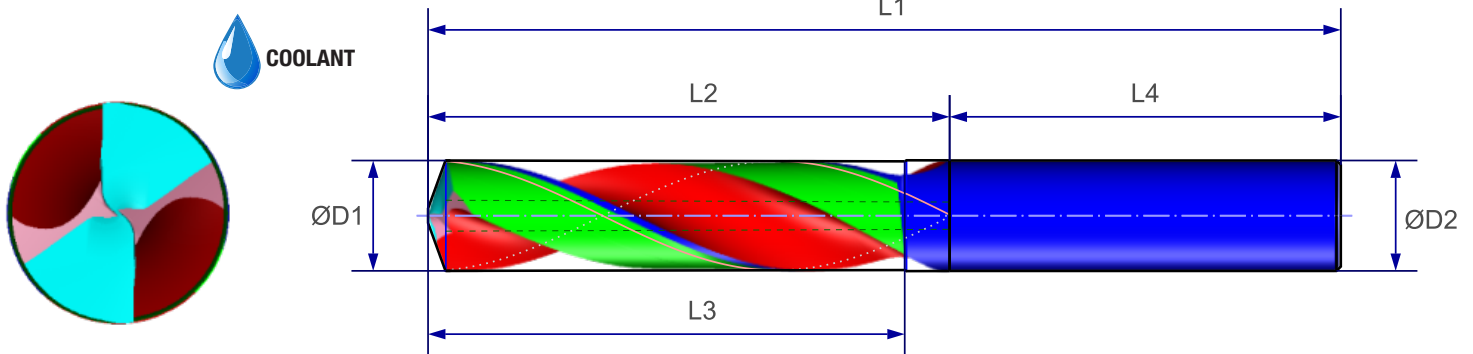
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-1080-3XD	10.80		12	102	55	38	45
MMS2-1090-3XD	10.90		12	102	55	38	45
MMS2-1100-3XD	11.00		12	102	55	38	45
MMS2-1110-3XD	11.10		12	102	55	38	45
MMS2-1120-3XD	11.20		12	102	55	38	45
MMS2-1140-3XD	11.40		12	102	55	37	45
MMS2-1150-3XD	11.50		12	102	55	37	45
MMS2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MMS2-1170-3XD	11.70		12	102	55	37	45
MMS2-1180-3XD	11.80		12	102	55	37	45
MMS2-1190-3XD	11.90		12	102	55	37	45
MMS2-1200-3XD	12.00		14	107	60	42	45
MMS2-1210-3XD	12.10		14	107	60	41	45
MMS2-1220-3XD	12.20		14	107	60	41	45
MMS2-1230-3XD	12.30		14	107	60	41	45
MMS2-1250-3XD	12.50		14	107	60	41	45
MMS2-1260-3XD	12.60		14	107	60	41	45
MMS2-1270-3XD	12.70		14	107	60	40	45
MMS2-1280-3XD	12.80		14	107	60	40	45
MMS2-1290-3XD	12.90		14	107	60	40	45
MMS2-1300-3XD	13.00		14	107	60	40	45
MMS2-1310-3XD	13.10		14	107	60	40	45
MMS2-1320-3XD	13.20		14	107	60	40	45
MMS2-1330-3XD	13.30		14	107	60	40	45
MMS2-1350-3XD	13.50		14	107	60	39	45
MMS2-1380-3XD	13.80		14	107	60	39	45



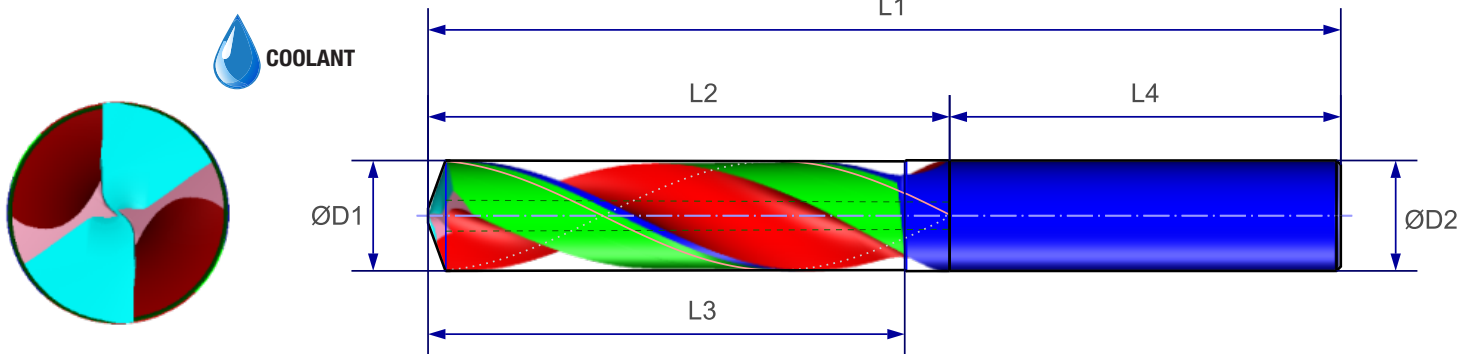
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-1400-3XD	14.00		16	115	65	44	48
MMS2-1410-3XD	14.10		16	115	65	43	48
MMS2-1420-3XD	14.20		16	115	65	43	48
MMS2-1430-3XD	14.30		16	115	65	43	48
MMS2-1440-3XD	14.40		16	115	65	43	48
MMS2-1450-3XD	14.50		16	115	65	43	48
MMS2-1460-3XD	14.60		16	115	65	43	48
MMS2-1480-3XD	14.80		16	115	65	42	48
MMS2-1500-3XD	15.00		16	115	65	42	48
MMS2-1510-3XD	15.10		16	115	65	42	48
MMS2-1520-3XD	15.20		16	115	65	42	48
MMS2-1530-3XD	15.30		16	115	65	42	48
MMS2-1540-3XD	15.40		16	115	65	41	48
MMS2-1550-3XD	15.50		16	115	65	41	48
MMS2-1560-3XD	15.60		16	115	65	41	48
MMS2-1570-3XD	15.70		16	115	65	41	48
MMS2-1580-3XD	15.80		16	115	65	41	48
MMS2-1590-3XD	15.90		16	115	65	41	48
MMS2-1600-3XD	16.00		18	123	73	49	48
MMS2-1610-3XD	16.10		18	123	73	48	48
MMS2-1650-3XD	16.50		18	123	73	48	48
MMS2-1700-3XD	17.00		18	131	79	53	48
MMS2-1750-3XD	17.50		18	131	79	52	48
MMS2-1770-3XD	17.70		18	131	79	52	48
MMS2-1800-3XD	18.00		20	131	79	52	50
MMS2-1840-3XD	18.40		20	131	79	51	50



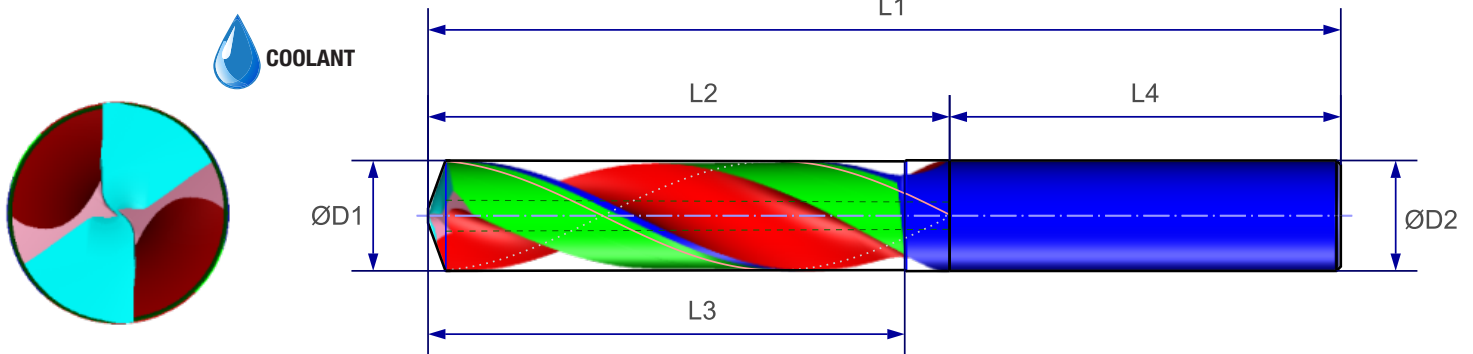
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, S=SOLID, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMS2-1850-3XD	18.50		20	131	79	51	50
MMS2-1900-3XD	19.00		20	131	79	50	50
MMS2-1910-3XD	19.10		20	131	79	50	50
MMS2-1920-3XD	19.20		20	131	79	50	50
MMS2-1930-3XD	19.30		20	131	79	50	50
MMS2-1950-3XD	19.50		20	131	79	49	50
MMS2-2000-3XD	20.00		20	131	79	49	50



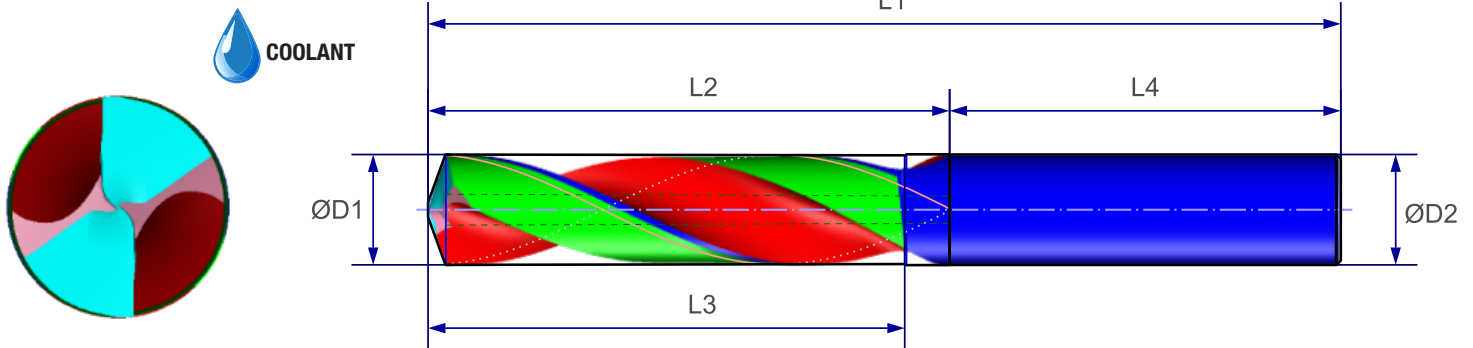
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0300-3XD	3.00		6	62	20	15	36
MMC2-0310-3XD	3.10		6	62	20	15	36
MMC2-0320-3XD	3.20		6	62	20	15	36
MMC2-0330-3XD	3.30		6	62	20	15	36
MMC2-0340-3XD	3.40		6	62	20	14	36
MMC2-0350-3XD	3.50		6	62	20	14	36
MMC2-0360-3XD	3.60		6	62	20	14	36
MMC2-0370-3XD	3.70		6	62	20	14	36
MMC2-0380-3XD	3.80		6	66	24	18	36
MMC2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MMC2-0400-3XD	4.00		6	66	24	18	36
MMC2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MMC2-0420-3XD	4.20		6	66	24	17	36
MMC2-0430-3XD	4.30	M5	6	66	24	17	36
MMC2-0440-3XD	4.40		6	66	24	17	36
MMC2-0450-3XD	4.50		6	66	24	17	36
MMC2-0470-3XD	4.70		6	66	24	16	36
MMC2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MMC2-0490-3XD	4.90		6	66	28	20	36
MMC2-0500-3XD	5.00		6	66	28	20	36
MMC2-0510-3XD	5.10	M6	6	66	28	20	36
MMC2-0520-3XD	5.20		6	66	28	20	36
MMC2-0530-3XD	5.30		6	66	28	20	36
MMC2-0540-3XD	5.40		6	66	28	19	36
MMC2-0550-3XD	5.50		6	66	28	19	36
MMC2-0560-3XD	5.60		6	66	28	19	36



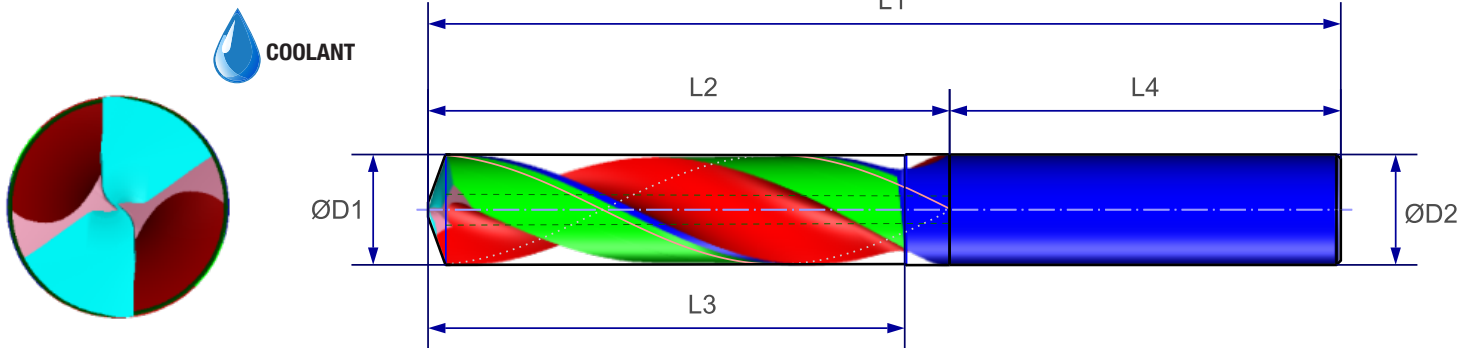
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0570-3XD	5.70		6	66	28	19	36
MMC2-0580-3XD	5.80		6	66	28	19	36
MMC2-0590-3XD	5.90		6	66	28	19	36
MMC2-0600-3XD	6.00		8	79	34	25	36
MMC2-0610-3XD	6.10		8	79	34	24	36
MMC2-0620-3XD	6.20		8	79	34	24	36
MMC2-0630-3XD	6.30		8	79	34	24	36
MMC2-0640-3XD	6.40		8	79	34	24	36
MMC2-0650-3XD	6.50		8	79	34	24	36
MMC2-0660-3XD	6.60		8	79	34	24	36
MMC2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MMC2-0675-3XD	6.75		8	79	34	23	36
MMC2-0680-3XD	6.80		8	79	34	23	36
MMC2-0690-3XD	6.90		8	79	34	23	36
MMC2-0700-3XD	7.00		8	79	34	23	36
MMC2-0710-3XD	7.10	MF8x1	8	79	41	30	36
MMC2-0720-3XD	7.20		8	79	41	30	36
MMC2-0730-3XD	7.30		8	79	41	30	36
MMC2-0740-3XD	7.40		8	79	41	29	36
MMC2-0750-3XD	7.50		8	79	41	29	36
MMC2-0760-3XD	7.60		8	79	41	29	36
MMC2-0770-3XD	7.70		8	79	41	29	36
MMC2-0780-3XD	7.80		8	79	41	29	36
MMC2-0790-3XD	7.90		8	79	41	29	36
MMC2-0800-3XD	8.00		10	89	47	35	40
MMC2-0810-3XD	8.10		10	89	47	34	40



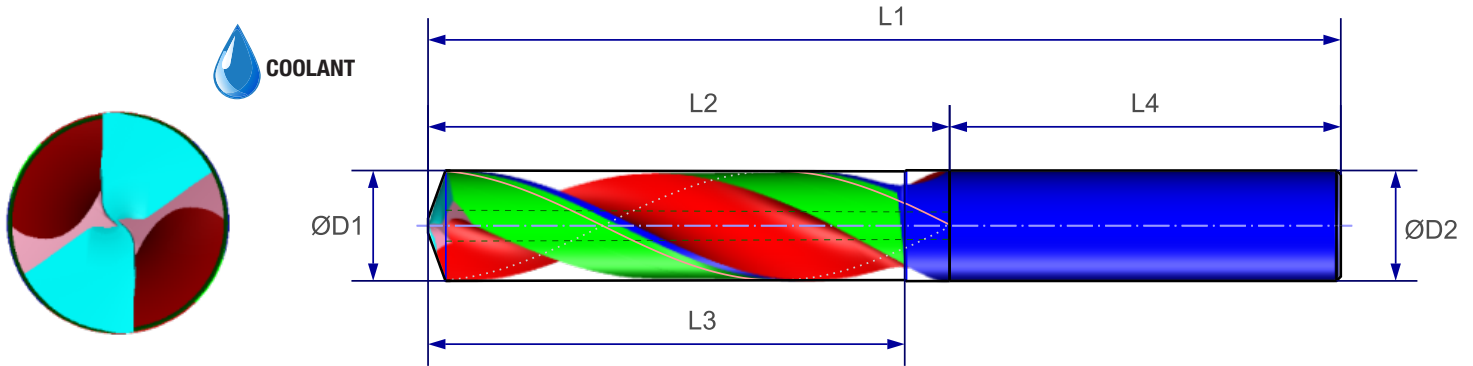
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0820-3XD	8.20		10	89	47	34	40
MMC2-0830-3XD	8.30		10	89	47	34	40
MMC2-0840-3XD	8.40		10	89	47	34	40
MMC2-0850-3XD	8.50		10	89	47	34	40
MMC2-0860-3XD	8.60	3/8-24 UNF	10	89	47	34	40
MMC2-0870-3XD	8.70	M10	10	89	47	33	40
MMC2-0880-3XD	8.80		10	89	47	33	40
MMC2-0890-3XD	8.90	MF10x1.25	10	89	47	33	40
MMC2-0900-3XD	9.00		10	89	47	33	40
MMC2-0910-3XD	9.10		10	89	47	33	40
MMC2-0920-3XD	9.20		10	89	47	33	40
MMC2-0930-3XD	9.30		10	89	47	33	40
MMC2-0940-3XD	9.40		10	89	47	32	40
MMC2-0950-3XD	9.50		10	89	47	32	40
MMC2-0960-3XD	9.60		10	89	47	32	40
MMC2-0970-3XD	9.70		10	89	47	32	40
MMC2-0980-3XD	9.80		10	89	47	32	40
MMC2-0990-3XD	9.90		10	89	47	32	40
MMC2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MMC2-1010-3XD	10.10		12	102	55	39	45
MMC2-1020-3XD	10.20		12	102	55	39	45
MMC2-1030-3XD	10.30		12	102	55	39	45
MMC2-1040-3XD	10.40		12	102	55	39	45
MMC2-1050-3XD	10.50		12	102	55	39	45
MMC2-1060-3XD	10.60		12	102	55	39	45
MMC2-1070-3XD	10.70	MF12x1.5	12	102	55	38	45



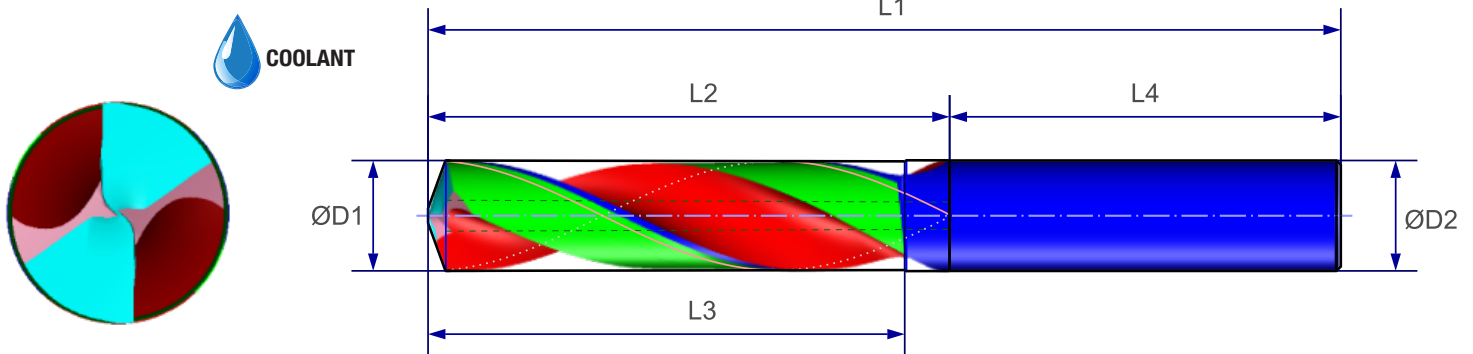
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1080-3XD	10.80		12	102	55	38	45
MMC2-1090-3XD	10.90		12	102	55	38	45
MMC2-1100-3XD	11.00		12	102	55	38	45
MMC2-1110-3XD	11.10		12	102	55	38	45
MMC2-1120-3XD	11.20		12	102	55	38	45
MMC2-1140-3XD	11.40		12	102	55	37	45
MMC2-1150-3XD	11.50		12	102	55	37	45
MMC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MMC2-1170-3XD	11.70		12	102	55	37	45
MMC2-1180-3XD	11.80		12	102	55	37	45
MMC2-1190-3XD	11.90		12	102	55	37	45
MMC2-1200-3XD	12.00		14	107	60	42	45
MMC2-1210-3XD	12.10		14	107	60	41	45
MMC2-1220-3XD	12.20		14	107	60	41	45
MMC2-1230-3XD	12.30		14	107	60	41	45
MMC2-1250-3XD	12.50		14	107	60	41	45
MMC2-1260-3XD	12.60		14	107	60	41	45
MMC2-1270-3XD	12.70		14	107	60	40	45
MMC2-1280-3XD	12.80		14	107	60	40	45
MMC2-1290-3XD	12.90		14	107	60	40	45
MMC2-1300-3XD	13.00		14	107	60	40	45
MMC2-1310-3XD	13.10		14	107	60	40	45
MMC2-1320-3XD	13.20		14	107	60	40	45
MMC2-1330-3XD	13.30		14	107	60	40	45
MMC2-1350-3XD	13.50		14	107	60	39	45
MMC2-1380-3XD	13.80		14	107	60	39	45



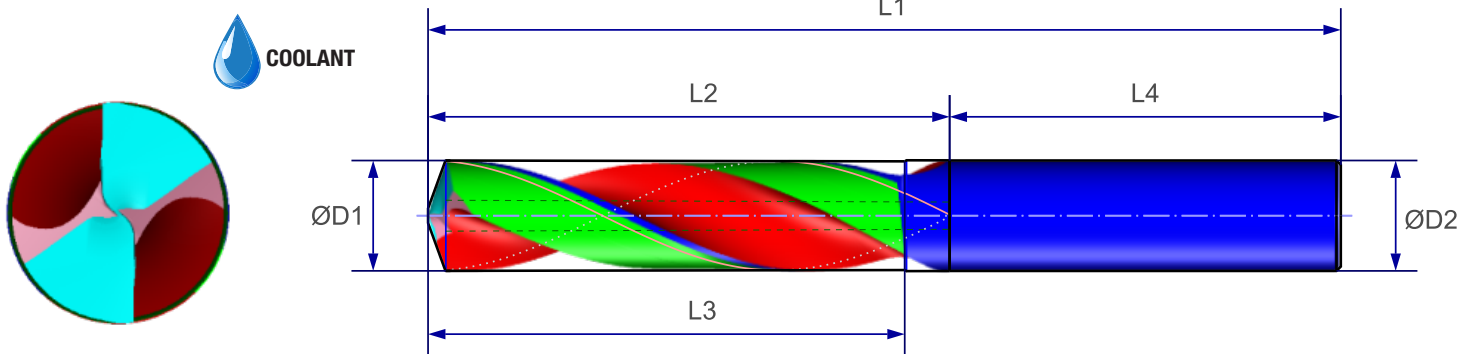
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1400-3XD	14.00		16	115	65	44	48
MMC2-1410-3XD	14.10		16	115	65	43	48
MMC2-1420-3XD	14.20		16	115	65	43	48
MMC2-1430-3XD	14.30		16	115	65	43	48
MMC2-1440-3XD	14.40		16	115	65	43	48
MMC2-1450-3XD	14.50		16	115	65	43	48
MMC2-1460-3XD	14.60		16	115	65	43	48
MMC2-1480-3XD	14.80		16	115	65	42	48
MMC2-1500-3XD	15.00		16	115	65	42	48
MMC2-1510-3XD	15.10		16	115	65	42	48
MMC2-1520-3XD	15.20		16	115	65	42	48
MMC2-1530-3XD	15.30		16	115	65	42	48
MMC2-1540-3XD	15.40		16	115	65	41	48
MMC2-1550-3XD	15.50		16	115	65	41	48
MMC2-1560-3XD	15.60		16	115	65	41	48
MMC2-1570-3XD	15.70		16	115	65	41	48
MMC2-1580-3XD	15.80		16	115	65	41	48
MMC2-1590-3XD	15.90		16	115	65	41	48
MMC2-1600-3XD	16.00		18	123	73	49	48
MMC2-1610-3XD	16.10		18	123	73	48	48
MMC2-1650-3XD	16.50		18	123	73	48	48
MMC2-1700-3XD	17.00		18	131	79	53	48
MMC2-1750-3XD	17.50		18	131	79	52	48
MMC2-1770-3XD	17.70		18	131	79	52	48
MMC2-1800-3XD	18.00		20	131	79	52	50
MMC2-1840-3XD	18.40		20	131	79	51	50



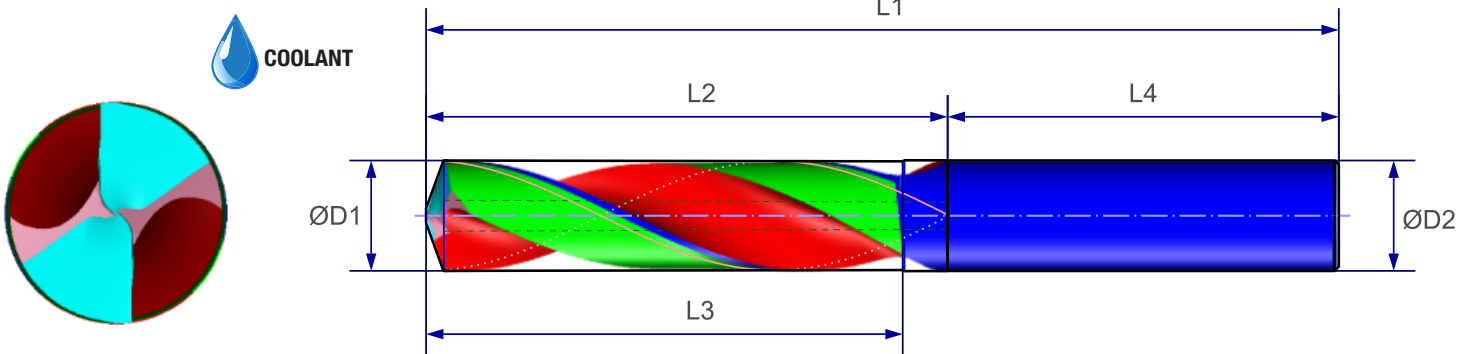
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1850-3XD	18.50		20	131	79	51	50
MMC2-1900-3XD	19.00		20	131	79	50	50
MMC2-1910-3XD	19.10		20	131	79	50	50
MMC2-1920-3XD	19.20		20	131	79	50	50
MMC2-1930-3XD	19.30		20	131	79	50	50
MMC2-1950-3XD	19.50		20	131	79	49	50
MMC2-2000-3XD	20.00		20	131	79	49	50



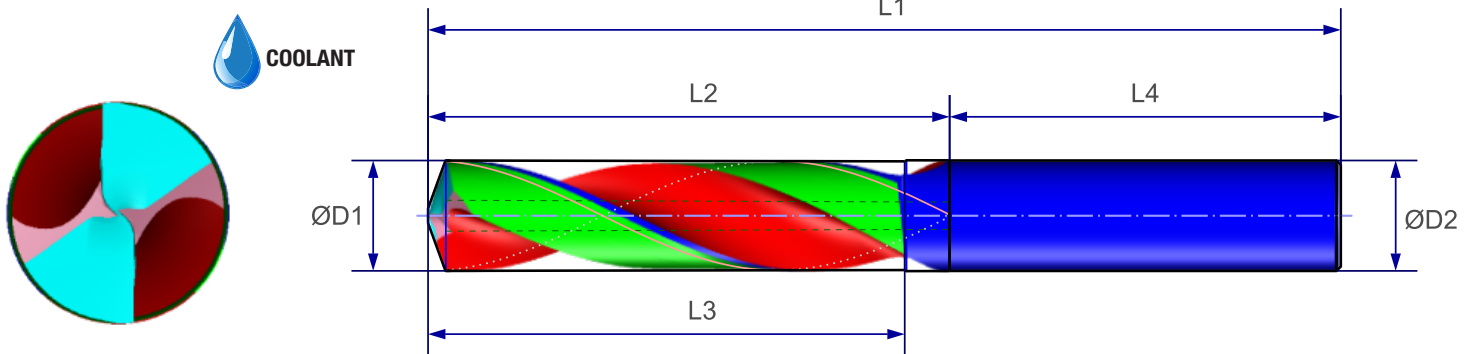
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0300-5XD	3.00		6	66	28	23	36
MMC2-0310-5XD	3.10		6	66	28	23	36
MMC2-0320-5XD	3.20		6	66	28	23	36
MMC2-0330-5XD	3.30		6	66	28	23	36
MMC2-0340-5XD	3.40		6	66	28	22	36
MMC2-0350-5XD	3.50		6	66	28	22	36
MMC2-0360-5XD	3.60		6	66	28	22	36
MMC2-0370-5XD	3.70		6	66	28	22	36
MMC2-0380-5XD	3.80		6	74	36	30	36
MMC2-0390-5XD	3.90	10-24 UNC	6	74	36	30	36
MMC2-0400-5XD	4.00		6	74	36	30	36
MMC2-0410-5XD	4.10	10-32 UNF	6	74	36	29	36
MMC2-0420-5XD	4.20		6	74	36	29	36
MMC2-0430-5XD	4.30	M5	6	74	36	29	36
MMC2-0440-5XD	4.40		6	74	36	29	36
MMC2-0450-5XD	4.50		6	74	36	29	36
MMC2-0470-5XD	4.70		6	74	36	28	36
MMC2-0480-5XD	4.80	12-32 UNF	6	82	44	36	36
MMC2-0490-5XD	4.90		6	82	44	36	36
MMC2-0500-5XD	5.00		6	82	44	36	36
MMC2-0510-5XD	5.10	M6	6	82	44	36	36
MMC2-0520-5XD	5.20		6	82	44	36	36
MMC2-0530-5XD	5.30		6	82	44	36	36
MMC2-0540-5XD	5.40		6	82	44	35	36
MMC2-0550-5XD	5.50		6	82	44	35	36



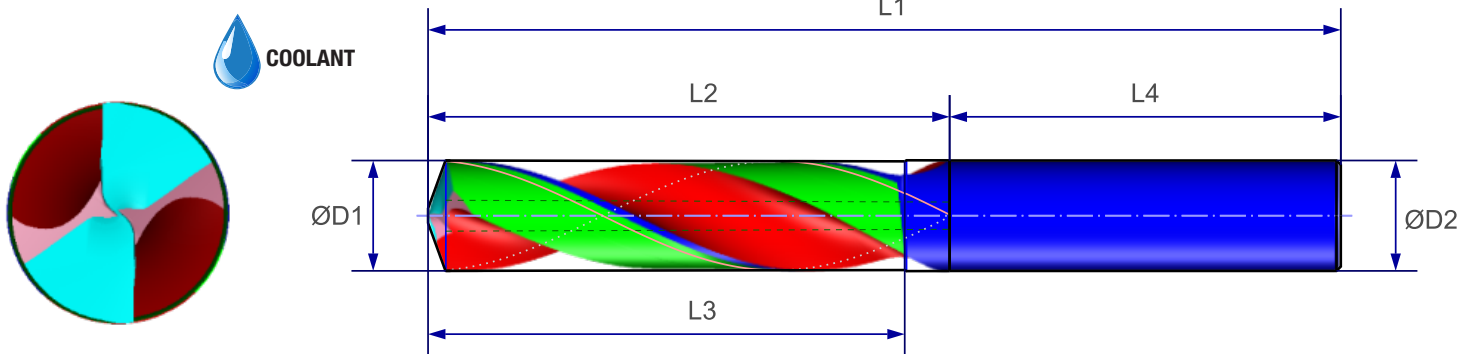
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0560-5XD	5.60		6	82	44	35	36
MMC2-0570-5XD	5.70		6	82	44	35	36
MMC2-0580-5XD	5.80		6	82	44	35	36
MMC2-0590-5XD	5.90		6	82	44	35	36
MMC2-0600-5XD	6.00		8	91	53	44	36
MMC2-0610-5XD	6.10		8	91	53	43	36
MMC2-0620-5XD	6.20		8	91	53	43	36
MMC2-0630-5XD	6.30		8	91	53	43	36
MMC2-0640-5XD	6.40		8	91	53	43	36
MMC2-0650-5XD	6.50		8	91	53	43	36
MMC2-0660-5XD	6.60		8	91	53	43	36
MMC2-0670-5XD	6.70	5/18-18UNF	8	91	53	42	36
MMC2-0675-5XD	6.75		8	91	53	42	36
MMC2-0680-5XD	6.80		8	91	53	42	36
MMC2-0690-5XD	6.90		8	91	53	42	36
MMC2-0700-5XD	7.00		8	91	53	42	36
MMC2-0710-5XD	7.10	MF8x1	8	91	53	42	36
MMC2-0720-5XD	7.20		8	91	53	42	36
MMC2-0730-5XD	7.30		8	91	53	42	36
MMC2-0740-5XD	7.40		8	91	53	41	36
MMC2-0750-5XD	7.50		8	91	53	41	36
MMC2-0760-5XD	7.60		8	91	53	41	36
MMC2-0770-5XD	7.70		8	91	53	41	36
MMC2-0780-5XD	7.80		8	91	53	41	36
MMC2-0790-5XD	7.90		8	91	53	41	36



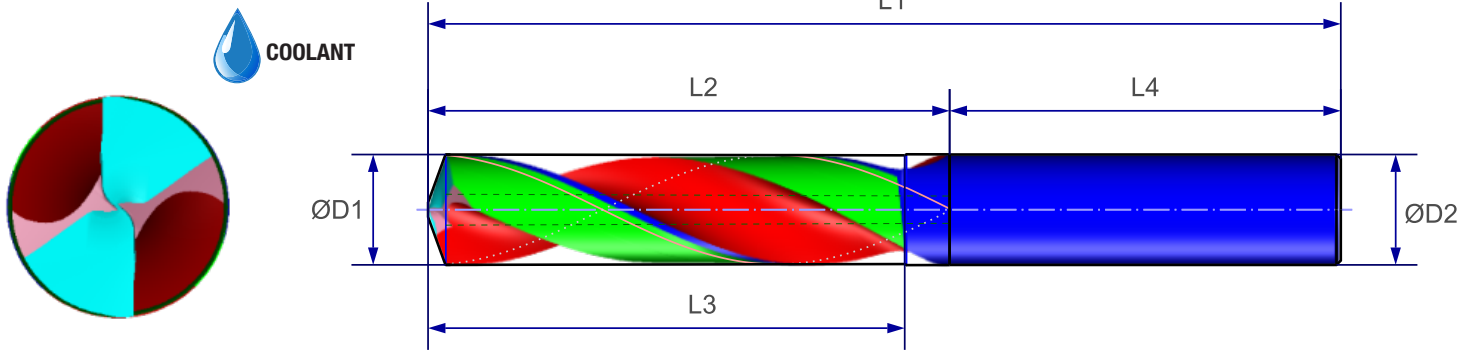
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0800-5XD	8.00		10	103	61	49	40
MMC2-0810-5XD	8.10		10	103	61	48	40
MMC2-0820-5XD	8.20		10	103	61	48	40
MMC2-0830-5XD	8.30		10	103	61	48	40
MMC2-0840-5XD	8.40		10	103	61	48	40
MMC2-0850-5XD	8.50		10	103	61	48	40
MMC2-0860-5XD	8.60	3/8-24 UNF	10	103	61	48	40
MMC2-0870-5XD	8.70	M10	10	103	61	47	40
MMC2-0880-5XD	8.80		10	103	61	47	40
MMC2-0890-5XD	8.90	MF10x1.25	10	103	61	47	40
MMC2-0900-5XD	9.00		10	103	61	47	40
MMC2-0910-5XD	9.10		10	103	61	47	40
MMC2-0920-5XD	9.20		10	103	61	47	40
MMC2-0930-5XD	9.30		10	103	61	47	40
MMC2-0940-5XD	9.40		10	103	61	46	40
MMC2-0950-5XD	9.50		10	103	61	46	40
MMC2-0960-5XD	9.60		10	103	61	46	40
MMC2-0970-5XD	9.70		10	103	61	46	40
MMC2-0980-5XD	9.80		10	103	61	46	40
MMC2-0990-5XD	9.90		10	103	61	46	40
MMC2-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MMC2-1010-5XD	10.10		12	118	71	55	45
MMC2-1020-5XD	10.20		12	118	71	55	45
MMC2-1030-5XD	10.30		12	118	71	55	45
MMC2-1040-5XD	10.40		12	118	71	55	45



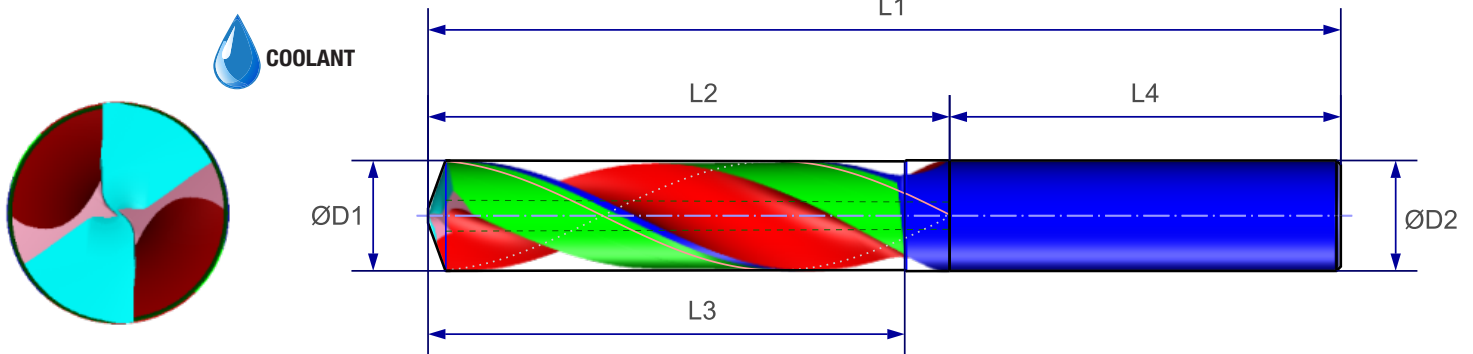
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1050-5XD	10.50		12	118	71	55	45
MMC2-1060-5XD	10.60		12	118	71	55	45
MMC2-1070-5XD	10.70	MF12x1.5	12	118	71	54	45
MMC2-1080-5XD	10.80		12	118	71	54	45
MMC2-1090-5XD	10.90		12	118	71	54	45
MMC2-1100-5XD	11.00		12	118	71	54	45
MMC2-1110-5XD	11.10		12	118	71	54	45
MMC2-1120-5XD	11.20		12	118	71	54	45
MMC2-1140-5XD	11.40		12	118	71	53	45
MMC2-1150-5XD	11.50		12	118	71	53	45
MMC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45
MMC2-1170-5XD	11.70		12	118	71	53	45
MMC2-1180-5XD	11.80		12	118	71	53	45
MMC2-1190-5XD	11.90		12	118	71	53	45
MMC2-1200-5XD	12.00		14	124	77	59	45
MMC2-1210-5XD	12.10		14	124	77	58	45
MMC2-1220-5XD	12.20		14	124	77	58	45
MMC2-1230-5XD	12.30		14	124	77	58	45
MMC2-1250-5XD	12.50		14	124	77	58	45
MMC2-1260-5XD	12.60		14	124	77	58	45
MMC2-1270-5XD	12.70		14	124	77	57	45
MMC2-1280-5XD	12.80		14	124	77	57	45
MMC2-1290-5XD	12.90		14	124	77	57	45
MMC2-1300-5XD	13.00		14	124	77	57	45
MMC2-1310-5XD	13.10		14	124	77	57	45



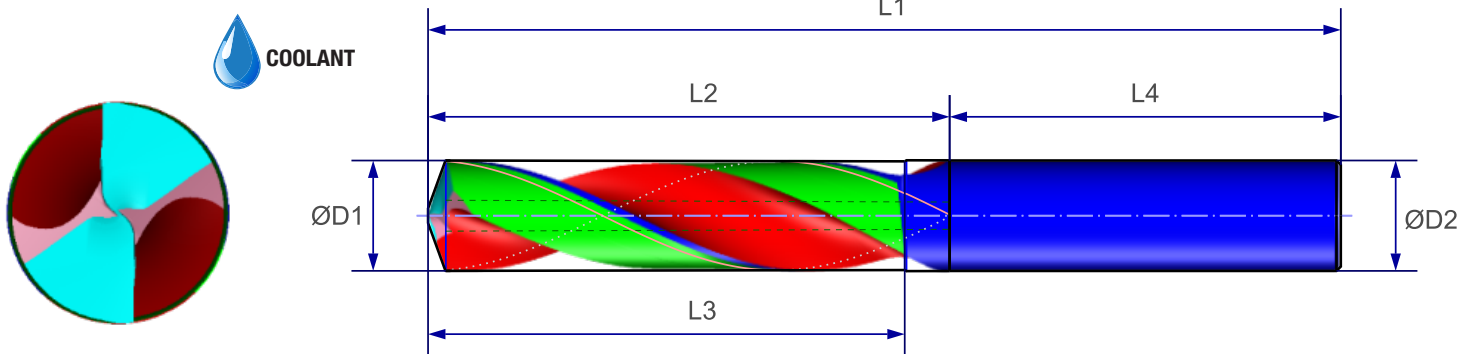
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1320-5XD	13.20		14	124	77	57	45
MMC2-1330-5XD	13.30		14	124	77	57	45
MMC2-1350-5XD	13.50		14	124	77	56	45
MMC2-1380-5XD	13.80		14	124	77	56	45
MMC2-1400-5XD	14.00		16	133	83	62	48
MMC2-1410-5XD	14.10		16	133	83	61	48
MMC2-1420-5XD	14.20		16	133	83	61	48
MMC2-1430-5XD	14.30		16	133	83	61	48
MMC2-1440-5XD	14.40		16	133	83	61	48
MMC2-1450-5XD	14.50		16	133	83	61	48
MMC2-1460-5XD	14.60		16	133	83	61	48
MMC2-1480-5XD	14.80		16	133	83	60	48
MMC2-1500-5XD	15.00		16	133	83	60	48
MMC2-1510-5XD	15.10		16	133	83	60	48
MMC2-1520-5XD	15.20		16	133	83	60	48
MMC2-1530-5XD	15.30		16	133	83	60	48
MMC2-1540-5XD	15.40		16	133	83	59	48
MMC2-1550-5XD	15.50		16	133	83	59	48
MMC2-1560-5XD	15.60		16	133	83	59	48
MMC2-1570-5XD	15.70		16	133	83	59	48
MMC2-1580-5XD	15.80		16	133	83	59	48
MMC2-1590-5XD	15.90		16	133	83	59	48
MMC2-1600-5XD	16.00		18	143	93	69	48
MMC2-1610-5XD	16.10		18	143	93	68	48
MMC2-1650-5XD	16.50		18	143	93	68	48



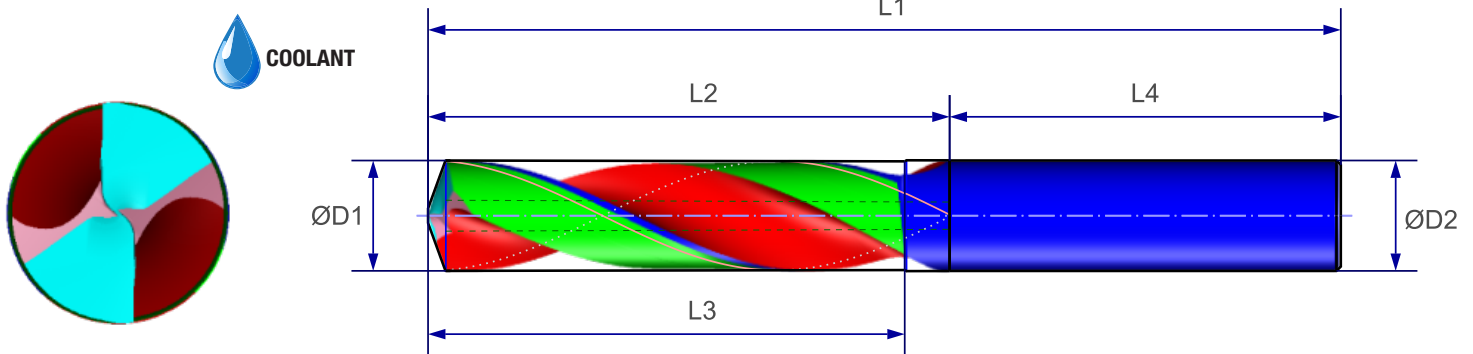
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1700-5XD	17.00		18	143	93	67	48
MMC2-1750-5XD	17.50		18	143	93	66	48
MMC2-1770-5XD	17.70		18	143	93	66	48
MMC2-1800-5XD	18.00		20	153	101	74	50
MMC2-1840-5XD	18.40		20	153	101	73	50
MMC2-1850-5XD	18.50		20	153	101	73	50
MMC2-1900-5XD	19.00		20	153	101	72	50
MMC2-1910-5XD	19.10		20	153	101	72	50
MMC2-1920-5XD	19.20		20	153	101	72	50
MMC2-1930-5XD	19.30		20	153	101	72	50
MMC2-1950-5XD	19.50		20	153	101	71	50
MMC2-2000-5XD	20.00		20	153	101	71	50



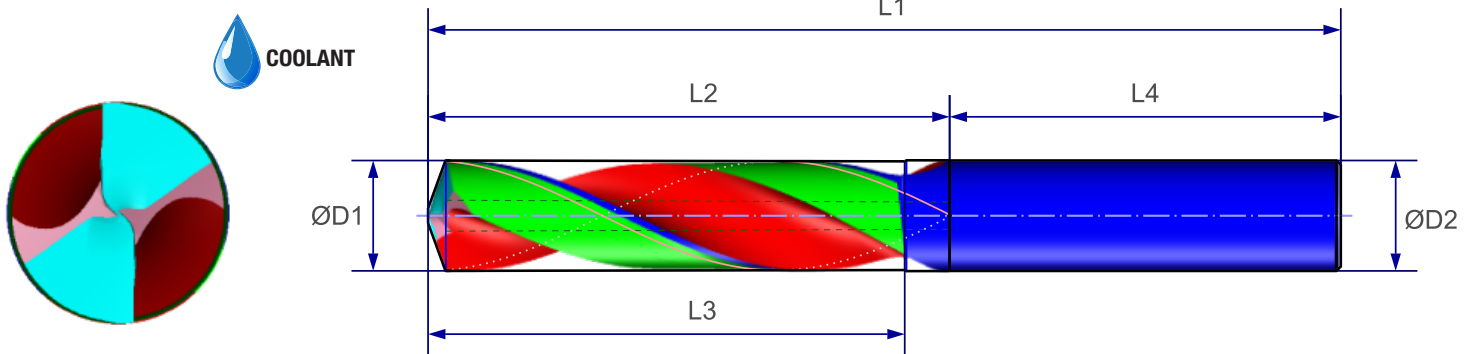
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0300-7XD	3.00		6	70	30	25	36
MMC2-0310-7XD	3.10		6	70	30	25	36
MMC2-0320-7XD	3.20		6	70	30	25	36
MMC2-0330-7XD	3.30		6	70	30	25	36
MMC2-0340-7XD	3.40		6	75	38	32	36
MMC2-0350-7XD	3.50		6	75	38	32	36
MMC2-0360-7XD	3.60		6	75	38	32	36
MMC2-0370-7XD	3.70		6	75	38	32	36
MMC2-0380-7XD	3.80		6	75	38	32	36
MMC2-0390-7XD	3.90	10-24 UNC	6	75	38	32	36
MMC2-0400-7XD	4.00		6	75	38	32	36
MMC2-0410-7XD	4.10	10-32 UNF	6	75	38	31	36
MMC2-0420-7XD	4.20		6	75	38	31	36
MMC2-0430-7XD	4.30	M5	6	85	45	38	36
MMC2-0440-7XD	4.40		6	85	45	38	36
MMC2-0450-7XD	4.50		6	85	45	38	36
MMC2-0470-7XD	4.70		6	85	45	37	36
MMC2-0480-7XD	4.80	12-32 UNF	6	90	50	42	36
MMC2-0490-7XD	4.90		6	90	50	42	36
MMC2-0500-7XD	5.00		6	90	50	42	36
MMC2-0510-7XD	5.10	M6	6	90	50	42	36
MMC2-0520-7XD	5.20		6	90	50	42	36
MMC2-0530-7XD	5.30		6	90	50	42	36
MMC2-0540-7XD	5.40		6	90	50	41	36
MMC2-0550-7XD	5.50		6	97	57	48	36



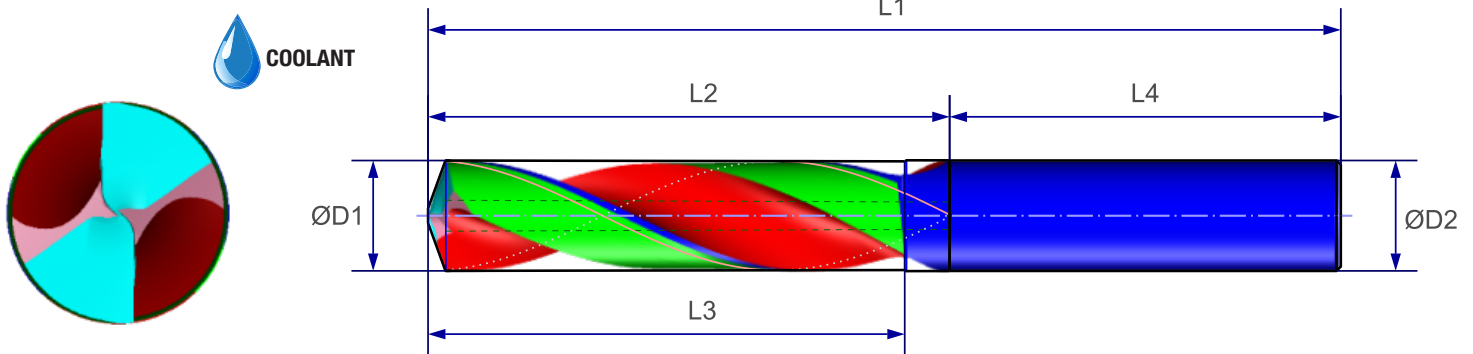
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0560-7XD	5.60		6	97	57	48	36
MMC2-0570-7XD	5.70		6	97	57	48	36
MMC2-0580-7XD	5.80		6	97	57	48	36
MMC2-0590-7XD	5.90		6	97	57	48	36
MMC2-0600-7XD	6.00		8	106	66	57	36
MMC2-0610-7XD	6.10		8	106	66	56	36
MMC2-0620-7XD	6.20		8	106	66	56	36
MMC2-0630-7XD	6.30		8	106	66	56	36
MMC2-0640-7XD	6.40		8	106	66	56	36
MMC2-0650-7XD	6.50		8	106	66	56	36
MMC2-0660-7XD	6.60		8	106	66	56	36
MMC2-0670-7XD	6.70	5/18-18UNF	8	106	66	55	36
MMC2-0675-7XD	6.75		8	106	66	55	36
MMC2-0680-7XD	6.80		8	106	66	55	36
MMC2-0690-7XD	6.90		8	116	76	65	36
MMC2-0700-7XD	7.00		8	116	76	65	36
MMC2-0710-7XD	7.10	MF8x1	8	116	76	65	36
MMC2-0720-7XD	7.20		8	116	76	65	36
MMC2-0730-7XD	7.30		8	116	76	65	36
MMC2-0740-7XD	7.40		8	116	76	64	36
MMC2-0750-7XD	7.50		8	116	76	64	36
MMC2-0760-7XD	7.60		8	116	76	64	36
MMC2-0770-7XD	7.70		8	116	76	64	36
MMC2-0780-7XD	7.80		8	116	76	64	36
MMC2-0790-7XD	7.90		8	116	76	64	36



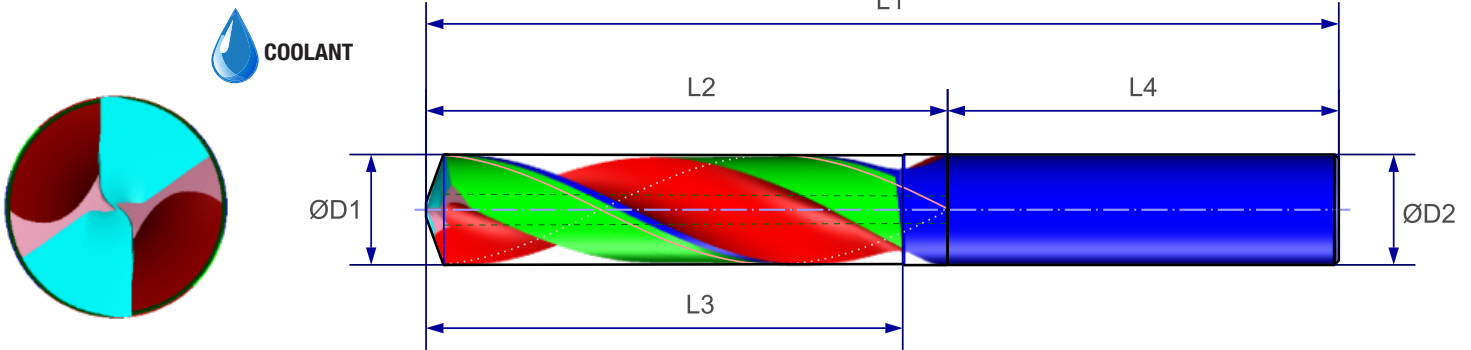
DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-0800-7XD	8.00		10	131	87	75	40
MMC2-0810-7XD	8.10		10	131	87	74	40
MMC2-0820-7XD	8.20		10	131	87	74	40
MMC2-0830-7XD	8.30		10	131	87	74	40
MMC2-0840-7XD	8.40		10	131	87	74	40
MMC2-0850-7XD	8.50		10	131	87	74	40
MMC2-0860-7XD	8.60	3/8-24 UNF	10	131	87	74	40
MMC2-0870-7XD	8.70	M10	10	131	87	73	40
MMC2-0880-7XD	8.80		10	131	87	73	40
MMC2-0890-7XD	8.90	MF10x1.25	10	131	87	73	40
MMC2-0900-7XD	9.00		10	131	87	73	40
MMC2-0910-7XD	9.10		10	139	95	81	40
MMC2-0920-7XD	9.20		10	139	95	81	40
MMC2-0930-7XD	9.30		10	139	95	81	40
MMC2-0940-7XD	9.40		10	139	95	80	40
MMC2-0950-7XD	9.50		10	139	95	80	40
MMC2-0960-7XD	9.60		10	139	95	80	40
MMC2-0970-7XD	9.70		10	139	95	80	40
MMC2-0980-7XD	9.80		10	139	95	80	40
MMC2-0990-7XD	9.90		10	139	95	80	40
MMC2-1000-7XD	10.00	7/16-20 UNF	12	155	106	91	45
MMC2-1010-7XD	10.10		12	155	106	90	45
MMC2-1020-7XD	10.20		12	155	106	90	45
MMC2-1030-7XD	10.30		12	155	106	90	45
MMC2-1040-7XD	10.40		12	155	106	90	45



DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1050-7XD	10.50		12	155	106	90	45
MMC2-1060-7XD	10.60		12	155	106	90	45
MMC2-1070-7XD	10.70	MF12x1.5	12	155	106	89	45
MMC2-1080-7XD	10.80		12	155	106	89	45
MMC2-1090-7XD	10.90		12	155	106	89	45
MMC2-1100-7XD	11.00		12	155	106	89	45
MMC2-1110-7XD	11.10		12	155	106	89	45
MMC2-1120-7XD	11.20		12	163	114	97	45
MMC2-1140-7XD	11.40		12	163	114	96	45
MMC2-1150-7XD	11.50		12	163	114	96	45
MMC2-1160-7XD	11.60	1/2-20 UNF	12	163	114	96	45
MMC2-1170-7XD	11.70		12	163	114	96	45
MMC2-1180-7XD	11.80		12	163	114	96	45
MMC2-1190-7XD	11.90		12	163	114	96	45
MMC2-1200-7XD	12.00		14	182	133	115	45
MMC2-1210-7XD	12.10		14	182	133	114	45
MMC2-1220-7XD	12.20		14	182	133	114	45
MMC2-1230-7XD	12.30		14	182	133	114	45
MMC2-1250-7XD	12.50		14	182	133	114	45
MMC2-1260-7XD	12.60		14	182	133	114	45
MMC2-1270-7XD	12.70		14	182	133	113	45
MMC2-1280-7XD	12.80		14	182	133	113	45
MMC2-1290-7XD	12.90		14	182	133	113	45
MMC2-1300-7XD	13.00		14	182	133	113	45
MMC2-1310-7XD	13.10		14	182	133	113	45



DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1320-7XD	13.20		14	182	133	113	45
MMC2-1330-7XD	13.30		14	182	133	113	45
MMC2-1350-7XD	13.50		14	182	133	112	45
MMC2-1380-7XD	13.80		14	182	133	112	45
MMC2-1400-7XD	14.00		16	204	152	131	48
MMC2-1410-7XD	14.10		16	204	152	130	48
MMC2-1420-7XD	14.20		16	204	152	130	48
MMC2-1430-7XD	14.30		16	204	152	130	48
MMC2-1440-7XD	14.40		16	204	152	130	48
MMC2-1450-7XD	14.50		16	204	152	130	48
MMC2-1460-7XD	14.60		16	204	152	130	48
MMC2-1480-7XD	14.80		16	204	152	129	48
MMC2-1500-7XD	15.00		16	204	152	129	48
MMC2-1510-7XD	15.10		16	204	152	129	48
MMC2-1520-7XD	15.20		16	204	152	129	48
MMC2-1530-7XD	15.30		16	204	152	129	48
MMC2-1540-7XD	15.40		16	204	152	128	48
MMC2-1550-7XD	15.50		16	204	152	128	48
MMC2-1560-7XD	15.60		16	204	152	128	48
MMC2-1570-7XD	15.70		16	204	152	128	48
MMC2-1580-7XD	15.80		16	204	152	128	48
MMC2-1590-7XD	15.90		16	204	152	128	48
MMC2-1600-7XD	16.00		18	223	171	147	48
MMC2-1610-7XD	16.10		18	223	171	146	48
MMC2-1650-7XD	16.50		18	223	171	146	48

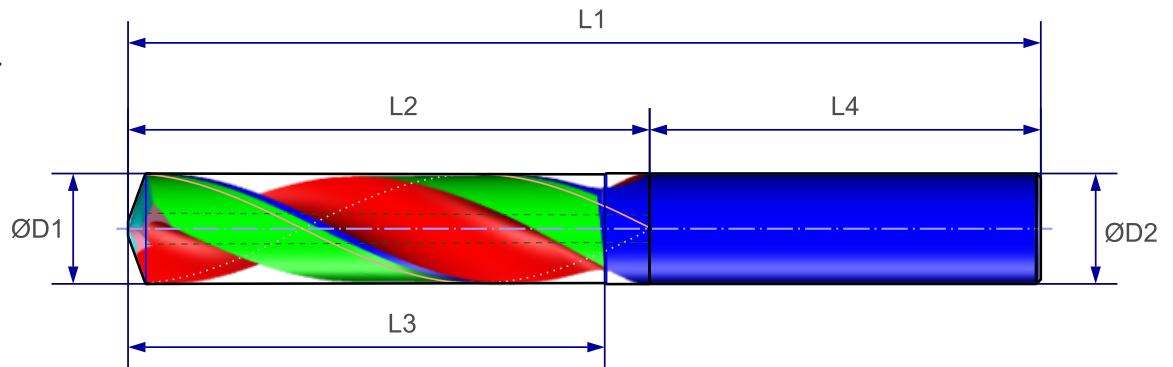
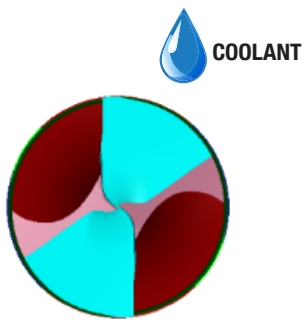


DESCRIPTION EXAMPLE... M=METRIC, M=STAINLESS STEEL, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MMC2-1700-7XD	17.00		18	223	171	145	48
MMC2-1750-7XD	17.50		18	223	171	144	48
MMC2-1770-7XD	17.70		18	223	171	144	48
MMC2-1800-7XD	18.00		20	244	190	163	50
MMC2-1840-7XD	18.40		20	244	190	162	50
MMC2-1850-7XD	18.50		20	244	190	162	50
MMC2-1900-7XD	19.00		20	244	190	161	50
MMC2-1910-7XD	19.10		20	244	190	161	50
MMC2-1920-7XD	19.20		20	244	190	161	50
MMC2-1930-7XD	19.30		20	244	190	161	50
MMC2-1950-7XD	19.50		20	244	190	160	50
MMC2-2000-7XD	20.00		20	244	190	160	50

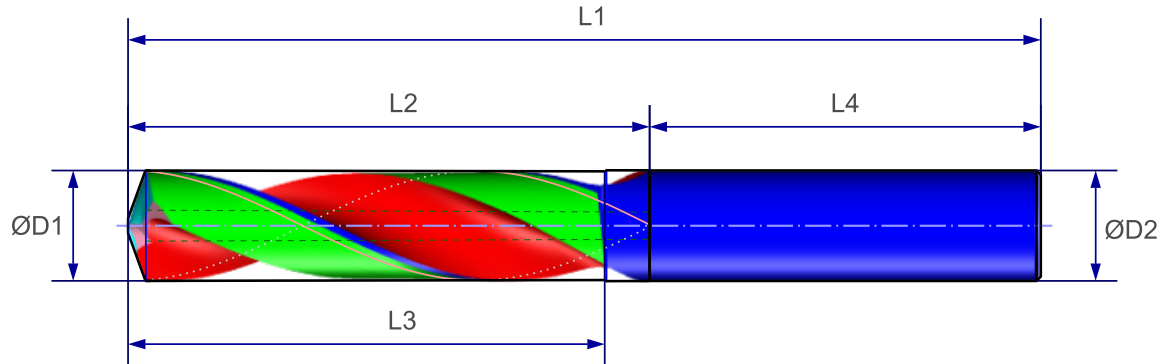
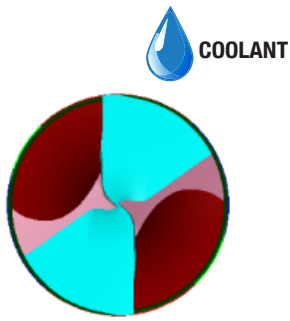
SPEED & FEED

Tool Diameter	
inch	0.125 0.188 0.25 0.313 0.375 0.5 0.625 0.75
mm	3.0 4.0 6.0 8.0 10.0 12.0 16.0 20.0

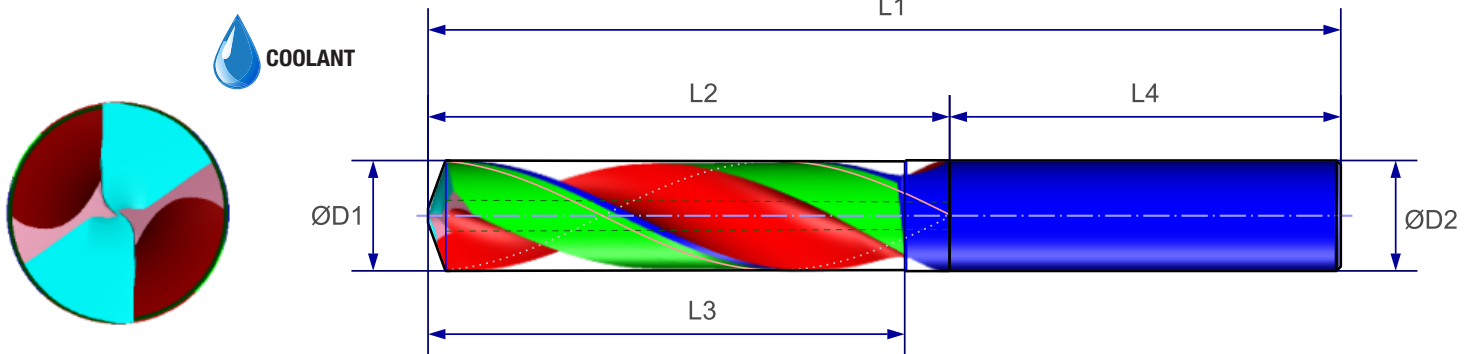
Austenitic Stainless Steel		Tensile Strength RM (MPa): <650				Hardness (HB) or HRC: 130 - 200							
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	95	125	150	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	190	250	300	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011
High Strength Austenitic Stainless & Cast Stainless		Content C = .05%-.15% Tensile Strength RM (Mpa):500-700				Hardness (HB) or HRC:150-230							
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	75	125	130	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	150	250	260	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011
Duplex Steel		Content C = .05-.2% Tensile Strength RM (Mpa) < 900				Hardness (HP) or HRC: 135-275							
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	60	85	110	IPR	.004-.006	.004-.008	.005-.009	.006-.011	.007-.013	.008-.015	.010-.017	.011-.019
SFM	Thru-Coolant	120	190	220	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011



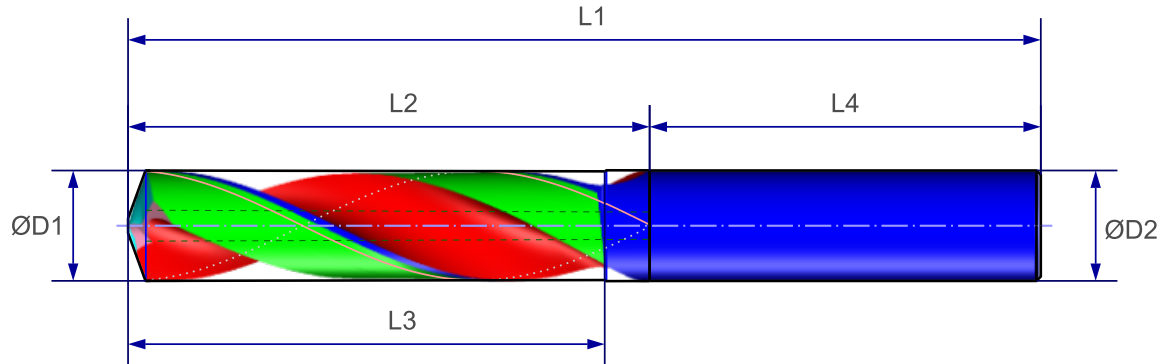
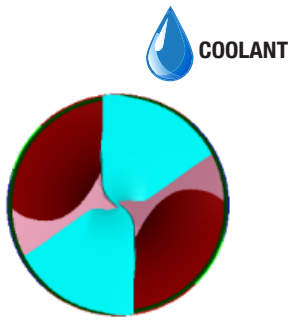
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IKC2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IKC2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IKC2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IKC2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IKC2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IKC2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IKC2-2640-3XD	.264	5/18-18UNF	8	3.110	1.339	0.943	1.417
IKC2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IKC2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IKC2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IKC2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IKC2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IKC2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IKC2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IKC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IKC2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IKC2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IKC2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772
IKC2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IKC2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IKC2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IKC2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IKC2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772



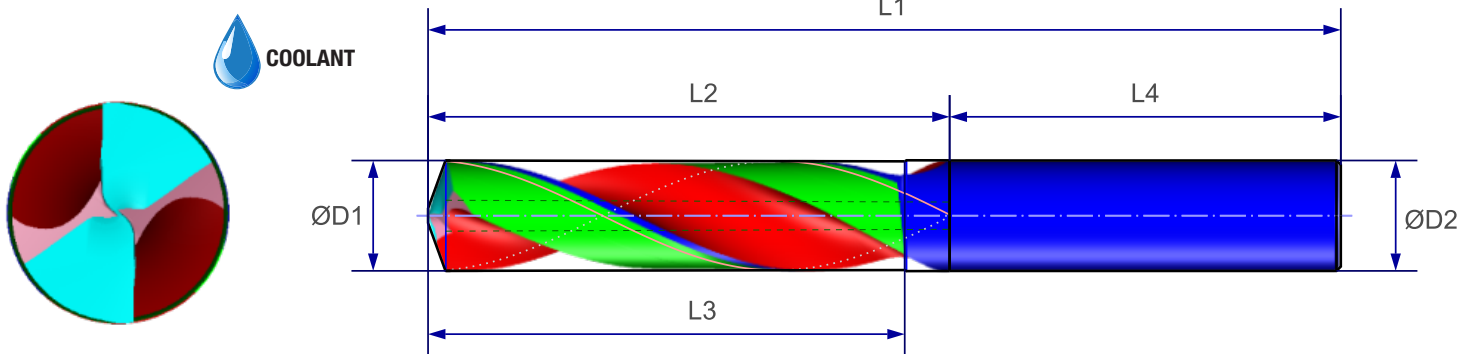
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IKC2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IKC2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IKC2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IKC2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IKC2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IKC2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IKC2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IKC2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IKC2-6875-3XD	.688	11/16	18	4.843	2.874	1.843	1.890
IKC2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



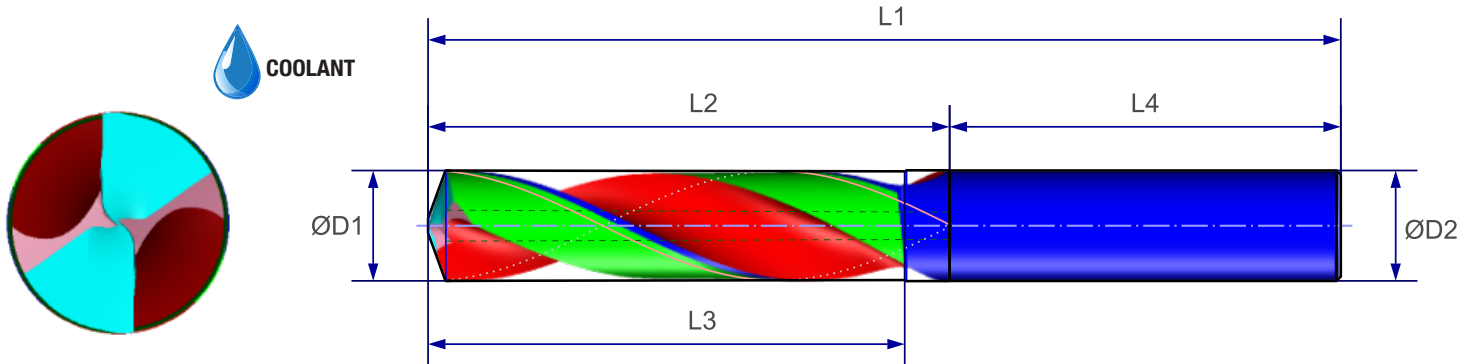
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-1875-5XD	.188	3/16	6	3.228	1.732	1.451	1.417
IKC2-1890-5XD	.189	12-32 UNF	6	3.228	1.732	1.449	1.417
IKC2-2010-5XD	.201	M6	6	3.228	1.732	1.431	1.417
IKC2-2031-5XD	.203	13/64	6	3.228	1.732	1.427	1.417
IKC2-2188-5XD	.219	7/32	6	3.228	1.732	1.404	1.417
IKC2-2344-5XD	.234	15/64	6	3.228	1.732	1.380	1.417
IKC2-2500-5XD	.250	1/4	8	3.583	2.087	1.712	1.417
IKC2-2640-5XD	.264	5/18-18UNF	8	3.583	2.087	1.691	1.417
IKC2-2656-5XD	.266	17/64	8	3.583	2.087	1.689	1.417
IKC2-2800-5XD	.280	MF8x1	8	3.583	2.087	1.667	1.417
IKC2-2813-5XD	.281	9/32	8	3.583	2.087	1.665	1.417
IKC2-2969-5XD	.297	19/64	8	3.583	2.087	1.642	1.417
IKC2-3125-5XD	.313	5/16	8	3.583	2.087	1.618	1.417
IKC2-3281-5XD	.328	21/64	10	4.055	2.402	1.910	1.575
IKC2-3438-5XD	.344	11/32	10	4.055	2.402	1.886	1.575
IKC2-3594-5XD	.359	23/64	10	4.055	2.402	1.863	1.575
IKC2-3750-5XD	.375	3/8	10	4.055	2.402	1.840	1.575
IKC2-3906-5XD	.391	25/64	10	4.055	2.402	1.816	1.575
IKC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.204	1.772
IKC2-4063-5XD	.406	13/32	12	4.646	2.795	2.186	1.772
IKC2-4210-5XD	.421	MF12x1.5	12	4.646	2.795	2.164	1.772
IKC2-4375-5XD	.438	7/16	12	4.646	2.795	2.139	1.772
IKC2-4531-5XD	.453	29/64	12	4.646	2.795	2.115	1.772
IKC2-4570-5XD	.457	1/2-20 UNF	12	4.646	2.795	2.110	1.772
IKC2-4690-5XD	.469	15/32	12	4.646	2.795	2.092	1.772



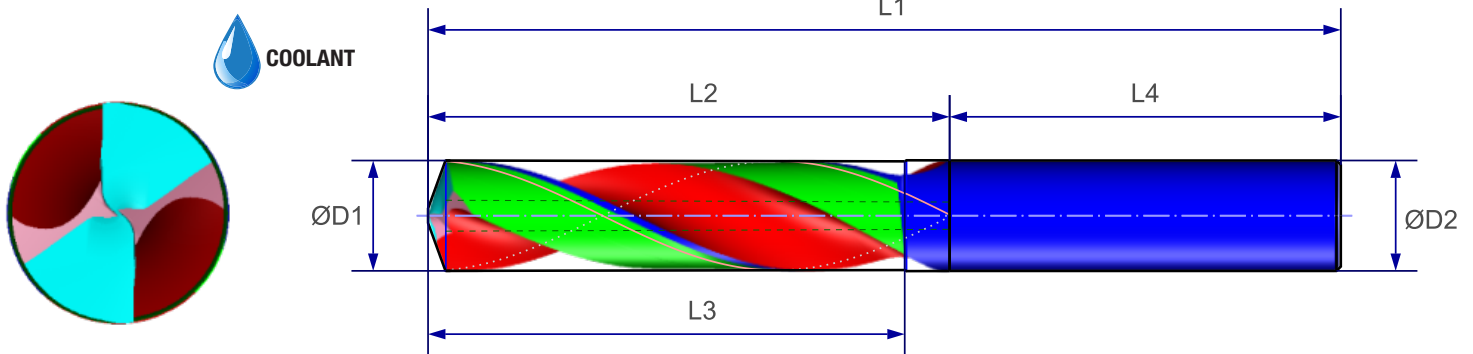
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-4844-5XD	.484	31/64	14	4.882	3.031	2.304	1.772
IKC2-5000-5XD	.500	1/2	14	4.882	3.031	2.281	1.772
IKC2-5469-5XD	.547	35/64	14	4.882	3.031	2.211	1.772
IKC2-5625-5XD	.563	9/16	16	5.236	3.268	2.424	1.890
IKC2-5781-5XD	.578	37/64	16	5.236	3.268	2.401	1.890
IKC2-5938-5XD	.594	19/32	16	5.236	3.268	2.377	1.890
IKC2-6094-5XD	.609	39/64	16	5.236	3.268	2.354	1.890
IKC2-6250-5XD	.625	5/8	16	5.236	3.268	2.331	1.890
IKC2-6875-5XD	.688	11/16	18	5.630	3.661	2.630	1.890
IKC2-7500-5XD	.750	3/4	20	6.024	3.976	2.851	1.969



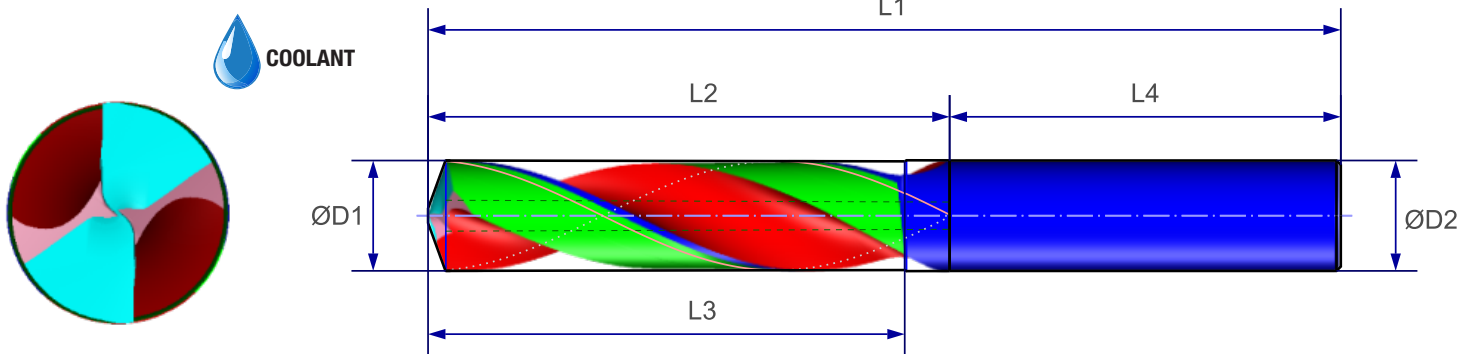
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-1875-7XD	.188	3/16	6	3.543	1.969	0.821	1.417
IKC2-1890-7XD	.189	12-32 UNF	6	3.543	1.969	0.819	1.417
IKC2-2010-7XD	.201	M6	6	3.543	1.969	0.801	1.417
IKC2-2031-7XD	.203	13/64	6	3.543	1.969	0.797	1.417
IKC2-2188-7XD	.219	7/32	6	3.819	2.244	0.774	1.417
IKC2-2344-7XD	.234	15/64	6	3.819	2.244	0.750	1.417
IKC2-2500-7XD	.250	1/4	8	4.173	2.598	0.964	1.417
IKC2-2640-7XD	.264	5/18-18UNF	8	4.173	2.598	0.943	1.417
IKC2-2656-7XD	.266	17/64	8	4.173	2.598	0.941	1.417
IKC2-2800-7XD	.280	MF8x1	8	4.567	2.992	1.194	1.417
IKC2-2813-7XD	.281	9/32	8	4.567	2.992	1.192	1.417
IKC2-2969-7XD	.297	19/64	8	4.567	2.992	1.169	1.417
IKC2-3125-7XD	.313	5/16	8	4.567	2.992	1.145	1.417
IKC2-3281-7XD	.328	21/64	10	5.157	3.425	1.358	1.575
IKC2-3438-7XD	.344	11/32	10	5.157	3.425	1.334	1.575
IKC2-3594-7XD	.359	23/64	10	5.472	3.740	1.311	1.575
IKC2-3750-7XD	.375	3/8	10	5.472	3.740	1.288	1.575
IKC2-3906-7XD	.391	25/64	10	5.472	3.740	1.264	1.575
IKC2-3940-7XD	.394	7/16-20 UNF	12	6.102	4.173	1.574	1.772
IKC2-4063-7XD	.406	13/32	12	6.102	4.173	1.556	1.772
IKC2-4210-7XD	.421	MF12x1.5	12	6.102	4.173	1.534	1.772
IKC2-4375-7XD	.438	7/16	12	6.417	4.488	1.509	1.772
IKC2-4531-7XD	.453	29/64	12	6.417	4.488	1.485	1.772
IKC2-4570-7XD	.457	1/2-20 UNF	12	6.417	4.488	1.480	1.772
IKC2-4690-7XD	.469	15/32	12	6.417	4.488	1.462	1.772



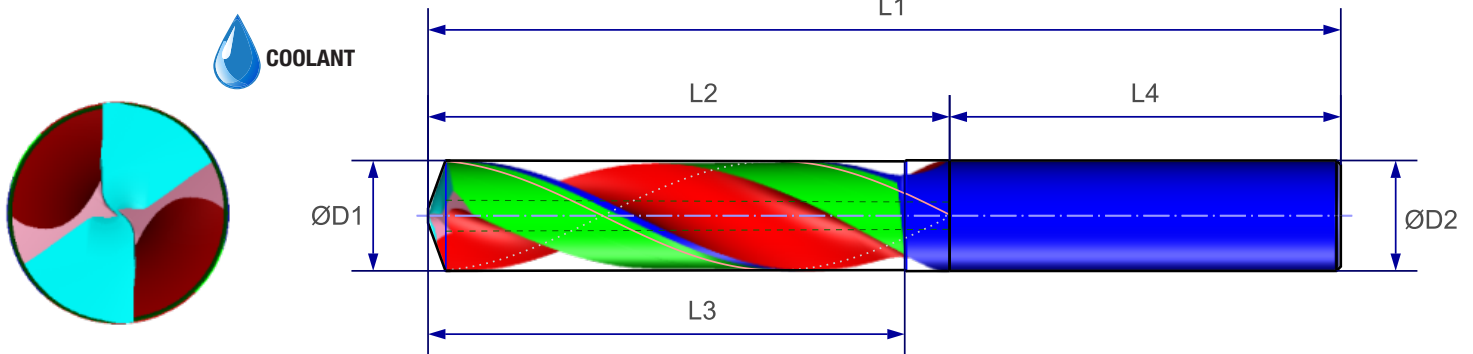
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKC2-4844-7XD	.484	31/64	14	7.165	5.236	1.635	1.772
IKC2-5000-7XD	.500	1/2	14	7.165	5.236	1.612	1.772
IKC2-5469-7XD	.547	35/64	14	7.165	5.236	1.542	1.772
IKC2-5625-7XD	.563	9/16	16	8.031	5.984	1.715	1.890
IKC2-5781-7XD	.578	37/64	16	8.031	5.984	1.692	1.890
IKC2-5938-7XD	.594	19/32	16	8.031	5.984	1.668	1.890
IKC2-6094-7XD	.609	39/64	16	8.031	5.984	1.645	1.890
IKC2-6250-7XD	.625	5/8	16	8.031	5.984	1.622	1.890
IKC2-6875-7XD	.688	11/16	18	8.780	6.732	1.843	1.890
IKC2-7500-7XD	.750	3/4	20	9.606	7.480	1.985	1.969



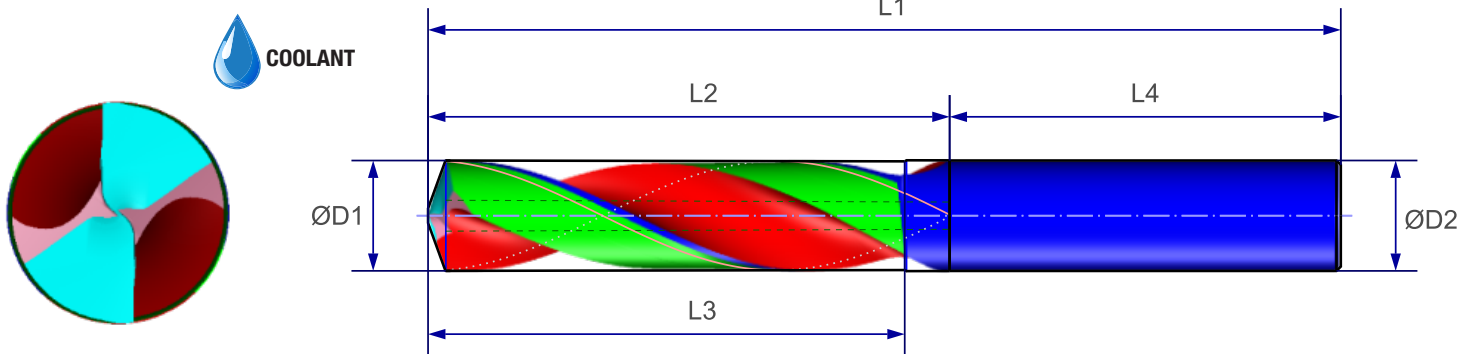
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0300-3XD	3.00		6	62	20	15	36
MKC2-0310-3XD	3.10		6	62	20	15	36
MKC2-0320-3XD	3.20		6	62	20	15	36
MKC2-0330-3XD	3.30		6	62	20	15	36
MKC2-0340-3XD	3.40		6	62	20	14	36
MKC2-0350-3XD	3.50		6	62	20	14	36
MKC2-0360-3XD	3.60		6	62	20	14	36
MKC2-0370-3XD	3.70		6	62	20	14	36
MKC2-0380-3XD	3.80		6	66	24	18	36
MKC2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MKC2-0400-3XD	4.00		6	66	24	18	36
MKC2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MKC2-0420-3XD	4.20		6	66	24	17	36
MKC2-0430-3XD	4.30	M5	6	66	24	17	36
MKC2-0440-3XD	4.40		6	66	24	17	36
MKC2-0450-3XD	4.50		6	66	24	17	36
MKC2-0470-3XD	4.70		6	66	24	16	36
MKC2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MKC2-0490-3XD	4.90		6	66	28	20	36
MKC2-0500-3XD	5.00		6	66	28	20	36
MKC2-0510-3XD	5.10	M6	6	66	28	20	36
MKC2-0520-3XD	5.20		6	66	28	20	36
MKC2-0530-3XD	5.30		6	66	28	20	36
MKC2-0540-3XD	5.40		6	66	28	19	36
MKC2-0550-3XD	5.50		6	66	28	19	36



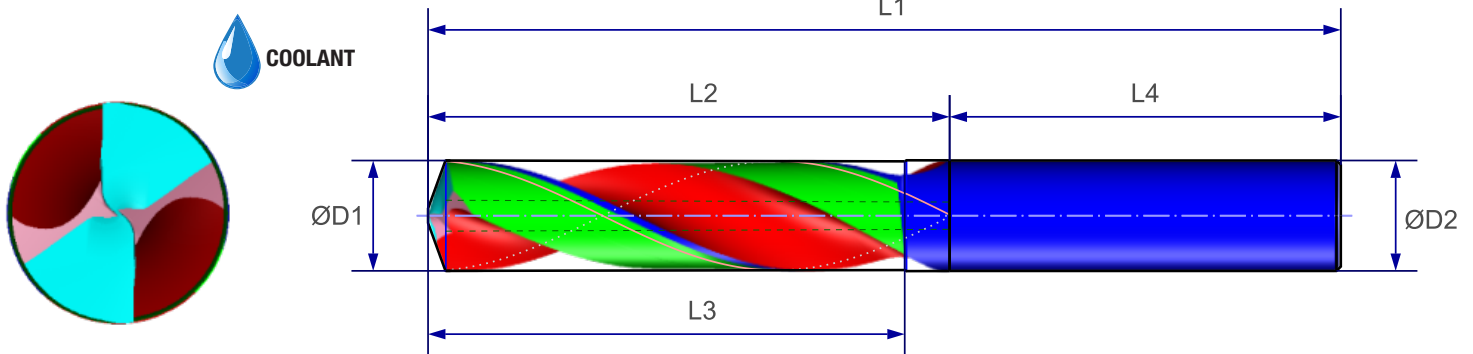
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0560-3XD	5.60		6	66	28	19	36
MKC2-0570-3XD	5.70		6	66	28	19	36
MKC2-0580-3XD	5.80		6	66	28	19	36
MKC2-0590-3XD	5.90		6	66	28	19	36
MKC2-0600-3XD	6.00		8	79	34	25	36
MKC2-0610-3XD	6.10		8	79	34	24	36
MKC2-0620-3XD	6.20		8	79	34	24	36
MKC2-0630-3XD	6.30		8	79	34	24	36
MKC2-0640-3XD	6.40		8	79	34	24	36
MKC2-0650-3XD	6.50		8	79	34	24	36
MKC2-0660-3XD	6.60		8	79	34	24	36
MKC2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MKC2-0675-3XD	6.75		8	79	34	23	36
MKC2-0680-3XD	6.80		8	79	34	23	36
MKC2-0690-3XD	6.90		8	79	34	23	36
MKC2-0700-3XD	7.00		8	79	34	23	36
MKC2-0710-3XD	7.10	MF8x1	8	79	41	30	36
MKC2-0720-3XD	7.20		8	79	41	30	36
MKC2-0730-3XD	7.30		8	79	41	30	36
MKC2-0740-3XD	7.40		8	79	41	29	36
MKC2-0750-3XD	7.50		8	79	41	29	36
MKC2-0760-3XD	7.60		8	79	41	29	36
MKC2-0770-3XD	7.70		8	79	41	29	36
MKC2-0780-3XD	7.80		8	79	41	29	36
MKC2-0790-3XD	7.90		8	79	41	29	36



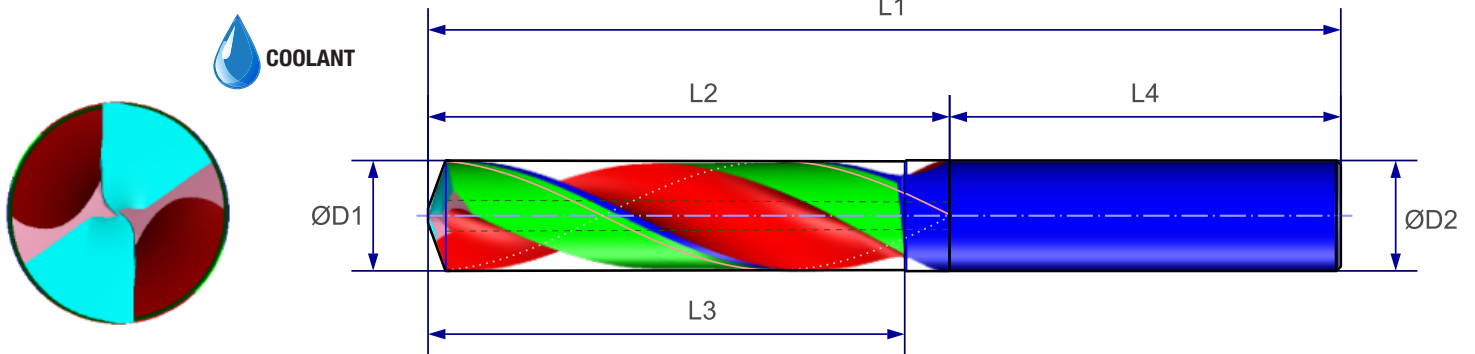
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0800-3XD	8.00		10	89	47	35	40
MKC2-0810-3XD	8.10		10	89	47	34	40
MKC2-0820-3XD	8.20		10	89	47	34	40
MKC2-0830-3XD	8.30		10	89	47	34	40
MKC2-0840-3XD	8.40		10	89	47	34	40
MKC2-0850-3XD	8.50		10	89	47	34	40
MKC2-0860-3XD	8.60	3/8-24 UNF	10	89	47	34	40
MKC2-0870-3XD	8.70	M10	10	89	47	33	40
MKC2-0880-3XD	8.80		10	89	47	33	40
MKC2-0890-3XD	8.90	MF10x1.25	10	89	47	33	40
MKC2-0900-3XD	9.00		10	89	47	33	40
MKC2-0910-3XD	9.10		10	89	47	33	40
MKC2-0920-3XD	9.20		10	89	47	33	40
MKC2-0930-3XD	9.30		10	89	47	33	40
MKC2-0940-3XD	9.40		10	89	47	32	40
MKC2-0950-3XD	9.50		10	89	47	32	40
MKC2-0960-3XD	9.60		10	89	47	32	40
MKC2-0970-3XD	9.70		10	89	47	32	40
MKC2-0980-3XD	9.80		10	89	47	32	40
MKC2-0990-3XD	9.90		10	89	47	32	40
MKC2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MKC2-1010-3XD	10.10		12	102	55	39	45
MKC2-1020-3XD	10.20		12	102	55	39	45
MKC2-1030-3XD	10.30		12	102	55	39	45
MKC2-1040-3XD	10.40		12	102	55	39	45



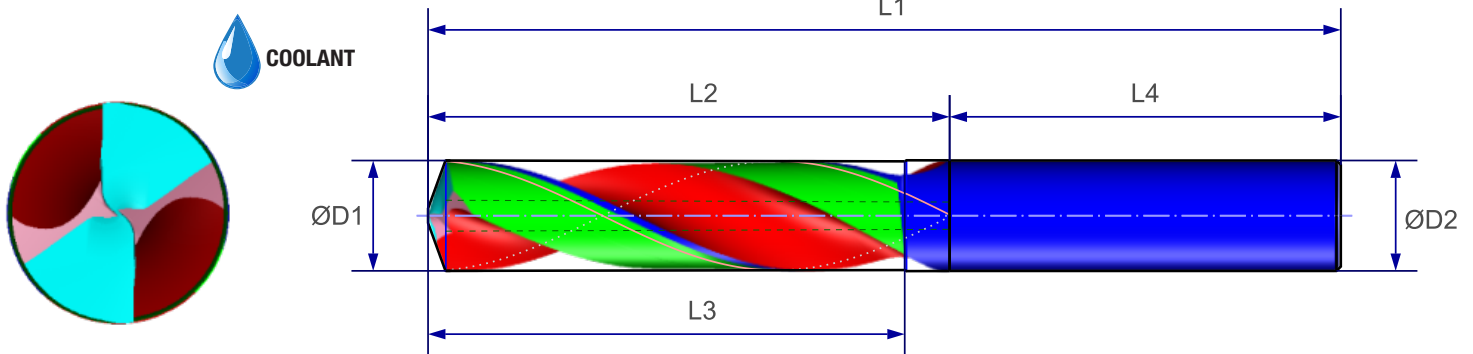
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1050-3XD	10.50		12	102	55	39	45
MKC2-1060-3XD	10.60		12	102	55	39	45
MKC2-1070-3XD	10.70	MF12x1.5	12	102	55	38	45
MKC2-1080-3XD	10.80		12	102	55	38	45
MKC2-1090-3XD	10.90		12	102	55	38	45
MKC2-1100-3XD	11.00		12	102	55	38	45
MKC2-1110-3XD	11.10		12	102	55	38	45
MKC2-1120-3XD	11.20		12	102	55	38	45
MKC2-1140-3XD	11.40		12	102	55	37	45
MKC2-1150-3XD	11.50		12	102	55	37	45
MKC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MKC2-1170-3XD	11.70		12	102	55	37	45
MKC2-1180-3XD	11.80		12	102	55	37	45
MKC2-1190-3XD	11.90		12	102	55	37	45
MKC2-1200-3XD	12.00		14	107	60	42	45
MKC2-1210-3XD	12.10		14	107	60	41	45
MKC2-1220-3XD	12.20		14	107	60	41	45
MKC2-1230-3XD	12.30		14	107	60	41	45
MKC2-1250-3XD	12.50		14	107	60	41	45
MKC2-1260-3XD	12.60		14	107	60	41	45
MKC2-1270-3XD	12.70		14	107	60	40	45
MKC2-1280-3XD	12.80		14	107	60	40	45
MKC2-1290-3XD	12.90		14	107	60	40	45
MKC2-1300-3XD	13.00		14	107	60	40	45
MKC2-1310-3XD	13.10		14	107	60	40	45



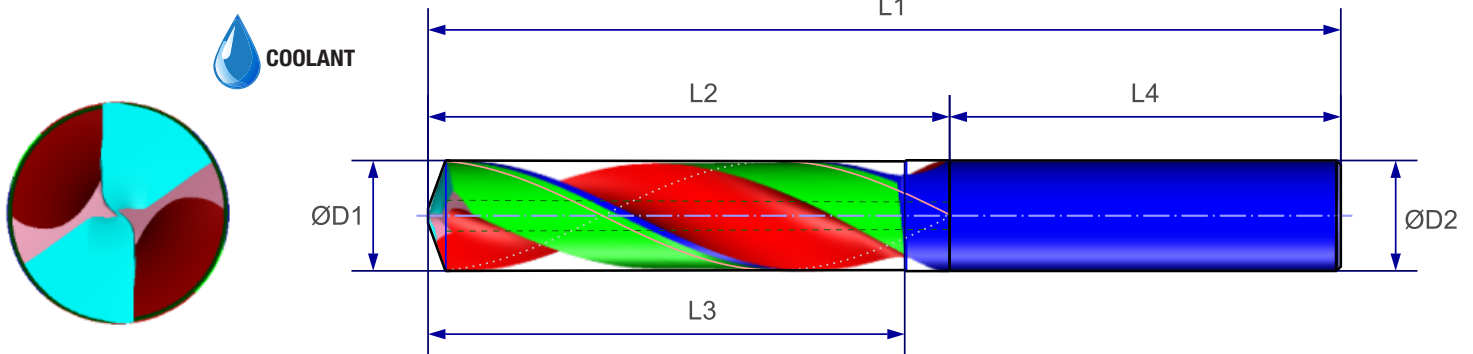
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1320-3XD	13.20		14	107	60	40	45
MKC2-1330-3XD	13.30		14	107	60	40	45
MKC2-1350-3XD	13.50		14	107	60	39	45
MKC2-1380-3XD	13.80		14	107	60	39	45
MKC2-1400-3XD	14.00		16	115	65	44	48
MKC2-1410-3XD	14.10		16	115	65	43	48
MKC2-1420-3XD	14.20		16	115	65	43	48
MKC2-1430-3XD	14.30		16	115	65	43	48
MKC2-1440-3XD	14.40		16	115	65	43	48
MKC2-1450-3XD	14.50		16	115	65	43	48
MKC2-1460-3XD	14.60		16	115	65	43	48
MKC2-1480-3XD	14.80		16	115	65	42	48
MKC2-1500-3XD	15.00		16	115	65	42	48
MKC2-1510-3XD	15.10		16	115	65	42	48
MKC2-1520-3XD	15.20		16	115	65	42	48
MKC2-1530-3XD	15.30		16	115	65	42	48
MKC2-1540-3XD	15.40		16	115	65	41	48
MKC2-1550-3XD	15.50		16	115	65	41	48
MKC2-1560-3XD	15.60		16	115	65	41	48
MKC2-1570-3XD	15.70		16	115	65	41	48
MKC2-1580-3XD	15.80		16	115	65	41	48
MKC2-1590-3XD	15.90		16	115	65	41	48
MKC2-1600-3XD	16.00		18	123	73	49	48
MKC2-1610-3XD	16.10		18	123	73	48	48
MKC2-1650-3XD	16.50		18	123	73	48	48



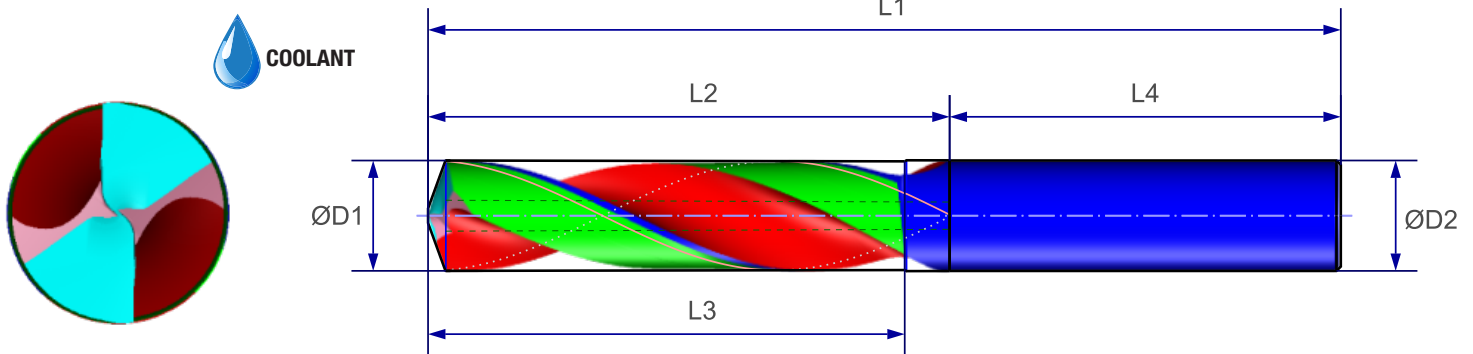
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 3=Metric DIA 3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1700-3XD	17.00		18	131	79	53	48
MKC2-1750-3XD	17.50		18	131	79	52	48
MKC2-1770-3XD	17.70		18	131	79	52	48
MKC2-1800-3XD	18.00		20	131	79	52	50
MKC2-1840-3XD	18.40		20	131	79	51	50
MKC2-1850-3XD	18.50		20	131	79	51	50
MKC2-1900-3XD	19.00		20	131	79	50	50
MKC2-1910-3XD	19.10		20	131	79	50	50
MKC2-1920-3XD	19.20		20	131	79	50	50
MKC2-1930-3XD	19.30		20	131	79	50	50
MKC2-1950-3XD	19.50		20	131	79	49	50
MKC2-2000-3XD	20.00		20	131	79	49	50



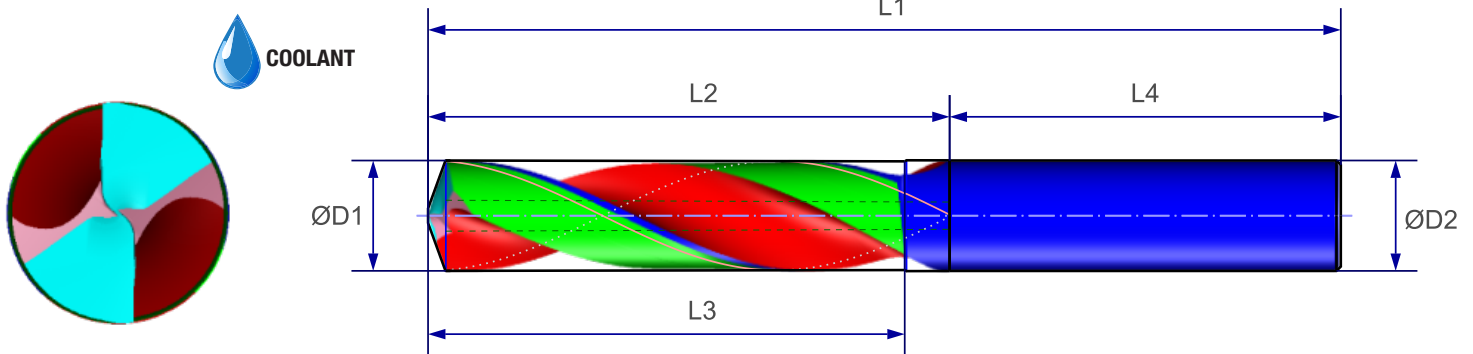
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0300-5XD	3.00		6	66	28	23	36
MKC2-0310-5XD	3.10		6	66	28	23	36
MKC2-0320-5XD	3.20		6	66	28	23	36
MKC2-0330-5XD	3.30		6	66	28	23	36
MKC2-0340-5XD	3.40		6	66	28	22	36
MKC2-0350-5XD	3.50		6	66	28	22	36
MKC2-0360-5XD	3.60		6	66	28	22	36
MKC2-0370-5XD	3.70		6	66	28	22	36
MKC2-0380-5XD	3.80		6	74	36	30	36
MKC2-0390-5XD	3.90	10-24 UNC	6	74	36	30	36
MKC2-0400-5XD	4.00		6	74	36	30	36
MKC2-0410-5XD	4.10	10-32 UNF	6	74	36	29	36
MKC2-0420-5XD	4.20		6	74	36	29	36
MKC2-0430-5XD	4.30	M5	6	74	36	29	36
MKC2-0440-5XD	4.40		6	74	36	29	36
MKC2-0450-5XD	4.50		6	74	36	29	36
MKC2-0470-5XD	4.70		6	74	36	28	36
MKC2-0480-5XD	4.80	12-32 UNF	6	82	44	36	36
MKC2-0490-5XD	4.90		6	82	44	36	36
MKC2-0500-5XD	5.00		6	82	44	36	36
MKC2-0510-5XD	5.10	M6	6	82	44	36	36
MKC2-0520-5XD	5.20		6	82	44	36	36
MKC2-0530-5XD	5.30		6	82	44	36	36
MKC2-0540-5XD	5.40		6	82	44	35	36
MKC2-0550-5XD	5.50		6	82	44	35	36



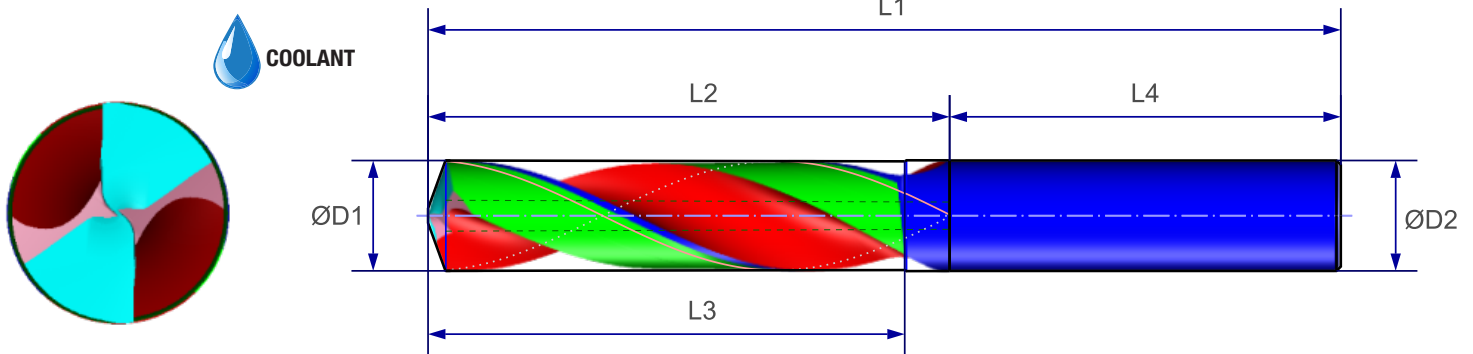
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0560-5XD	5.60		6	82	44	35	36
MKC2-0570-5XD	5.70		6	82	44	35	36
MKC2-0580-5XD	5.80		6	82	44	35	36
MKC2-0590-5XD	5.90		6	82	44	35	36
MKC2-0600-5XD	6.00		8	91	53	44	36
MKC2-0610-5XD	6.10		8	91	53	43	36
MKC2-0620-5XD	6.20		8	91	53	43	36
MKC2-0630-5XD	6.30		8	91	53	43	36
MKC2-0640-5XD	6.40		8	91	53	43	36
MKC2-0650-5XD	6.50		8	91	53	43	36
MKC2-0660-5XD	6.60		8	91	53	43	36
MKC2-0670-5XD	6.70	5/18-18UNF	8	91	53	42	36
MKC2-0675-5XD	6.75		8	91	53	42	36
MKC2-0680-5XD	6.80		8	91	53	42	36
MKC2-0690-5XD	6.90		8	91	53	42	36
MKC2-0700-5XD	7.00		8	91	53	42	36
MKC2-0710-5XD	7.10	MF8x1	8	91	53	42	36
MKC2-0720-5XD	7.20		8	91	53	42	36
MKC2-0730-5XD	7.30		8	91	53	42	36
MKC2-0740-5XD	7.40		8	91	53	41	36
MKC2-0750-5XD	7.50		8	91	53	41	36
MKC2-0760-5XD	7.60		8	91	53	41	36
MKC2-0770-5XD	7.70		8	91	53	41	36
MKC2-0780-5XD	7.80		8	91	53	41	36
MKC2-0790-5XD	7.90		8	91	53	41	36



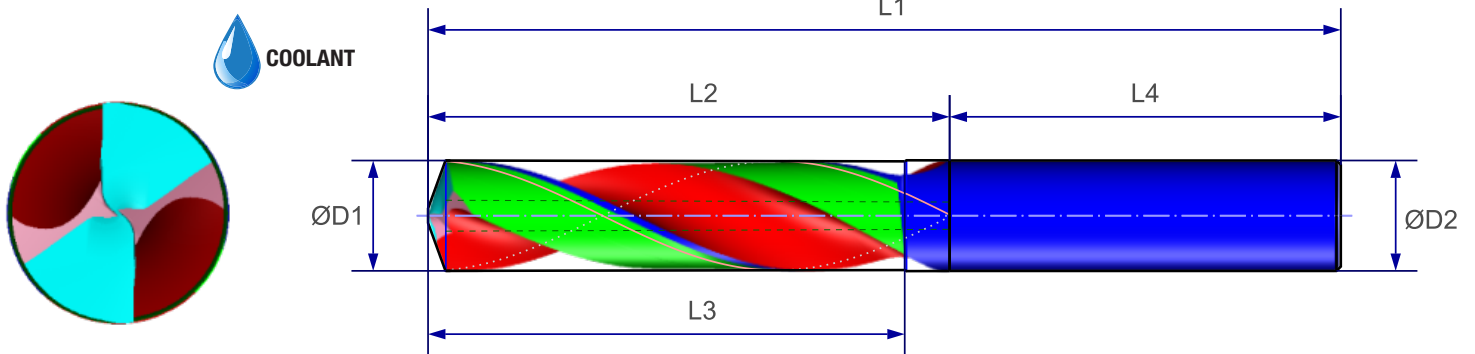
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0800-5XD	8.00		10	103	61	49	40
MKC2-0810-5XD	8.10		10	103	61	48	40
MKC2-0820-5XD	8.20		10	103	61	48	40
MKC2-0830-5XD	8.30		10	103	61	48	40
MKC2-0840-5XD	8.40		10	103	61	48	40
MKC2-0850-5XD	8.50		10	103	61	48	40
MKC2-0860-5XD	8.60	3/8-24 UNF	10	103	61	48	40
MKC2-0870-5XD	8.70	M10	10	103	61	47	40
MKC2-0880-5XD	8.80		10	103	61	47	40
MKC2-0890-5XD	8.90	MF10x1.25	10	103	61	47	40
MKC2-0900-5XD	9.00		10	103	61	47	40
MKC2-0910-5XD	9.10		10	103	61	47	40
MKC2-0920-5XD	9.20		10	103	61	47	40
MKC2-0930-5XD	9.30		10	103	61	47	40
MKC2-0940-5XD	9.40		10	103	61	46	40
MKC2-0950-5XD	9.50		10	103	61	46	40
MKC2-0960-5XD	9.60		10	103	61	46	40
MKC2-0970-5XD	9.70		10	103	61	46	40
MKC2-0980-5XD	9.80		10	103	61	46	40
MKC2-0990-5XD	9.90		10	103	61	46	40
MKC2-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MKC2-1010-5XD	10.10		12	118	71	55	45
MKC2-1020-5XD	10.20		12	118	71	55	45
MKC2-1030-5XD	10.30		12	118	71	55	45
MKC2-1040-5XD	10.40		12	118	71	55	45



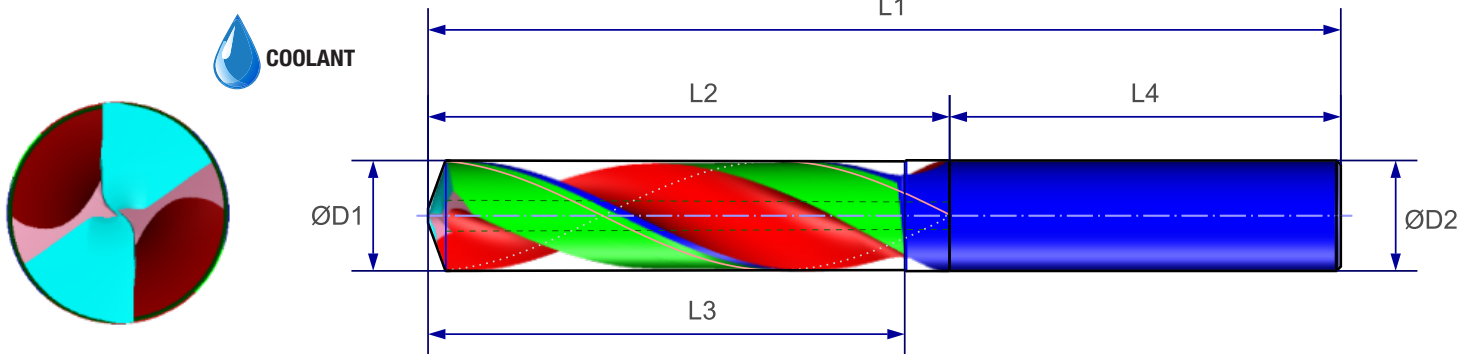
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1050-5XD	10.50		12	118	71	55	45
MKC2-1060-5XD	10.60		12	118	71	55	45
MKC2-1070-5XD	10.70	MF12x1.5	12	118	71	54	45
MKC2-1080-5XD	10.80		12	118	71	54	45
MKC2-1090-5XD	10.90		12	118	71	54	45
MKC2-1100-5XD	11.00		12	118	71	54	45
MKC2-1110-5XD	11.10		12	118	71	54	45
MKC2-1120-5XD	11.20		12	118	71	54	45
MKC2-1140-5XD	11.40		12	118	71	53	45
MKC2-1150-5XD	11.50		12	118	71	53	45
MKC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45
MKC2-1170-5XD	11.70		12	118	71	53	45
MKC2-1180-5XD	11.80		12	118	71	53	45
MKC2-1190-5XD	11.90		12	118	71	53	45
MKC2-1200-5XD	12.00		14	124	77	59	45
MKC2-1210-5XD	12.10		14	124	77	58	45
MKC2-1220-5XD	12.20		14	124	77	58	45
MKC2-1230-5XD	12.30		14	124	77	58	45
MKC2-1250-5XD	12.50		14	124	77	58	45
MKC2-1260-5XD	12.60		14	124	77	58	45
MKC2-1270-5XD	12.70		14	124	77	57	45
MKC2-1280-5XD	12.80		14	124	77	57	45
MKC2-1290-5XD	12.90		14	124	77	57	45
MKC2-1300-5XD	13.00		14	124	77	57	45
MKC2-1310-5XD	13.10		14	124	77	57	45



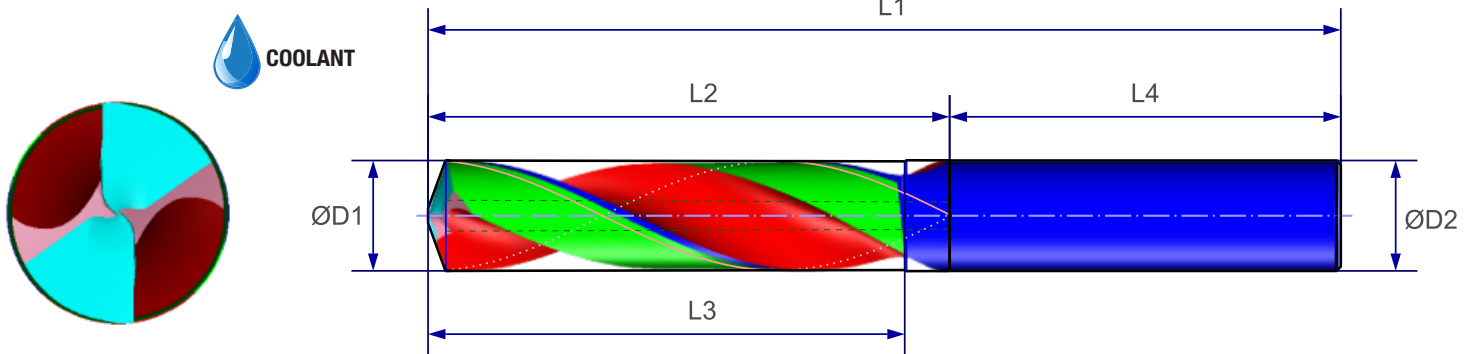
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1320-5XD	13.20		14	124	77	57	45
MKC2-1330-5XD	13.30		14	124	77	57	45
MKC2-1350-5XD	13.50		14	124	77	56	45
MKC2-1380-5XD	13.80		14	124	77	56	45
MKC2-1400-5XD	14.00		16	133	83	62	48
MKC2-1410-5XD	14.10		16	133	83	61	48
MKC2-1420-5XD	14.20		16	133	83	61	48
MKC2-1430-5XD	14.30		16	133	83	61	48
MKC2-1440-5XD	14.40		16	133	83	61	48
MKC2-1450-5XD	14.50		16	133	83	61	48
MKC2-1460-5XD	14.60		16	133	83	61	48
MKC2-1480-5XD	14.80		16	133	83	60	48
MKC2-1500-5XD	15.00		16	133	83	60	48
MKC2-1510-5XD	15.10		16	133	83	60	48
MKC2-1520-5XD	15.20		16	133	83	60	48
MKC2-1530-5XD	15.30		16	133	83	60	48
MKC2-1540-5XD	15.40		16	133	83	59	48
MKC2-1550-5XD	15.50		16	133	83	59	48
MKC2-1560-5XD	15.60		16	133	83	59	48
MKC2-1570-5XD	15.70		16	133	83	59	48
MKC2-1580-5XD	15.80		16	133	83	59	48
MKC2-1590-5XD	15.90		16	133	83	59	48
MKC2-1600-5XD	16.00		18	143	93	69	48
MKC2-1610-5XD	16.10		18	143	93	68	48
MKC2-1650-5XD	16.50		18	143	93	68	48



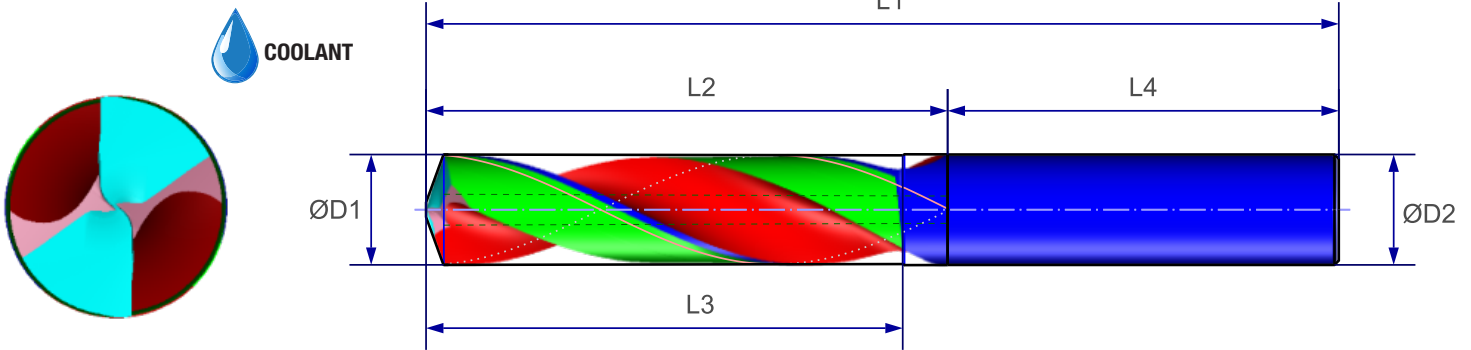
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1700-5XD	17.00		18	143	93	67	48
MKC2-1750-5XD	17.50		18	143	93	66	48
MKC2-1770-5XD	17.70		18	143	93	66	48
MKC2-1800-5XD	18.00		20	153	101	74	50
MKC2-1840-5XD	18.40		20	153	101	73	50
MKC2-1850-5XD	18.50		20	153	101	73	50
MKC2-1900-5XD	19.00		20	153	101	72	50
MKC2-1910-5XD	19.10		20	153	101	72	50
MKC2-1920-5XD	19.20		20	153	101	72	50
MKC2-1930-5XD	19.30		20	153	101	72	50
MKC2-1950-5XD	19.50		20	153	101	71	50
MKC2-2000-5XD	20.00		20	153	101	71	50



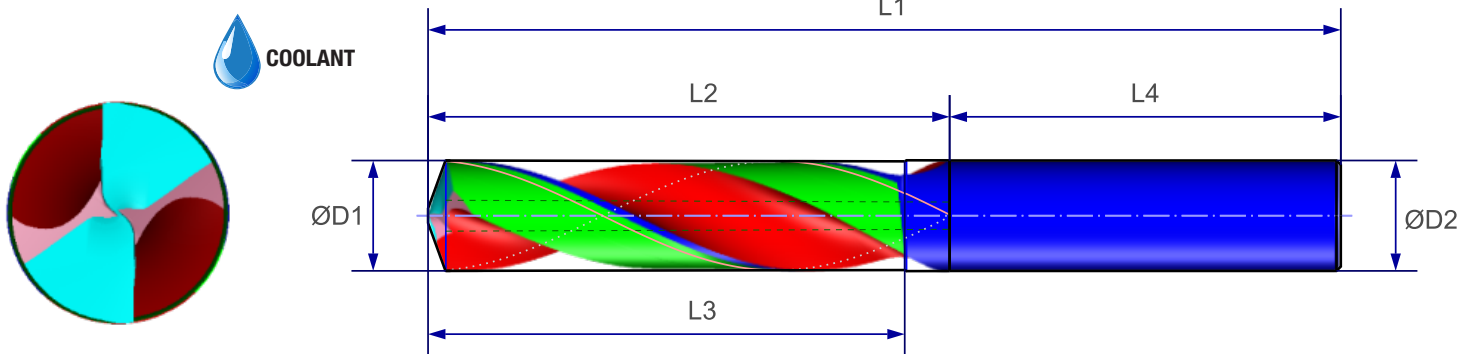
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0300-7XD	3.00		6	70	30	25	36
MKC2-0310-7XD	3.10		6	70	30	25	36
MKC2-0320-7XD	3.20		6	70	30	25	36
MKC2-0330-7XD	3.30		6	70	30	25	36
MKC2-0340-7XD	3.40		6	75	38	32	36
MKC2-0350-7XD	3.50		6	75	38	32	36
MKC2-0360-7XD	3.60		6	75	38	32	36
MKC2-0370-7XD	3.70		6	75	38	32	36
MKC2-0380-7XD	3.80		6	75	38	32	36
MKC2-0390-7XD	3.90	10-24 UNC	6	75	38	32	36
MKC2-0400-7XD	4.00		6	75	38	32	36
MKC2-0410-7XD	4.10	10-32 UNF	6	75	38	31	36
MKC2-0420-7XD	4.20		6	75	38	31	36
MKC2-0430-7XD	4.30	M5	6	85	45	38	36
MKC2-0440-7XD	4.40		6	85	45	38	36
MKC2-0450-7XD	4.50		6	85	45	38	36
MKC2-0470-7XD	4.70		6	85	45	37	36
MKC2-0480-7XD	4.80	12-32 UNF	6	90	50	42	36
MKC2-0490-7XD	4.90		6	90	50	42	36
MKC2-0500-7XD	5.00		6	90	50	42	36
MKC2-0510-7XD	5.10	M6	6	90	50	42	36
MKC2-0520-7XD	5.20		6	90	50	42	36
MKC2-0530-7XD	5.30		6	90	50	42	36
MKC2-0540-7XD	5.40		6	90	50	41	36
MKC2-0550-7XD	5.50		6	97	57	48	36



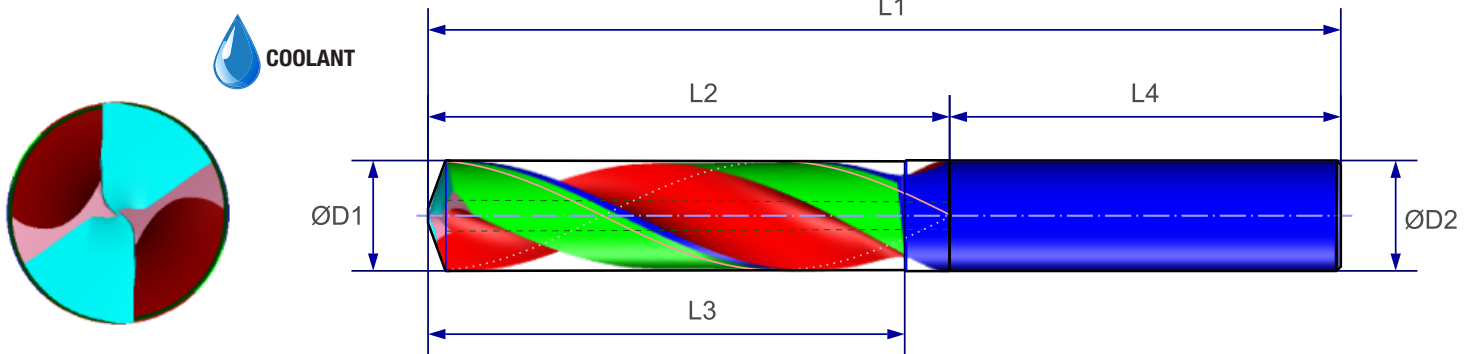
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0560-7XD	5.60		6	97	57	48	36
MKC2-0570-7XD	5.70		6	97	57	48	36
MKC2-0580-7XD	5.80		6	97	57	48	36
MKC2-0590-7XD	5.90		6	97	57	48	36
MKC2-0600-7XD	6.00		8	106	66	57	36
MKC2-0610-7XD	6.10		8	106	66	56	36
MKC2-0620-7XD	6.20		8	106	66	56	36
MKC2-0630-7XD	6.30		8	106	66	56	36
MKC2-0640-7XD	6.40		8	106	66	56	36
MKC2-0650-7XD	6.50		8	106	66	56	36
MKC2-0660-7XD	6.60		8	106	66	56	36
MKC2-0670-7XD	6.70	5/18-18UNF	8	106	66	55	36
MKC2-0675-7XD	6.75		8	106	66	55	36
MKC2-0680-7XD	6.80		8	106	66	55	36
MKC2-0690-7XD	6.90		8	116	76	65	36
MKC2-0700-7XD	7.00		8	116	76	65	36
MKC2-0710-7XD	7.10	MF8x1	8	116	76	65	36
MKC2-0720-7XD	7.20		8	116	76	65	36
MKC2-0730-7XD	7.30		8	116	76	65	36
MKC2-0740-7XD	7.40		8	116	76	64	36
MKC2-0750-7XD	7.50		8	116	76	64	36
MKC2-0760-7XD	7.60		8	116	76	64	36
MKC2-0770-7XD	7.70		8	116	76	64	36
MKC2-0780-7XD	7.80		8	116	76	64	36
MKC2-0790-7XD	7.90		8	116	76	64	36



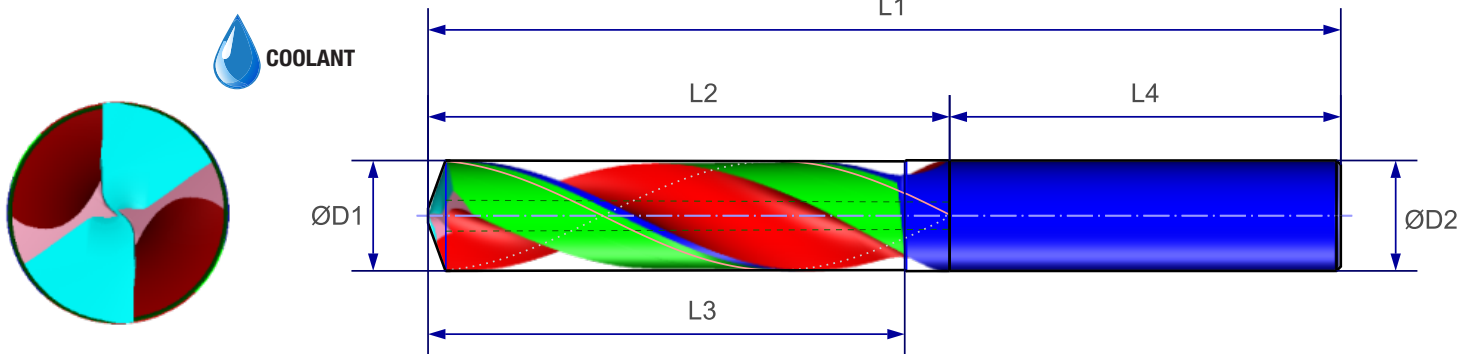
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-0800-7XD	8.00		10	131	87	75	40
MKC2-0810-7XD	8.10		10	131	87	74	40
MKC2-0820-7XD	8.20		10	131	87	74	40
MKC2-0830-7XD	8.30		10	131	87	74	40
MKC2-0840-7XD	8.40		10	131	87	74	40
MKC2-0850-7XD	8.50		10	131	87	74	40
MKC2-0860-7XD	8.60	3/8-24 UNF	10	131	87	74	40
MKC2-0870-7XD	8.70	M10	10	131	87	73	40
MKC2-0880-7XD	8.80		10	131	87	73	40
MKC2-0890-7XD	8.90	MF10x1.25	10	131	87	73	40
MKC2-0900-7XD	9.00		10	131	87	73	40
MKC2-0910-7XD	9.10		10	139	95	81	40
MKC2-0920-7XD	9.20		10	139	95	81	40
MKC2-0930-7XD	9.30		10	139	95	81	40
MKC2-0940-7XD	9.40		10	139	95	80	40
MKC2-0950-7XD	9.50		10	139	95	80	40
MKC2-0960-7XD	9.60		10	139	95	80	40
MKC2-0970-7XD	9.70		10	139	95	80	40
MKC2-0980-7XD	9.80		10	139	95	80	40
MKC2-0990-7XD	9.90		10	139	95	80	40
MKC2-1000-7XD	10.00	7/16-20 UNF	12	155	106	91	45
MKC2-1010-7XD	10.10		12	155	106	90	45
MKC2-1020-7XD	10.20		12	155	106	90	45
MKC2-1030-7XD	10.30		12	155	106	90	45
MKC2-1040-7XD	10.40		12	155	106	90	45



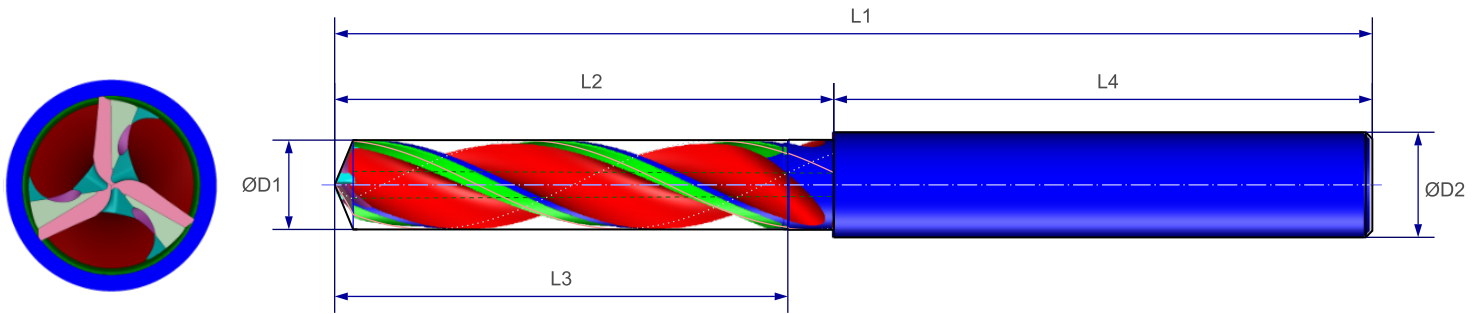
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1050-7XD	10.50		12	155	106	90	45
MKC2-1060-7XD	10.60		12	155	106	90	45
MKC2-1070-7XD	10.70	MF12x1.5	12	155	106	89	45
MKC2-1080-7XD	10.80		12	155	106	89	45
MKC2-1090-7XD	10.90		12	155	106	89	45
MKC2-1100-7XD	11.00		12	155	106	89	45
MKC2-1110-7XD	11.10		12	155	106	89	45
MKC2-1120-7XD	11.20		12	163	114	97	45
MKC2-1140-7XD	11.40		12	163	114	96	45
MKC2-1150-7XD	11.50		12	163	114	96	45
MKC2-1160-7XD	11.60	1/2-20 UNF	12	163	114	96	45
MKC2-1170-7XD	11.70		12	163	114	96	45
MKC2-1180-7XD	11.80		12	163	114	96	45
MKC2-1190-7XD	11.90		12	163	114	96	45
MKC2-1200-7XD	12.00		14	182	133	115	45
MKC2-1210-7XD	12.10		14	182	133	114	45
MKC2-1220-7XD	12.20		14	182	133	114	45
MKC2-1230-7XD	12.30		14	182	133	114	45
MKC2-1250-7XD	12.50		14	182	133	114	45
MKC2-1260-7XD	12.60		14	182	133	114	45
MKC2-1270-7XD	12.70		14	182	133	113	45
MKC2-1280-7XD	12.80		14	182	133	113	45
MKC2-1290-7XD	12.90		14	182	133	113	45
MKC2-1300-7XD	13.00		14	182	133	113	45
MKC2-1310-7XD	13.10		14	182	133	113	45



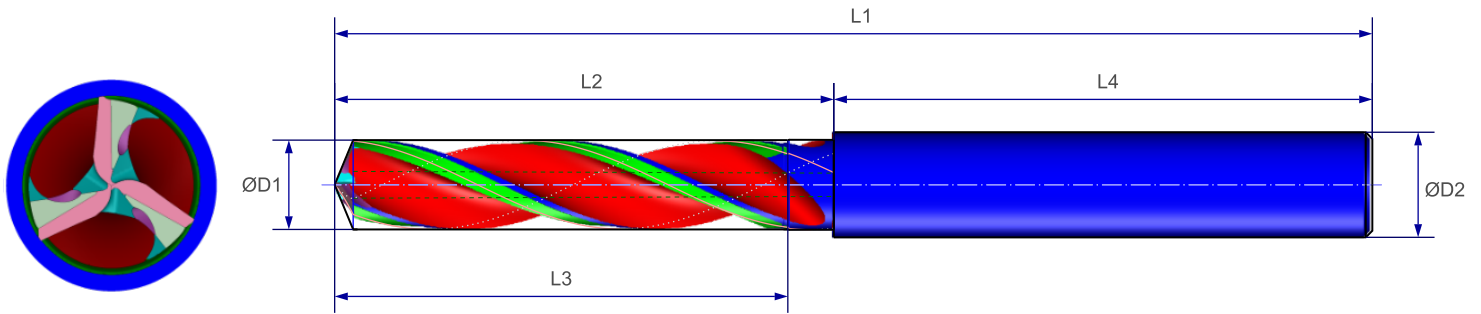
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1320-7XD	13.20		14	182	133	113	45
MKC2-1330-7XD	13.30		14	182	133	113	45
MKC2-1350-7XD	13.50		14	182	133	112	45
MKC2-1380-7XD	13.80		14	182	133	112	45
MKC2-1400-7XD	14.00		16	204	152	131	48
MKC2-1410-7XD	14.10		16	204	152	130	48
MKC2-1420-7XD	14.20		16	204	152	130	48
MKC2-1430-7XD	14.30		16	204	152	130	48
MKC2-1440-7XD	14.40		16	204	152	130	48
MKC2-1450-7XD	14.50		16	204	152	130	48
MKC2-1460-7XD	14.60		16	204	152	130	48
MKC2-1480-7XD	14.80		16	204	152	129	48
MKC2-1500-7XD	15.00		16	204	152	129	48
MKC2-1510-7XD	15.10		16	204	152	129	48
MKC2-1520-7XD	15.20		16	204	152	129	48
MKC2-1530-7XD	15.30		16	204	152	129	48
MKC2-1540-7XD	15.40		16	204	152	128	48
MKC2-1550-7XD	15.50		16	204	152	128	48
MKC2-1560-7XD	15.60		16	204	152	128	48
MKC2-1570-7XD	15.70		16	204	152	128	48
MKC2-1580-7XD	15.80		16	204	152	128	48
MKC2-1590-7XD	15.90		16	204	152	128	48
MKC2-1600-7XD	16.00		18	223	171	147	48
MKC2-1610-7XD	16.10		18	223	171	146	48
MKC2-1650-7XD	16.50		18	223	171	146	48



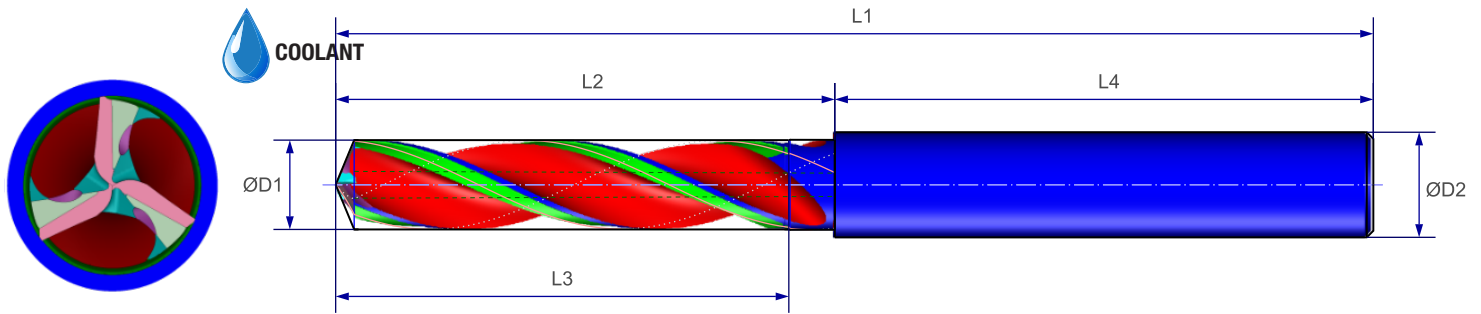
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 2=FLUTES, 125=DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC2-1700-7XD	17.00		18	223	171	145	48
MKC2-1750-7XD	17.50		18	223	171	144	48
MKC2-1770-7XD	17.70		18	223	171	144	48
MKC2-1800-7XD	18.00		20	244	190	163	50
MKC2-1840-7XD	18.40		20	244	190	162	50
MKC2-1850-7XD	18.50		20	244	190	162	50
MKC2-1900-7XD	19.00		20	244	190	161	50
MKC2-1910-7XD	19.10		20	244	190	161	50
MKC2-1920-7XD	19.20		20	244	190	161	50
MKC2-1930-7XD	19.30		20	244	190	161	50
MKC2-1950-7XD	19.50		20	244	190	160	50
MKC2-2000-7XD	20.00		20	244	190	160	50



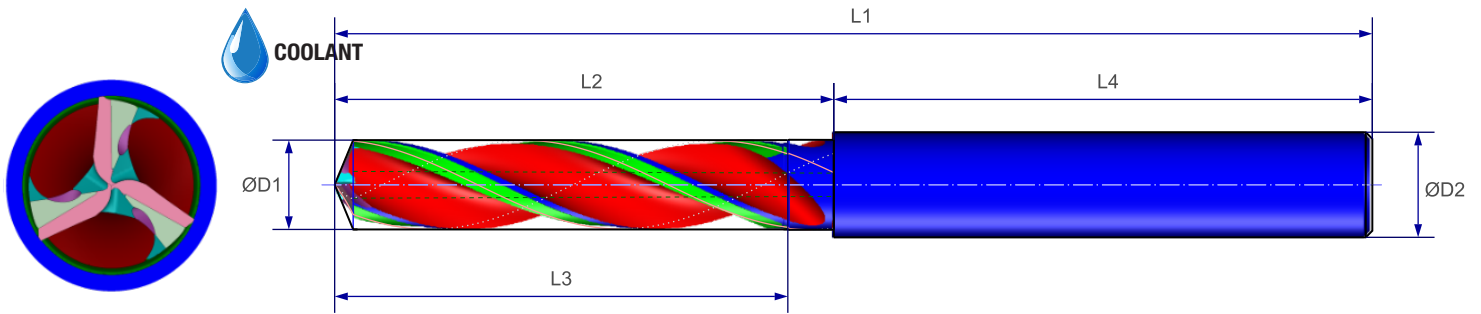
DESCRIPTION EXAMPLE...I=INCH K=CAST IRON, S=SOLID, 3=FLUTES, 125=DIA, 3XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKS3-1250-5XD	.125	1/8	6	2.598	1.102	0.906	1.417
IKS3-1406-5XD	.141	9/64	6	2.598	1.102	0.906	1.417
IKS3-1540-5XD	.154	10-24 UNC	6	2.913	1.378	1.142	1.417
IKS3-1562-5XD	.156	5/32	6	2.913	1.378	1.142	1.417
IKS3-1610-5XD	.161	10-32 UNF	6	2.913	1.378	1.142	1.417
IKS3-1690-5XD	.169	M5	6	2.913	1.378	1.142	1.417
IKS3-1719-5XD	.172	11/64	6	2.913	1.378	1.142	1.417
IKS3-1875-5XD	.188	3/16	6	3.228	1.693	1.378	1.417
IKS3-1890-5XD	.189	12-32 UNF	6	3.228	1.693	1.378	1.417
IKS3-2010-5XD	.201	M6	6	3.228	1.693	1.378	1.417
IKS3-2031-5XD	.203	13/64	6	3.228	1.693	1.378	1.417
IKS3-2188-5XD	.219	7/32	6	3.228	1.693	1.378	1.417
IKS3-2344-5XD	.234	15/64	6	3.228	1.693	1.378	1.417
IKS3-2500-5XD	.250	1/4	8	3.583	2.126	1.693	1.417
IKS3-2640-5XD	.264	5/18-18UNF	8	3.583	2.126	1.693	1.417
IKS3-2656-5XD	.266	17/64	8	3.583	2.126	1.693	1.417
IKS3-2800-5XD	.280	MF8x1	8	3.583	2.126	1.693	1.417
IKS3-2813-5XD	.281	9/32	8	3.583	2.126	1.693	1.417
IKS3-2969-5XD	.297	19/64	8	3.583	2.126	1.693	1.417
IKS3-3125-5XD	.313	5/16	8	3.583	2.126	1.693	1.417
IKS3-3281-5XD	.328	21/64	10	4.055	2.480	1.929	1.575
IKS3-3438-5XD	.344	11/32	10	4.055	2.480	1.929	1.575
IKS3-3594-5XD	.359	23/64	10	4.055	2.480	1.929	1.575
IKS3-3750-5XD	.375	3/8	10	4.055	2.480	1.929	1.575
IKS3-3906-5XD	.391	25/64	10	4.055	2.480	1.929	1.575



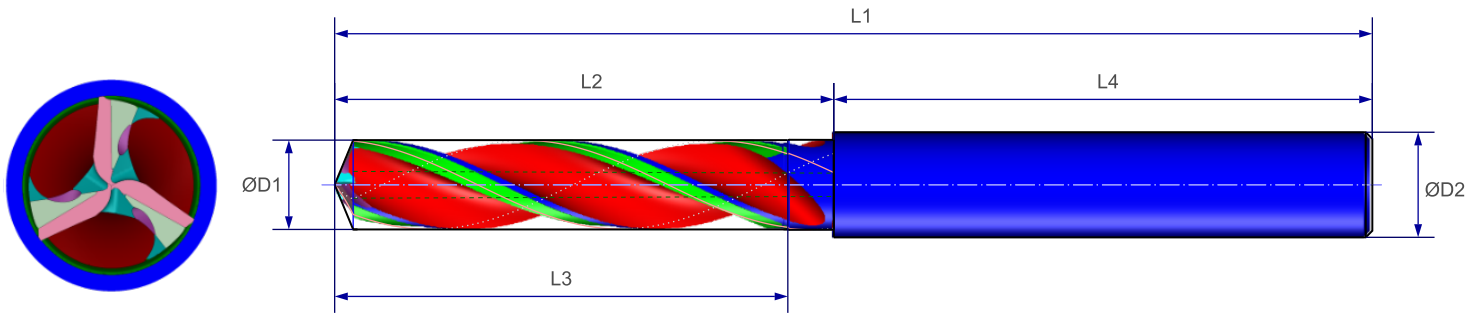
DESCRIPTION EXAMPLE...I=INCH K=CAST IRON, S=SOLID, 3=FLUTES, 125=DIA, 3XD=Flute Length	DRIL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKS3-3940-5XD	.394	7/16-20 UNF	12	4.646	2.874	2.205	1.575
IKS3-4063-5XD	.406	13/32	12	4.646	2.874	2.205	1.772
IKS3-4210-5XD	.421	MF12x1.5	12	4.646	2.874	2.205	1.772
IKS3-4375-5XD	.438	7/16	12	4.646	2.874	2.205	1.772
IKS3-4531-5XD	.453	29/64	12	4.646	2.874	2.205	1.772
IKS3-4570-5XD	.457	1/2-20 UNF	12	4.646	2.874	2.205	1.772
IKS3-4690-5XD	.469	15/32	12	4.646	2.874	2.205	1.772
IKS3-4844-5XD	.484	31/64	14	4.882	3.150	2.362	1.772
IKS3-5000-5XD	.500	1/2	14	4.882	3.150	2.362	1.772
IKS3-5469-5XD	.547	35/64	14	4.882	3.150	2.362	1.772
IKS3-5625-5XD	.563	9/16	16	5.236	3.386	2.480	1.890
IKS3-5781-5XD	.578	37/64	16	5.236	3.386	2.480	1.890
IKS3-5938-5XD	.594	19/32	16	5.236	3.386	2.480	1.890
IKS3-6094-5XD	.609	39/64	16	5.236	3.386	2.480	1.890
IKS3-6250-5XD	.625	5/8	16	5.236	3.386	2.480	1.890
IKS3-6875-5XD	.688	11/16	18	5.630	3.819	2.795	1.890
IKS3-7500-5XD	.750	3/4	20	6.024	4.134	3.031	1.969



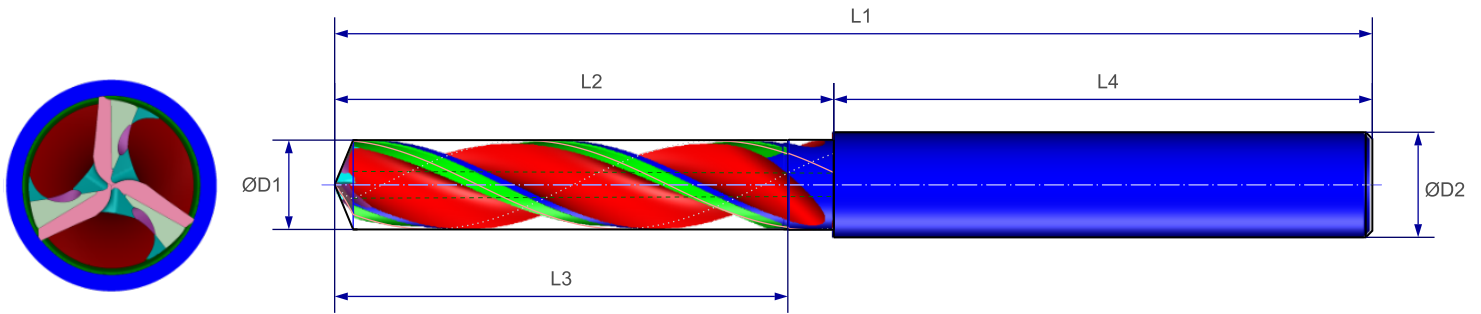
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 3=FLUTES, 125=DIA, 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKS3-1875-5XD	.188	3/16	6	3.228	1.693	1.378	1.417
IKS3-1890-5XD	.189	12-32 UNF	6	3.228	1.693	1.378	1.417
IKS3-2010-5XD	.201	M6	6	3.228	1.693	1.378	1.417
IKS3-2031-5XD	.203	13/64	6	3.228	1.693	1.378	1.417
IKS3-2188-5XD	.219	7/32	6	3.228	1.693	1.378	1.417
IKS3-2344-5XD	.234	15/64	6	3.228	1.693	1.378	1.417
IKS3-2500-5XD	.250	1/4	8	3.583	2.126	1.693	1.417
IKS3-2640-5XD	.264	5/18-18UNF	8	3.583	2.126	1.693	1.417
IKS3-2656-5XD	.266	17/64	8	3.583	2.126	1.693	1.417
IKS3-2800-5XD	.280	MF8x1	8	3.583	2.126	1.693	1.417
IKS3-2813-5XD	.281	9/32	8	3.583	2.126	1.693	1.417
IKS3-2969-5XD	.297	19/64	8	3.583	2.126	1.693	1.417
IKS3-3125-5XD	.313	5/16	8	3.583	2.126	1.693	1.417
IKS3-3281-5XD	.328	21/64	10	4.055	2.480	1.929	1.575
IKS3-3438-5XD	.344	11/32	10	4.055	2.480	1.929	1.575
IKS3-3594-5XD	.359	23/64	10	4.055	2.480	1.929	1.575
IKS3-3750-5XD	.375	3/8	10	4.055	2.480	1.929	1.575
IKS3-3906-5XD	.391	25/64	10	4.055	2.480	1.929	1.575
IKS3-3940-5XD	.394	7/16-20 UNF	12	4.646	2.874	2.205	1.575
IKS3-4063-5XD	.406	13/32	12	4.646	2.874	2.205	1.772
IKS3-4210-5XD	.421	MF12x1.5	12	4.646	2.874	2.205	1.772
IKS3-4375-5XD	.438	7/16	12	4.646	2.874	2.205	1.772
IKS3-4531-5XD	.453	29/64	12	4.646	2.874	2.205	1.772
IKS3-4570-5XD	.457	1/2-20 UNF	12	4.646	2.874	2.205	1.772
IKS3-4690-5XD	.469	15/32	12	4.646	2.874	2.205	1.772



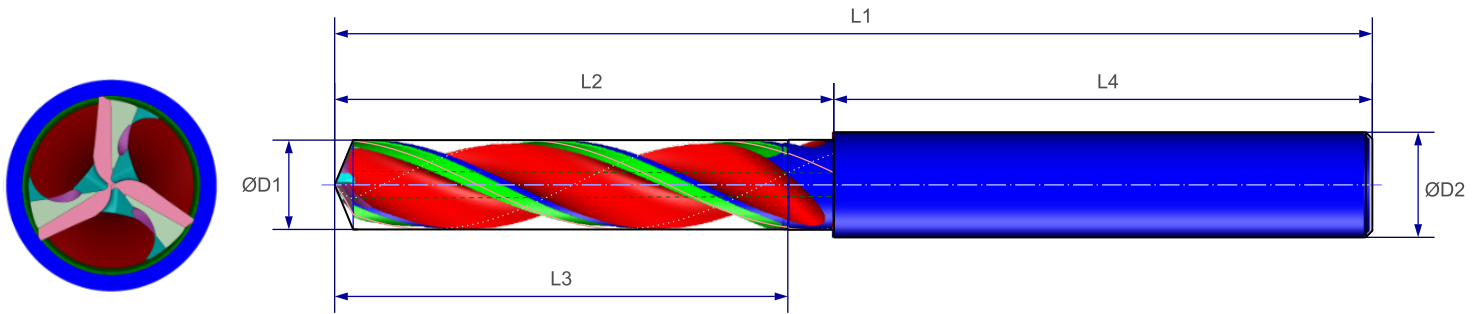
DESCRIPTION EXAMPLE...I=INCH, K=CAST IRON, C=COOLANT, 3=FLUTES, 125=DIA, 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IKS3-4844-5XD	.484	31/64	14	4.882	3.150	2.362	1.772
IKS3-5000-5XD	.500	1/2	14	4.882	3.150	2.362	1.772
IKS3-5469-5XD	.547	35/64	14	4.882	3.150	2.362	1.772
IKS3-5625-5XD	.563	9/16	16	5.236	3.386	2.480	1.890
IKS3-5781-5XD	.578	37/64	16	5.236	3.386	2.480	1.890
IKS3-5938-5XD	.594	19/32	16	5.236	3.386	2.480	1.890
IKS3-6094-5XD	.609	39/64	16	5.236	3.386	2.480	1.890
IKS3-6250-5XD	.625	5/8	16	5.236	3.386	2.480	1.890
IKS3-6875-5XD	.688	11/16	18	5.630	3.819	2.795	1.890
IKS3-7500-5XD	.750	3/4	20	6.024	4.134	3.031	1.969



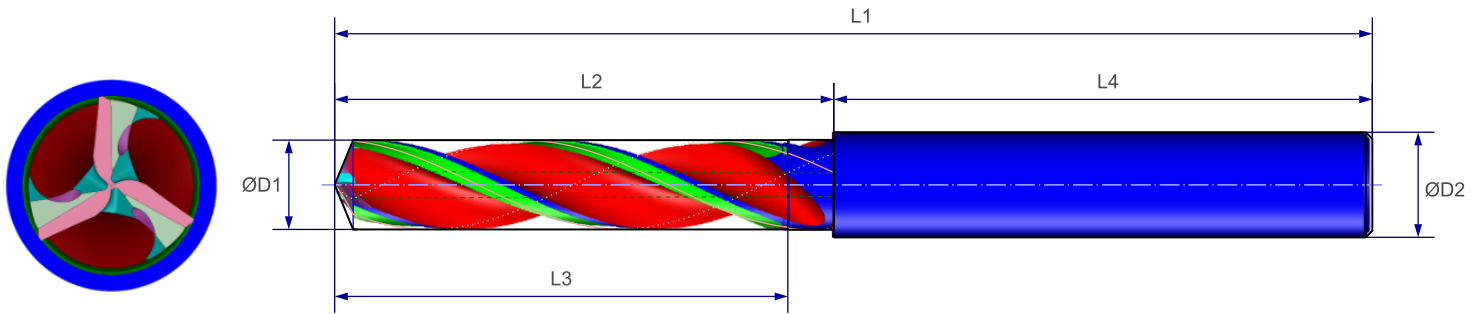
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-0300-5XD	3.00		6	66	28	23	36
MKS3-0310-5XD	3.10		6	66	28	23	36
MKS3-0320-5XD	3.20		6	66	28	23	36
MKS3-0330-5XD	3.30		6	66	28	23	36
MKS3-0340-5XD	3.40	M4	6	66	28	23	36
MKS3-0350-5XD	3.50		6	66	28	23	36
MKS3-0360-5XD	3.60		6	66	28	23	36
MKS3-0370-5XD	3.70		6	66	28	23	36
MKS3-0380-5XD	3.80		6	74	35	29	36
MKS3-0390-5XD	3.90	10-24 UNC	6	74	35	29	36
MKS3-0400-5XD	4.00		6	74	35	29	36
MKS3-0410-5XD	4.10	10-32 UNC	6	74	35	29	36
MKS3-0420-5XD	4.20		6	74	35	29	36
MKS3-0430-5XD	4.30	M5	6	74	35	29	36
MKS3-0440-5XD	4.40		6	74	35	29	36
MKS3-0450-5XD	4.50		6	74	35	29	36
MKS3-0470-5XD	4.70		6	74	35	29	36
MKS3-0480-5XD	4.80	12-32 UNC	6	82	43	35	36
MKS3-0490-5XD	4.90		6	82	43	35	36
MKS3-0500-5XD	5.00		6	82	43	35	36
MKS3-0510-5XD	5.10	M6	6	82	43	35	36
MKS3-0520-5XD	5.20		6	82	43	35	36
MKS3-0530-5XD	5.30	1/4-20 UNC	6	82	43	35	36
MKS3-0540-5XD	5.40		6	82	43	35	36
MKS3-0550-5XD	5.50		6	82	43	35	36



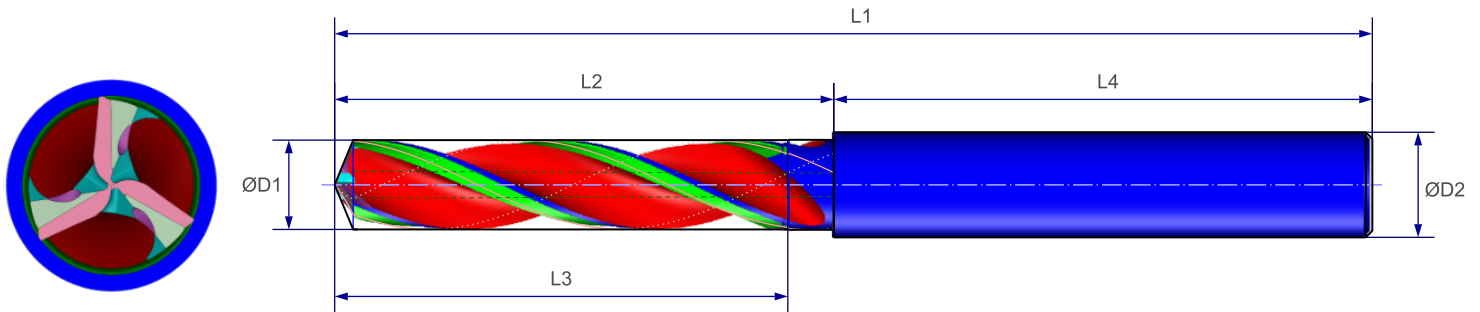
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-0560-5XD	5.60		6	82	43	35	36
MKS3-0570-5XD	5.70		6	82	43	35	36
MKS3-0580-5XD	5.80		6	82	43	35	36
MKS3-0590-5XD	5.90		6	82	43	35	36
MKS3-0600-5XD	6.00		8	91	54	43	36
MKS3-0610-5XD	6.10		8	91	54	43	36
MKS3-0620-5XD	6.20		8	91	54	43	36
MKS3-0630-5XD	6.30		8	91	54	43	36
MKS3-0640-5XD	6.40		8	91	54	43	36
MKS3-0650-5XD	6.50		8	91	54	43	36
MKS3-0660-5XD	6.60		8	91	54	43	36
MKS3-0670-5XD	6.70	5/18-18UNF	8	91	54	43	36
MKS3-0675-5XD	6.75		8	91	54	43	36
MKS3-0680-5XD	6.80		8	91	54	43	36
MKS3-0690-5XD	6.90	M8	8	91	54	43	36
MKS3-0700-5XD	7.00		8	91	54	43	36
MKS3-0710-5XD	7.10	MF8x1	8	91	54	43	36
MKS3-0720-5XD	7.20		8	91	54	43	36
MKS3-0730-5XD	7.30		8	91	54	43	36
MKS3-0740-5XD	7.40		8	91	54	43	36
MKS3-0750-5XD	7.50		8	91	54	43	36
MKS3-0760-5XD	7.60		8	91	54	43	36
MKS3-0770-5XD	7.70		8	91	54	43	36
MKS3-0780-5XD	7.80		8	91	54	43	36
MKS3-0790-5XD	7.90		8	91	54	43	36
MKS3-0800-5XD	8.00		10	103	63	49	40



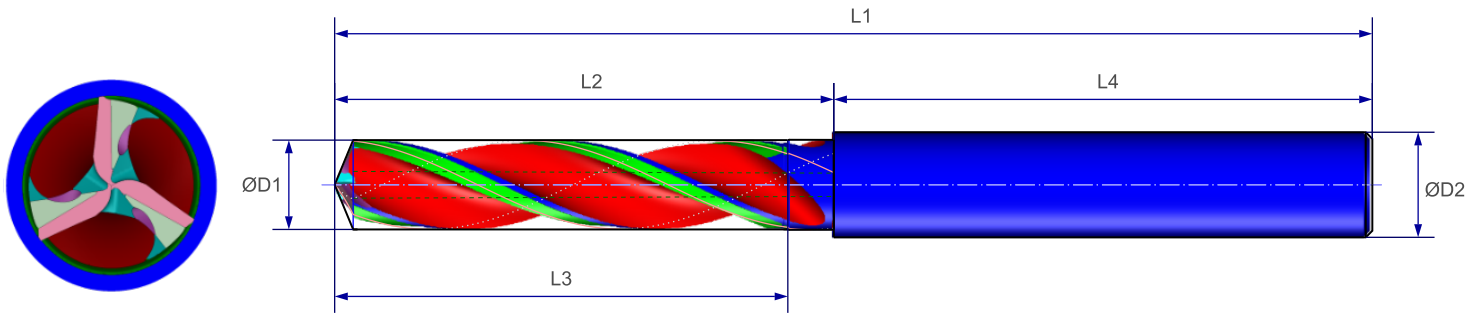
DESCRIPTION EXAMPLE...M=METRIC, K-CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-0810-5XD	8.10		10	103	63	49	40
MKS3-0820-5XD	8.20	3/8-16 UNC	10	103	63	49	40
MKS3-0830-5XD	8.30		10	103	63	49	40
MKS3-0840-5XD	8.40		10	103	63	49	40
MKS3-0850-5XD	8.50		10	103	63	49	40
MKS3-0860-5XD	8.60	3/8-24 UNF	10	103	63	49	40
MKS3-0870-5XD	8.70	M10	10	103	63	49	40
MKS3-0880-5XD	8.80		10	103	63	49	40
MKS3-0890-5XD	8.90	MF10x1.25	10	103	63	49	40
MKS3-0900-5XD	9.00		10	103	63	49	40
MKS3-0910-5XD	9.10		10	103	63	49	40
MKS3-0920-5XD	9.20		10	103	63	49	40
MKS3-0930-5XD	9.30		10	103	63	49	40
MKS3-0940-5XD	9.40		10	103	63	49	40
MKS3-0950-5XD	9.50		10	103	63	49	40
MKS3-0960-5XD	9.60		10	103	63	49	40
MKS3-0970-5XD	9.70		10	103	63	49	40
MKS3-0980-5XD	9.70		10	103	63	49	40
MKS3-0990-5XD	9.90		10	103	63	49	40
MKS3-1000-5XD	10.00	7/16-20 UNF	12	118	73	56	45
MKS3-1010-5XD	10.10		12	118	73	56	45
MKS3-1020-5XD	10.20		12	118	73	56	45
MKS3-1030-5XD	10.30		12	118	73	56	45
MKS3-1040-5XD	10.40	M12	12	118	73	56	45
MKS3-1050-5XD	10.50		12	118	73	56	45
MKS3-1060-5XD	10.60		12	118	73	56	45



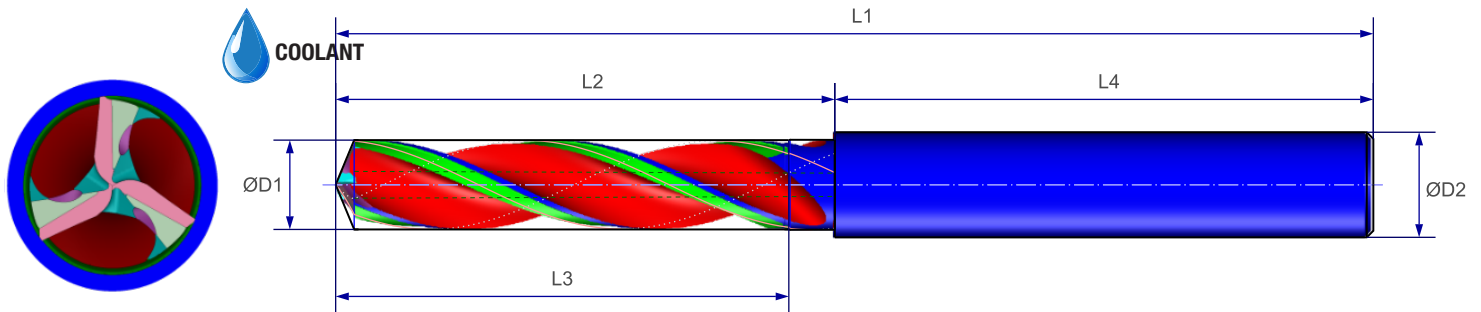
DESCRIPTION EXAMPLE...M=METRIC, K-CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-1070-5XD	10.70	MF12x1.5	12	118	73	56	45
MKS3-1080-5XD	10.80		12	118	73	56	45
MKS3-1090-5XD	10.90		12	118	73	56	45
MKS3-1100-5XD	11.00	1/2-13 UNC	12	118	73	56	45
MKS3-1110-5XD	11.10		12	118	73	56	45
MKS3-1120-5XD	11.20		12	118	73	56	45
MKS3-1140-5XD	11.40		12	118	73	56	45
MKS3-1150-5XD	11.50		12	118	73	56	45
MKS3-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MKS3-1170-5XD	11.70		12	118	73	56	45
MKS3-1180-5XD	11.80		12	118	73	56	45
MKS3-1190-5XD	11.90		12	118	73	56	45
MKS3-1200-5XD	12.00		14	124	80	60	45
MKS3-1210-5XD	12.10		14	124	80	60	45
MKS3-1220-5XD	12.20		14	124	80	60	45
MKS3-1230-5XD	12.30		14	124	80	60	45
MKS3-1250-5XD	12.50		14	124	80	60	45
MKS3-1260-5XD	12.60		14	124	80	60	45
MKS3-1270-5XD	12.70		14	124	80	60	45
MKS3-1280-5XD	12.80		14	124	80	60	45
MKS3-1290-5XD	12.90		14	124	80	60	45
MKS3-1300-5XD	13.00		14	124	80	60	45
MKS3-1310-5XD	13.10		14	124	80	60	45
MKS3-1320-5XD	13.20		14	124	80	60	45
MKS3-1330-5XD	13.30		14	124	80	60	45
MKS3-1350-5XD	13.50		14	124	80	60	45



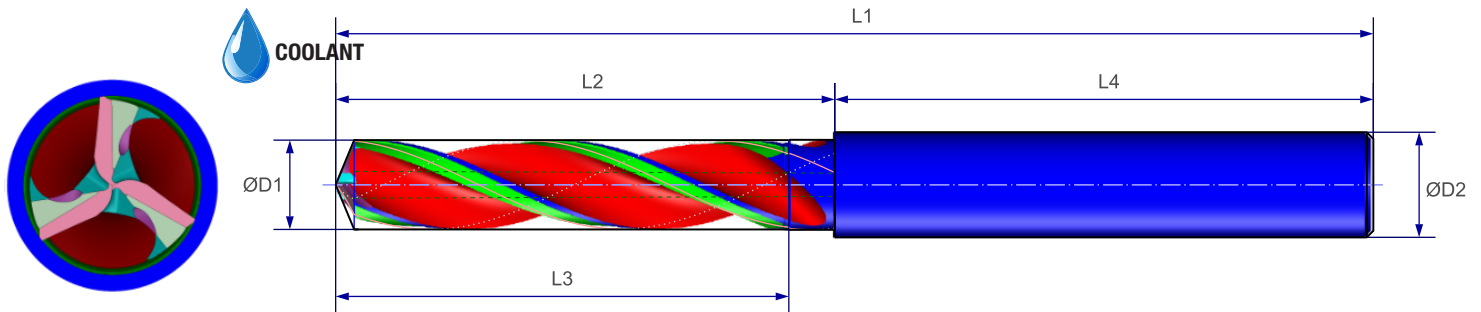
DESCRIPTION EXAMPLE...M=METRIC, K-CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-1380-5XD	13.80		14	124	80	60	45
MKS3-1400-5XD	14.00		16	133	86	63	48
MKS3-1410-5XD	14.10		16	133	86	63	48
MKS3-1420-5XD	14.20		16	133	86	63	48
MKS3-1430-5XD	14.30		16	133	86	63	48
MKS3-1440-5XD	14.40		16	133	86	63	48
MKS3-1450-5XD	14.50		16	133	86	63	48
MKS3-1460-5XD	14.60		16	133	86	63	48
MKS3-1480-5XD	14.80		16	133	86	63	48
MKS3-1500-5XD	15.00		16	133	86	63	48
MKS3-1510-5XD	15.10		16	133	86	63	48
MKS3-1520-5XD	15.20		16	133	86	63	48
MKS3-1530-5XD	15.30		16	133	86	63	48
MKS3-1540-5XD	15.40		16	133	86	63	48
MKS3-1550-5XD	15.50		16	133	86	63	48
MKS3-1560-5XD	15.60		16	133	86	63	48
MKS3-1570-5XD	15.70		16	133	86	63	48
MKS3-1580-5XD	15.80		16	133	86	63	48
MKS3-1590-5XD	15.90		16	133	86	63	48
MKS3-1600-5XD	16.00		18	143	97	71	48
MKS3-1610-5XD	16.10		18	143	97	71	48
MKS3-1650-5XD	16.50		18	143	97	71	48
MKS3-1700-5XD	17.00		18	143	97	71	48
MKS3-1750-5XD	17.50		18	143	97	71	48
MKS3-1770-5XD	17.70		18	143	97	71	48
MKS3-1800-5XD	18.00		20	153	105	77	50



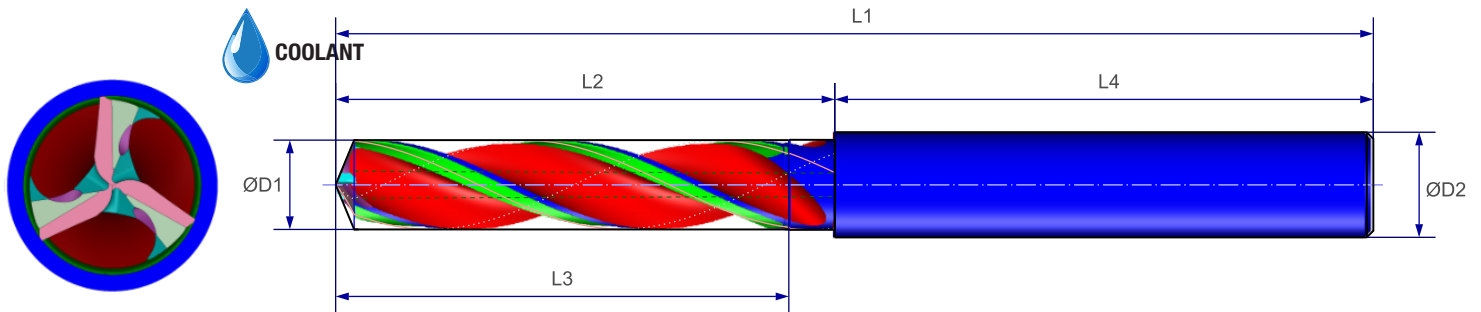
DESCRIPTION EXAMPLE...M=METRIC, K-CAST IRON, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKS3-1840-5XD	18.40		20	153	105	77	50
MKS3-1850-5XD	18.50		20	153	105	77	50
MKS3-1900-5XD	19.00		20	153	105	77	50
MKS3-1910-5XD	19.10		20	153	105	77	50
MKS3-1920-5XD	19.20		20	153	105	77	50
MKS3-1930-5XD	19.30		20	153	105	77	50
MKS3-1950-5XD	19.50		20	153	105	77	50
MKS3-2000-5XD	20.00		20	153	105	77	50



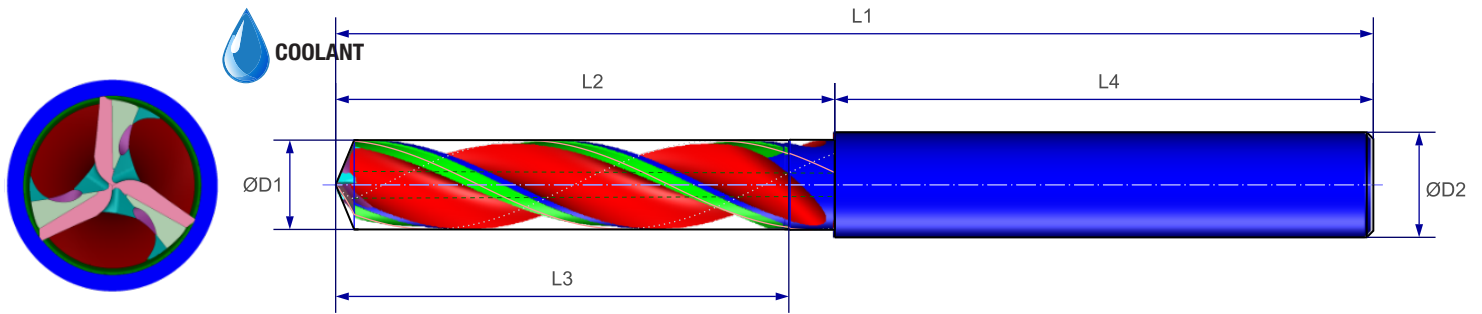
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC3-0600-5XD	6.00		8	91	54	43	36
MKC3-0610-5XD	6.10		8	91	54	43	36
MKC3-0620-5XD	6.20		8	91	54	43	36
MKC3-0630-5XD	6.30		8	91	54	43	36
MKC3-0640-5XD	6.40		8	91	54	43	36
MKC3-0650-5XD	6.50		8	91	54	43	36
MKC3-0660-5XD	6.60		8	91	54	43	36
MKC3-0670-5XD	6.70	5/18-18UNF	8	91	54	43	36
MKC3-0675-5XD	6.75		8	91	54	43	36
MKC3-0680-5XD	6.80		8	91	54	43	36
MKC3-0690-5XD	6.90	M8	8	91	54	43	36
MKC3-0700-5XD	7.00		8	91	54	43	36
MKC3-0710-5XD	7.10	MF8x1	8	91	54	43	36
MKC3-0720-5XD	7.20		8	91	54	43	36
MKC3-0730-5XD	7.30		8	91	54	43	36
MKC3-0740-5XD	7.40		8	91	54	43	36
MKC3-0750-5XD	7.50		8	91	54	43	36
MKC3-0760-5XD	7.60		8	91	54	43	36
MKC3-0770-5XD	7.70		8	91	54	43	36
MKC3-0780-5XD	7.80		8	91	54	43	36
MKC3-0790-5XD	7.90		8	91	54	43	36
MKC3-0800-5XD	8.00		10	103	63	49	40
MKC3-0810-5XD	8.10		10	103	63	49	40
MKC3-0820-5XD	8.20	3/8-16 UNC	10	103	63	49	40
MKC3-0830-5XD	8.30		10	103	63	49	40



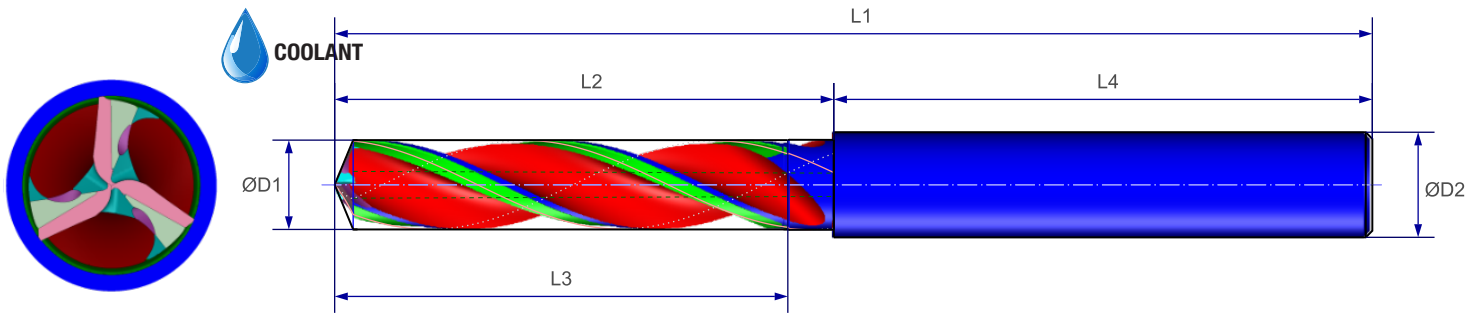
DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC3-0840-5XD	8.40		10	103	63	49	40
MKC3-0850-5XD	8.50		10	103	63	49	40
MKC3-0860-5XD	8.60	3/8-24 UNF	10	103	63	49	40
MKC3-0870-5XD	8.70	M10	10	103	63	49	40
MKC3-0880-5XD	8.80		10	103	63	49	40
MKC3-0890-5XD	8.90	MF10x1.25	10	103	63	49	40
MKC3-0900-5XD	9.00		10	103	63	49	40
MKC3-0910-5XD	9.10		10	103	63	49	40
MKC3-0920-5XD	9.20		10	103	63	49	40
MKC3-0930-5XD	9.30		10	103	63	49	40
MKC3-0940-5XD	9.40		10	103	63	49	40
MKC3-0950-5XD	9.50		10	103	63	49	40
MKC3-0960-5XD	9.60		10	103	63	49	40
MKC3-0970-5XD	9.70		10	103	63	49	40
MKC3-0980-5XD	9.70		10	103	63	49	40
MKC3-0990-5XD	9.90		10	103	63	49	40
MKC3-1000-5XD	10.00	7/16-20 UNF	12	118	73	56	45
MKC3-1010-5XD	10.10		12	118	73	56	45
MKC3-1020-5XD	10.20		12	118	73	56	45
MKC3-1030-5XD	10.30		12	118	73	56	45
MKC3-1040-5XD	10.40	M12	12	118	73	56	45
MKC3-1050-5XD	10.50		12	118	73	56	45
MKC3-1060-5XD	10.60		12	118	73	56	45
MKC3-1070-5XD	10.70	MF12x1.5	12	118	73	56	45
MKC3-1080-5XD	10.80		12	118	73	56	45



DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC3-1090-5XD	10.90		12	118	73	56	45
MKC3-1100-5XD	11.00	1/2-13 UNC	12	118	73	56	45
MKC3-1110-5XD	11.10		12	118	73	56	45
MKC3-1120-5XD	11.20		12	118	73	56	45
MKC3-1140-5XD	11.40		12	118	73	56	45
MKC3-1150-5XD	11.50		12	118	73	56	45
MKC3-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MKC3-1170-5XD	11.70		12	118	73	56	45
MKC3-1180-5XD	11.80		12	118	73	56	45
MKC3-1190-5XD	11.90		12	118	73	56	45
MKC3-1200-5XD	12.00		14	124	80	60	45
MKC3-1210-5XD	12.10		14	124	80	60	45
MKC3-1220-5XD	12.20		14	124	80	60	45
MKC3-1230-5XD	12.30		14	124	80	60	45
MKC3-1250-5XD	12.50		14	124	80	60	45
MKC3-1260-5XD	12.60		14	124	80	60	45
MKC3-1270-5XD	12.70		14	124	80	60	45
MKC3-1280-5XD	12.80		14	124	80	60	45
MKC3-1290-5XD	12.90		14	124	80	60	45
MKC3-1300-5XD	13.00		14	124	80	60	45
MKC3-1310-5XD	13.10		14	124	80	60	45
MKC3-1320-5XD	13.20		14	124	80	60	45
MKC3-1330-5XD	13.30		14	124	80	60	45
MKC3-1350-5XD	13.50		14	124	80	60	45
MKC3-1380-5XD	13.80		14	124	80	60	45



DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC3-1400-5XD	14.00		16	133	86	63	48
MKC3-1410-5XD	14.10		16	133	86	63	48
MKC3-1420-5XD	14.20		16	133	86	63	48
MKC3-1430-5XD	14.30		16	133	86	63	48
MKC3-1440-5XD	14.40		16	133	86	63	48
MKC3-1450-5XD	14.50		16	133	86	63	48
MKC3-1460-5XD	14.60		16	133	86	63	48
MKC3-1480-5XD	14.80		16	133	86	63	48
MKC3-1500-5XD	15.00		16	133	86	63	48
MKC3-1510-5XD	15.10		16	133	86	63	48
MKC3-1520-5XD	15.20		16	133	86	63	48
MKC3-1530-5XD	15.30		16	133	86	63	48
MKC3-1540-5XD	15.40		16	133	86	63	48
MKC3-1550-5XD	15.50		16	133	86	63	48
MKC3-1560-5XD	15.60		16	133	86	63	48
MKC3-1570-5XD	15.70		16	133	86	63	48
MKC3-1580-5XD	15.80		16	133	86	63	48
MKC3-1590-5XD	15.90		16	133	86	63	48
MKC3-1600-5XD	16.00		18	143	97	71	48
MKC3-1610-5XD	16.10		18	143	97	71	48
MKC3-1650-5XD	16.50		18	143	97	71	48
MKC3-1700-5XD	17.00		18	143	97	71	48
MKC3-1750-5XD	17.50		18	143	97	71	48
MKC3-1770-5XD	17.70		18	143	97	71	48
MKC3-1800-5XD	18.00		20	153	105	77	50



DESCRIPTION EXAMPLE...M=METRIC, K=CAST IRON, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MKC3-1840-5XD	18.40		20	153	105	77	50
MKC3-1850-5XD	18.50		20	153	105	77	50
MKC3-1900-5XD	19.00		20	153	105	77	50
MKC3-1910-5XD	19.10		20	153	105	77	50
MKC3-1920-5XD	19.20		20	153	105	77	50
MKC3-1930-5XD	19.30		20	153	105	77	50
MKC3-1950-5XD	19.50		20	153	105	77	50
MKC3-2000-5XD	20.00		20	153	105	77	50

Tool Diameter	
inch	0.125 0.188 0.25 0.313 0.375 0.5 0.625 0.75
mm	3.0 4.0 6.0 8.0 10.0 12.0 16.0 20.0

2-Flute	Cast and Low-Strength Ductile Irons	Tensile Strength RM (MPa): 150-400	Hardness (HB) or HRC: 12-290
----------------	--	---	-------------------------------------

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	225	355	485	IPR	.003-.005	.006-.008	.008-.011	.010-.014	.011-.016	.013-.017	.014-.02	.016-.021
SFM	Thru-Coolant	390	520	650	IPR	.003-.005	.006-.008	.008-.011	.010-.014	.011-.016	.013-.017	.014-.02	.016-.021

	Low and Medium Strength CGI and Ductile Irons	Tensile Strength RM (MPa): 400-600	Hardness (HB) or HRC:130-260
--	--	---	-------------------------------------

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	230	300	400	IPR	.003-.004	.005-.007	.007-.01	.009-.012	.010-.014	.012-.016	.013-.018	.015-.028
SFM	Thru-Coolant	260	395	525	IPR	.003-.004	.005-.007	.007-.01	.009-.012	.010-.014	.012-.016	.013-.018	.015-.028

 Austempered Ductile Iron	Tensile Strength RM (MPa): 600-850	Hardness (HB) or HRC: 180-350	
----------------------------------	---	--------------------------------------	--

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	200	290	375	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016
SFM	Thru-Coolant	200	265	400	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016

3-Flute	Cast and Low-Strength Ductile Irons	Tensile Strength RM (MPa): 150-400	Hardness (HB) or HRC: 12-290
----------------	--	---	-------------------------------------

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	225	355	485	IPR	.005-.008	.006-.009	.007-.012	.008-.015	.010-.018	.011-.020	.013-.024	.014-.028
SFM	Thru-Coolant	425	785	945	IPR	.005-.008	.006-.009	.007-.012	.008-.015	.010-.018	.011-.020	.013-.024	.014-.028

	Low and Medium Strength CGI and Ductile Irons	Tensile Strength RM (MPa): 400-600	Hardness (HB) or HRC:130-260
--	--	---	-------------------------------------

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	250	310	400	IPR	.006 - .009	.007-.011	.009-.013	.010-.015	.011-.017	.013-.020	0.014	.015-.020
SFM	Thru-Coolant	600	720	875	IPR	.006 - .009	.007-.011	.009-.013	.010-.015	.011-.017	.013-.020	0.014	.015-.020

 Austempered Ductile Iron	Tensile Strength RM (MPa): 600-850	Hardness (HB) or HRC: 180-350	
----------------------------------	---	--------------------------------------	--

Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	200	290	420	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016
SFM	Thru-Coolant	425	500	600	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016

Material Group	Cutting Speed - vc Range - m/min			Metric									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0		
K	1	60	85	110	mm/r	0.11-0.20	0.12-0.20	0.16-0.28	0.20-0.35	0.22-0.42	0.24-0.50	0.28-0.61	0.30-0.68
	2	70	72	90	mm/r	0.11-0.20	0.12-0.20	0.16-0.28	0.20-0.35	0.22-0.42	0.24-0.50	0.28-0.61	0.30-0.68
	3	50	51	70	mm/r	0.09-0.18	0.10-0.18	0.14-0.26	0.18-0.33	0.20-0.40	0.22-0.48	0.26-0.59	0.28-0.66

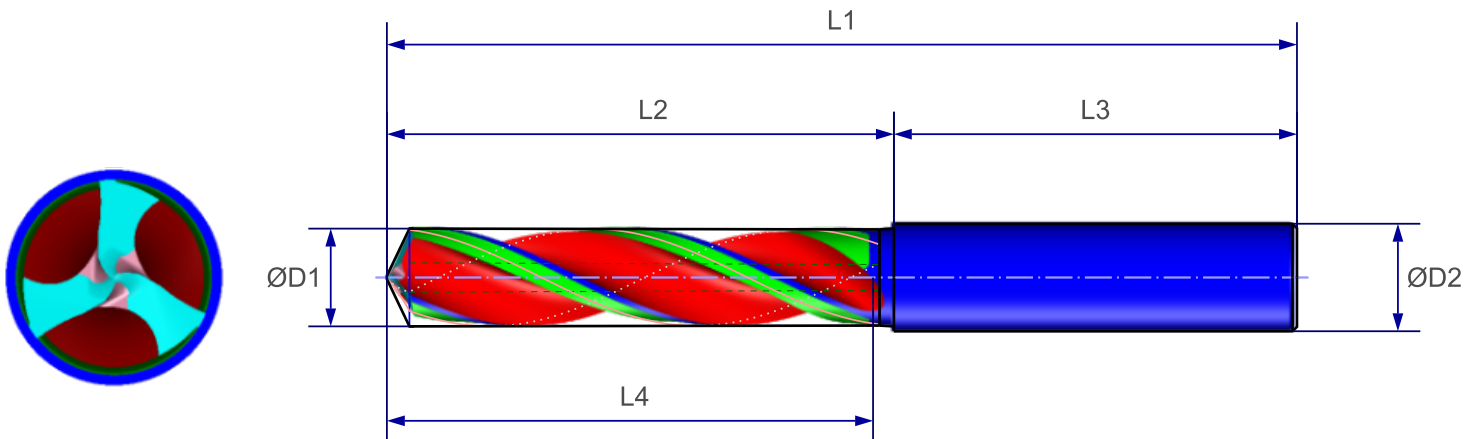
Material Group	Cutting Speed - vc Range - SFM			Inch									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				1/8 .125	3/16 .188	1/4 .250	5/16 .313	3/8 .375	1/2 .500	5/8 .625	3/4 .750		
K	1	60	85	110	IPR	.004-.008	.005-.008	.006-.011	.008-.014	.009-.017	.009-.020	.011-.024	.012-.027
	2	70	72	90	IPR	.004-.008	.005-.008	.006-.011	.008-.014	.009-.017	.009-.020	.011-.024	.012-.027
	3	50	51	70	IPR	.003-.007	.004-.007	.005-.010	.007-.013	.008-.016	.008-.019	.010-.023	.011-.026

Material Group	Cutting Speed - vc Range - m/min			Metric									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0		
K	1	80	140	161	mm/r	0.13-0.20	0.14-0.24	0.17-0.31	0.20-0.39	0.25-0.45	0.29-0.51	0.33-0.62	0.36-0.70
	2	80	120	120	mm/r	0.13-0.20	0.15-0.23	0.19-0.28	0.23-0.34	0.26-0.38	0.29-0.43	0.34-0.50	0.36-0.54
	3	60	84	130	mm/r	0.09-0.18	0.10-0.18	0.14-0.26	0.18-0.33	0.20-0.40	0.22-0.48	0.26-0.59	0.28-0.66

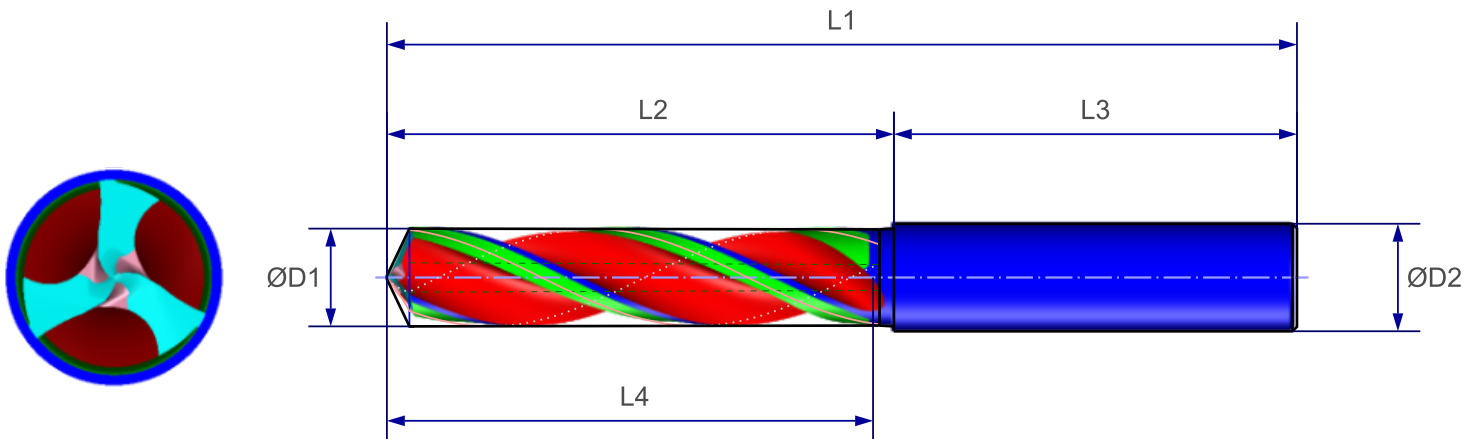
Material Group	Cutting Speed - vc Range - SFM			Inch									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				1/8 .125	3/16 .188	1/4 .250	5/16 .313	3/8 .375	1/2 .500	5/8 .625	3/4 .750		
K	1	260	460	520	IPR	.005-.008	.006-.009	.007-.012	.008-.015	.010-.018	.011-.020	.013-.024	.014-.028
	2	260	390	390	IPR	.005-.008	.006-.009	.007-.011	.009-.013	.010-.015	.011-.017	.013-.020	.014-.021
	3	200	280	430	IPR	.003-.007	.004-.007	.005-.010	.007-.013	.008-.016	.008-.019	.010-.023	.011-.026

Material Group	Cutting Speed - vc Range - m/min			Metric									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0		
K	1	60	110	150	mm/r	0.10-0.20	0.13-0.24	0.16-0.31	0.20-0.39	0.24-0.44	0.27-0.51	0.33-0.62	0.36-0.70
	2	60	94	100	mm/r	0.13-0.20	0.16-0.23	0.20-0.28	0.23-0.34	0.26-0.38	0.29-0.43	0.34-0.50	0.36-0.54
	3	50	84	110	mm/r	0.10-0.19	0.13-0.20	0.16-0.31	0.20-0.37	0.23-0.44	0.26-0.48	0.31-0.58	0.33-0.64

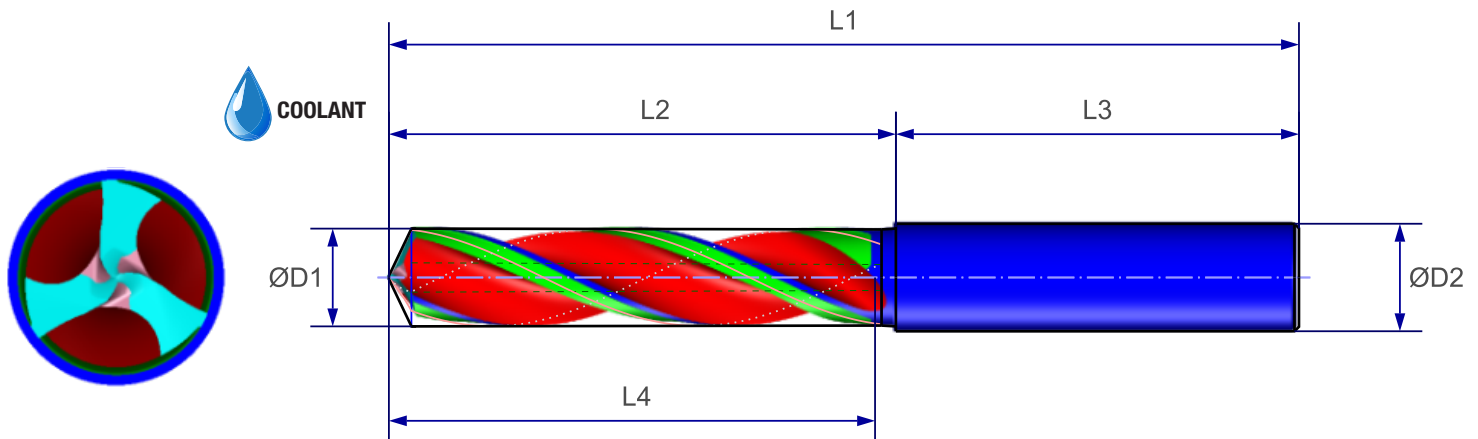
Material Group	Cutting Speed - vc Range - SFM			Inch									
	min	Starting Value	max	Recommended Feed Rate (f) by Diameter									
				1/8 .125	3/16 .188	1/4 .250	5/16 .313	3/8 .375	1/2 .500	5/8 .625	3/4 .750		
K	1	200	360	490	IPR	.003-.006	.003-.007	.004-.009	.006-.012	.008-.016	.012-.019	.015-.023	.020-.028
	2	200	310	330	IPR	.003-.006	.003-.007	.004-.009	.006-.012	.008-.016	.012-.019	.015-.023	.020-.028
	3	160	280	360	IPR	.003-.006	.003-.007	.004-.009	.006-.012	.008-.016	.012-.019	.015-.023	.020-.028



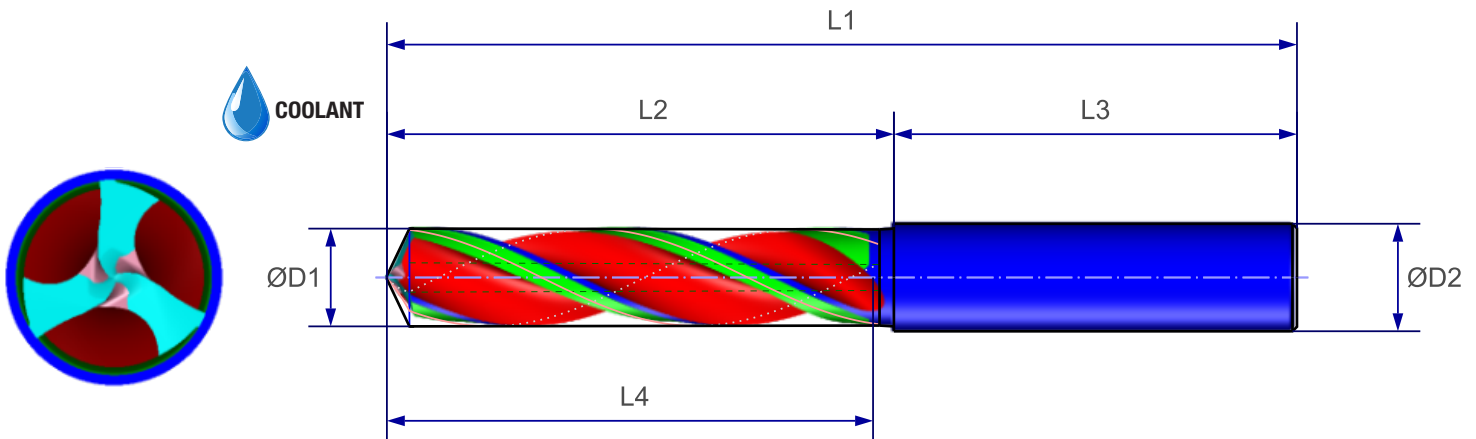
DESCRIPTION EXAMPLE... I=INCH, N=NON FERROUS, S=SOLID, 3=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
INS3-1250-5XD	.125	1/8	6	2.598	1.063	0.906	1.417
INS3-1406-5XD	.141	9/64	6	2.598	1.102	0.906	1.417
INS3-1540-5XD	.154	10-24 UNC	6	2.913	1.339	1.142	1.417
INS3-1562-5XD	.156	5/32	6	2.913	1.339	1.142	1.417
INS3-1610-5XD	.161	10-32 UNF	6	2.913	1.378	1.142	1.417
INS3-1690-5XD	.169	M5	6	2.913	1.378	1.142	1.417
INS3-1719-5XD	.172	11/64	6	2.913	1.378	1.142	1.417
INS3-1875-5XD	.188	3/16	6	3.228	1.654	1.378	1.417
INS3-1890-5XD	.189	12-32 UNF	6	3.228	1.654	1.378	1.417
INS3-2010-5XD	.201	M6	6	3.228	1.654	1.378	1.417
INS3-2031-5XD	.203	13/64	6	3.228	1.654	1.378	1.417
INS3-2188-5XD	.219	7/32	6	3.228	1.693	1.378	1.417
INS3-2344-5XD	.234	15/64	6	3.228	1.693	1.378	1.417
INS3-2500-5XD	.250	1/4	8	3.583	2.047	1.693	1.417
INS3-2640-5XD	.264	5/18-18UNF	8	3.583	2.087	1.693	1.417
INS3-2656-5XD	.266	17/64	8	3.583	2.087	1.693	1.417
INS3-2800-5XD	.280	MF8x1	8	3.583	2.087	1.693	1.417
INS3-2813-5XD	.281	9/32	8	3.583	2.087	1.693	1.417
INS3-2969-5XD	.297	19/64	8	3.583	2.126	1.693	1.417
INS3-3125-5XD	.313	5/16	8	3.583	2.126	1.693	1.417
INS3-3281-5XD	.328	21/64	10	4.055	2.402	1.929	1.575
INS3-3438-5XD	.344	11/32	10	4.055	2.441	1.929	1.575
INS3-3594-5XD	.359	23/64	10	4.055	2.441	1.929	1.575
INS3-3750-5XD	.375	3/8	10	4.055	2.480	1.929	1.575
INS3-3906-5XD	.391	25/64	10	4.055	2.480	1.929	1.575
INS3-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.205	1.575



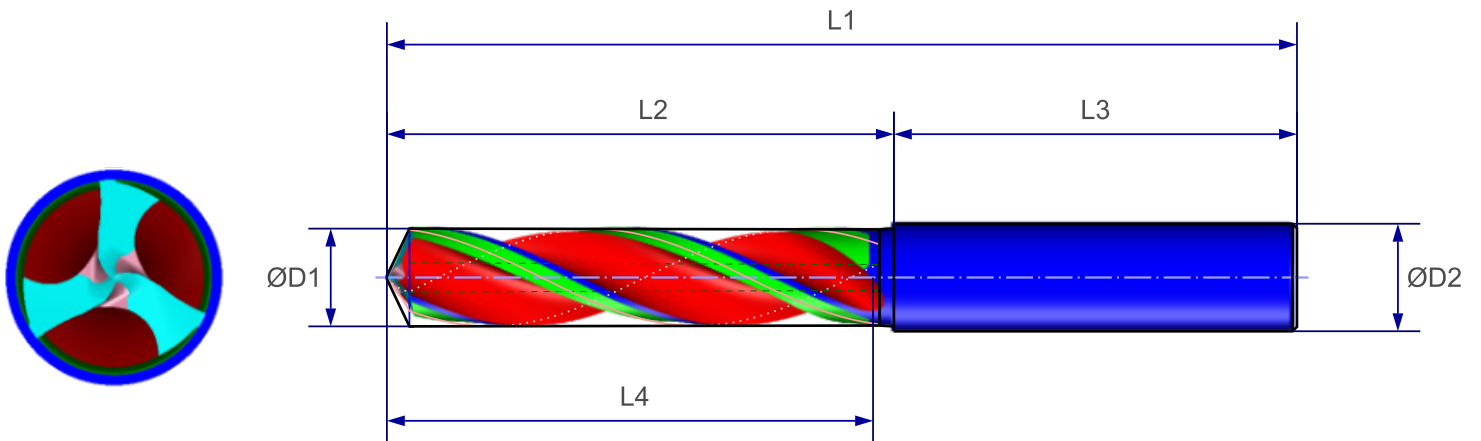
DESCRIPTION EXAMPLE... I=INCH, N=NON FERROUS, S=SOLID, 3=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
INS3-4063-5XD	.406	13/32	12	4.646	2.795	2.205	1.772
INS3-4210-5XD	.421	MF12x1.5	12	4.646	2.835	2.205	1.772
INS3-4375-5XD	.438	7/16	12	4.646	2.835	2.205	1.772
INS3-4531-5XD	.453	29/64	12	4.646	2.874	2.205	1.772
INS3-4570-5XD	.457	1/2-20 UNF	12	4.646	2.874	2.205	1.772
INS3-4690-5XD	.469	15/32	12	4.646	2.874	2.205	1.772
INS3-4844-5XD	.484	31/64	14	4.882	3.071	2.362	1.772
INS3-5000-5XD	.500	1/2	14	4.882	3.110	2.362	1.772
INS3-5469-5XD	.547	35/64	14	4.882	3.150	2.362	1.89
INS3-5625-5XD	.563	9/16	16	5.236	3.307	2.480	1.89
INS3-5781-5XD	.578	37/64	16	5.236	3.346	2.480	1.91
INS3-5938-5XD	.594	19/32	16	5.236	3.346	2.480	1.91
INS3-6094-5XD	.609	39/64	16	5.236	3.386	2.480	1.91
INS3-6250-5XD	.625	5/8	16	5.236	3.386	2.480	1.91
INS3-6875-5XD	.688	11/16	18	5.630	3.819	2.795	1.91
INS3-7500-5XD	.750	3/4	20	6.024	4.134	3.031	1.99



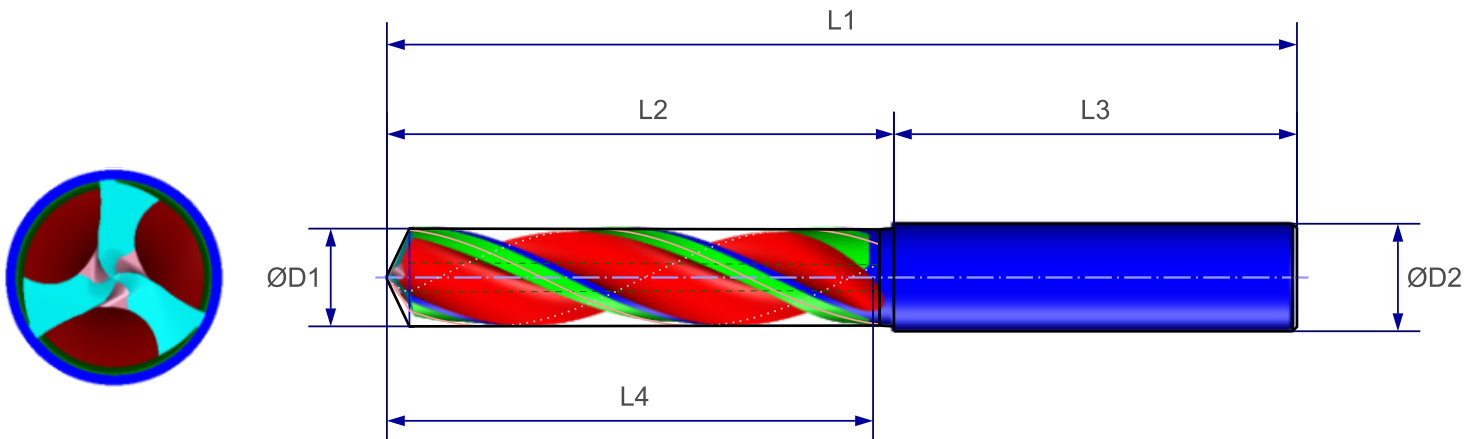
DESCRIPTION EXAMPLE... I=INCH, N= NON FERROUS, C=COOLANT, 3=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 metric	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
INS3-1875-5XD	.188	3/16	6	3.228	1.654	1.378	1.417
INS3-1890-5XD	.189	12-32 UNF	6	3.228	1.654	1.378	1.417
INS3-2010-5XD	.201	M6	6	3.228	1.654	1.378	1.417
INS3-2031-5XD	.203	13/64	6	3.228	1.654	1.378	1.417
INS3-2188-5XD	.219	7/32	6	3.228	1.693	1.378	1.417
INS3-2344-5XD	.234	15/64	6	3.228	1.693	1.378	1.417
INS3-2500-5XD	.250	1/4	8	3.583	2.047	1.693	1.417
INS3-2640-5XD	.264	5/18-18UNF	8	3.583	2.087	1.693	1.417
INS3-2656-5XD	.266	17/64	8	3.583	2.087	1.693	1.417
INS3-2800-5XD	.280	MF8x1	8	3.583	2.087	1.693	1.417
INS3-2813-5XD	.281	9/32	8	3.583	2.087	1.693	1.417
INS3-2969-5XD	.297	19/64	8	3.583	2.126	1.693	1.417
INS3-3125-5XD	.313	5/16	8	3.583	2.126	1.693	1.417
INS3-3281-5XD	.328	21/64	10	4.055	2.402	1.929	1.575
INS3-3438-5XD	.344	11/32	10	4.055	2.441	1.929	1.575
INS3-3594-5XD	.359	23/64	10	4.055	2.441	1.929	1.575
INS3-3750-5XD	.375	3/8	10	4.055	2.480	1.929	1.575
INS3-3906-5XD	.391	25/64	10	4.055	2.480	1.929	1.575
INS3-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.205	1.575
INS3-4063-5XD	.406	13/32	12	4.646	2.795	2.205	1.772
INS3-4210-5XD	.421	MF12x1.5	12	4.646	2.835	2.205	1.772
INS3-4375-5XD	.438	7/16	12	4.646	2.835	2.205	1.772
INS3-4531-5XD	.453	29/64	12	4.646	2.874	2.205	1.772
INS3-4570-5XD	.457	1/2-20 UNF	12	4.646	2.874	2.205	1.772
INS3-4690-5XD	.469	15/32	12	4.646	2.874	2.205	1.772
INS3-4844-5XD	.484	31/64	14	4.882	3.071	2.362	1.772



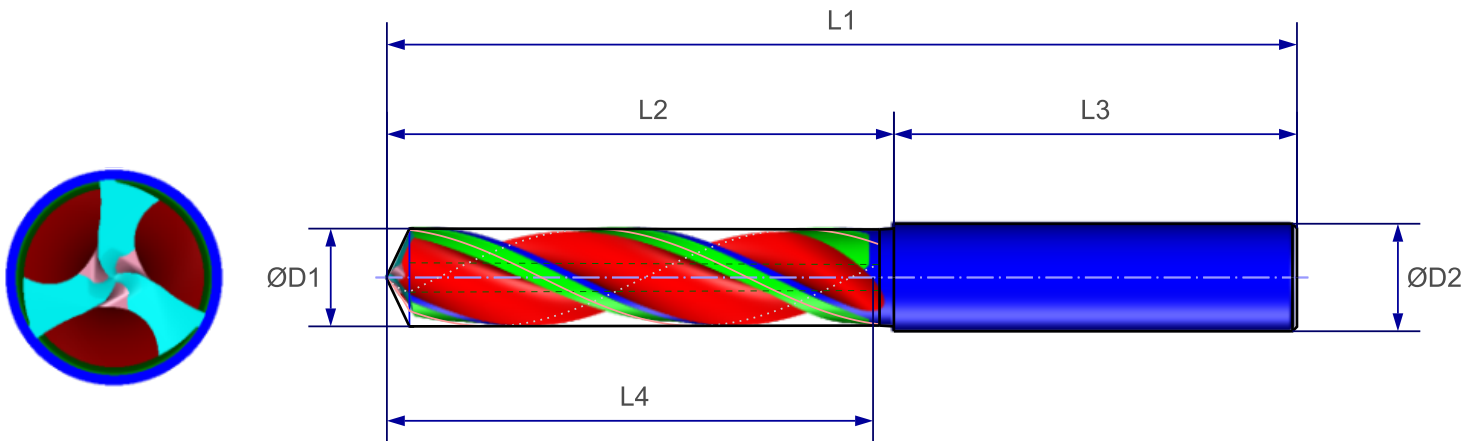
DESCRIPTION EXAMPLE... I=INCH, N= NON FERROUS, C=COOLANT, 3=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 metric	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
INS3-5000-5XD	.500	1/2	14	4.882	3.110	2.362	1.772
INS3-5469-5XD	.547	35/64	14	4.882	3.150	2.362	1.89
INS3-5625-5XD	.563	9/16	16	5.236	3.307	2.480	1.89
INS3-5781-5XD	.578	37/64	16	5.236	3.346	2.480	1.91
INS3-5938-5XD	.594	19/32	16	5.236	3.346	2.480	1.91
INS3-6094-5XD	.609	39/64	16	5.236	3.386	2.480	1.91
INS3-6250-5XD	.625	5/8	16	5.236	3.386	2.480	1.91
INS3-6875-5XD	.688	11/16	18	5.630	3.819	2.795	1.91
INS3-7500-5XD	.750	3/4	20	6.024	4.134	3.031	1.99



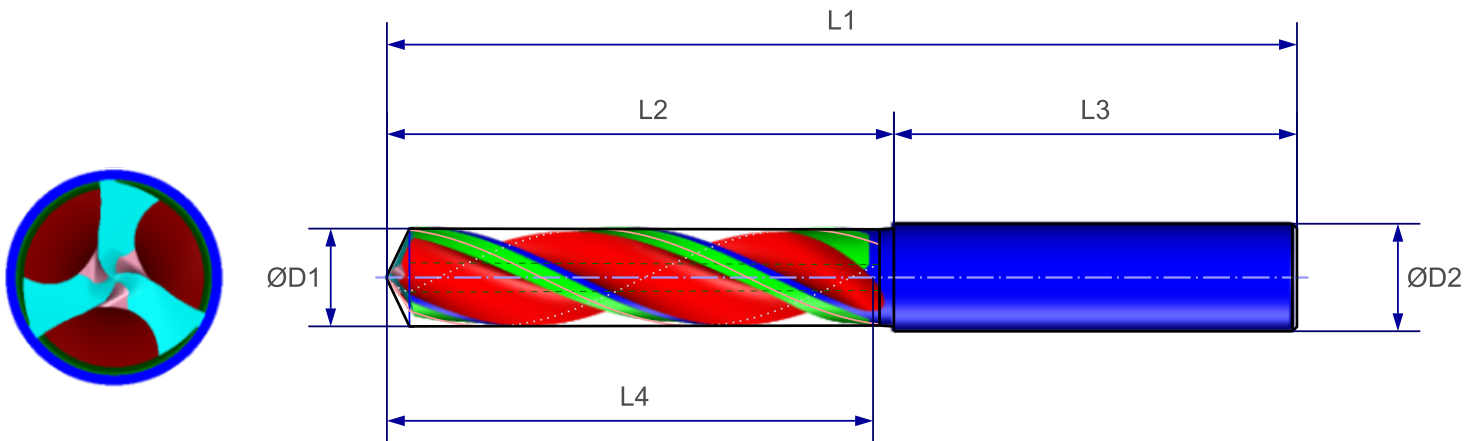
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-0300-5XD	3.00		6	66	27	23	36
MNS3-0310-5XD	3.10		6	66	27	23	36
MNS3-0320-5XD	3.20		6	66	27	23	36
MNS3-0330-5XD	3.30		6	66	27	23	36
MNS3-0340-5XD	3.40	M4	6	66	28	23	36
MNS3-0350-5XD	3.50		6	66	28	23	36
MNS3-0360-5XD	3.60		6	66	28	23	36
MNS3-0370-5XD	3.70		6	66	28	23	36
MNS3-0380-5XD	3.80		6	74	34	29	36
MNS3-0390-5XD	3.90	10-24 UNC	6	74	34	29	36
MNS3-0400-5XD	4.00		6	74	35	29	36
MNS3-0410-5XD	4.10	10-32 UNC	6	74	35	29	36
MNS3-0420-5XD	4.20		6	74	35	29	36
MNS3-0430-5XD	4.30	M5	6	74	35	29	36
MNS3-0440-5XD	4.40		6	74	35	29	36
MNS3-0450-5XD	4.50		6	74	35	29	36
MNS3-0470-5XD	4.70		6	74	36	29	36
MNS3-0480-5XD	4.80	12-32 UNC	6	82	42	35	36
MNS3-0490-5XD	4.90		6	82	42	35	36
MNS3-0500-5XD	5.00		6	82	42	35	36
MNS3-0510-5XD	5.10	M6	6	82	42	35	36
MNS3-0520-5XD	5.20		6	82	42	35	36
MNS3-0530-5XD	5.30	1/4-20 UNC	6	82	42	35	36
MNS3-0540-5XD	5.40		6	82	43	35	36
MNS3-0550-5XD	5.50		6	82	43	35	36
MNS3-0560-5XD	5.60		6	82	43	35	36



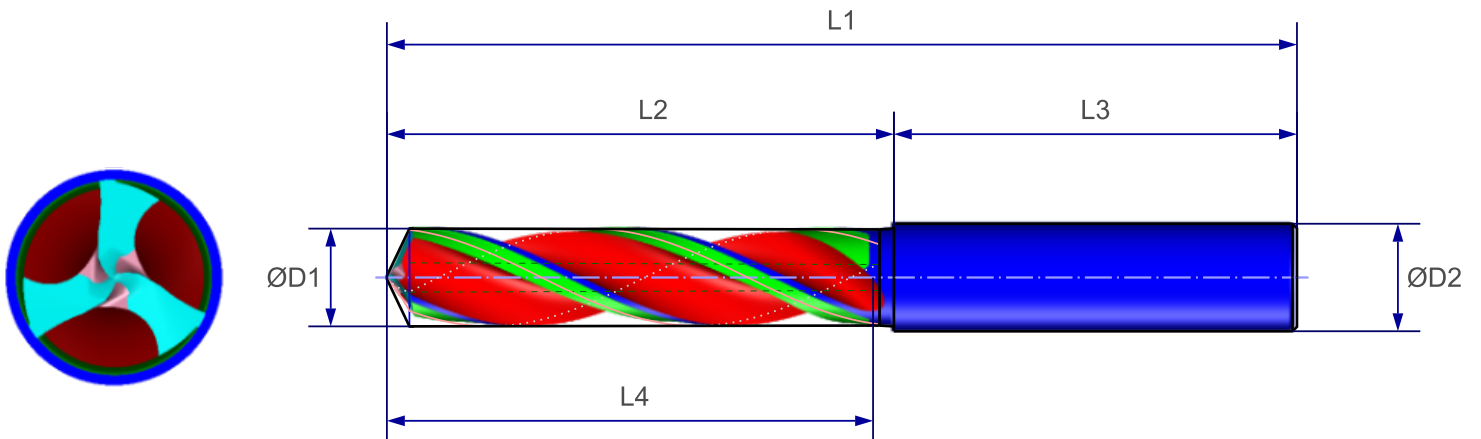
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-0570-5XD	5.70		6	82	43	35	36
MNS3-0580-5XD	5.80		6	82	43	35	36
MNS3-0590-5XD	5.90		6	82	43	35	36
MNS3-0600-5XD	6.00		8	91	52	43	36
MNS3-0610-5XD	6.10		8	91	52	43	36
MNS3-0620-5XD	6.20		8	91	52	43	36
MNS3-0630-5XD	6.30		8	91	52	43	36
MNS3-0640-5XD	6.40		8	91	52	43	36
MNS3-0650-5XD	6.50		8	91	52	43	36
MNS3-0660-5XD	6.60		8	91	52	43	36
MNS3-0670-5XD	6.70	5/18-18UNF	8	91	53	43	36
MNS3-0675-5XD	6.75		8	91	53	43	36
MNS3-0680-5XD	6.80		8	91	53	43	36
MNS3-0690-5XD	6.90	M8	8	91	53	43	36
MNS3-0700-5XD	7.00		8	91	53	43	36
MNS3-0710-5XD	7.10	MF8x1	8	91	53	43	36
MNS3-0720-5XD	7.20		8	91	53	43	36
MNS3-0730-5XD	7.30		8	91	53	43	36
MNS3-0740-5XD	7.40		8	91	54	43	36
MNS3-0750-5XD	7.50		8	91	54	43	36
MNS3-0760-5XD	7.60		8	91	54	43	36
MNS3-0770-5XD	7.70		8	91	54	43	36
MNS3-0780-5XD	7.80		8	91	54	43	36
MNS3-0790-5XD	7.90		8	91	54	43	36
MNS3-0800-5XD	8.00		10	103	61	49	40
MNS3-0810-5XD	8.10		10	103	61	49	40
MNS3-0820-5XD	8.20	3/8-16 UNC	10	103	61	49	40



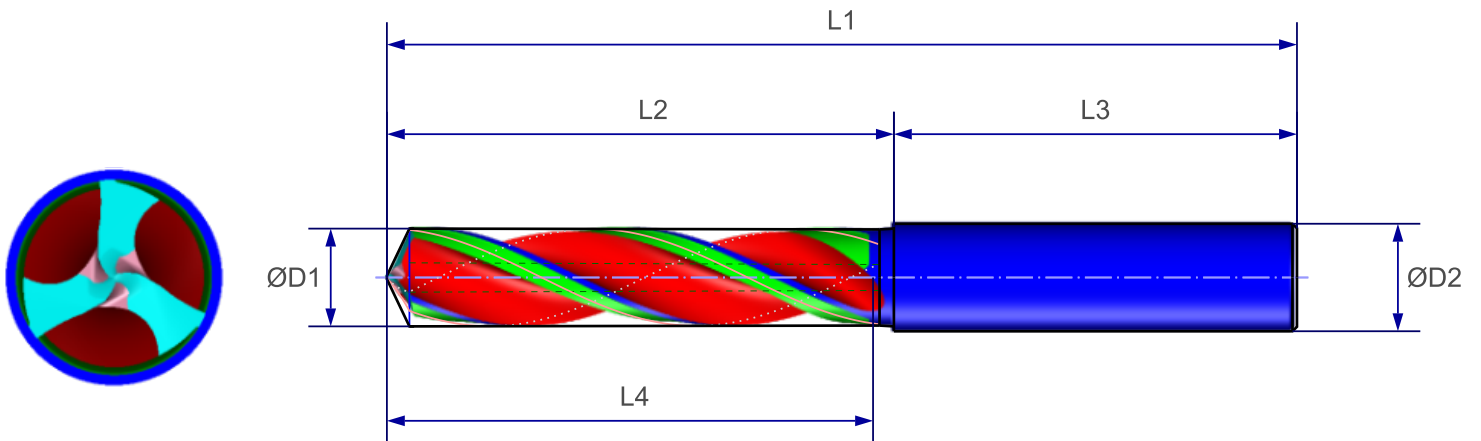
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-0830-5XD	8.30		10	103	61	49	40
MNS3-0840-5XD	8.40		10	103	61	49	40
MNS3-0850-5XD	8.50		10	103	61	49	40
MNS3-0860-5XD	8.60	3/8-24 UNF	10	103	61	49	40
MNS3-0870-5XD	8.70	M10	10	103	62	49	40
MNS3-0880-5XD	8.80		10	103	62	49	40
MNS3-0890-5XD	8.90	MF10x1.25	10	103	62	49	40
MNS3-0900-5XD	9.00		10	103	62	49	40
MNS3-0910-5XD	9.10		10	103	62	49	40
MNS3-0920-5XD	9.20		10	103	62	49	40
MNS3-0930-5XD	9.30		10	103	62	49	40
MNS3-0940-5XD	9.40		10	103	63	49	40
MNS3-0950-5XD	9.50		10	103	63	49	40
MNS3-0960-5XD	9.60		10	103	63	49	40
MNS3-0970-5XD	9.70		10	103	63	49	40
MNS3-0980-5XD	9.70		10	103	63	49	40
MNS3-0990-5XD	9.90		10	103	63	49	40
MNS3-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MNS3-1010-5XD	10.10		12	118	71	56	45
MNS3-1020-5XD	10.20		12	118	71	56	45
MNS3-1030-5XD	10.30		12	118	71	56	45
MNS3-1040-5XD	10.40	M12	12	118	71	56	45
MNS3-1050-5XD	10.50		12	118	71	56	45
MNS3-1060-5XD	10.60		12	118	71	56	45
MNS3-1070-5XD	10.70	MF12x1.5	12	118	72	56	45
MNS3-1080-5XD	10.80		12	118	72	56	45



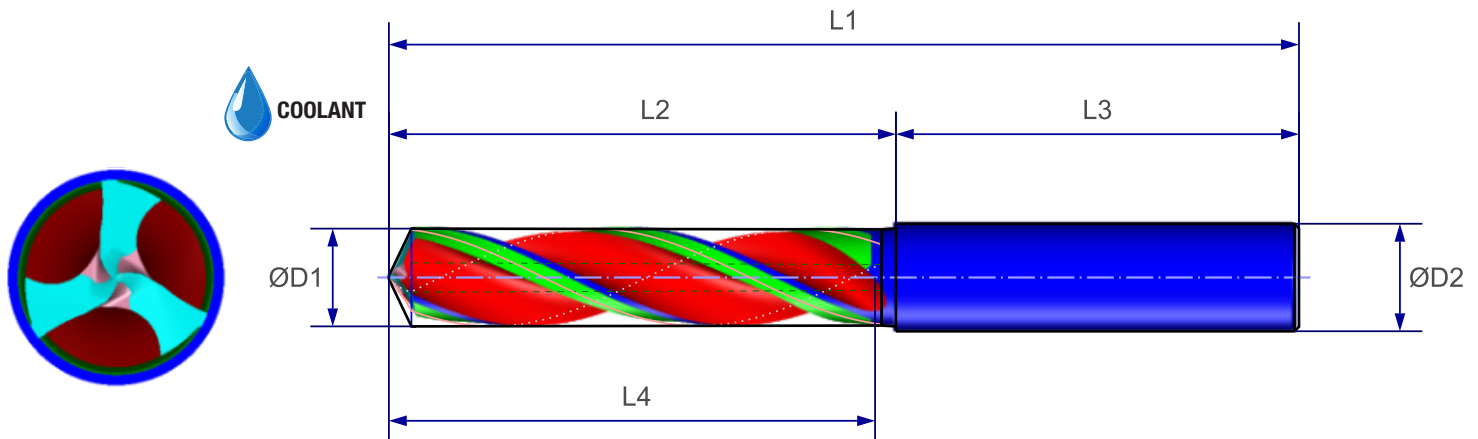
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-1090-5XD	10.90		12	118	72	56	45
MNS3-1100-5XD	11.00	1/2-13 UNC	12	118	72	56	45
MNS3-1110-5XD	11.10		12	118	72	56	45
MNS3-1120-5XD	11.20		12	118	72	56	45
MNS3-1140-5XD	11.40		12	118	73	56	45
MNS3-1150-5XD	11.50		12	118	73	56	45
MNS3-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MNS3-1170-5XD	11.70		12	118	73	56	45
MNS3-1180-5XD	11.80		12	118	73	56	45
MNS3-1190-5XD	11.90		12	118	73	56	45
MNS3-1200-5XD	12.00		14	124	78	60	45
MNS3-1210-5XD	12.10		14	124	78	60	45
MNS3-1220-5XD	12.20		14	124	78	60	45
MNS3-1230-5XD	12.30		14	124	78	60	45
MNS3-1250-5XD	12.50		14	124	78	60	45
MNS3-1260-5XD	12.60		14	124	78	60	45
MNS3-1270-5XD	12.70		14	124	79	60	45
MNS3-1280-5XD	12.80		14	124	79	60	45
MNS3-1290-5XD	12.90		14	124	79	60	45
MNS3-1300-5XD	13.00		14	124	79	60	45
MNS3-1310-5XD	13.10		14	124	79	60	45
MNS3-1320-5XD	13.20		14	124	79	60	45
MNS3-1330-5XD	13.30		14	124	79	60	45
MNS3-1350-5XD	13.50		14	124	80	60	45
MNS3-1380-5XD	13.80		14	124	80	60	45
MNS3-1400-5XD	14.00		16	133	84	63	48



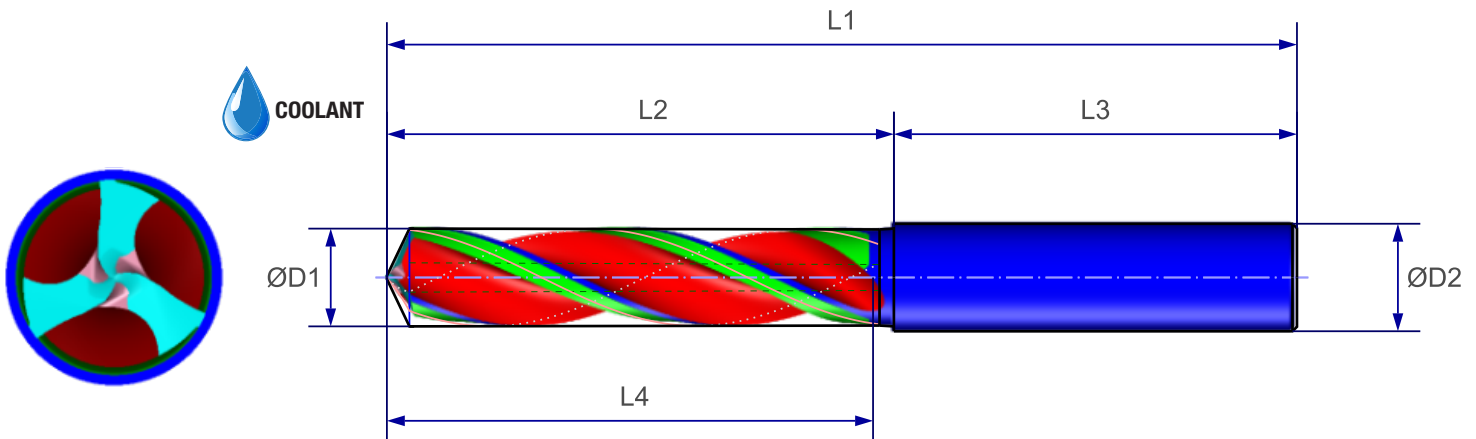
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-1410-5XD	14.10		16	133	84	63	48
MNS3-1420-5XD	14.20		16	133	84	63	48
MNS3-1430-5XD	14.30		16	133	84	63	48
MNS3-1440-5XD	14.40		16	133	84	63	48
MNS3-1450-5XD	14.50		16	133	84	63	48
MNS3-1460-5XD	14.60		16	133	84	63	48
MNS3-1480-5XD	14.80		16	133	85	63	48
MNS3-1500-5XD	15.00		16	133	85	63	48
MNS3-1510-5XD	15.10		16	133	85	63	48
MNS3-1520-5XD	15.20		16	133	85	63	48
MNS3-1530-5XD	15.30		16	133	85	63	48
MNS3-1540-5XD	15.40		16	133	86	63	48
MNS3-1550-5XD	15.50		16	133	86	63	48
MNS3-1560-5XD	15.60		16	133	86	63	48
MNS3-1570-5XD	15.70		16	133	86	63	48
MNS3-1580-5XD	15.80		16	133	86	63	48
MNS3-1590-5XD	15.90		16	133	86	63	48
MNS3-1600-5XD	16.00		18	143	95	71	48
MNS3-1610-5XD	16.10		18	143	95	71	48
MNS3-1650-5XD	16.50		18	143	95	71	48
MNS3-1700-5XD	17.00		18	143	96	71	48
MNS3-1750-5XD	17.50		18	143	97	71	48
MNS3-1770-5XD	17.70		18	143	97	71	48
MNS3-1800-5XD	18.00		20	153	104	77	50
MNS3-1840-5XD	18.40		20	153	104	77	50
MNS3-1850-5XD	18.50		20	153	104	77	50



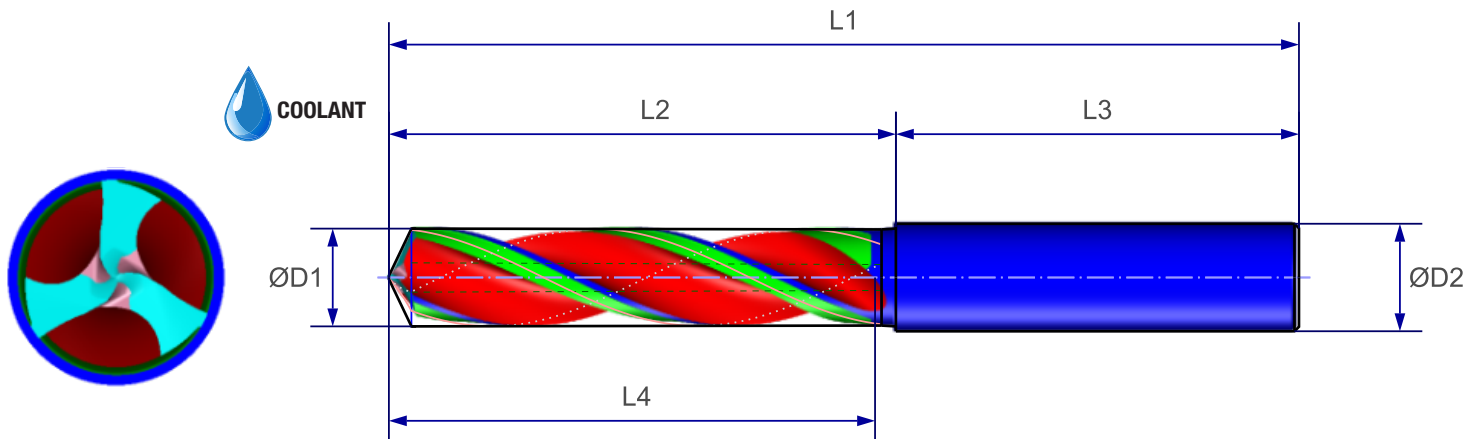
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, S=SOLID, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNS3-1900-5XD	19.00		20	153	105	77	50
MNS3-1910-5XD	19.10		20	153	105	77	50
MNS3-1920-5XD	19.20		20	153	105	77	50
MNS3-1930-5XD	19.30		20	153	105	77	50
MNS3-1950-5XD	19.50		20	153	106	77	50
MNS3-2000-5XD	20.00		20	153	107	77	50



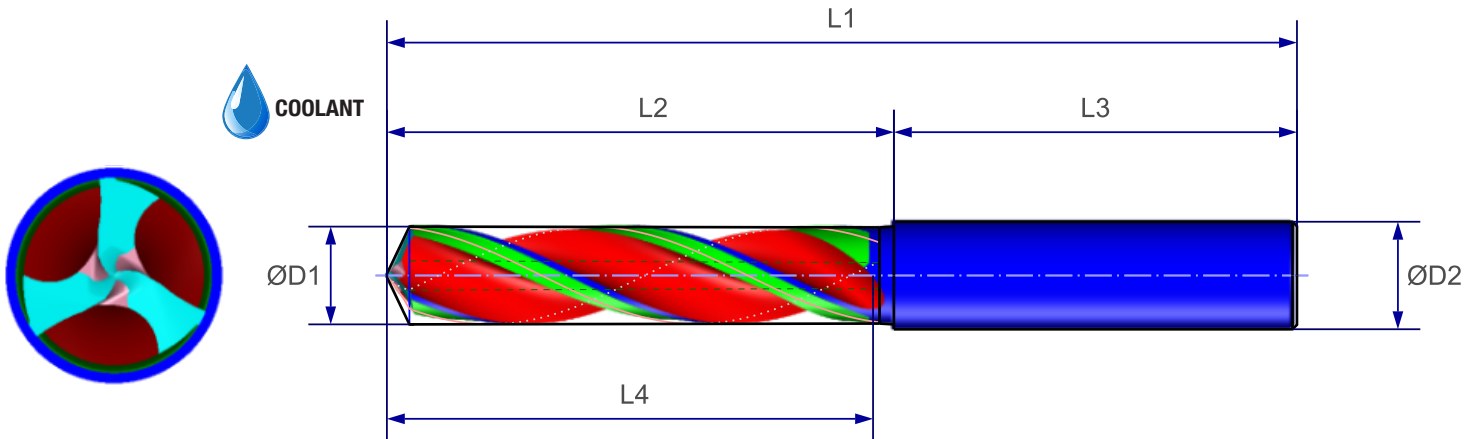
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-0300-5XD	3.00		6	66	27	23	36
MNC3-0310-5XD	3.10		6	66	27	23	36
MNC3-0320-5XD	3.20		6	66	27	23	36
MNC3-0330-5XD	3.30		6	66	27	23	36
MNC3-0340-5XD	3.40	M4	6	66	28	23	36
MNC3-0350-5XD	3.50		6	66	28	23	36
MNC3-0360-5XD	3.60		6	66	28	23	36
MNC3-0370-5XD	3.70		6	66	28	23	36
MNC3-0380-5XD	3.80		6	74	34	29	36
MNC3-0390-5XD	3.90	10-24 UNC	6	74	34	29	36
MNC3-0400-5XD	4.00		6	74	35	29	36
MNC3-0410-5XD	4.10	10-32 UNC	6	74	35	29	36
MNC3-0420-5XD	4.20		6	74	35	29	36
MNC3-0430-5XD	4.30	M5	6	74	35	29	36
MNC3-0440-5XD	4.40		6	74	35	29	36
MNC3-0450-5XD	4.50		6	74	35	29	36
MNC3-0470-5XD	4.70		6	74	36	29	36
MNC3-0480-5XD	4.80	12-32 UNC	6	82	42	35	36
MNC3-0490-5XD	4.90		6	82	42	35	36
MNC3-0500-5XD	5.00		6	82	42	35	36
MNC3-0510-5XD	5.10	M6	6	82	42	35	36
MNC3-0520-5XD	5.20		6	82	42	35	36
MNC3-0530-5XD	5.30	1/4-20 UNC	6	82	42	35	36
MNC3-0540-5XD	5.40		6	82	43	35	36
MNC3-0550-5XD	5.50		6	82	43	35	36



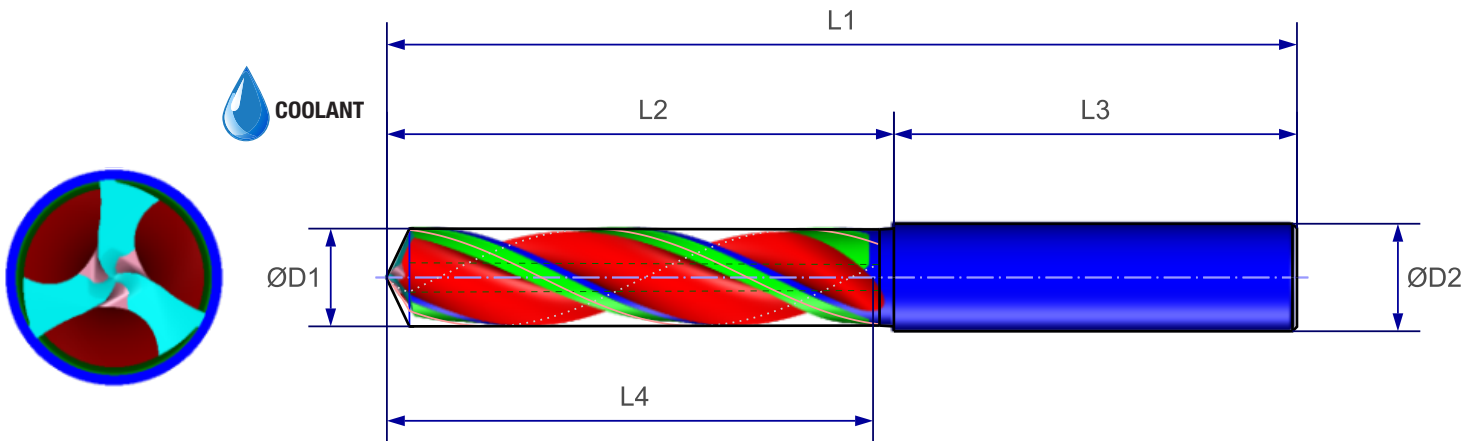
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-0560-5XD	5.60		6	82	43	35	36
MNC3-0570-5XD	5.70		6	82	43	35	36
MNC3-0580-5XD	5.80		6	82	43	35	36
MNC3-0590-5XD	5.90		6	82	43	35	36
MNC3-0600-5XD	6.00		8	91	52	43	36
MNC3-0610-5XD	6.10		8	91	52	43	36
MNC3-0620-5XD	6.20		8	91	52	43	36
MNC3-0630-5XD	6.30		8	91	52	43	36
MNC3-0640-5XD	6.40		8	91	52	43	36
MNC3-0650-5XD	6.50		8	91	52	43	36
MNC3-0660-5XD	6.60		8	91	52	43	36
MNC3-0670-5XD	6.70	5/18-18UNF	8	91	53	43	36
MNC3-0675-5XD	6.75		8	91	53	43	36
MNC3-0680-5XD	6.80		8	91	53	43	36
MNC3-0690-5XD	6.90	M8	8	91	53	43	36
MNC3-0700-5XD	7.00		8	91	53	43	36
MNC3-0710-5XD	7.10	MF8x1	8	91	53	43	36
MNC3-0720-5XD	7.20		8	91	53	43	36
MNC3-0730-5XD	7.30		8	91	53	43	36
MNC3-0740-5XD	7.40		8	91	54	43	36
MNC3-0750-5XD	7.50		8	91	54	43	36
MNC3-0760-5XD	7.60		8	91	54	43	36
MNC3-0770-5XD	7.70		8	91	54	43	36
MNC3-0780-5XD	7.80		8	91	54	43	36
MNC3-0790-5XD	7.90		8	91	54	43	36



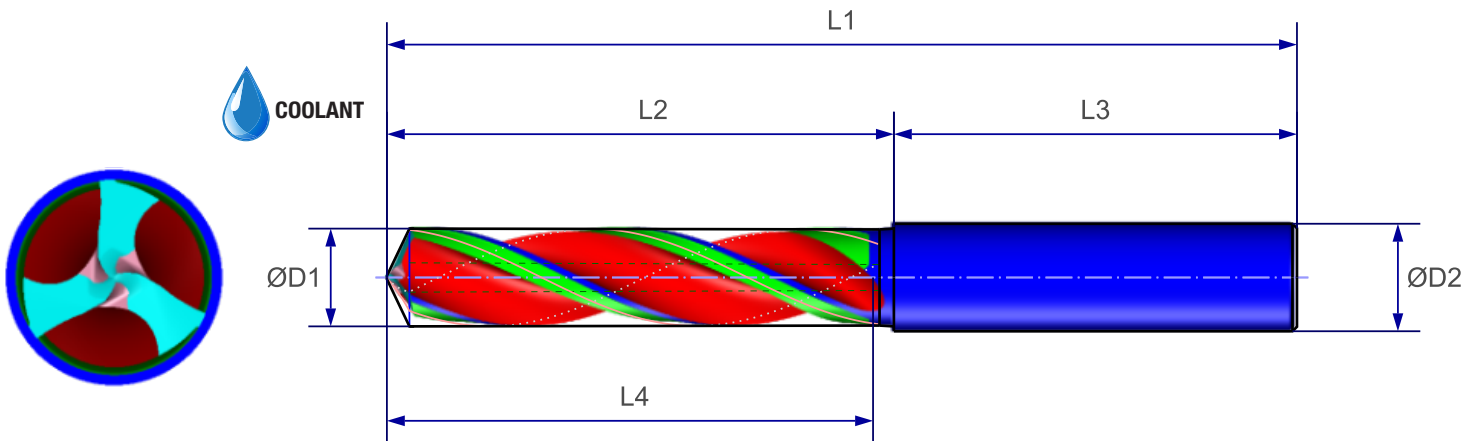
DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-0800-5XD	8.00		10	103	61	49	40
MNC3-0810-5XD	8.10		10	103	61	49	40
MNC3-0820-5XD	8.20	3/8-16 UNC	10	103	61	49	40
MNC3-0830-5XD	8.30		10	103	61	49	40
MNC3-0840-5XD	8.40		10	103	61	49	40
MNC3-0850-5XD	8.50		10	103	61	49	40
MNC3-0860-5XD	8.60	3/8-24 UNF	10	103	61	49	40
MNC3-0870-5XD	8.70	M10	10	103	62	49	40
MNC3-0880-5XD	8.80		10	103	62	49	40
MNC3-0890-5XD	8.90	MF10x1.25	10	103	62	49	40
MNC3-0900-5XD	9.00		10	103	62	49	40
MNC3-0910-5XD	9.10		10	103	62	49	40
MNC3-0920-5XD	9.20		10	103	62	49	40
MNC3-0930-5XD	9.30		10	103	62	49	40
MNC3-0940-5XD	9.40		10	103	63	49	40
MNC3-0950-5XD	9.50		10	103	63	49	40
MNC3-0960-5XD	9.60		10	103	63	49	40
MNC3-0970-5XD	9.70		10	103	63	49	40
MNC3-0980-5XD	9.70		10	103	63	49	40
MNC3-0990-5XD	9.90		10	103	63	49	40
MNC3-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MNC3-1010-5XD	10.10		12	118	71	56	45
MNC3-1020-5XD	10.20		12	118	71	56	45
MNC3-1030-5XD	10.30		12	118	71	56	45
MNC3-1040-5XD	10.40	M12	12	118	71	56	45



DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-1050-5XD	10.50		12	118	71	56	45
MNC3-1060-5XD	10.60		12	118	71	56	45
MNC3-1070-5XD	10.70	MF12x1.5	12	118	72	56	45
MNC3-1080-5XD	10.80		12	118	72	56	45
MNC3-1090-5XD	10.90		12	118	72	56	45
MNC3-1100-5XD	11.00	1/2-13 UNC	12	118	72	56	45
MNC3-1110-5XD	11.10		12	118	72	56	45
MNC3-1120-5XD	11.20		12	118	72	56	45
MNC3-1140-5XD	11.40		12	118	73	56	45
MNC3-1150-5XD	11.50		12	118	73	56	45
MNC3-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MNC3-1170-5XD	11.70		12	118	73	56	45
MNC3-1180-5XD	11.80		12	118	73	56	45
MNC3-1190-5XD	11.90		12	118	73	56	45
MNC3-1200-5XD	12.00		14	124	78	60	45
MNC3-1210-5XD	12.10		14	124	78	60	45
MNC3-1220-5XD	12.20		14	124	78	60	45
MNC3-1230-5XD	12.30		14	124	78	60	45
MNC3-1250-5XD	12.50		14	124	78	60	45
MNC3-1260-5XD	12.60		14	124	78	60	45
MNC3-1270-5XD	12.70		14	124	79	60	45
MNC3-1280-5XD	12.80		14	124	79	60	45
MNC3-1290-5XD	12.90		14	124	79	60	45
MNC3-1300-5XD	13.00		14	124	79	60	45
MNC3-1310-5XD	13.10		14	124	79	60	45



DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-1320-5XD	13.20		14	124	79	60	45
MNC3-1330-5XD	13.30		14	124	79	60	45
MNC3-1350-5XD	13.50		14	124	80	60	45
MNC3-1380-5XD	13.80		14	124	80	60	45
MNC3-1400-5XD	14.00		16	133	84	63	48
MNC3-1410-5XD	14.10		16	133	84	63	48
MNC3-1420-5XD	14.20		16	133	84	63	48
MNC3-1430-5XD	14.30		16	133	84	63	48
MNC3-1440-5XD	14.40		16	133	84	63	48
MNC3-1450-5XD	14.50		16	133	84	63	48
MNC3-1460-5XD	14.60		16	133	84	63	48
MNC3-1480-5XD	14.80		16	133	85	63	48
MNC3-1500-5XD	15.00		16	133	85	63	48
MNC3-1510-5XD	15.10		16	133	85	63	48
MNC3-1520-5XD	15.20		16	133	85	63	48
MNC3-1530-5XD	15.30		16	133	85	63	48
MNC3-1540-5XD	15.40		16	133	86	63	48
MNC3-1550-5XD	15.50		16	133	86	63	48
MNC3-1560-5XD	15.60		16	133	86	63	48
MNC3-1570-5XD	15.70		16	133	86	63	48
MNC3-1580-5XD	15.80		16	133	86	63	48
MNC3-1590-5XD	15.90		16	133	86	63	48
MNC3-1600-5XD	16.00		18	143	95	71	48
MNC3-1610-5XD	16.10		18	143	95	71	48
MNC3-1650-5XD	16.50		18	143	95	71	48

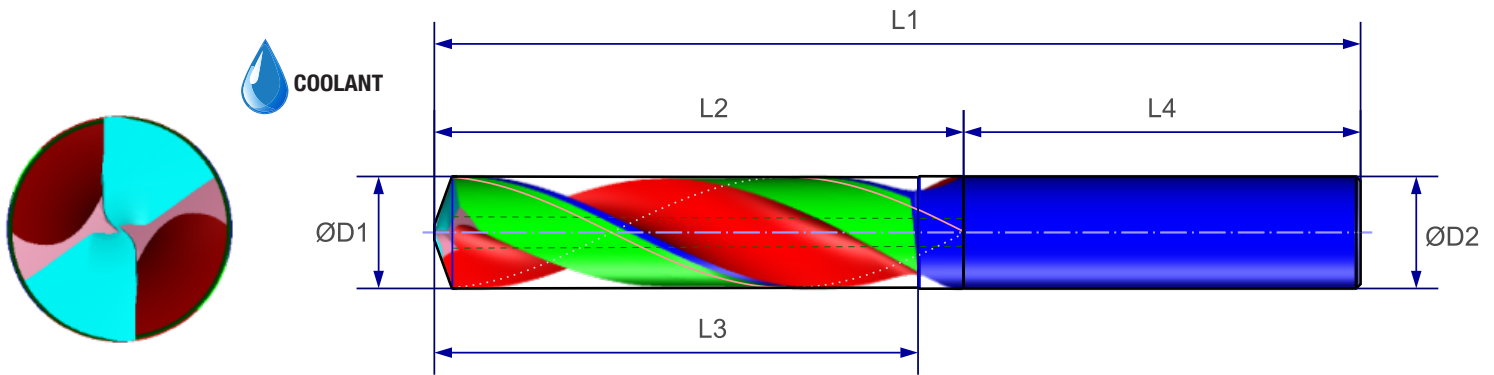


DESCRIPTION EXAMPLE... M=METRIC, N=NON FERROUS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MNC3-1700-5XD	17.00		18	143	96	71	48
MNC3-1750-5XD	17.50		18	143	97	71	48
MNC3-1770-5XD	17.70		18	143	97	71	48
MNC3-1800-5XD	18.00		20	153	104	77	50
MNC3-1840-5XD	18.40		20	153	104	77	50
MNC3-1850-5XD	18.50		20	153	104	77	50
MNC3-1900-5XD	19.00		20	153	105	77	50
MNC3-1910-5XD	19.10		20	153	105	77	50
MNC3-1920-5XD	19.20		20	153	105	77	50
MNC3-1930-5XD	19.30		20	153	105	77	50
MNC3-1950-5XD	19.50		20	153	106	77	50
MNC3-2000-5XD	20.00		20	153	107	77	50

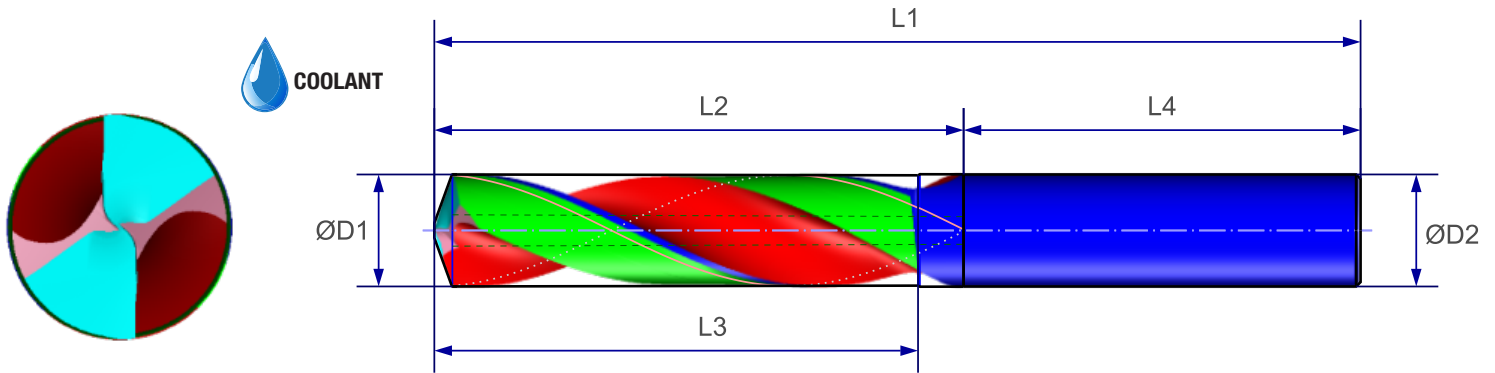
SPEED & FEED

Tool Diameter		0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75
inch									
mm		3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0

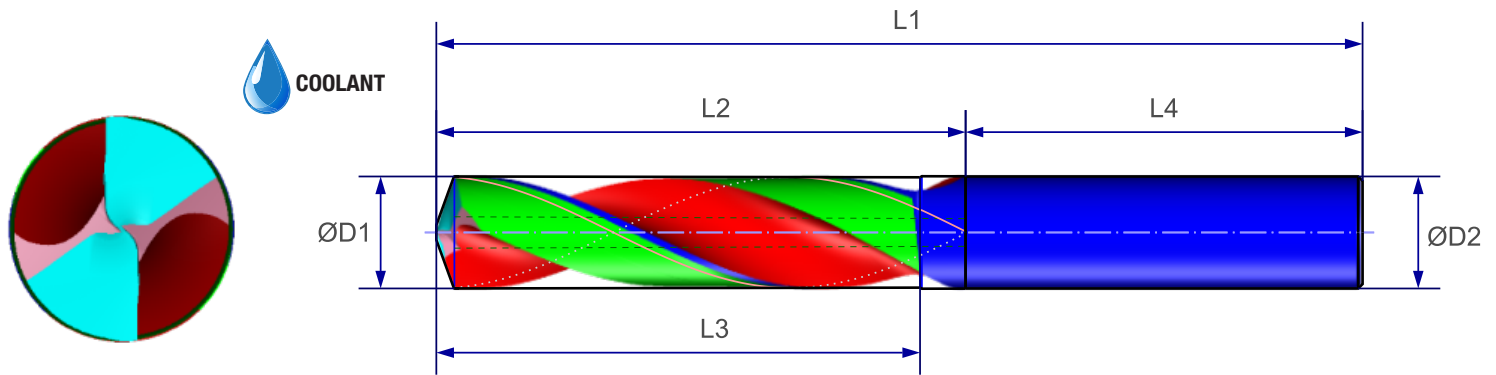
3-Flute Wrought Aluminum Alloys													
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid /Coolant	320	700	1300	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031
Cast Aluminum													
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid /Coolant	320	650	800	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031
Copper and Copper Alloys													
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid /Coolant	200	570	700	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031



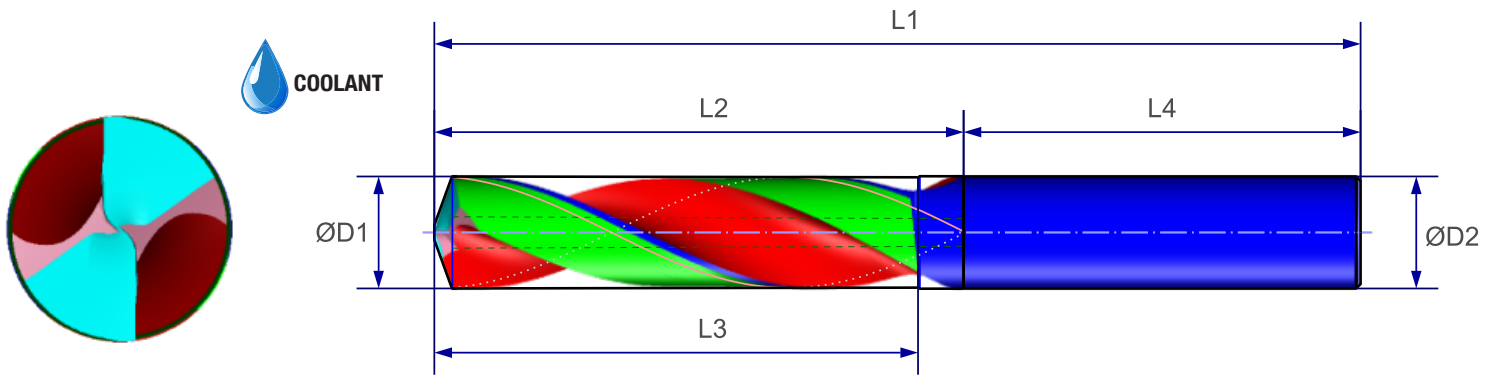
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
ISC2-1406-3XD	.141	9/64	6	2.441	0.787	0.577	1.417
ISC2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
ISC2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
ISC2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.703	1.417
ISC2-1690-3XD	.169	M5	6	2.598	0.945	0.691	1.417
ISC2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
ISC2-1875-3XD	.188	3/16	6	2.598	0.945	0.664	1.417
ISC2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
ISC2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
ISC2-2031-3XD	.203	13/64	6	2.598	1.102	0.798	1.417
ISC2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
ISC2-2344-3XD	.234	15/64	6	2.598	1.102	0.751	1.417
ISC2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
ISC2-2640-3XD	.264	5/18-18UNF	8	3.110	1.339	0.943	1.417
ISC2-2656-3XD	.266	17/64	8	3.110	1.339	0.940	1.417
ISC2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
ISC2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
ISC2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
ISC2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
ISC2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
ISC2-3438-3XD	.344	11/32	10	3.504	1.850	1.335	1.575
ISC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
ISC2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
ISC2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575



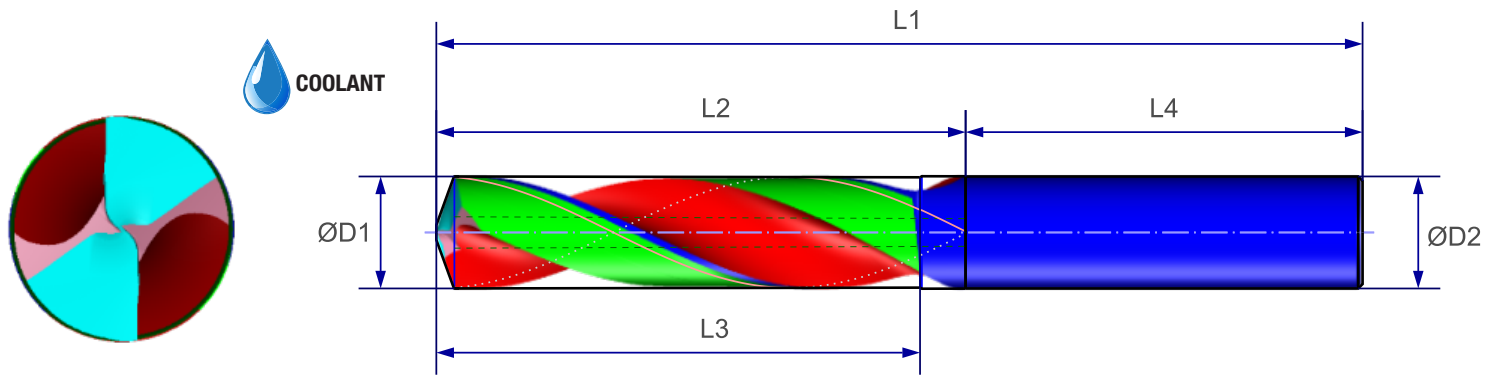
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC2-3940-3XD	.394	7/16-20 UNF	12	3.504	2.165	1.574	1.772
ISC2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
ISC2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
ISC2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
ISC2-4531-3XD	.453	29/64	12	4.213	2.165	1.486	1.772
ISC2-4570-3XD	.457	1/2-20 UNF	12	4.213	2.165	1.480	1.772
ISC2-4690-3XD	.469	15/32	12	4.213	2.165	1.462	1.772
ISC2-4844-3XD	.484	31/64	14	4.213	2.362	1.636	1.772
ISC2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
ISC2-5469-3XD	.547	35/64	14	4.528	2.362	1.542	1.772
ISC2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
ISC2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
ISC2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
ISC2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.910
ISC2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
ISC2-6875-3XD	.688	11/16	18	4.84	2.874	1.843	1.890
ISC2-7500-3XD	.750	3/4	20	5.08	3.110	1.985	1.969



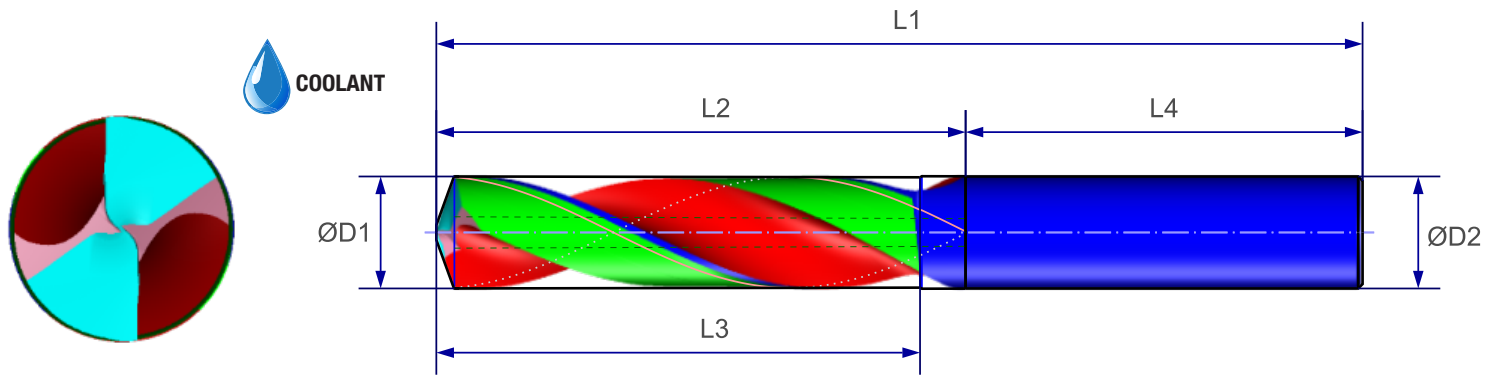
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC2-1250-3XD	.125	1/8	6	2.441	1.102	0.915	1.417
ISC2-1406-3XD	.141	9/64	6	2.441	1.102	0.891	1.417
ISC2-1540-3XD	.154	10-24 UNC	6	2.598	1.417	1.186	1.417
ISC2-1562-3XD	.156	5/32	6	2.598	1.417	1.183	1.417
ISC2-1610-3XD	.161	10-32 UNF	6	2.598	1.417	1.176	1.417
ISC2-1690-3XD	.169	M5	6	2.598	1.417	1.164	1.417
ISC2-1719-3XD	.172	11/64	6	2.598	1.417	1.159	1.417
ISC2-1875-3XD	.188	3/16	6	2.598	1.417	1.136	1.417
ISC2-1890-3XD	.189	12-32 UNF	6	2.598	1.732	1.449	1.417
ISC2-2010-3XD	.201	M6	6	2.598	1.732	1.431	1.417
ISC2-2031-3XD	.203	13/64	6	2.598	1.732	1.428	1.417
ISC2-2188-3XD	.219	7/32	6	2.598	1.732	1.404	1.417
ISC2-2344-3XD	.234	15/64	6	2.598	1.732	1.381	1.417
ISC2-2500-3XD	.250	1/4	8	3.110	2.087	1.712	1.417
ISC2-2640-3XD	.264	5/18-18UNF	8	3.110	2.087	1.691	1.417
ISC2-2656-3XD	.266	17/64	8	3.110	2.087	1.688	1.417
ISC2-2800-3XD	.280	MF8x1	8	3.110	2.087	1.667	1.417
ISC2-2813-3XD	.281	9/32	8	3.110	2.087	1.665	1.417
ISC2-2969-3XD	.297	19/64	8	3.110	2.087	1.641	1.417
ISC2-3125-3XD	.313	5/16	8	3.110	2.087	1.618	1.417
ISC2-3281-3XD	.328	21/64	10	3.504	2.402	1.909	1.575
ISC2-3438-3XD	.344	11/32	10	3.504	2.402	1.886	1.575
ISC2-3594-3XD	.359	23/64	10	3.504	2.402	1.863	1.575
ISC2-3750-3XD	.375	3/8	10	3.504	2.402	1.839	1.575
ISC2-3906-3XD	.391	25/64	10	3.504	2.402	1.816	1.575
ISC2-3940-3XD	.394	7/16-20 UNF	12	3.504	2.795	2.204	1.772



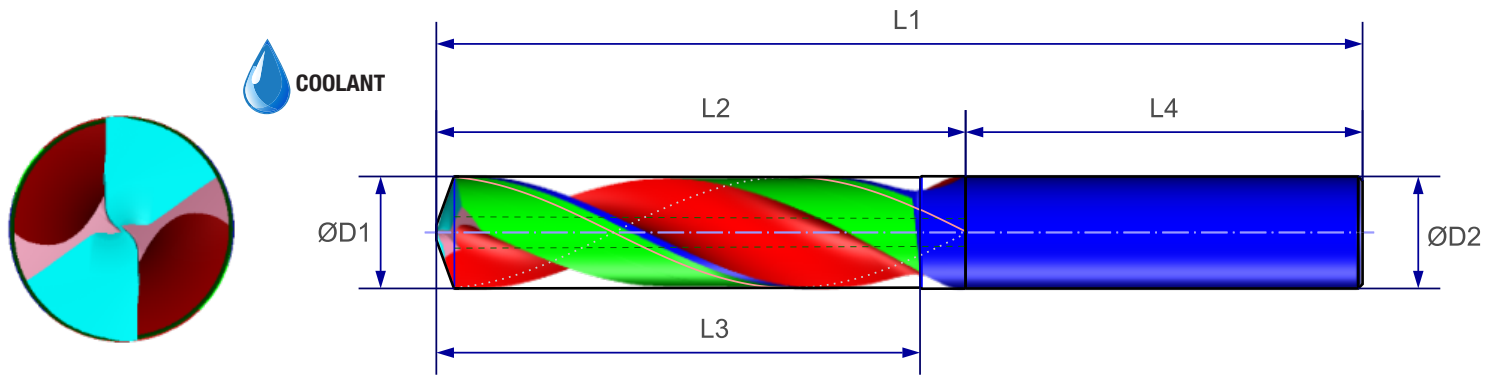
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC2-4063-3XD	.406	13/32	12	4.016	2.795	2.186	1.772
ISC2-4210-3XD	.421	MF12x1.5	12	4.016	2.795	2.164	1.772
ISC2-4375-3XD	.438	7/16	12	4.016	2.795	2.139	1.772
ISC2-4531-3XD	.453	29/64	12	4.213	2.795	2.116	1.772
ISC2-4570-3XD	.457	1/2-20 UNF	12	4.213	2.795	2.110	1.772
ISC2-4690-3XD	.469	15/32	12	4.213	2.795	2.092	1.772
ISC2-4844-3XD	.484	31/64	14	4.213	3.031	2.305	1.772
ISC2-5000-3XD	.500	1/2	14	4.213	3.031	2.281	1.772
ISC2-5469-3XD	.547	35/64	14	4.528	3.031	2.211	1.772
ISC2-5625-3XD	.563	9/16	16	4.528	3.268	2.424	1.890
ISC2-5781-3XD	.578	37/64	16	4.528	3.268	2.401	1.890
ISC2-5938-3XD	.594	19/32	16	4.528	3.268	2.377	1.890
ISC2-6094-3XD	.609	39/64	16	4.528	3.268	2.354	1.910
ISC2-6250-3XD	.625	5/8	16	4.528	3.268	2.330	1.890
ISC2-6875-3XD	.688	11/16	18	4.84	3.661	2.630	1.890
ISC2-7500-3XD	.750	3/4	20	5.08	3.976	2.851	1.969



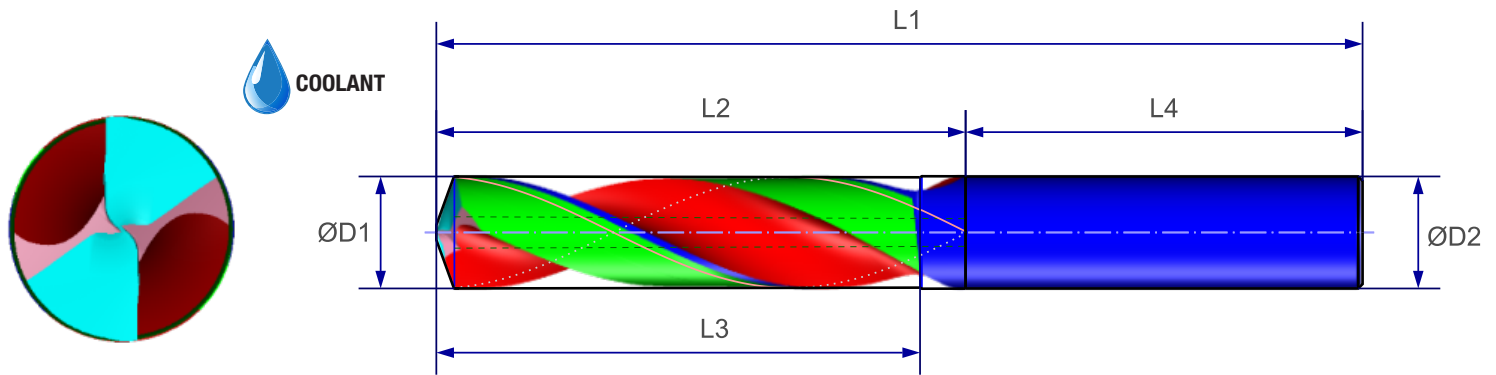
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-0300-3XD	3.00		6	62	20	15	36
MSC2-0310-3XD	3.10		6	62	20	15	36
MSC2-0320-3XD	3.20		6	62	20	15	36
MSC2-0330-3XD	3.30		6	62	20	15	36
MSC2-0340-3XD	3.40		6	62	20	14	36
MSC2-0350-3XD	3.50		6	62	20	14	36
MSC2-0360-3XD	3.60		6	62	20	14	36
MSC2-0370-3XD	3.70		6	62	20	14	36
MSC2-0380-3XD	3.80		6	66	24	18	36
MSC2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MSC2-0400-3XD	4.00		6	66	24	18	36
MSC2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MSC2-0420-3XD	4.20		6	66	24	17	36
MSC2-0430-3XD	4.30	M5	6	66	24	17	36
MSC2-0440-3XD	4.40		6	66	24	17	36
MSC2-0450-3XD	4.50		6	66	24	17	36
MSC2-0470-3XD	4.70		6	66	24	16	36
MSC2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MSC2-0490-3XD	4.90		6	66	28	20	36
MSC2-0500-3XD	5.00		6	66	28	20	36
MSC2-0510-3XD	5.10	M6	6	66	28	20	36
MSC2-0520-3XD	5.20		6	66	28	20	36
MSC2-0530-3XD	5.30		6	66	28	20	36
MSC2-0540-3XD	5.40		6	66	28	19	36
MSC2-0550-3XD	5.50		6	66	28	19	36



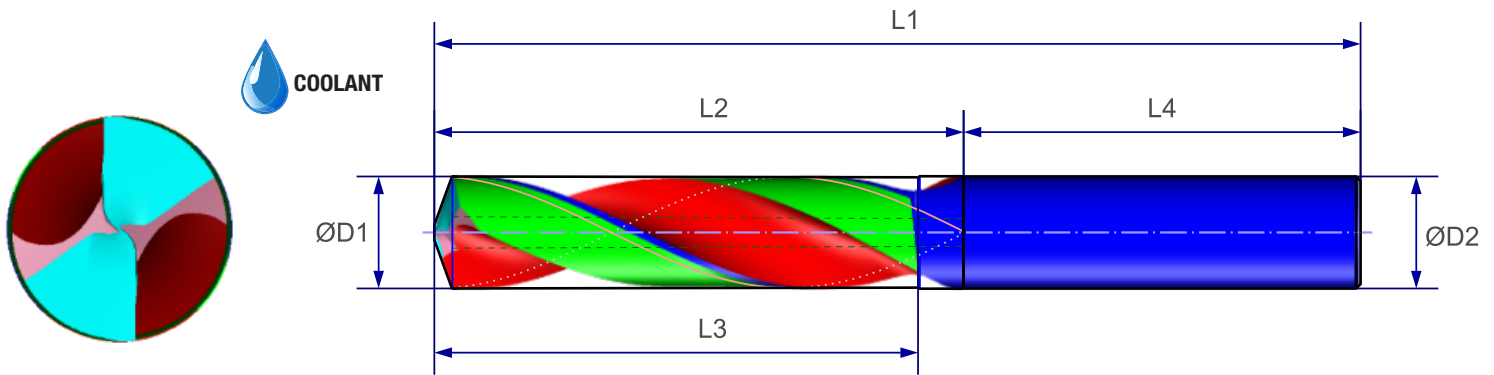
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-0560-3XD	5.60		6	66	28	19	36
MSC2-0570-3XD	5.70		6	66	28	19	36
MSC2-0580-3XD	5.80		6	66	28	19	36
MSC2-0590-3XD	5.90		6	66	28	19	36
MSC2-0600-3XD	6.00		8	79	34	25	36
MSC2-0610-3XD	6.10		8	79	34	24	36
MSC2-0620-3XD	6.20		8	79	34	24	36
MSC2-0630-3XD	6.30		8	79	34	24	36
MSC2-0640-3XD	6.40		8	79	34	24	36
MSC2-0650-3XD	6.50		8	79	34	24	36
MSC2-0660-3XD	6.60		8	79	34	24	36
MSC2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MSC2-0675-3XD	6.75		8	79	34	23	36
MSC2-0680-3XD	6.80		8	79	34	23	36
MSC2-0690-3XD	6.90		8	79	34	23	36
MSC2-0700-3XD	7.00		8	79	34	23	36
MSC2-0710-3XD	7.10	MF8x1	8	79	41	30	36
MSC2-0720-3XD	7.20		8	79	41	30	36
MSC2-0730-3XD	7.30		8	79	41	30	36
MSC2-0740-3XD	7.40		8	79	41	29	36
MSC2-0750-3XD	7.50		8	79	41	29	36
MSC2-0760-3XD	7.60		8	79	41	29	36
MSC2-0770-3XD	7.70		8	79	41	29	36
MSC2-0780-3XD	7.80		8	79	41	29	36
MSC2-0790-3XD	7.90		8	79	41	29	36



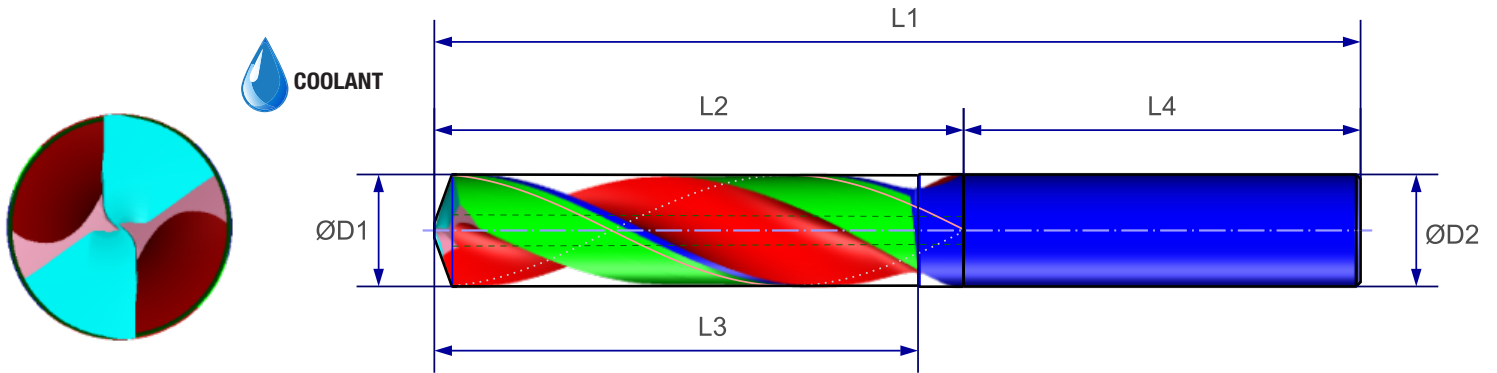
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-0800-3XD	8.00		10	89	47	35	40
MSC2-0810-3XD	8.10		10	89	47	34	40
MSC2-0820-3XD	8.20		10	89	47	34	40
MSC2-0830-3XD	8.30		10	89	47	34	40
MSC2-0840-3XD	8.40		10	89	47	34	40
MSC2-0850-3XD	8.50		10	89	47	34	40
MSC2-0860-3XD	8.60	3/8-24 UNF	10	89	47	34	40
MSC2-0870-3XD	8.70	M10	10	89	47	33	40
MSC2-0880-3XD	8.80		10	89	47	33	40
MSC2-0890-3XD	8.90	MF10x1.25	10	89	47	33	40
MSC2-0900-3XD	9.00		10	89	47	33	40
MSC2-0910-3XD	9.10		10	89	47	33	40
MSC2-0920-3XD	9.20		10	89	47	33	40
MSC2-0930-3XD	9.30		10	89	47	33	40
MSC2-0940-3XD	9.40		10	89	47	32	40
MSC2-0950-3XD	9.50		10	89	47	32	40
MSC2-0960-3XD	9.60		10	89	47	32	40
MSC2-0970-3XD	9.70		10	89	47	32	40
MSC2-0980-3XD	9.80		10	89	47	32	40
MSC2-0990-3XD	9.90		10	89	47	32	40
MSC2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MSC2-1010-3XD	10.10		12	102	55	39	45
MSC2-1020-3XD	10.20		12	102	55	39	45
MSC2-1030-3XD	10.30		12	102	55	39	45
MSC2-1040-3XD	10.40		12	102	55	39	45



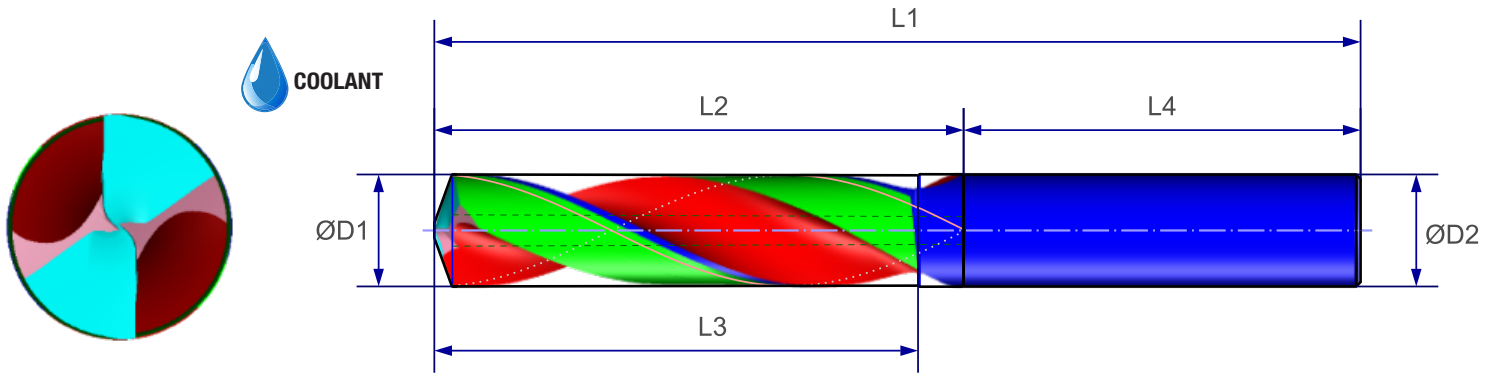
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-1050-3XD	10.50		12	102	55	39	45
MSC2-1060-3XD	10.60		12	102	55	39	45
MSC2-1070-3XD	10.70	MF12x1.5	12	102	55	38	45
MSC2-1080-3XD	10.80		12	102	55	38	45
MSC2-1090-3XD	10.90		12	102	55	38	45
MSC2-1100-3XD	11.00		12	102	55	38	45
MSC2-1110-3XD	11.10		12	102	55	38	45
MSC2-1120-3XD	11.20		12	102	55	38	45
MSC2-1140-3XD	11.40		12	102	55	37	45
MSC2-1150-3XD	11.50		12	102	55	37	45
MSC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MSC2-1170-3XD	11.70		12	102	55	37	45
MSC2-1180-3XD	11.80		12	102	55	37	45
MSC2-1190-3XD	11.90		12	102	55	37	45
MSC2-1200-3XD	12.00		14	107	60	42	45
MSC2-1210-3XD	12.10		14	107	60	41	45
MSC2-1220-3XD	12.20		14	107	60	41	45
MSC2-1230-3XD	12.30		14	107	60	41	45
MSC2-1250-3XD	12.50		14	107	60	41	45
MSC2-1260-3XD	12.60		14	107	60	41	45
MSC2-1270-3XD	12.70		14	107	60	40	45
MSC2-1280-3XD	12.80		14	107	60	40	45
MSC2-1290-3XD	12.90		14	107	60	40	45
MSC2-1300-3XD	13.00		14	107	60	40	45
MSC2-1310-3XD	13.10		14	107	60	40	45



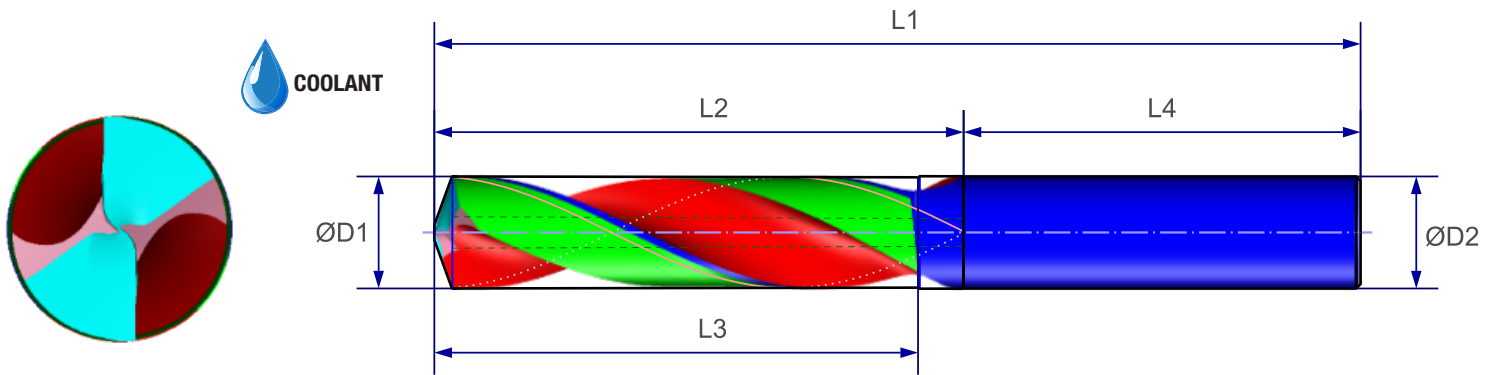
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-1320-3XD	13.20		14	107	60	40	45
MSC2-1330-3XD	13.30		14	107	60	40	45
MSC2-1350-3XD	13.50		14	107	60	39	45
MSC2-1380-3XD	13.80		14	107	60	39	45
MSC2-1400-3XD	14.00		16	115	65	44	48
MSC2-1410-3XD	14.10		16	115	65	43	48
MSC2-1420-3XD	14.20		16	115	65	43	48
MSC2-1430-3XD	14.30		16	115	65	43	48
MSC2-1440-3XD	14.40		16	115	65	43	48
MSC2-1450-3XD	14.50		16	115	65	43	48
MSC2-1460-3XD	14.60		16	115	65	43	48
MSC2-1480-3XD	14.80		16	115	65	42	48
MSC2-1500-3XD	15.00		16	115	65	42	48
MSC2-1510-3XD	15.10		16	115	65	42	48
MSC2-1520-3XD	15.20		16	115	65	42	48
MSC2-1530-3XD	15.30		16	115	65	42	48
MSC2-1540-3XD	15.40		16	115	65	41	48
MSC2-1550-3XD	15.50		16	115	65	41	48
MSC2-1560-3XD	15.60		16	115	65	41	48
MSC2-1570-3XD	15.70		16	115	65	41	48
MSC2-1580-3XD	15.80		16	115	65	41	48
MSC2-1590-3XD	15.90		16	115	65	41	48
MSC2-1600-3XD	16.00		18	123	73	49	48
MSC2-1610-3XD	16.10		18	123	73	48	48
MSC2-1650-3XD	16.50		18	123	73	48	48



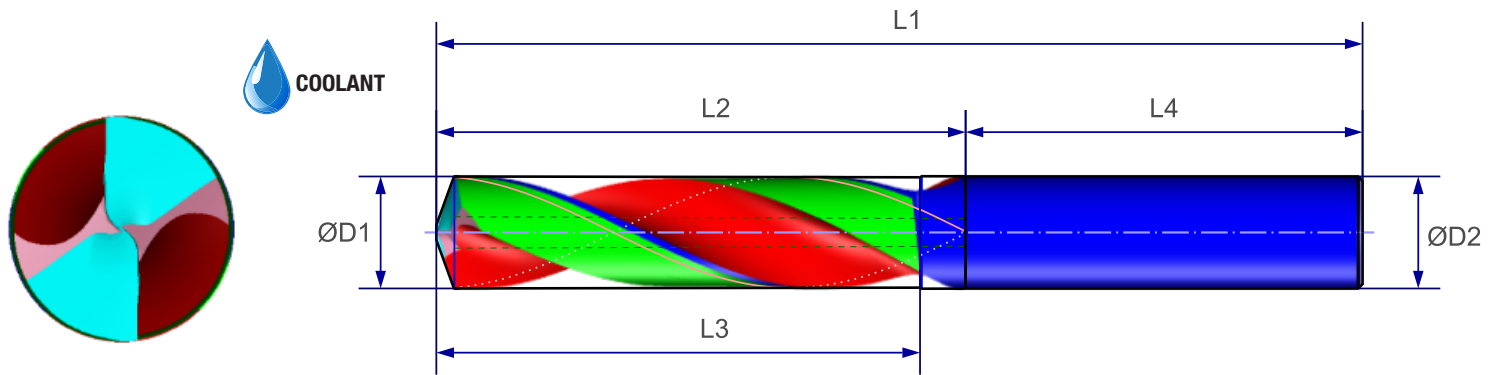
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-1700-3XD	17.00		18	123	73	47	48
MSC2-1750-3XD	17.50		18	123	73	46	48
MSC2-1770-3XD	17.70		18	123	73	46	48
MSC2-1800-3XD	18.00		20	131	79	52	50
MSC2-1840-3XD	18.40		20	131	79	51	50
MSC2-1850-3XD	18.50		20	131	79	51	50
MSC2-1900-3XD	19.00		20	131	79	50	50
MSC2-1910-3XD	19.10		20	131	79	50	50
MSC2-1920-3XD	19.20		20	131	79	50	50
MSC2-1930-3XD	19.30		20	131	79	50	50
MSC2-1950-3XD	19.50		20	131	79	49	50
MSC2-2000-3XD	20.00		20	131	79	49	50



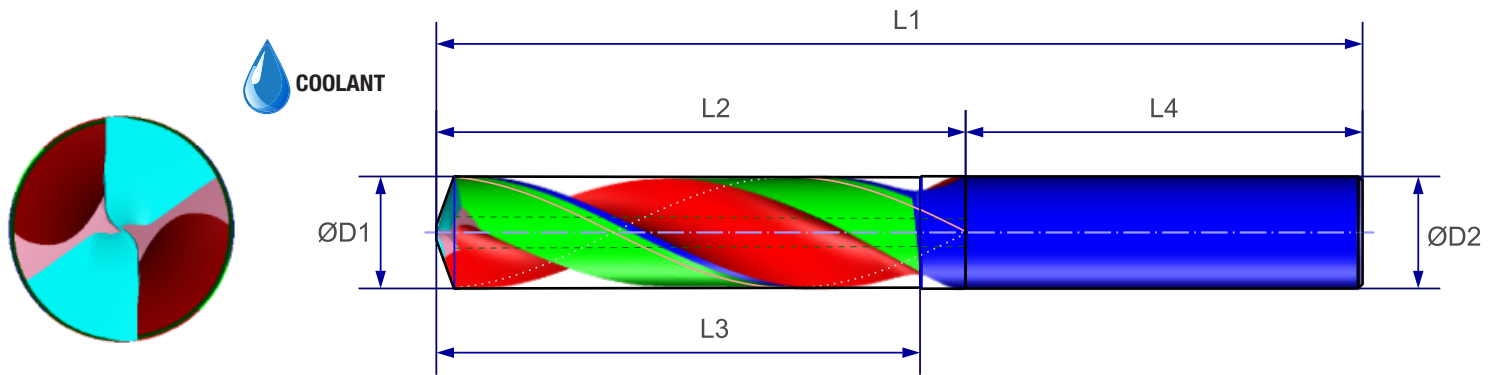
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAM- ETER D2	OAL mm L1	FLUTE LENGTH L2 mm	DRILLING DEPTH mm L3	SHANK LENGTH L4 mm
MSC2-0300-5XD	3.00		6	66	28	23	36
MSC2-0310-5XD	3.10		6	66	28	23	36
MSC2-0320-5XD	3.20		6	66	28	23	36
MSC2-0330-5XD	3.30		6	66	28	23	36
MSC2-0340-5XD	3.40	M4	6	66	28	22	36
MSC2-0350-5XD	3.50		6	66	28	22	36
MSC2-0360-5XD	3.60		6	66	28	22	36
MSC2-0370-5XD	3.70		6	66	28	22	36
MSC2-0380-5XD	3.80		6	74	36	30	36
MSC2-0390-5XD	3.90	10-24 UNC	6	74	36	30	36
MSC2-0400-5XD	4.00		6	74	36	30	36
MSC2-0410-5XD	4.10	10-32 UNC	6	74	36	29	36
MSC2-0420-5XD	4.20		6	74	36	29	36
MSC2-0430-5XD	4.30	M5	6	74	36	29	36
MSC2-0440-5XD	4.40		6	74	36	29	36
MSC2-0450-5XD	4.50		6	74	36	29	36
MSC2-0470-5XD	4.70		6	74	36	28	36
MSC2-0480-5XD	4.80	12-32 UNC	6	82	44	36	36
MSC2-0490-5XD	4.90		6	82	44	36	36
MSC2-0500-5XD	5.00		6	82	44	36	36
MSC2-0510-5XD	5.10	M6	6	82	44	36	36
MSC2-0520-5XD	5.20		6	82	44	36	36
MSC2-0530-5XD	5.30	1/4-20 UNC	6	82	44	36	36
MSC2-0540-5XD	5.40		6	82	44	35	36
MSC2-0550-5XD	5.50		6	82	44	35	36



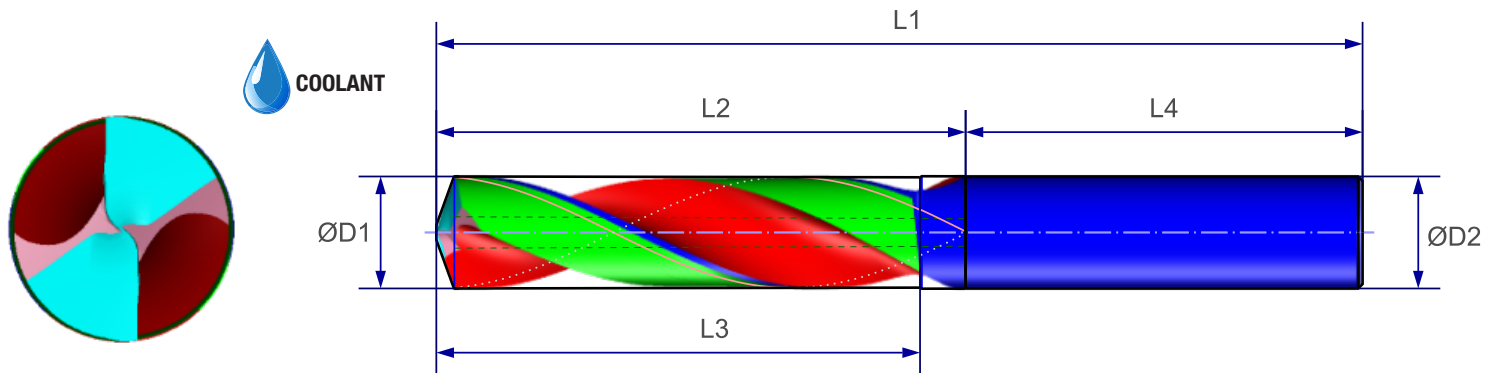
DESCRIPTION EXAMPLE...	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAM- ETER D2	OAL mm	L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-0560-5XD	5.60		6	82		44	35	36
MSC2-0570-5XD	5.70		6	82		44	35	36
MSC2-0580-5XD	5.80		6	82		44	35	36
MSC2-0590-5XD	5.90		6	82		44	35	36
MSC2-0600-5XD	6.00		8	91		53	44	36
MSC2-0610-5XD	6.10		8	91		53	43	36
MSC2-0620-5XD	6.20		8	91		53	43	36
MSC2-0630-5XD	6.30		8	91		53	43	36
MSC2-0640-5XD	6.40		8	91		53	43	36
MSC2-0650-5XD	6.50		8	91		53	43	36
MSC2-0660-5XD	6.60		8	91		53	43	36
MSC2-0670-5XD	6.70	5/18-18UNF	8	91		53	42	36
MSC2-0675-5XD	6.75		8	91		53	42	36
MSC2-0680-5XD	6.80		8	91		53	42	36
MSC2-0690-5XD	6.90	M8	8	91		53	42	36
MSC2-0700-5XD	7.00		8	91		53	42	36
MSC2-0710-5XD	7.10	MF8x1	8	91		53	42	36
MSC2-0720-5XD	7.20		8	91		53	42	36
MSC2-0730-5XD	7.30		8	91		53	42	36
MSC2-0740-5XD	7.40		8	91		53	41	36
MSC2-0750-5XD	7.50		8	91		53	41	36
MSC2-0760-5XD	7.60		8	91		53	41	36
MSC2-0770-5XD	7.70		8	91		53	41	36
MSC2-0780-5XD	7.80		8	91		53	41	36
MSC2-0790-5XD	7.90		8	91		53	41	36



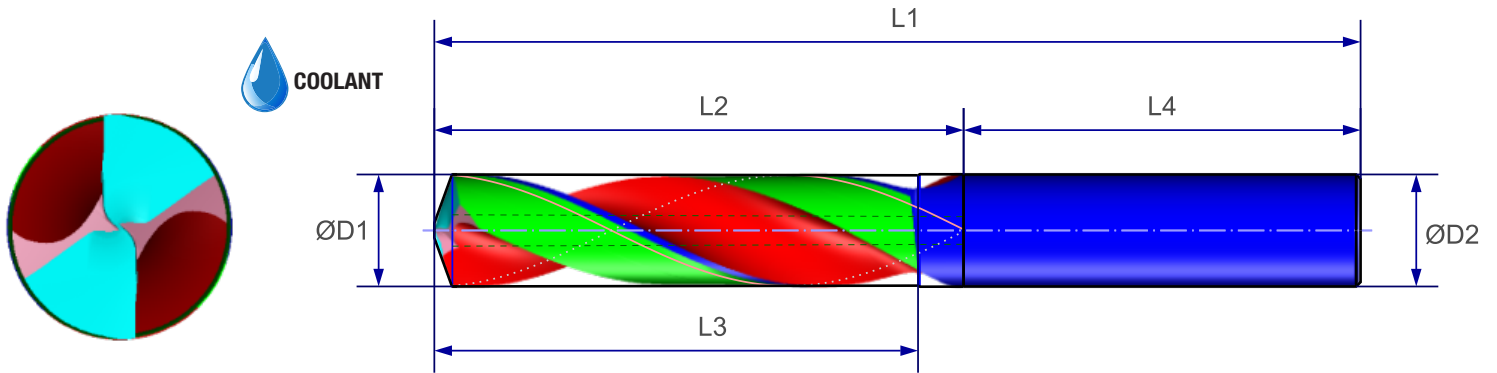
DESCRIPTION EXAMPLE...	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAM- ETER D2	OAL mm	L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-0800-5XD	8.00		10	103		61	49	40
MSC2-0810-5XD	8.10		10	103		61	48	40
MSC2-0820-5XD	8.20	3/8-16 UNC	10	103		61	48	40
MSC2-0830-5XD	8.30		10	103		61	48	40
MSC2-0840-5XD	8.40		10	103		61	48	40
MSC2-0850-5XD	8.50		10	103		61	48	40
MSC2-0860-5XD	8.60	3/8-24 UNF	10	103		61	48	40
MSC2-0870-5XD	8.70	M10	10	103		61	47	40
MSC2-0880-5XD	8.80		10	103		61	47	40
MSC2-0890-5XD	8.90	MF10x1.25	10	103		61	47	40
MSC2-0900-5XD	9.00		10	103		61	47	40
MSC2-0910-5XD	9.10		10	103		61	47	40
MSC2-0920-5XD	9.20		10	103		61	47	40
MSC2-0930-5XD	9.30		10	103		61	47	40
MSC2-0940-5XD	9.40		10	103		61	46	40
MSC2-0950-5XD	9.50		10	103		61	46	40
MSC2-0960-5XD	9.60		10	103		61	46	40
MSC2-0970-5XD	9.70		10	103		61	46	40
MSC2-0980-5XD	9.70		10	103		61	46	40
MSC2-0990-5XD	9.90		10	103		61	46	40
MSC2-1000-5XD	10.00	7/16-20 UNF	12	118		71	56	45
MSC2-1010-5XD	10.10		12	118		71	55	45
MSC2-1020-5XD	10.20		12	118		71	55	45
MSC2-1030-5XD	10.30		12	118		71	55	45
MSC2-1040-5XD	10.40	M12	12	118		71	55	45



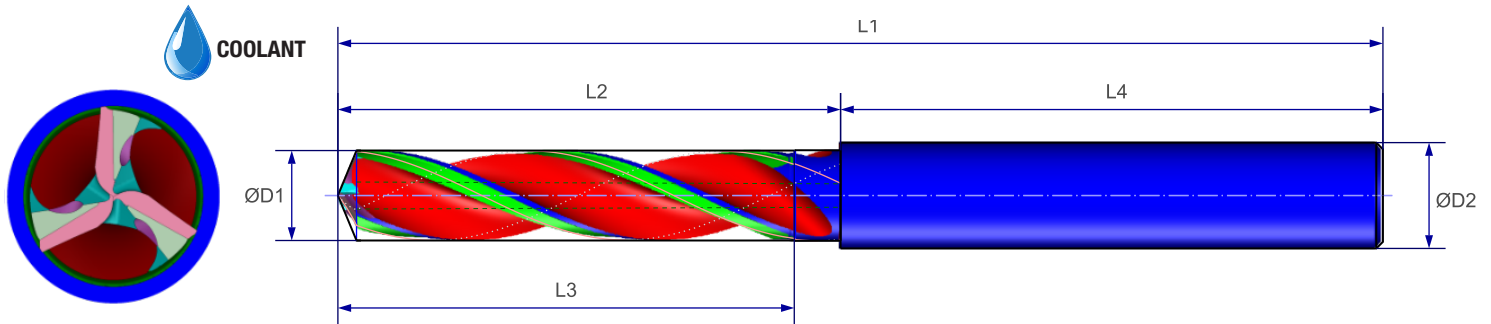
DESCRIPTION EXAMPLE...	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAM- ETER D2	OAL mm L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-1050-5XD	10.50		12	118	71	55	45
MSC2-1060-5XD	10.60		12	118	71	55	45
MSC2-1070-5XD	10.70	MF12x1.5	12	118	71	54	45
MSC2-1080-5XD	10.80		12	118	71	54	45
MSC2-1090-5XD	10.90		12	118	71	54	45
MSC2-1100-5XD	11.00	1/2-13 UNC	12	118	71	54	45
MSC2-1110-5XD	11.10		12	118	71	54	45
MSC2-1120-5XD	11.20		12	118	71	54	45
MSC2-1140-5XD	11.40		12	118	71	53	45
MSC2-1150-5XD	11.50		12	118	71	53	45
MSC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45
MSC2-1170-5XD	11.70		12	118	71	53	45
MSC2-1180-5XD	11.80		12	118	71	53	45
MSC2-1190-5XD	11.90		12	118	71	53	45
MSC2-1200-5XD	12.00		14	124	77	59	45
MSC2-1210-5XD	12.10		14	124	77	58	45
MSC2-1220-5XD	12.20		14	124	77	58	45
MSC2-1230-5XD	12.30		14	124	77	58	45
MSC2-1250-5XD	12.50		14	124	77	58	45
MSC2-1260-5XD	12.60		14	124	77	58	45
MSC2-1270-5XD	12.70		14	124	77	57	45
MSC2-1280-5XD	12.80		14	124	77	57	45
MSC2-1290-5XD	12.90		14	124	77	57	45
MSC2-1300-5XD	13.00		14	124	77	57	45
MSC2-1310-5XD	13.10		14	124	77	57	45



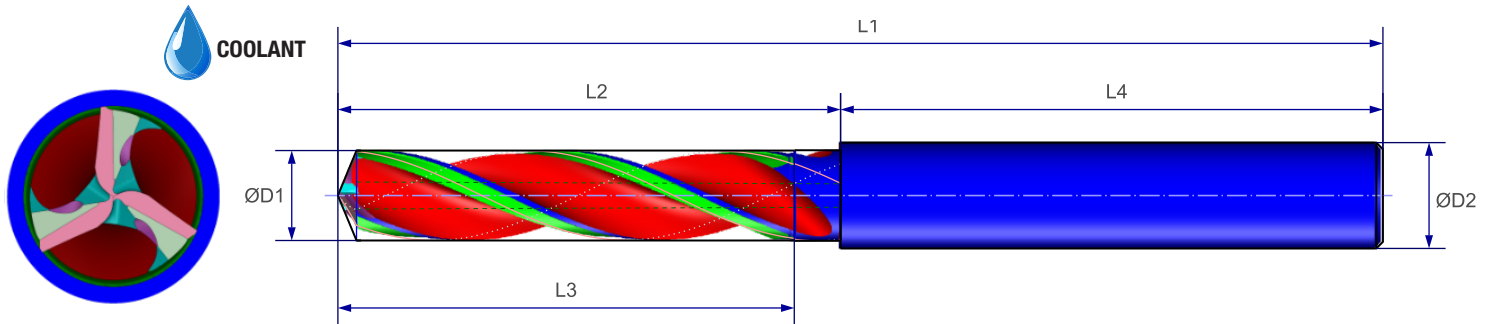
DESCRIPTION EXAMPLE...	DRILL DIAMETER	DRILLS FOR	SHANK DIAM-	OAL	FLUTE LENGTH	DRILLING	SHANK
M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	D1 mm m7	THREADS	ETER D2	mm L1	L2 mm	DEPTH L3 mm	LENGTH L4 mm
MSC2-1320-5XD	13.20		14	124	77	57	45
MSC2-1330-5XD	13.30		14	124	77	57	45
MSC2-1350-5XD	13.50		14	124	77	56	45
MSC2-1380-5XD	13.80		14	124	77	56	45
MSC2-1400-5XD	14.00		16	133	83	62	48
MSC2-1410-5XD	14.10		16	133	83	61	48
MSC2-1420-5XD	14.20		16	133	83	61	48
MSC2-1430-5XD	14.30		16	133	83	61	48
MSC2-1440-5XD	14.40		16	133	83	61	48
MSC2-1450-5XD	14.50		16	133	83	61	48
MSC2-1460-5XD	14.60		16	133	83	61	48
MSC2-1480-5XD	14.80		16	133	83	60	48
MSC2-1500-5XD	15.00		16	133	83	60	48
MSC2-1510-5XD	15.10		16	133	83	60	48
MSC2-1520-5XD	15.20		16	133	83	60	48
MSC2-1530-5XD	15.30		16	133	83	60	48
MSC2-1540-5XD	15.40		16	133	83	59	48
MSC2-1550-5XD	15.50		16	133	83	59	48
MSC2-1560-5XD	15.60		16	133	83	59	48
MSC2-1570-5XD	15.70		16	133	83	59	48
MSC2-1580-5XD	15.80		16	133	83	59	48
MSC2-1590-5XD	15.90		16	133	83	59	48
MSC2-1600-5XD	16.00		18	143	93	69	48
MSC2-1610-5XD	16.10		18	143	93	68	48
MSC2-1650-5XD	16.50		18	143	93	68	48



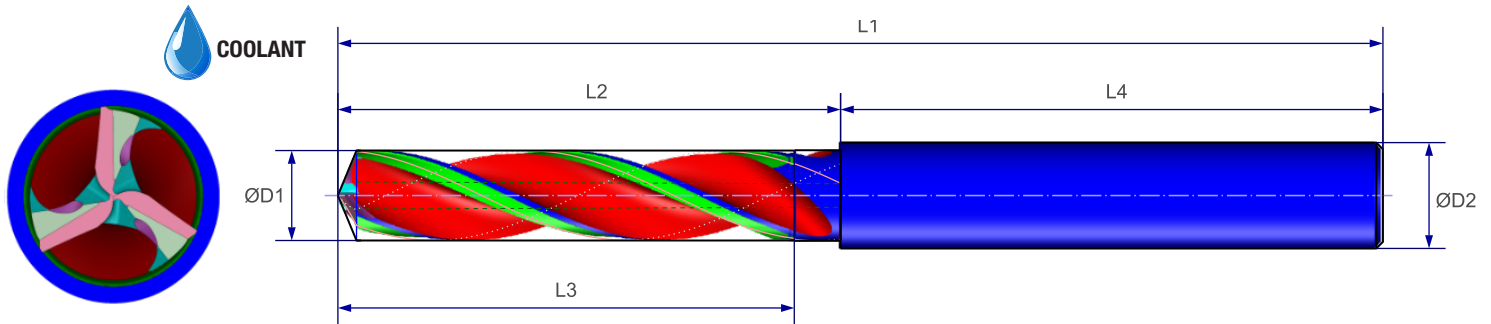
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 2=FLUTES, 125=DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAM- ETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC2-1700-5XD	17.00		18	143	93	67	48
MSC2-1750-5XD	17.50		18	143	93	66	48
MSC2-1770-5XD	17.70		18	143	93	66	48
MSC2-1800-5XD	18.00		20	153	101	74	50
MSC2-1840-5XD	18.40		20	153	101	73	50
MSC2-1850-5XD	18.50		20	153	101	73	50
MSC2-1900-5XD	19.00		20	153	101	72	50
MSC2-1910-5XD	19.10		20	153	101	72	50
MSC2-1920-5XD	19.20		20	153	101	72	50
MSC2-1930-5XD	19.30		20	153	101	72	50
MSC2-1950-5XD	19.50		20	153	101	71	50
MSC2-2000-5XD	20.00		20	153	101	71	50



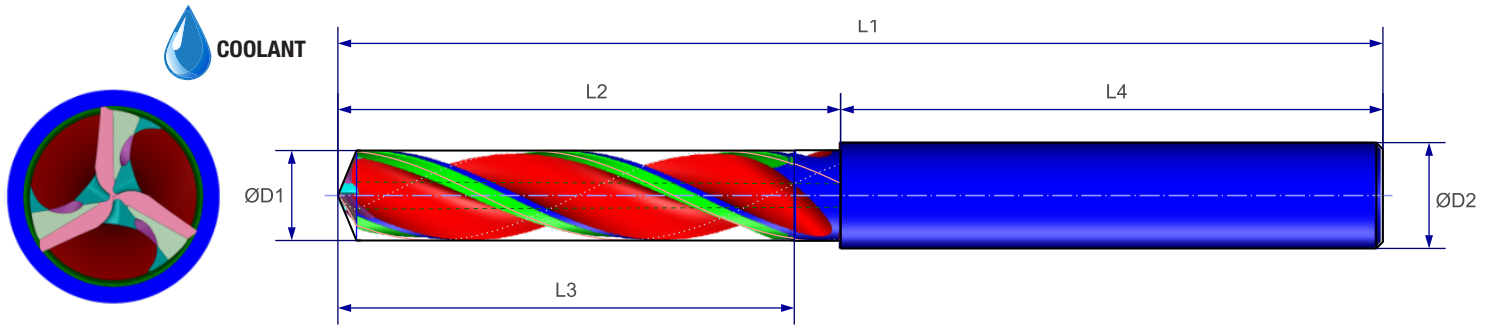
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC3-1250-3XD	.125	1/8	6	2.441	0.896	0.709	1.417
ISC3-1406-3XD	.141	9/64	6	2.441	0.959	0.748	1.417
ISC3-1540-3XD	.154	10-24 UNC	6	2.598	1.097	0.866	1.417
ISC3-1562-3XD	.156	5/32	6	2.598	1.100	0.866	1.417
ISC3-1610-3XD	.161	10-32 UNF	6	2.598	1.147	0.906	1.417
ISC3-1690-3XD	.169	M5	6	2.598	1.159	0.906	1.417
ISC3-1719-3XD	.172	11/64	6	2.598	1.163	0.906	1.417
ISC3-1875-3XD	.188	3/16	6	2.598	1.226	0.945	1.417
ISC3-1890-3XD	.189	12-32 UNF	6	2.598	1.346	1.063	1.417
ISC3-2010-3XD	.201	M6	6	2.598	1.364	1.063	1.417
ISC3-2031-3XD	.203	13/64	6	2.598	1.368	1.063	1.417
ISC3-2188-3XD	.219	7/32	6	2.598	1.430	1.102	1.417
ISC3-2344-3XD	.234	15/64	6	2.598	1.454	1.102	1.417
ISC3-2500-3XD	.250	1/4	8	3.110	1.674	1.299	1.417
ISC3-2640-3XD	.264	5/18-18UNF	8	3.110	1.735	1.339	1.417
ISC3-2656-3XD	.266	17/64	8	3.110	1.737	1.339	1.417
ISC3-2800-3XD	.280	MF8x1	8	3.110	1.955	1.535	1.417
ISC3-2813-3XD	.281	9/32	8	3.110	1.957	1.535	1.417
ISC3-2969-3XD	.297	19/64	8	3.110	2.020	1.575	1.417
ISC3-3125-3XD	.313	5/16	8	3.110	2.044	1.575	1.417
ISC3-3281-3XD	.328	21/64	10	3.504	2.343	1.850	1.575
ISC3-3438-3XD	.344	11/32	10	3.504	2.405	1.890	1.575
ISC3-3594-3XD	.359	23/64	10	3.504	2.429	1.890	1.575
ISC3-3750-3XD	.375	3/8	10	3.504	2.492	1.929	1.575
ISC3-3906-3XD	.391	25/64	10	3.504	2.515	1.929	1.575



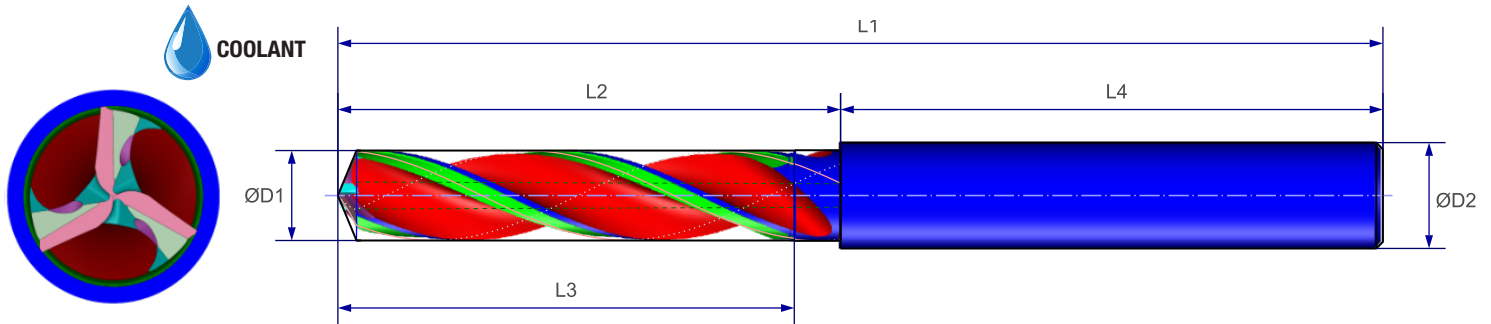
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC3-3940-3XD	.394	7/16-20 UNF	12	4.016	2.756	2.165	1.772
ISC3-4063-3XD	.406	13/32	12	4.016	2.775	2.165	1.772
ISC3-4210-3XD	.421	MF12x1.5	12	4.016	2.797	2.165	1.772
ISC3-4375-3XD	.438	7/16	12	4.016	2.861	2.205	1.772
ISC3-4531-3XD	.453	29/64	12	4.016	2.924	2.244	1.772
ISC3-4570-3XD	.457	1/2-20 UNF	12	4.016	2.930	2.244	1.772
ISC3-4690-3XD	.469	15/32	12	4.016	2.948	2.244	1.772
ISC3-4844-3XD	.484	31/64	14	4.213	3.128	2.402	1.772
ISC3-5000-3XD	.500	1/2	14	4.213	3.191	2.441	1.772
ISC3-5469-3XD	.547	35/64	14	4.213	3.301	2.480	1.772
ISC3-5625-3XD	.563	9/16	16	4.528	3.442	2.598	1.890
ISC3-5781-3XD	.578	37/64	16	4.528	3.466	2.598	1.890
ISC3-5938-3XD	.594	19/32	16	4.528	3.528	2.638	1.890
ISC3-6094-3XD	.609	39/64	16	4.528	3.591	2.677	1.910
ISC3-6250-3XD	.625	5/8	16	4.528	3.615	2.677	1.890
ISC3-6875-3XD	.688	11/16	18	4.843	4.023	2.992	1.890
ISC3-7500-3XD	.750	3/4	20	5.157	4.393	3.268	1.969



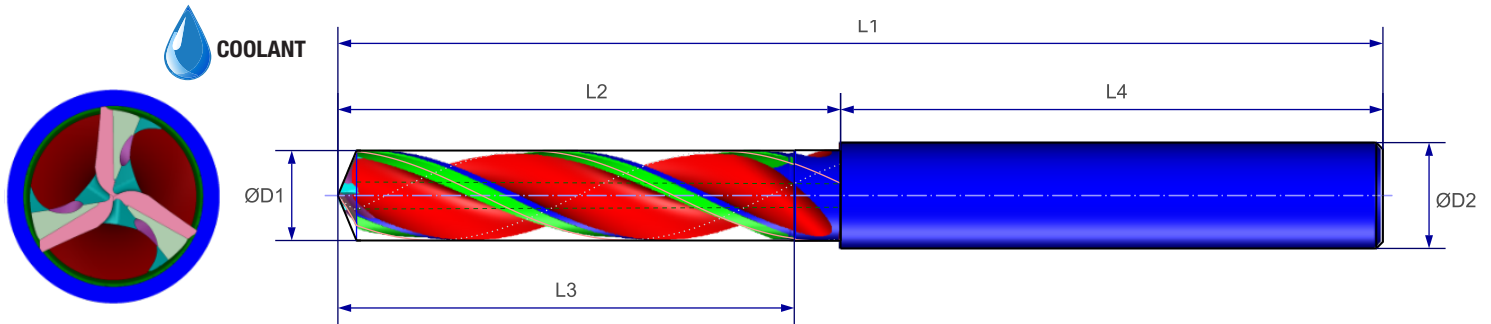
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 inch	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC3-1250-5XD	.125	1/8	6	2.598	1.250	1.063	1.417
ISC3-1406-5XD	.141	9/64	6	2.598	1.313	1.102	1.417
ISC3-1540-5XD	.154	10-24 UNC	6	2.913	1.570	1.339	1.417
ISC3-1562-5XD	.156	5/32	6	2.913	1.573	1.339	1.417
ISC3-1610-5XD	.161	10-32 UNF	6	2.913	1.619	1.378	1.417
ISC3-1690-5XD	.169	M5	6	2.913	1.631	1.378	1.417
ISC3-1719-5XD	.172	11/64	6	2.913	1.636	1.378	1.417
ISC3-1875-5XD	.188	3/16	6	2.913	1.699	1.417	1.417
ISC3-1890-5XD	.189	12-32 UNF	6	3.228	1.937	1.654	1.417
ISC3-2010-5XD	.201	M6	6	3.228	1.955	1.654	1.417
ISC3-2031-5XD	.203	13/64	6	3.228	1.958	1.654	1.417
ISC3-2188-5XD	.219	7/32	6	3.228	2.021	1.693	1.417
ISC3-2344-5XD	.234	15/64	6	3.228	2.044	1.693	1.417
ISC3-2500-5XD	.250	1/4	8	3.583	2.422	2.047	1.417
ISC3-2640-5XD	.264	5/18-18UNF	8	3.583	2.483	2.087	1.417
ISC3-2656-5XD	.266	17/64	8	3.583	2.485	2.087	1.417
ISC3-2800-5XD	.280	MF8x1	8	3.583	2.507	2.087	1.417
ISC3-2813-5XD	.281	9/32	8	3.583	2.508	2.087	1.417
ISC3-2969-5XD	.297	19/64	8	3.583	2.571	2.126	1.417
ISC3-3125-5XD	.313	5/16	8	3.583	2.595	2.126	1.417
ISC3-3281-5XD	.328	21/64	10	4.055	2.894	2.402	1.575
ISC3-3438-5XD	.344	11/32	10	4.055	2.957	2.441	1.575
ISC3-3594-5XD	.359	23/64	10	4.055	2.980	2.441	1.575
ISC3-3750-5XD	.375	3/8	10	4.055	3.043	2.480	1.575
ISC3-3906-5XD	.391	25/64	10	4.055	3.066	2.480	1.575



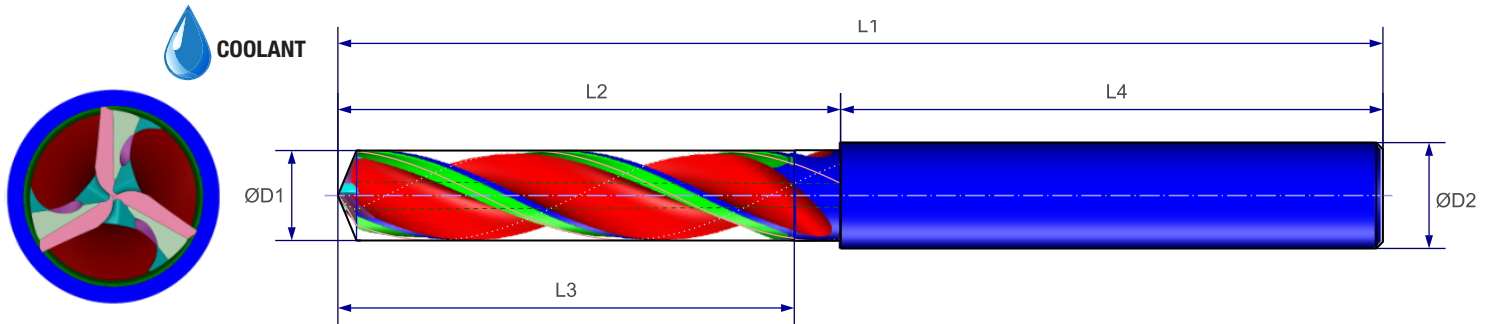
DESCRIPTION EXAMPLE... I=INCH, S=HIGH TEMP ALLOYS, C=COOLANT, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 inch	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ISC3-3940-5XD	.394	7/16-20 UNF	12	4.646	3.386	2.795	1.772
ISC3-4063-5XD	.406	13/32	12	4.646	3.405	2.795	1.772
ISC3-4210-5XD	.421	MF12x1.5	12	4.646	3.427	2.795	1.772
ISC3-4375-5XD	.438	7/16	12	4.646	3.491	2.835	1.772
ISC3-4531-5XD	.453	29/64	12	4.646	3.554	2.874	1.772
ISC3-4570-5XD	.457	1/2-20 UNF	12	4.646	3.560	2.874	1.772
ISC3-4690-5XD	.469	15/32	12	4.646	3.578	2.874	1.772
ISC3-4844-5XD	.484	31/64	14	4.882	3.797	3.071	1.772
ISC3-5000-5XD	.500	1/2	14	4.882	3.860	3.110	1.772
ISC3-5469-5XD	.547	35/64	14	4.882	3.970	3.150	1.772
ISC3-5625-5XD	.563	9/16	16	5.236	4.151	3.307	1.890
ISC3-5781-5XD	.578	37/64	16	5.236	4.174	3.307	1.890
ISC3-5938-5XD	.594	19/32	16	5.236	4.237	3.346	1.890
ISC3-6094-5XD	.609	39/64	16	5.236	4.300	3.386	1.910
ISC3-6250-5XD	.625	5/8	16	5.236	4.323	3.386	1.890
ISC3-6875-5XD	.688	11/16	18	5.630	6.464	5.433	1.890
ISC3-7500-5XD	.750	3/4	20	6.024	7.109	5.984	1.969



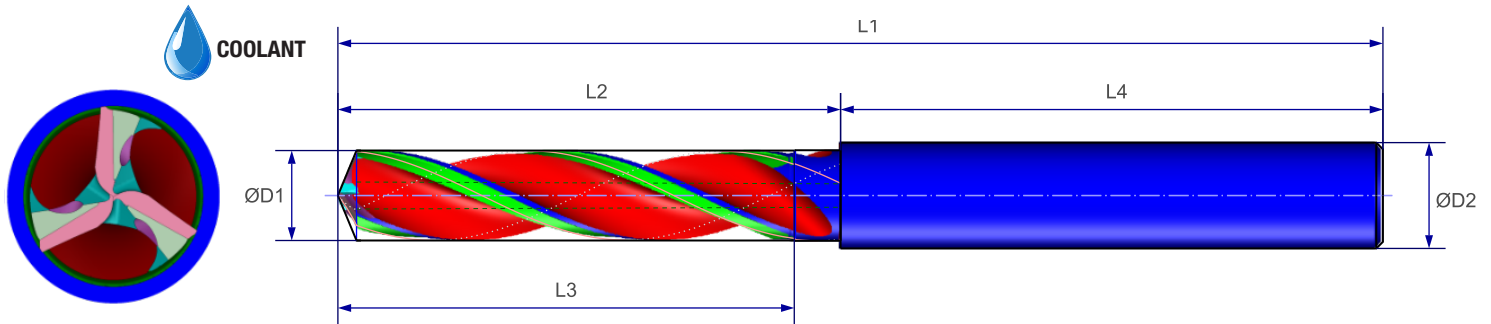
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0300-3XD	3.00		6	62	18	14	36
MSC3-0310-3XD	3.10		6	62	18	14	36
MSC3-0320-3XD	3.20		6	62	18	14	36
MSC3-0330-3XD	3.30		6	62	18	14	36
MSC3-0340-3XD	3.40		6	62	19	14	36
MSC3-0350-3XD	3.50		6	62	19	14	36
MSC3-0360-3XD	3.60		6	62	19	14	36
MSC3-0370-3XD	3.70		6	62	19	14	36
MSC3-0380-3XD	3.80		6	66	22	17	36
MSC3-0390-3XD	3.90	10-24 UNC	6	66	22	17	36
MSC3-0400-3XD	4.00		6	66	23	17	36
MSC3-0410-3XD	4.10	10-32 UNF	6	66	23	17	36
MSC3-0420-3XD	4.20		6	66	23	17	36
MSC3-0430-3XD	4.30	M5	6	66	23	17	36
MSC3-0440-3XD	4.40		6	66	23	17	36
MSC3-0450-3XD	4.50		6	66	23	17	36
MSC3-0470-3XD	4.70		6	66	24	17	36
MSC3-0480-3XD	4.80	12-32 UNF	6	66	27	20	36
MSC3-0490-3XD	4.90		6	66	27	20	36
MSC3-0500-3XD	5.00		6	66	27	20	36
MSC3-0510-3XD	5.10	M6	6	66	27	20	36
MSC3-0520-3XD	5.20		6	66	27	20	36
MSC3-0530-3XD	5.30		6	66	27	20	36
MSC3-0540-3XD	5.40		6	66	28	20	36
MSC3-0550-3XD	5.50		6	66	28	20	36



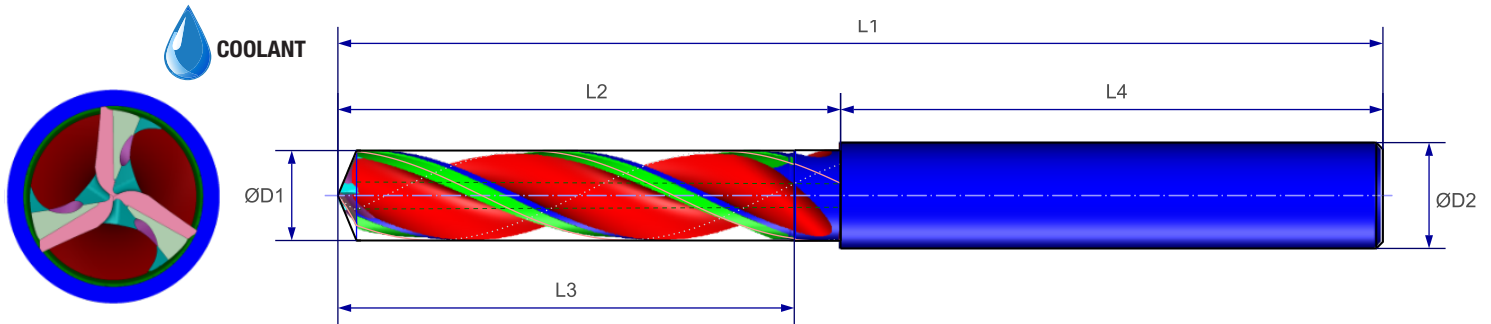
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0560-3XD	5.60		6	66	28	20	36
MSC3-0570-3XD	5.70		6	66	28	20	36
MSC3-0580-3XD	5.80		6	66	28	20	36
MSC3-0590-3XD	5.90		6	66	28	20	36
MSC3-0600-3XD	6.00		8	79	33	24	36
MSC3-0610-3XD	6.10		8	79	33	24	36
MSC3-0620-3XD	6.20		8	79	33	24	36
MSC3-0630-3XD	6.30		8	79	33	24	36
MSC3-0640-3XD	6.40		8	79	33	24	36
MSC3-0650-3XD	6.50		8	79	33	24	36
MSC3-0660-3XD	6.60		8	79	33	24	36
MSC3-0670-3XD	6.70	5/18-18UNF	8	79	34	24	36
MSC3-0675-3XD	6.75		8	79	34	24	36
MSC3-0680-3XD	6.80		8	79	34	24	36
MSC3-0690-3XD	6.90		8	79	34	24	36
MSC3-0700-3XD	7.00		8	79	34	24	36
MSC3-0710-3XD	7.10	MF8x1	8	79	39	29	36
MSC3-0720-3XD	7.20		8	79	39	29	36
MSC3-0730-3XD	7.30		8	79	39	29	36
MSC3-0740-3XD	7.40		8	79	40	29	36
MSC3-0750-3XD	7.50		8	79	40	29	36
MSC3-0760-3XD	7.60		8	79	40	29	36
MSC3-0770-3XD	7.70		8	79	40	29	36
MSC3-0780-3XD	7.80		8	79	40	29	36
MSC3-0790-3XD	7.90		8	79	40	29	36



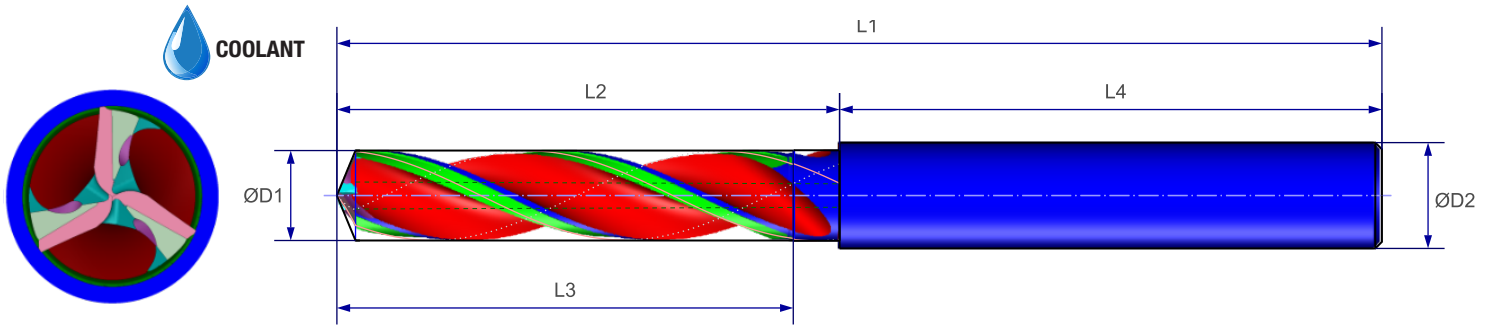
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0800-3XD	8.00		10	89	47	35	40
MSC3-0810-3XD	8.10		10	89	47	35	40
MSC3-0820-3XD	8.20		10	89	47	35	40
MSC3-0830-3XD	8.30		10	89	47	35	40
MSC3-0840-3XD	8.40		10	89	47	35	40
MSC3-0850-3XD	8.50		10	89	47	35	40
MSC3-0860-3XD	8.60	3/8-24 UNF	10	89	47	35	40
MSC3-0870-3XD	8.70	M10	10	89	48	35	40
MSC3-0880-3XD	8.80		10	89	48	35	40
MSC3-0890-3XD	8.90	MF10x1.25	10	89	48	35	40
MSC3-0900-3XD	9.00		10	89	48	35	40
MSC3-0910-3XD	9.10		10	89	48	35	40
MSC3-0920-3XD	9.20		10	89	48	35	40
MSC3-0930-3XD	9.30		10	89	48	35	40
MSC3-0940-3XD	9.40		10	89	49	35	40
MSC3-0950-3XD	9.50		10	89	49	35	40
MSC3-0960-3XD	9.60		10	89	49	35	40
MSC3-0970-3XD	9.70		10	89	49	35	40
MSC3-0980-3XD	9.80		10	89	49	35	40
MSC3-0990-3XD	9.90		10	89	49	35	40
MSC3-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MSC3-1010-3XD	10.10		12	102	55	40	45
MSC3-1020-3XD	10.20		12	102	55	40	45
MSC3-1030-3XD	10.30		12	102	55	40	45
MSC3-1040-3XD	10.40		12	102	55	40	45



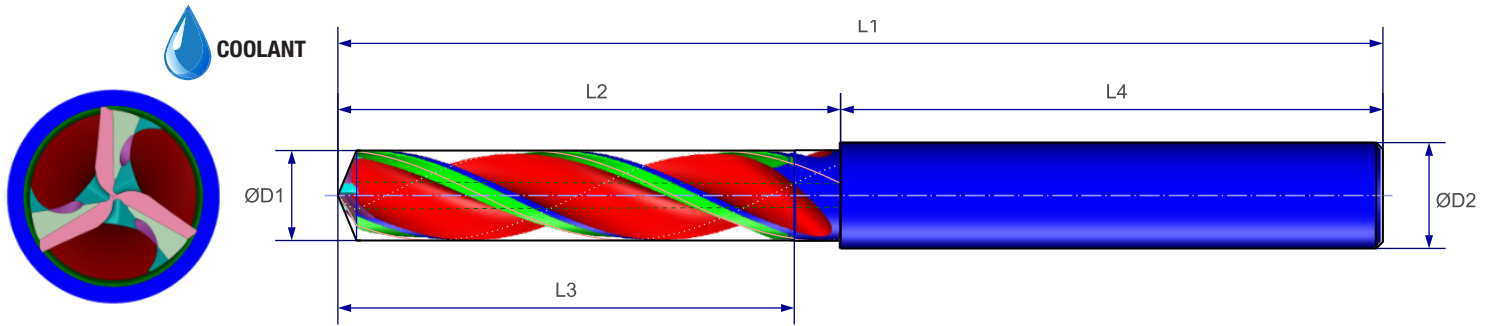
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1050-3XD	10.50		12	102	55	40	45
MSC3-1060-3XD	10.60		12	102	55	40	45
MSC3-1070-3XD	10.70	MF12x1.5	12	102	56	40	45
MSC3-1080-3XD	10.80		12	102	56	40	45
MSC3-1090-3XD	10.90		12	102	56	40	45
MSC3-1100-3XD	11.00		12	102	56	40	45
MSC3-1110-3XD	11.10		12	102	56	40	45
MSC3-1120-3XD	11.20		12	102	56	40	45
MSC3-1140-3XD	11.40		12	102	57	40	45
MSC3-1150-3XD	11.50		12	102	57	40	45
MSC3-1160-3XD	11.60	1/2-20 UNF	12	102	57	40	45
MSC3-1170-3XD	11.70		12	102	57	40	45
MSC3-1180-3XD	11.80		12	102	57	40	45
MSC3-1190-3XD	11.90		12	102	57	40	45
MSC3-1200-3XD	12.00		14	107	61	43	45
MSC3-1210-3XD	12.10		14	107	61	43	45
MSC3-1220-3XD	12.20		14	107	61	43	45
MSC3-1230-3XD	12.30		14	107	61	43	45
MSC3-1250-3XD	12.50		14	107	61	43	45
MSC3-1260-3XD	12.60		14	107	61	43	45
MSC3-1270-3XD	12.70		14	107	62	43	45
MSC3-1280-3XD	12.80		14	107	62	43	45
MSC3-1290-3XD	12.90		14	107	62	43	45
MSC3-1300-3XD	13.00		14	107	62	43	45
MSC3-1310-3XD	13.10		14	107	62	43	45



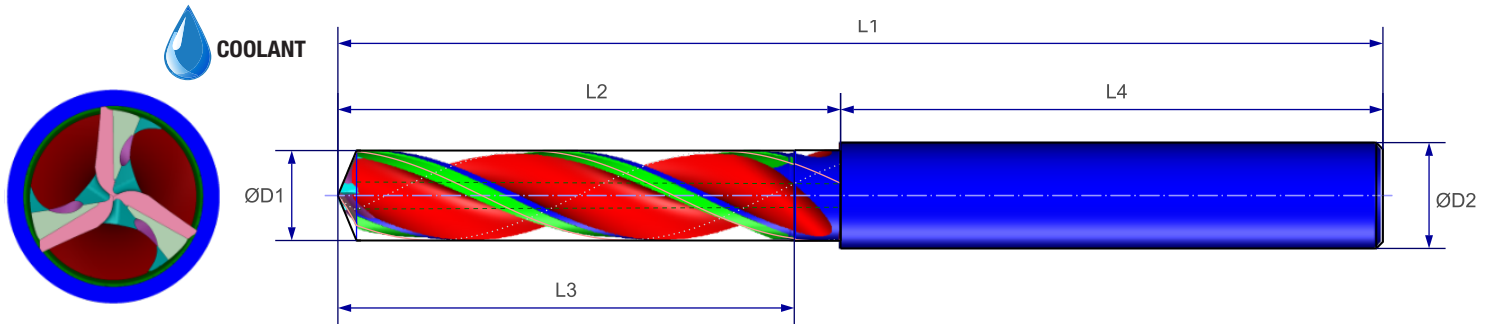
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1320-3XD	13.20		14	107	62	43	45
MSC3-1330-3XD	13.30		14	107	62	43	45
MSC3-1350-3XD	13.50		14	107	63	43	45
MSC3-1380-3XD	13.80		14	107	63	43	45
MSC3-1400-3XD	14.00		16	115	66	45	48
MSC3-1410-3XD	14.10		16	115	66	45	48
MSC3-1420-3XD	14.20		16	115	66	45	48
MSC3-1430-3XD	14.30		16	115	66	45	48
MSC3-1440-3XD	14.40		16	115	66	45	48
MSC3-1450-3XD	14.50		16	115	66	45	48
MSC3-1460-3XD	14.60		16	115	66	45	48
MSC3-1480-3XD	14.80		16	115	67	45	48
MSC3-1500-3XD	15.00		16	115	67	45	48
MSC3-1510-3XD	15.10		16	115	67	45	48
MSC3-1520-3XD	15.20		16	115	67	45	48
MSC3-1530-3XD	15.30		16	115	67	45	48
MSC3-1540-3XD	15.40		16	115	68	45	48
MSC3-1550-3XD	15.50		16	115	68	45	48
MSC3-1560-3XD	15.60		16	115	68	45	48
MSC3-1570-3XD	15.70		16	115	68	45	48
MSC3-1580-3XD	15.80		16	115	68	45	48
MSC3-1590-3XD	15.90		16	115	68	45	48
MSC3-1600-3XD	16.00		18	123	75	51	48
MSC3-1610-3XD	16.10		18	123	75	51	48
MSC3-1650-3XD	16.50		18	123	75	51	48



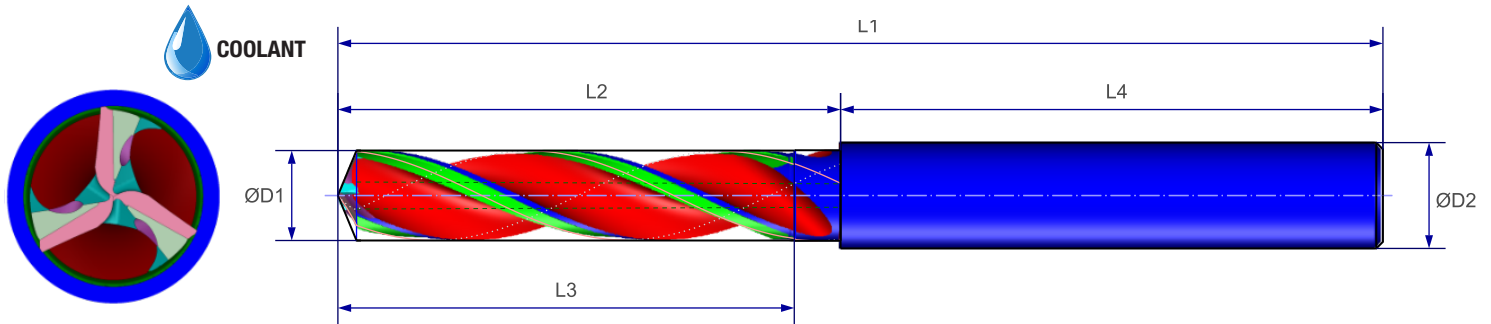
DESCRIPTION EXAMPLE... M=METRIC, S=HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 125=DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1700-3XD	17.00		18	123	76	51	48
MSC3-1750-3XD	17.50		18	123	77	51	48
MSC3-1770-3XD	17.70		18	123	77	51	48
MSC3-1800-3XD	18.00		20	131	82	55	50
MSC3-1840-3XD	18.40		20	131	82	55	50
MSC3-1850-3XD	18.50		20	131	82	55	50
MSC3-1900-3XD	19.00		20	131	83	55	50
MSC3-1910-3XD	19.10		20	131	83	55	50
MSC3-1920-3XD	19.20		20	131	83	55	50
MSC3-1930-3XD	19.30		20	131	83	55	50
MSC3-1950-3XD	19.50		20	131	84	55	50
MSC3-2000-3XD	20.00		20	131	85	55	50



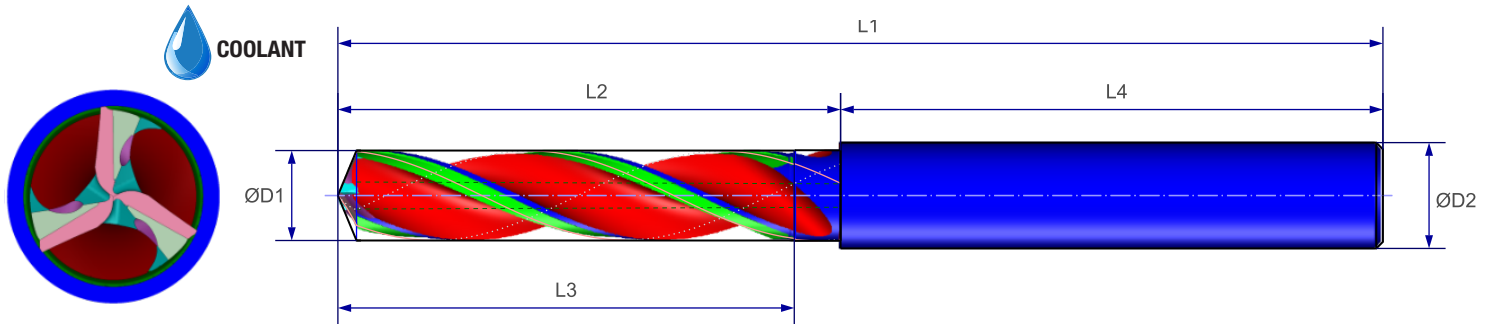
DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0300-5XD	3.00		6	66	27	23	36
MSC3-0310-5XD	3.10		6	66	27	23	36
MSC3-0320-5XD	3.20		6	66	27	23	36
MSC3-0330-5XD	3.30		6	66	27	23	36
MSC3-0340-5XD	3.40		6	66	28	23	36
MSC3-0350-5XD	3.50		6	66	28	23	36
MSC3-0360-5XD	3.60		6	66	28	23	36
MSC3-0370-5XD	3.70		6	66	28	23	36
MSC3-0380-5XD	3.80		6	74	34	29	36
MSC3-0390-5XD	3.90	10-24 UNC	6	74	34	29	36
MSC3-0400-5XD	4.00		6	74	35	29	36
MSC3-0410-5XD	4.10	10-32 UNC	6	74	35	29	36
MSC3-0420-5XD	4.20		6	74	35	29	36
MSC3-0430-5XD	4.30	M5	6	74	35	29	36
MSC3-0440-5XD	4.40		6	74	35	29	36
MSC3-0450-5XD	4.50		6	74	35	29	36
MSC3-0470-5XD	4.70		6	74	36	29	36
MSC3-0480-5XD	4.80	12-32 UNC	6	82	42	35	36
MSC3-0490-5XD	4.90		6	82	42	35	36
MSC3-0500-5XD	5.00		6	82	42	35	36
MSC3-0510-5XD	5.10	M6	6	82	42	35	36
MSC3-0520-5XD	5.20		6	82	42	35	36
MSC3-0530-5XD	5.30	1/4-20 UNC	6	82	42	35	36
MSC3-0540-5XD	5.40		6	82	43	35	36
MSC3-0550-5XD	5.50		6	82	43	35	36



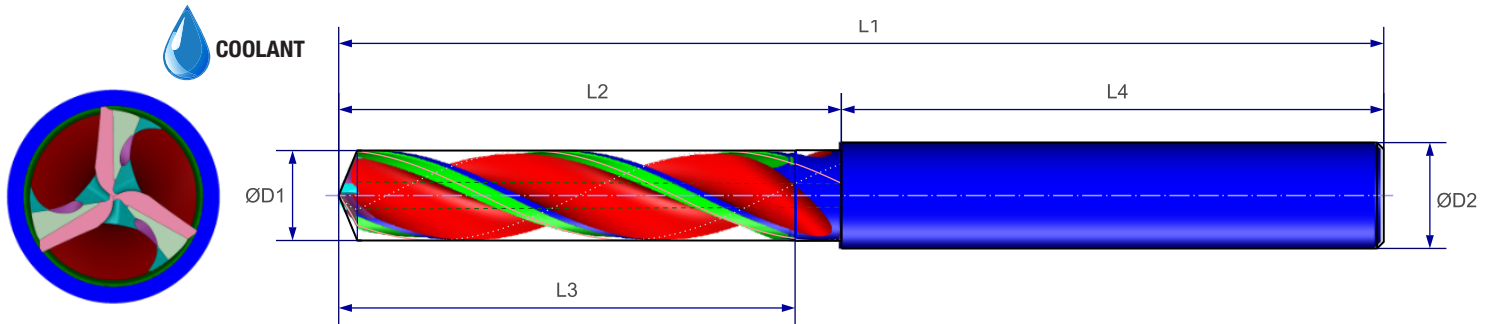
DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0560-5XD	5.60		6	82	43	35	36
MSC3-0570-5XD	5.70		6	82	43	35	36
MSC3-0580-5XD	5.80		6	82	43	35	36
MSC3-0590-5XD	5.90		6	82	43	35	36
MSC3-0600-5XD	6.00		8	91	52	43	36
MSC3-0610-5XD	6.10		8	91	52	43	36
MSC3-0620-5XD	6.20		8	91	52	43	36
MSC3-0630-5XD	6.30		8	91	52	43	36
MSC3-0640-5XD	6.40		8	91	52	43	36
MSC3-0650-5XD	6.50		8	91	52	43	36
MSC3-0660-5XD	6.60		8	91	52	43	36
MSC3-0670-5XD	6.70	5/18-18UNF	8	91	53	43	36
MSC3-0675-5XD	6.75		8	91	53	43	36
MSC3-0680-5XD	6.80		8	91	53	43	36
MSC3-0690-5XD	6.90	M8	8	91	53	43	36
MSC3-0700-5XD	7.00		8	91	53	43	36
MSC3-0710-5XD	7.10	MF8x1	8	91	53	43	36
MSC3-0720-5XD	7.20		8	91	53	43	36
MSC3-0730-5XD	7.30		8	91	53	43	36
MSC3-0740-5XD	7.40		8	91	54	43	36
MSC3-0750-5XD	7.50		8	91	54	43	36
MSC3-0760-5XD	7.60		8	91	54	43	36
MSC3-0770-5XD	7.70		8	91	54	43	36
MSC3-0780-5XD	7.80		8	91	54	43	36
MSC3-0790-5XD	7.90		8	91	54	43	36



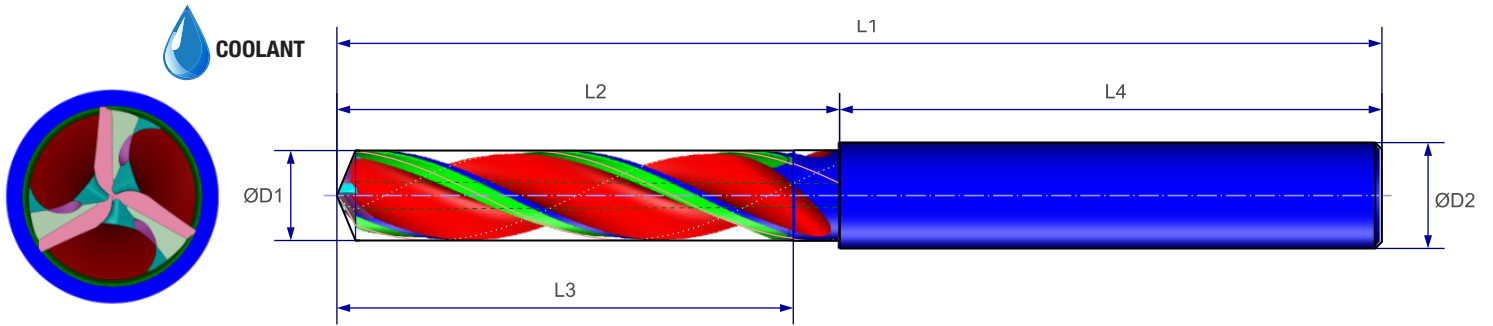
DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-0800-5XD	8.00		10	103	61	49	40
MSC3-0810-5XD	8.10		10	103	61	49	40
MSC3-0820-5XD	8.20	3/8-16 UNC	10	103	61	49	40
MSC3-0830-5XD	8.30		10	103	61	49	40
MSC3-0840-5XD	8.40		10	103	61	49	40
MSC3-0850-5XD	8.50		10	103	61	49	40
MSC3-0860-5XD	8.60	3/8-24 UNF	10	103	61	49	40
MSC3-0870-5XD	8.70	M10	10	103	62	49	40
MSC3-0880-5XD	8.80		10	103	62	49	40
MSC3-0890-5XD	8.90	MF10x1.25	10	103	62	49	40
MSC3-0900-5XD	9.00		10	103	62	49	40
MSC3-0910-5XD	9.10		10	103	62	49	40
MSC3-0920-5XD	9.20		10	103	62	49	40
MSC3-0930-5XD	9.30		10	103	62	49	40
MSC3-0940-5XD	9.40		10	103	63	49	40
MSC3-0950-5XD	9.50		10	103	63	49	40
MSC3-0960-5XD	9.60		10	103	63	49	40
MSC3-0970-5XD	9.70		10	103	63	49	40
MSC3-0980-5XD	9.70		10	103	63	49	40
MSC3-0990-5XD	9.90		10	103	63	49	40
MSC3-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MSC3-1010-5XD	10.10		12	118	71	56	45
MSC3-1020-5XD	10.20		12	118	71	56	45
MSC3-1030-5XD	10.30		12	118	71	56	45
MSC3-1040-5XD	10.40	M12	12	118	71	56	45



DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1050-5XD	10.50		12	118	71	56	45
MSC3-1060-5XD	10.60		12	118	71	56	45
MSC3-1070-5XD	10.70	MF12x1.5	12	118	72	56	45
MSC3-1080-5XD	10.80		12	118	72	56	45
MSC3-1090-5XD	10.90		12	118	72	56	45
MSC3-1100-5XD	11.00	1/2-13 UNC	12	118	72	56	45
MSC3-1110-5XD	11.10		12	118	72	56	45
MSC3-1120-5XD	11.20		12	118	72	56	45
MSC3-1140-5XD	11.40		12	118	73	56	45
MSC3-1150-5XD	11.50		12	118	73	56	45
MSC3-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MSC3-1170-5XD	11.70		12	118	73	56	45
MSC3-1180-5XD	11.80		12	118	73	56	45
MSC3-1190-5XD	11.90		12	118	73	56	45
MSC3-1200-5XD	12.00		14	124	78	60	45
MSC3-1210-5XD	12.10		14	124	78	60	45
MSC3-1220-5XD	12.20		14	124	78	60	45
MSC3-1230-5XD	12.30		14	124	78	60	45
MSC3-1250-5XD	12.50		14	124	78	60	45
MSC3-1260-5XD	12.60		14	124	78	60	45
MSC3-1270-5XD	12.70		14	124	79	60	45
MSC3-1280-5XD	12.80		14	124	79	60	45
MSC3-1290-5XD	12.90		14	124	79	60	45
MSC3-1300-5XD	13.00		14	124	79	60	45
MSC3-1310-5XD	13.10		14	124	79	60	45



DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1320-5XD	13.20		14	124	79	60	45
MSC3-1330-5XD	13.30		14	124	79	60	45
MSC3-1350-5XD	13.50		14	124	80	60	45
MSC3-1380-5XD	13.80		14	124	80	60	45
MSC3-1400-5XD	14.00		16	133	84	63	48
MSC3-1410-5XD	14.10		16	133	84	63	48
MSC3-1420-5XD	14.20		16	133	84	63	48
MSC3-1430-5XD	14.30		16	133	84	63	48
MSC3-1440-5XD	14.40		16	133	84	63	48
MSC3-1450-5XD	14.50		16	133	84	63	48
MSC3-1460-5XD	14.60		16	133	84	63	48
MSC3-1480-5XD	14.80		16	133	85	63	48
MSC3-1500-5XD	15.00		16	133	85	63	48
MSC3-1510-5XD	15.10		16	133	85	63	48
MSC3-1520-5XD	15.20		16	133	85	63	48
MSC3-1530-5XD	15.30		16	133	85	63	48
MSC3-1540-5XD	15.40		16	133	86	63	48
MSC3-1550-5XD	15.50		16	133	86	63	48
MSC3-1560-5XD	15.60		16	133	86	63	48
MSC3-1570-5XD	15.70		16	133	86	63	48
MSC3-1580-5XD	15.80		16	133	86	63	48
MSC3-1590-5XD	15.90		16	133	86	63	48
MSC3-1600-5XD	16.00		18	143	137	113	48
MSC3-1610-5XD	16.10		18	143	137	113	48
MSC3-1650-5XD	16.50		18	143	137	113	48



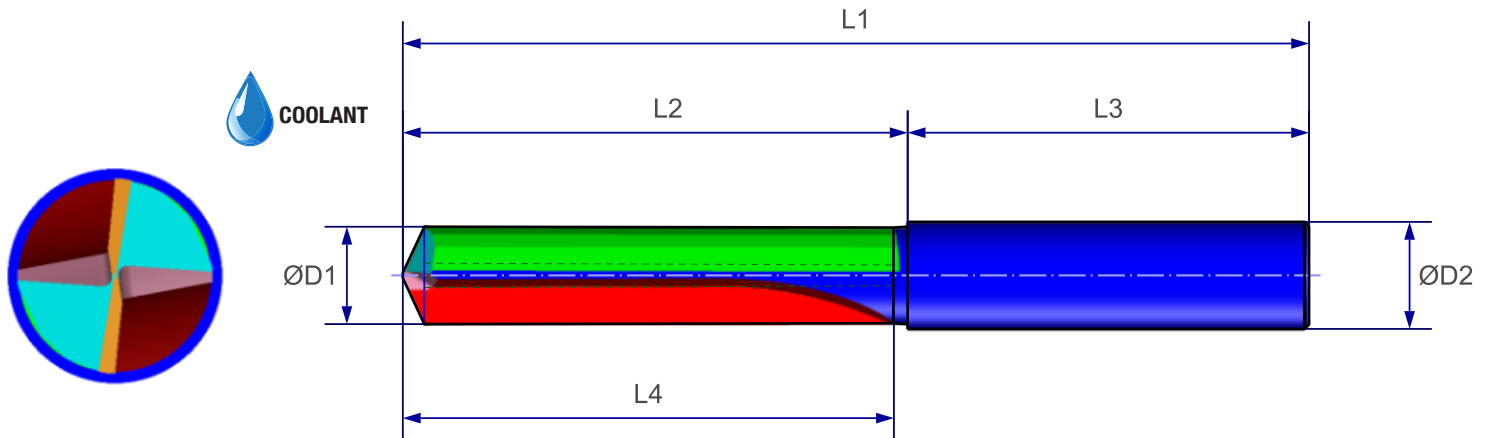
DESCRIPTION EXAMPLE... M=METRIC, S= HIGH TEMP ALLOYS, C=COOLANT, 3=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MSC3-1700-5XD	17.00		18	143	138	113	48
MSC3-1750-5XD	17.50		18	143	139	113	48
MSC3-1770-5XD	17.70		18	143	139	113	48
MSC3-1800-5XD	18.00		20	153	151	124	50
MSC3-1840-5XD	18.40		20	153	151	124	50
MSC3-1850-5XD	18.50		20	153	151	124	50
MSC3-1900-5XD	19.00		20	153	152	124	50
MSC3-1910-5XD	19.10		20	153	152	124	50
MSC3-1920-5XD	19.20		20	153	152	124	50
MSC3-1930-5XD	19.30		20	153	152	124	50
MSC3-1950-5XD	19.50		20	153	153	124	50
MSC3-2000-5XD	20.00		20	153	154	124	50

SPEED & FEED

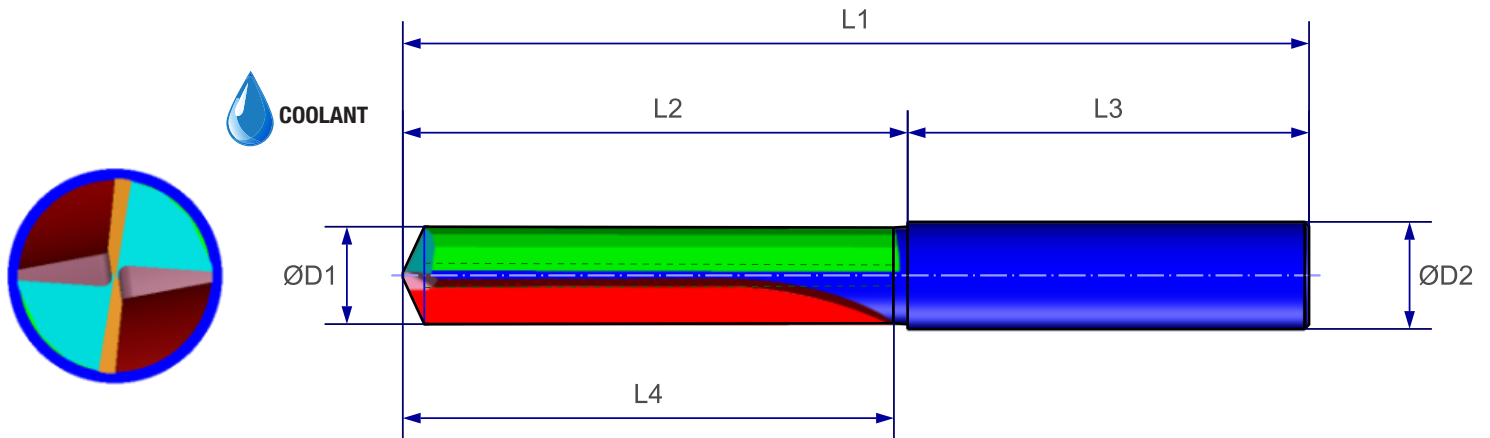
		Tool Diameter								
		inch	0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75
		mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0

2-Flute		Iron-Based, Heat-Resistant Alloys			Tensile Strength RM (MPa)*: 500-1200				Hardness (Hb) or HRC: 160-260				
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Thru-Coolant	60	75	100	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008
Nickel-Based or Cobalt-Based, Heat-Resistant Alloys		Tensile Strength RM (MPa)8: 1000-1450			Hardness (Hb) or HRC: 250-450								
Cutting Speed					Feed Rate by Diameter								
SFM	Thru-Coolant	30	50	70	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008
Titanium Alloys		Tensile Strength RM (MPa): 600-850			Hardness (HB) or HRC: 180-350								
Cutting Speed					Feed Rate by Diameter								
SFM	Thru-Coolant	70	110	150	IPR	.001-.002	.001-.002	.002-.003	.002-.003	.003-.004	.003-.004	.004-.005	.004-.005

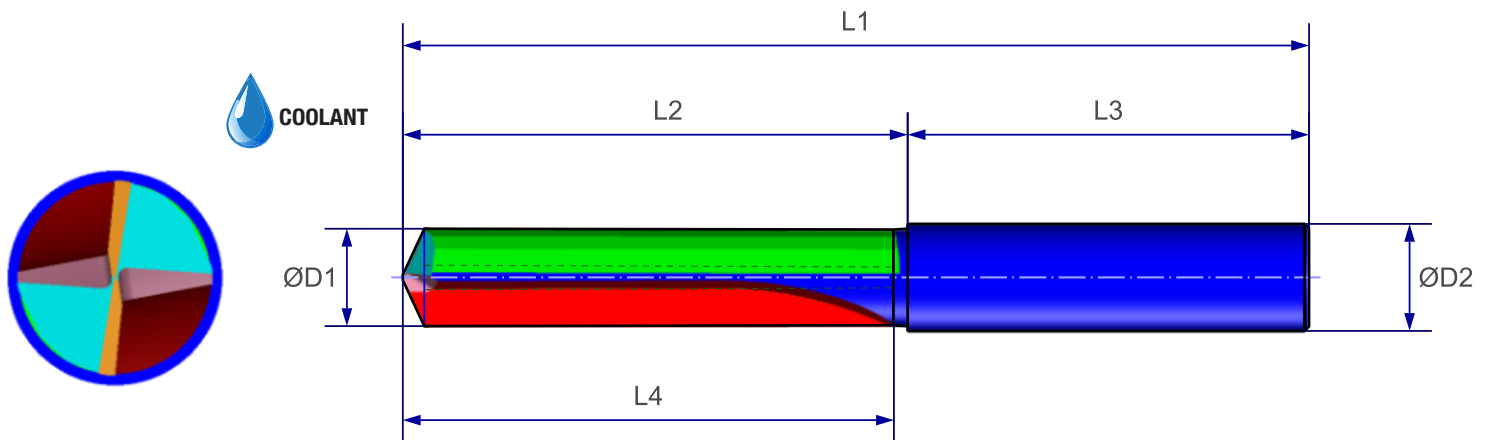
3-Flute		Iron-Based, Heat-Resistant Alloys			Tensile Strength RM (MPa)*: 500-1200				Hardness (Hb) or HRC: 160-260				
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Thru-Coolant	60	75	100	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008
Nickel-Based or Cobalt-Based, Heat-Resistant Alloys		Tensile Strength RM (MPa)8: 1000-1450			Hardness (Hb) or HRC: 250-450								
Cutting Speed					Feed Rate by Diameter								
SFM	Thru-Coolant	30	50	70	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008
Titanium Alloys		Tensile Strength RM (MPa)*: 900-1600			Hardness (Hb) or HRC: 300-400								
Cutting Speed					Feed Rate by Diameter								
SFM	Thru-Coolant	70	110	150	IPR	.001-.002	.001-.002	.002-.003	.002-.003	.003-.004	.003-.004	.004-.005	.004-.005



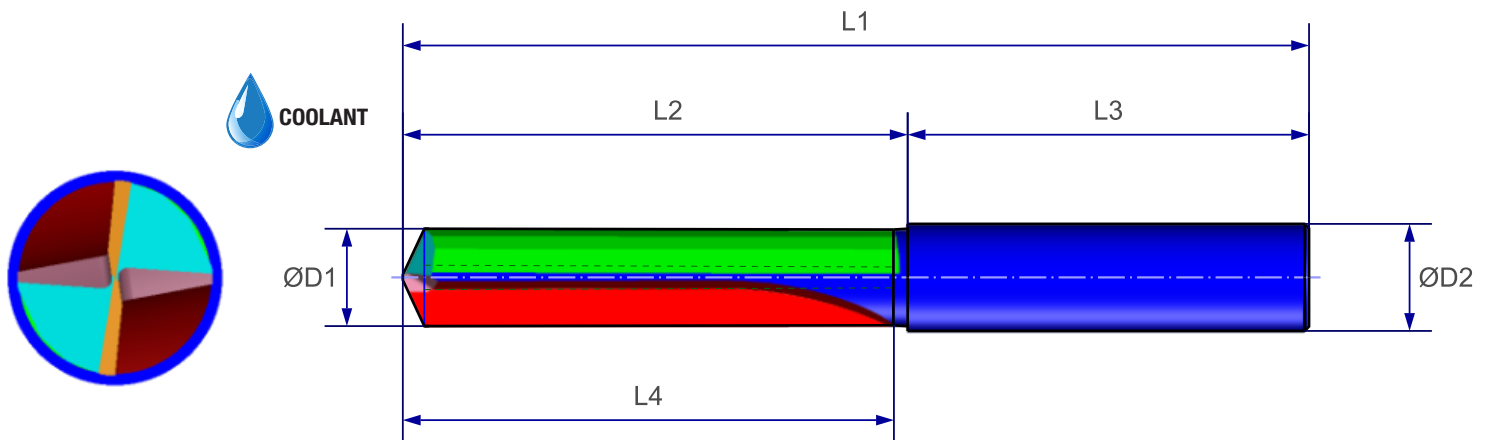
DESCRIPTION EXAMPLE... I=INCH, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ITTC2-1562-5XD	.156	5/32	6	2.913	1.339	1.142	1.417
ITTC2-1610-5XD	.161	10-32 UNF	6	2.913	1.378	1.142	1.417
ITTC2-1690-5XD	.169	M5	6	2.913	1.378	1.142	1.417
ITTC2-1719-5XD	.172	11/64	6	2.913	1.378	1.142	1.417
ITTC2-1875-5XD	.188	3/16	6	3.228	1.654	1.378	1.417
ITTC2-1890-5XD	.189	12-32 UNF	6	3.228	1.654	1.378	1.417
ITTC2-2010-5XD	.201	M6	6	3.228	1.654	1.378	1.417
ITTC2-2031-5XD	.203	13/64	6	3.228	1.654	1.378	1.417
ITTC2-2188-5XD	.219	7/32	6	3.228	1.693	1.378	1.417
ITTC2-2344-5XD	.234	15/64	6	3.228	1.693	1.378	1.417
ITTC2-2500-5XD	.250	1/4	8	3.583	2.047	1.693	1.417
ITTC2-2640-5XD	.264	5/16-18UNF	8	3.583	2.087	1.693	1.417
ITTC2-2656-5XD	.266	17/64	8	3.583	2.087	1.693	1.417
ITTC2-2800-5XD	.280	MF8x1	8	3.583	2.087	1.693	1.417
ITTC2-2813-5XD	.281	9/32	8	3.583	2.087	1.693	1.417
ITTC2-2969-5XD	.297	19/64	8	3.583	2.126	1.693	1.417
ITTC2-3125-5XD	.313	5/16	8	3.583	2.126	1.693	1.417
ITTC2-3281-5XD	.328	21/64	10	4.055	2.402	1.929	1.575
ITTC2-3438-5XD	.344	11/32	10	4.055	2.441	1.929	1.575
ITTC2-3594-5XD	.359	23/64	10	4.055	2.441	1.929	1.575
ITTC2-3750-5XD	.375	3/8	10	4.055	2.480	1.929	1.575
ITTC2-3906-5XD	.391	25/64	10	4.055	2.480	1.929	1.575
ITTC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.205	1.575
ITTC2-4063-5XD	.406	13/32	12	4.646	2.795	2.205	1.772



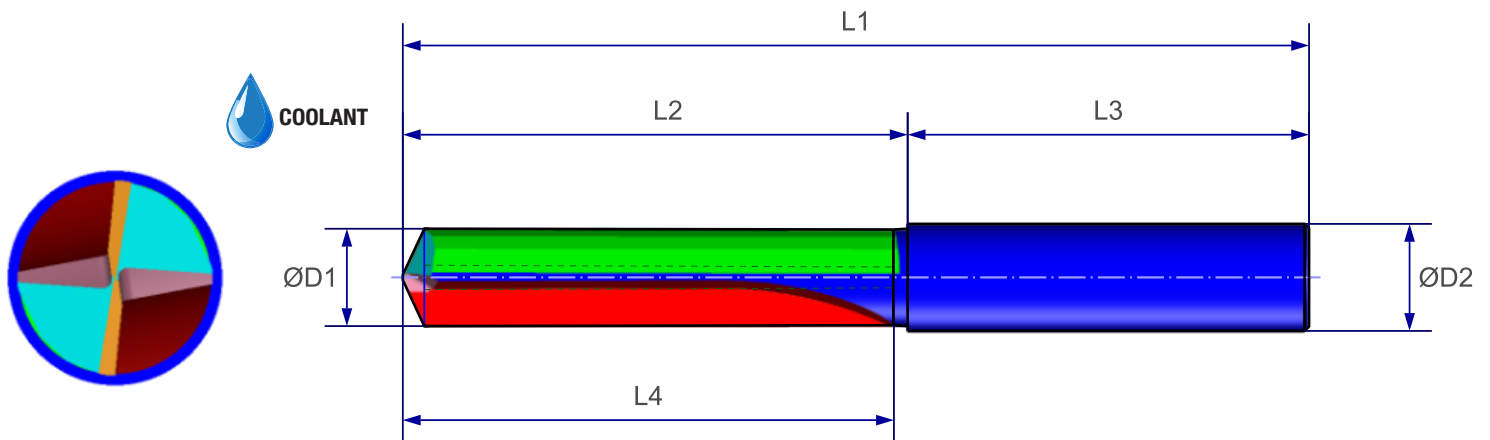
DESCRIPTION EXAMPLE... I=INCH, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 125=DIA, 5XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
ITTC2-4210-5XD	.421	MF12x1.5	12	4.646	2.835	2.205	1.772
ITTC2-4375-5XD	.438	7/16	12	4.646	2.835	2.205	1.772
ITTC2-4531-5XD	.453	29/64	12	4.646	2.874	2.205	1.772
ITTC2-4570-5XD	.457	1/2-20 UNF	12	4.646	2.874	2.205	1.772
ITTC2-4690-5XD	.469	15/32	12	4.646	2.874	2.205	1.772
ITTC2-4844-5XD	.484	31/64	14	4.882	3.071	2.362	1.772
ITTC2-5000-5XD	.500	1/2	14	4.882	3.110	2.362	1.772
ITTC2-5469-5XD	.547	35/64	14	4.882	3.150	2.362	1.890
ITTC2-5625-5XD	.563	9/16	16	5.236	3.307	2.480	1.890
ITTC2-5781-5XD	.578	37/64	16	5.236	3.346	2.480	1.910
ITTC2-5938-5XD	.594	19/32	16	5.236	3.346	2.480	1.910
ITTC2-6094-5XD	.609	39/64	16	5.236	3.386	2.480	1.910
ITTC2-6250-5XD	.625	5/8	16	5.236	3.386	2.480	1.910
ITTC2-6875-5XD	.688	11/16	18	5.630	3.819	2.795	1.910
ITTC2-7500-5XD	.750	3/4	20	6.024	4.134	3.031	1.990



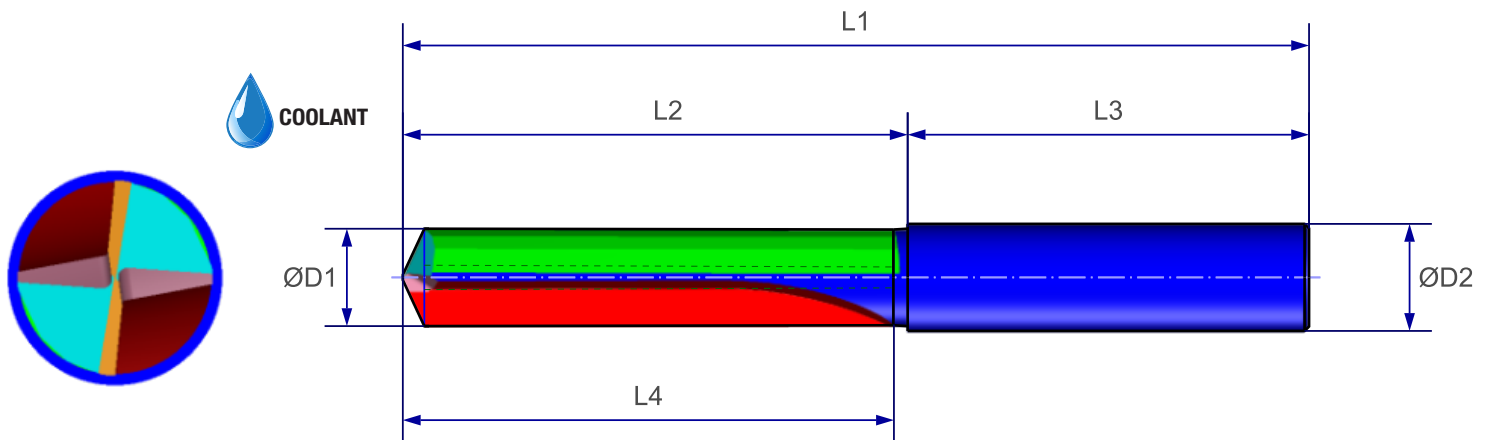
DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-0400-5XD	4.00		6	74	35	29	36
MTT2-0410-5XD	4.10	10-32 UNC	6	74	35	29	36
MTT2-0420-5XD	4.20		6	74	35	29	36
MTT2-0430-5XD	4.30	M5	6	74	35	29	36
MTT2-0440-5XD	4.40		6	74	35	29	36
MTT2-0450-5XD	4.50		6	74	35	29	36
MTT2-0470-5XD	4.70		6	74	36	29	36
MTT2-0480-5XD	4.80	12-32 UNC	6	82	42	35	36
MTT2-0490-5XD	4.90		6	82	42	35	36
MTT2-0500-5XD	5.00		6	82	42	35	36
MTT2-0510-5XD	5.10	M6	6	82	42	35	36
MTT2-0520-5XD	5.20		6	82	42	35	36
MTT2-0530-5XD	5.30	1/4-20 UNC	6	82	42	35	36
MTT2-0540-5XD	5.40		6	82	43	35	36
MTT2-0550-5XD	5.50		6	82	43	35	36
MTT2-0560-5XD	5.60		6	82	43	35	36
MTT2-0570-5XD	5.70		6	82	43	35	36
MTT2-0580-5XD	5.80		6	82	43	35	36
MTT2-0590-5XD	5.90		6	82	43	35	36
MTT2-0600-5XD	6.00		8	91	52	43	36
MTT2-0610-5XD	6.10		8	91	52	43	36
MTT2-0620-5XD	6.20		8	91	52	43	36
MTT2-0630-5XD	6.30		8	91	52	43	36
MTT2-0640-5XD	6.40		8	91	52	43	36



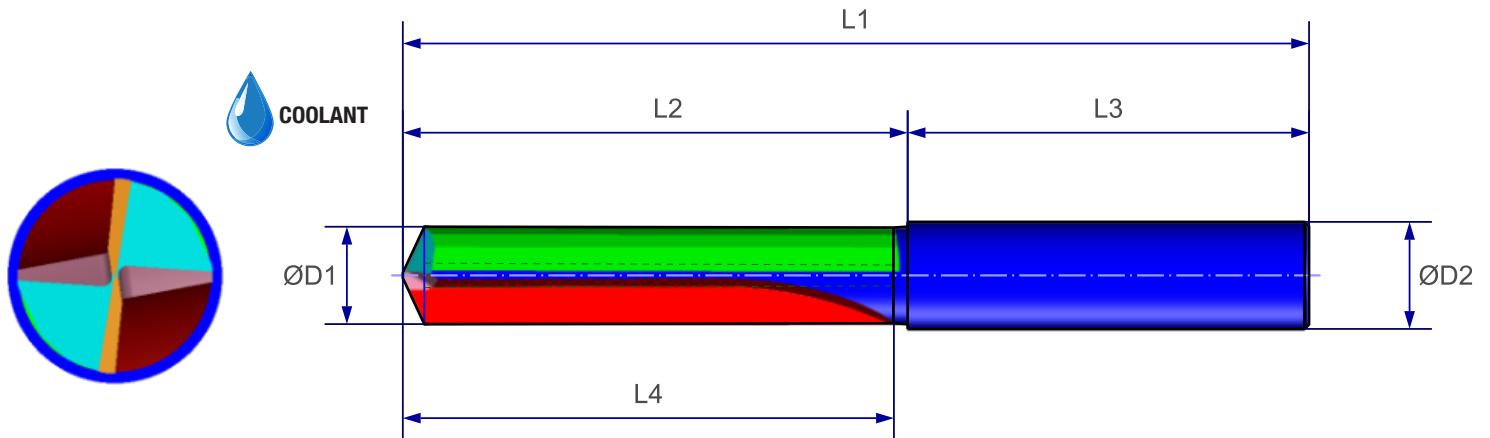
DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-0650-5XD	6.50		8	91	52	43	36
MTT2-0660-5XD	6.60		8	91	52	43	36
MTT2-0670-5XD	6.70	5/18-18UNF	8	91	53	43	36
MTT2-0675-5XD	6.75		8	91	53	43	36
MTT2-0680-5XD	6.80		8	91	53	43	36
MTT2-0690-5XD	6.90	M8	8	91	53	43	36
MTT2-0700-5XD	7.00		8	91	53	43	36
MTT2-0710-5XD	7.10	MF8x1	8	91	53	43	36
MTT2-0720-5XD	7.20		8	91	53	43	36
MTT2-0730-5XD	7.30		8	91	53	43	36
MTT2-0740-5XD	7.40		8	91	54	43	36
MTT2-0750-5XD	7.50		8	91	54	43	36
MTT2-0760-5XD	7.60		8	91	54	43	36
MTT2-0770-5XD	7.70		8	91	54	43	36
MTT2-0780-5XD	7.80		8	91	54	43	36
MTT2-0790-5XD	7.90		8	91	54	43	36
MTT2-0800-5XD	8.00		10	103	61	49	40
MTT2-0810-5XD	8.10		10	103	61	49	40
MTT2-0820-5XD	8.20	3/8-16 UNC	10	103	61	49	40
MTT2-0830-5XD	8.30		10	103	61	49	40
MTT2-0840-5XD	8.40		10	103	61	49	40
MTT2-0850-5XD	8.50		10	103	61	49	40
MTT2-0860-5XD	8.60	3/8-24 UNF	10	103	61	49	40
MTT2-0870-5XD	8.70	M10	10	103	62	49	40



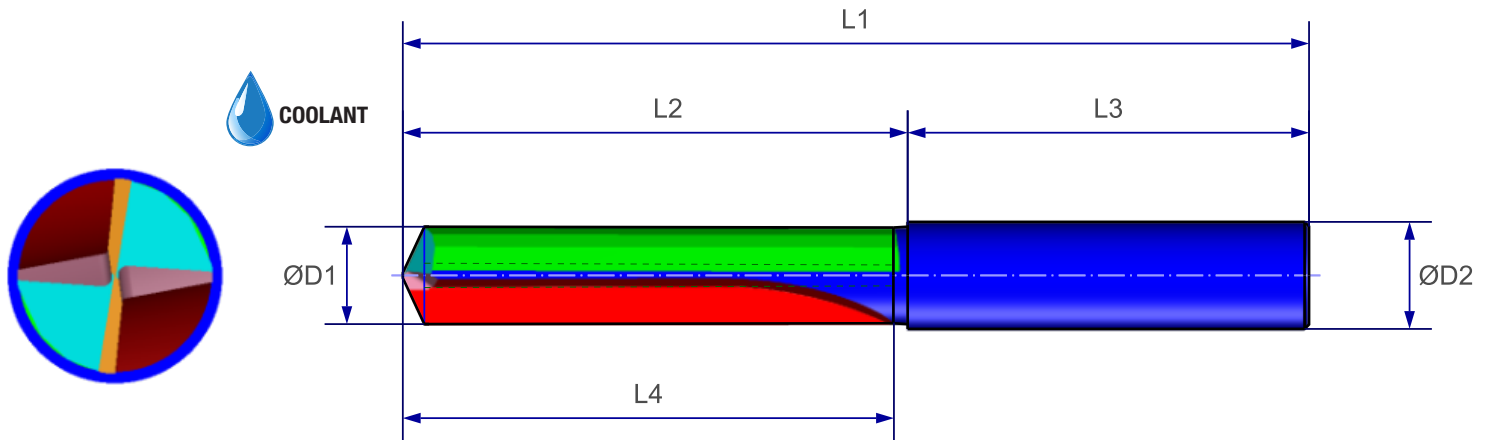
DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-0880-5XD	8.80		10	103	62	49	40
MTT2-0890-5XD	8.90	MF10x1.25	10	103	62	49	40
MTT2-0900-5XD	9.00		10	103	62	49	40
MTT2-0910-5XD	9.10		10	103	62	49	40
MTT2-0920-5XD	9.20		10	103	62	49	40
MTT2-0930-5XD	9.30		10	103	62	49	40
MTT2-0940-5XD	9.40		10	103	63	49	40
MTT2-0950-5XD	9.50		10	103	63	49	40
MTT2-0960-5XD	9.60		10	103	63	49	40
MTT2-0970-5XD	9.70		10	103	63	49	40
MTT2-0980-5XD	9.70		10	103	63	49	40
MTT2-0990-5XD	9.90		10	103	63	49	40
MTT2-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MTT2-1010-5XD	10.10		12	118	71	56	45
MTT2-1020-5XD	10.20		12	118	71	56	45
MTT2-1030-5XD	10.30		12	118	71	56	45
MTT2-1040-5XD	10.40	M12	12	118	71	56	45
MTT2-1050-5XD	10.50		12	118	71	56	45
MTT2-1060-5XD	10.60		12	118	71	56	45
MTT2-1070-5XD	10.70	MF12x1.5	12	118	72	56	45
MTT2-1080-5XD	10.80		12	118	72	56	45
MTT2-1090-5XD	10.90		12	118	72	56	45
MTT2-1100-5XD	11.00	1/2-13 UNC	12	118	72	56	45
MTT2-1110-5XD	11.10		12	118	72	56	45



DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-1120-5XD	11.20		12	118	72	56	45
MTT2-1140-5XD	11.40		12	118	73	56	45
MTT2-1150-5XD	11.50		12	118	73	56	45
MTT2-1160-5XD	11.60	1/2-20 UNF	12	118	73	56	45
MTT2-1170-5XD	11.70		12	118	73	56	45
MTT2-1180-5XD	11.80		12	118	73	56	45
MTT2-1190-5XD	11.90		12	118	73	56	45
MTT2-1200-5XD	12.00		14	124	78	60	45
MTT2-1210-5XD	12.10		14	124	78	60	45
MTT2-1220-5XD	12.20		14	124	78	60	45
MTT2-1230-5XD	12.30		14	124	78	60	45
MTT2-1250-5XD	12.50		14	124	78	60	45
MTT2-1260-5XD	12.60		14	124	78	60	45
MTT2-1270-5XD	12.70		14	124	79	60	45
MTT2-1280-5XD	12.80		14	124	79	60	45
MTT2-1290-5XD	12.90		14	124	79	60	45
MTT2-1300-5XD	13.00		14	124	79	60	45
MTT2-1310-5XD	13.10		14	124	79	60	45
MTT2-1320-5XD	13.20		14	124	79	60	45
MTT2-1330-5XD	13.30		14	124	79	60	45
MTT2-1350-5XD	13.50		14	124	80	60	45
MTT2-1380-5XD	13.80		14	124	80	60	45
MTT2-1400-5XD	14.00		16	133	84	63	48
MTT2-1410-5XD	14.10		16	133	84	63	48

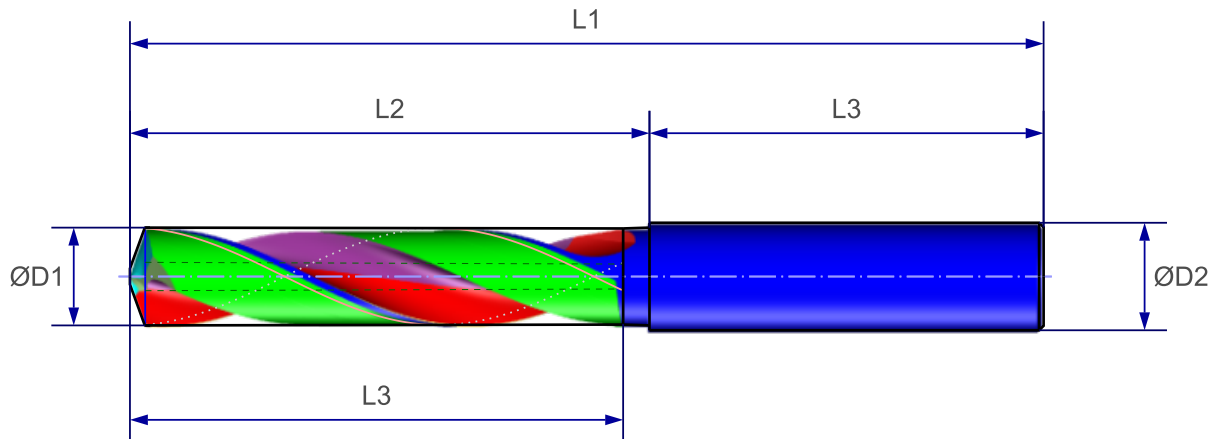
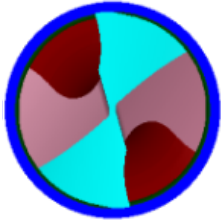


DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-1420-5XD	14.20		16	133	84	63	48
MTT2-1430-5XD	14.30		16	133	84	63	48
MTT2-1440-5XD	14.40		16	133	84	63	48
MTT2-1450-5XD	14.50		16	133	84	63	48
MTT2-1460-5XD	14.60		16	133	84	63	48
MTT2-1480-5XD	14.80		16	133	85	63	48
MTT2-1500-5XD	15.00		16	133	85	63	48
MTT2-1510-5XD	15.10		16	133	85	63	48
MTT2-1520-5XD	15.20		16	133	85	63	48
MTT2-1530-5XD	15.30		16	133	85	63	48
MTT2-1540-5XD	15.40		16	133	86	63	48
MTT2-1550-5XD	15.50		16	133	86	63	48
MTT2-1560-5XD	15.60		16	133	86	63	48
MTT2-1570-5XD	15.70		16	133	86	63	48
MTT2-1580-5XD	15.80		16	133	86	63	48
MTT2-1590-5XD	15.90		16	133	86	63	48
MTT2-1600-5XD	16.00		18	143	95	71	48
MTT2-1610-5XD	16.10		18	143	95	71	48
MTT2-1650-5XD	16.50		18	143	95	71	48
MTT2-1700-5XD	17.00		18	143	96	71	48
MTT2-1750-5XD	17.50		18	143	97	71	48
MTT2-1770-5XD	17.70		18	143	97	71	48
MTT2-1800-5XD	18.00		20	153	104	77	50
MTT2-1840-5XD	18.40		20	153	104	77	50

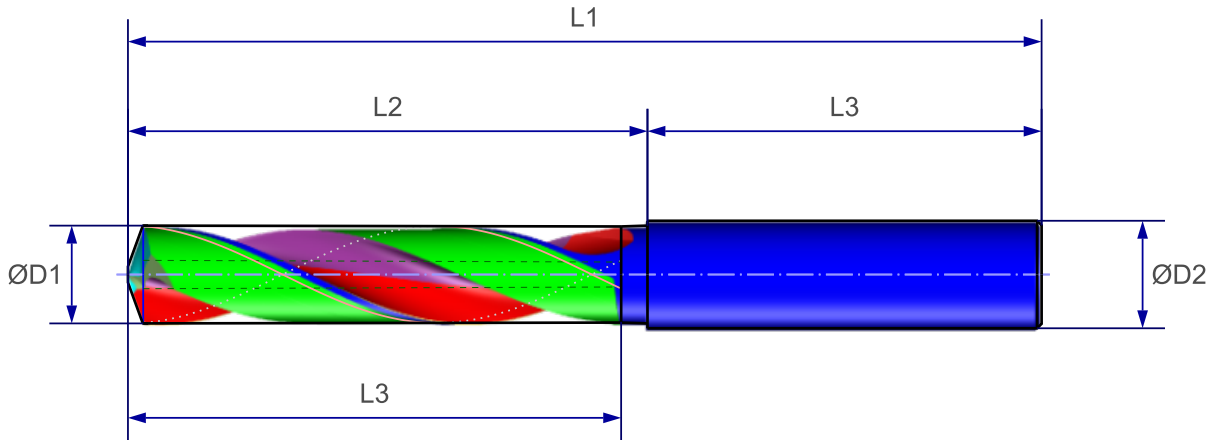
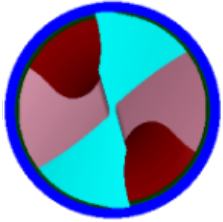


DESCRIPTION EXAMPLE... M=METRIC, TT=TIGHT TOLERANCE, C=COOLANT, 2=FLUTES, 3=Metric DIA 5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MTT2-1850-5XD	18.50		20	153	104	77	50
MTT2-1900-5XD	19.00		20	153	105	77	50
MTT2-1910-5XD	19.10		20	153	105	77	50
MTT2-1920-5XD	19.20		20	153	105	77	50
MTT2-1930-5XD	19.30		20	153	105	77	50
MTT2-1950-5XD	19.50		20	153	106	77	50
MTT2-2000-5XD	20.00		20	153	107	77	50

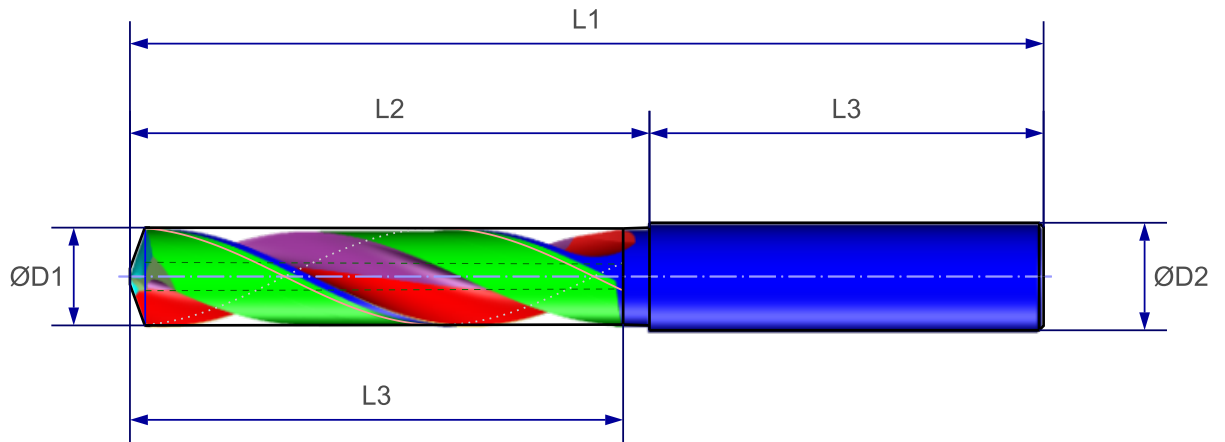
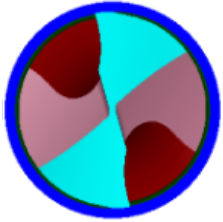
Cutting Speed	Tool Diameter												
	inch	0.118	0.157	0.236	0.315	0.394	0.472	0.630	0.787	1			
	mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0	25.4			
Cast and Low-Strength Ductile Irons				Tensile Strength RM (MPa)*: 150-400			Hardness (HB) or HRC: 120-290						
	Min.	Start	Max	Feed Rate by Diameter									
SFM	190	370	450	ipr	.004-.008	.005-.009	.006-.011	.007-.013	.008-.015	.009-.017	.012-.021	.013-.026	.016-.03
Wrought Aluminum Alloys				Tensile Strength RM (MPa)*: <520									
				Feed Rate by Diameter									
SFM	330	800	1400	ipr	.006-.010	.007-.011	.009-.014	.011-.017	.012-.020	.014-.022	.017-.027	.020-.032	.024-.038
Cast Aluminum				Tensile Strength RM (MPa)*: <350			Hardness (HB) or HRC: 70-100						
				Feed Rate by Diameter									
SFM	300	650	950	ipr	.006-.009	.007-.011	.008-.013	.010-.015	.012-.018	.013-.021	.017-.026	.020-.032	.024-.038
Coper and Copper Alloys				Tensile Strength RM (MPa)*: 200-650			Hardness (HB) or HCR: 60-200						
				Feed Rate by Diameter									
SFM	300	530	800	ipr	.006-.011	.006-.013	.007-.014	.009-.016	.010-.017	.011-.019	.013-.022	.014-.025	.017-.028
Titanium Alloys				Tensile Strength RM (MPa)*: 900-1600			Hardness (HB) or HRC: 300-400						
				Feed Rate by Diameter									
SFM	60	110	150	ipr	.002-.003	.002-.003	.002-.004	.003-.004	.004-.006	.005-.007	.007-.010	.009-.013	.011-.015



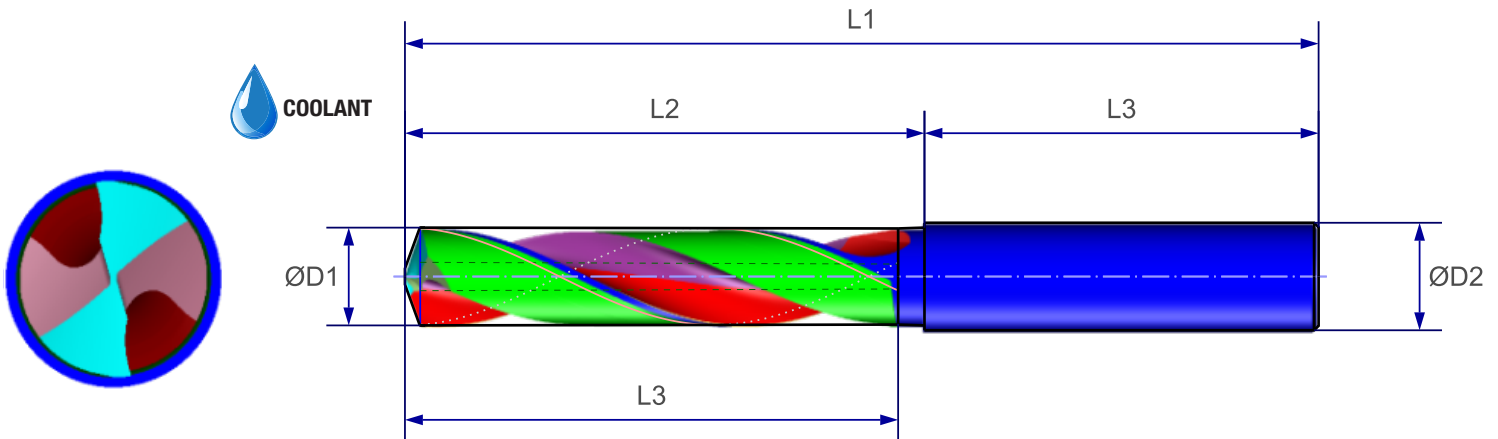
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPS2-0892-3XD	0.089	4-40	6	2.441	0.787	0.653	1.417
IGPS2-1096-3XD	0.110	6-32	6	2.441	0.787	0.623	1.417
IGPS2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IGPS2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IGPS2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IGPS2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IGPS2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IGPS2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IGPS2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IGPS2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IGPS2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IGPS2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IGPS2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IGPS2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IGPS2-2045-3XD	.205	1/4-20	6	2.598	1.102	0.795	1.417
IGPS2-2175-3XD	.218	1/4-28	6	2.598	1.102	0.776	1.417
IGPS2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IGPS2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IGPS2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IGPS2-2620-3XD	.262	5/16-18	8	3.110	1.339	0.946	1.417
IGPS2-2746-3XD	.275	5/16-24	8	3.110	1.339	0.927	1.417
IGPS2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IGPS2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IGPS2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417



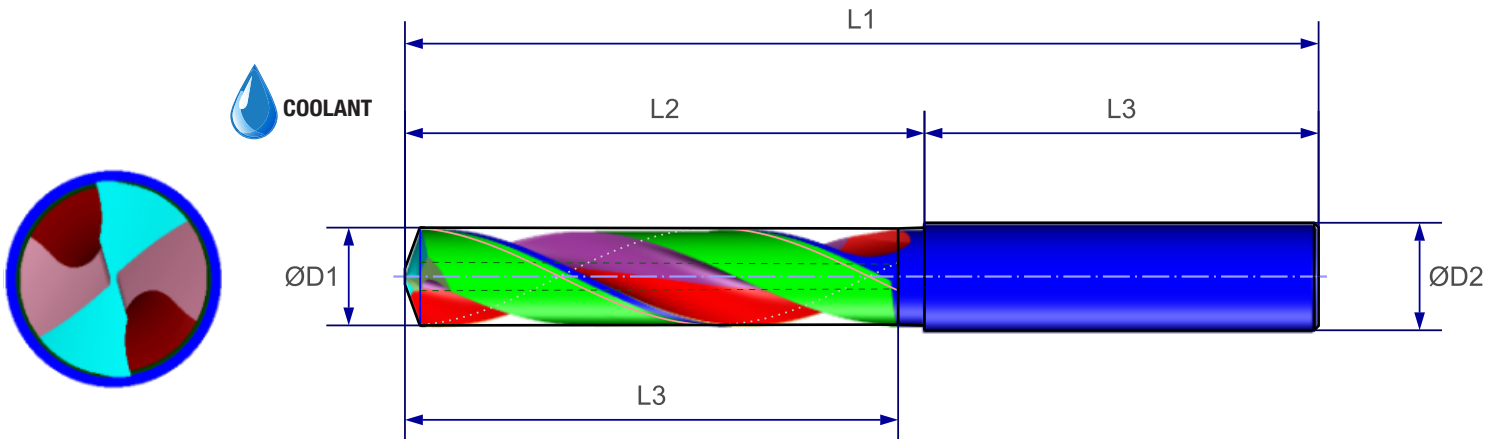
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPS2-2968-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IGPS2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IGPS2-3180-3XD	.318	3/8-16	10	3.504	1.850	1.373	1.575
IGPS2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IGPS2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575
IGPS2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IGPS2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IGPS2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IGPS2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IGPS2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IGPS2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772
IGPS2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IGPS2-4300-3XD	.430	1/2-13	12	4.016	2.165	1.520	1.772
IGPS2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IGPS2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IGPS2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IGPS2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IGPS2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IGPS2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IGPS2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IGPS2-5423-3XD	.542	5/8-11	14	4.213	2.362	1.549	1.772
IGPS2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IGPS2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IGPS2-5745-3XD	.575	5/8-18	16	4.528	2.559	1.697	1.890



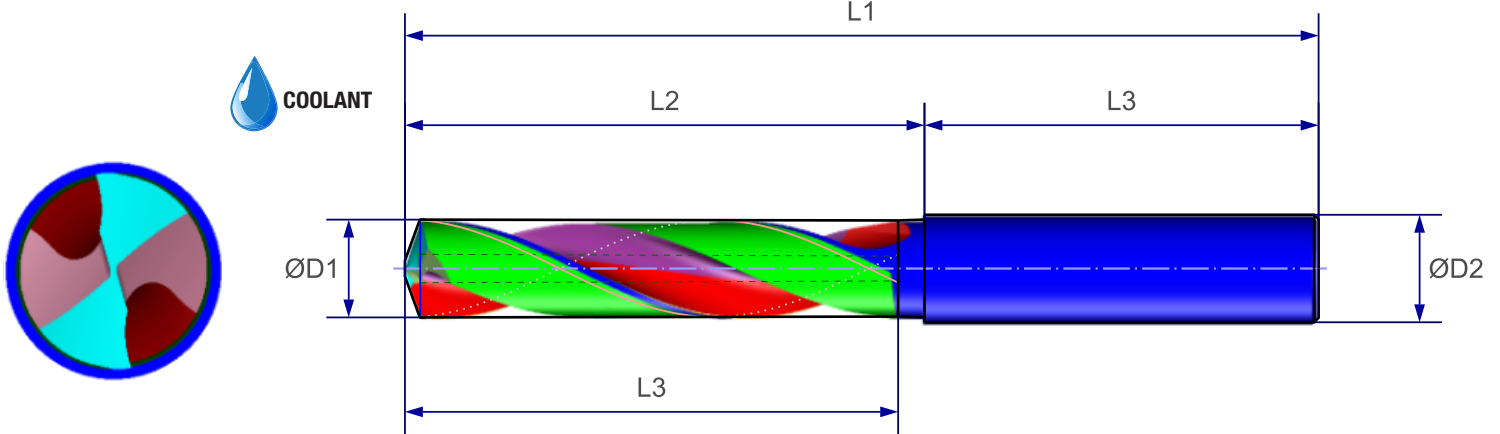
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPS2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IGPS2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890
IGPS2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IGPS2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IGPS2-6591-3XD	.659	3/4-10	18	4.843	2.874	1.885	1.890
IGPS2-6875-3XD	.688	11/16	18	4.843	2.874	1.843	1.890
IGPS2-6931-3XD	.693	3/4-16	18	4.843	2.874	1.834	1.890
IGPS2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



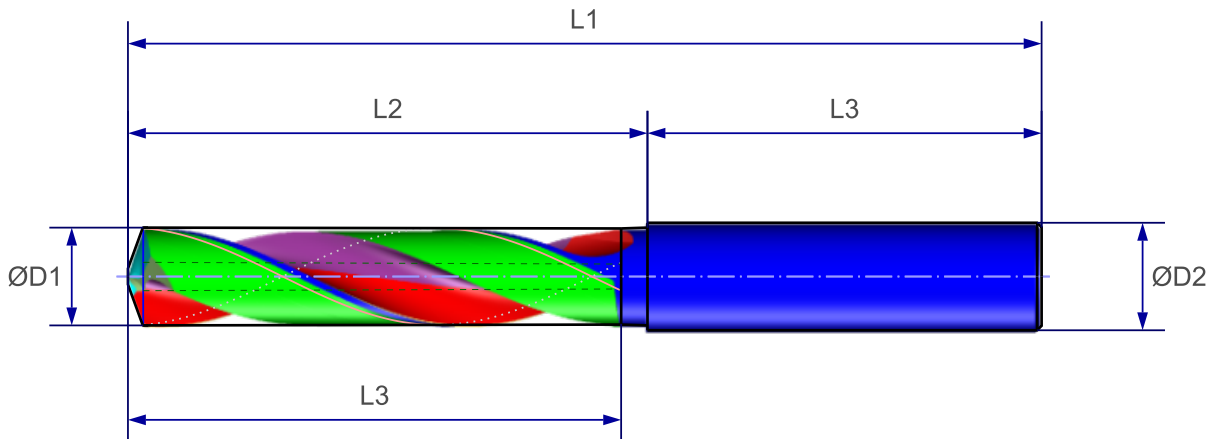
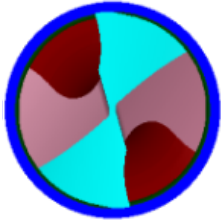
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose C=COOLANT 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IGPC2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IGPC2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IGPC2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
IGPC2-1562-3XD	.156	5/32	6	2.598	0.945	0.711	1.417
IGPC2-1610-3XD	.161	10-32 UNF	6	2.598	0.945	0.704	1.417
IGPC2-1690-3XD	.169	M5	6	2.598	0.945	0.692	1.417
IGPC2-1719-3XD	.172	11/64	6	2.598	0.945	0.687	1.417
IGPC2-1875-3XD	.188	3/16	6	2.598	1.102	0.821	1.417
IGPC2-1890-3XD	.189	12-32 UNF	6	2.598	1.102	0.819	1.417
IGPC2-2010-3XD	.201	M6	6	2.598	1.102	0.801	1.417
IGPC2-2031-3XD	.203	13/64	6	2.598	1.102	0.797	1.417
IGPC2-2045-3XD	.205	1/4-20	6	2.598	1.102	0.795	1.417
IGPC2-2175-3XD	.218	1/4-28	6	2.598	1.102	0.776	1.417
IGPC2-2188-3XD	.219	7/32	6	2.598	1.102	0.774	1.417
IGPC2-2344-3XD	.234	15/64	6	2.598	1.102	0.750	1.417
IGPC2-2500-3XD	.250	1/4	8	3.110	1.339	0.964	1.417
IGPC2-2620-3XD	.262	5/16-18	8	3.110	1.339	0.946	1.417
IGPC2-2746-3XD	.275	5/16-24	8	3.110	1.339	0.927	1.417
IGPC2-2656-3XD	.266	17/64	8	3.110	1.339	0.941	1.417
IGPC2-2800-3XD	.280	MF8x1	8	3.110	1.614	1.194	1.417
IGPC2-2813-3XD	.281	9/32	8	3.110	1.614	1.192	1.417
IGPC2-2969-3XD	.297	19/64	8	3.110	1.614	1.169	1.417
IGPC2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417



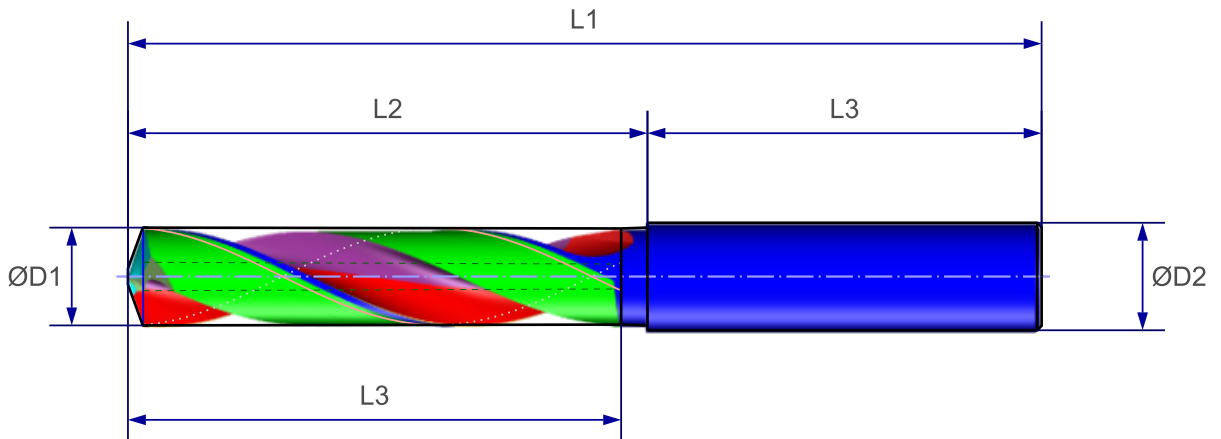
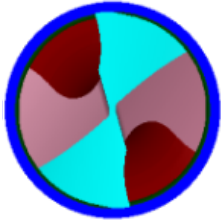
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose C=COOLANT 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-3180-3XD	.318	3/8-16	10	3.504	1.850	1.373	1.575
IGPC2-3281-3XD	.328	21/64	10	3.504	1.850	1.358	1.575
IGPC2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575
IGPC2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IGPC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IGPC2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IGPC2-3750-3XD	.375	3/8	10	3.504	1.850	1.288	1.575
IGPC2-3906-3XD	.391	25/64	10	3.504	1.850	1.264	1.575
IGPC2-3940-3XD	.394	7/16-20 UNF	12	4.016	2.165	1.574	1.772
IGPC2-4063-3XD	.406	13/32	12	4.016	2.165	1.556	1.772
IGPC2-4300-3XD	.430	1/2-13	12	4.016	2.165	1.520	1.772
IGPC2-4210-3XD	.421	MF12x1.5	12	4.016	2.165	1.534	1.772
IGPC2-4375-3XD	.438	7/16	12	4.016	2.165	1.509	1.772
IGPC2-4531-3XD	.453	29/64	12	4.016	2.165	1.485	1.772
IGPC2-4570-3XD	.457	1/2-20 UNF	12	4.016	2.165	1.480	1.772
IGPC2-4690-3XD	.469	15/32	12	4.016	2.165	1.462	1.772
IGPC2-4844-3XD	.484	31/64	14	4.213	2.362	1.635	1.772
IGPC2-5000-3XD	.500	1/2	14	4.213	2.362	1.612	1.772
IGPC2-5423-3XD	.542	5/8-11	14	4.213	2.362	1.549	1.772
IGPC2-5469-3XD	.547	35/64	14	4.213	2.362	1.542	1.772
IGPC2-5625-3XD	.563	9/16	16	4.528	2.559	1.715	1.890
IGPC2-5745-3XD	.575	5/8-18	16	4.528	2.559	1.697	1.890
IGPC2-5781-3XD	.578	37/64	16	4.528	2.559	1.692	1.890
IGPC2-5938-3XD	.594	19/32	16	4.528	2.559	1.668	1.890



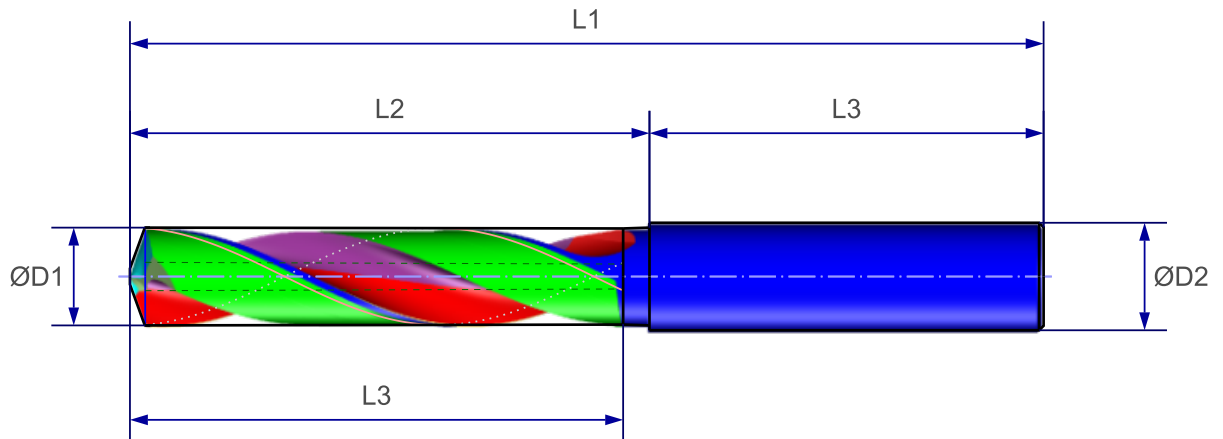
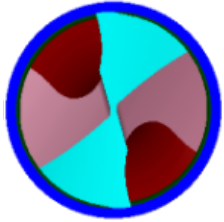
DESCRIPTION EXAMPLE... I=INCH, GP= General Purpose C=COOLANT 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IGPC2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
IGPC2-6591-3XD	.659	3/4-10	18	4.843	2.874	1.885	1.890
IGPC2-6875-3XD	.688	11/16	18	4.843	2.874	1.843	1.890
IGPC2-6931-3XD	.693	3/4-16	18	4.843	2.874	1.834	1.890
IGPC2-7500-3XD	.750	3/4	20	5.157	3.110	1.985	1.969



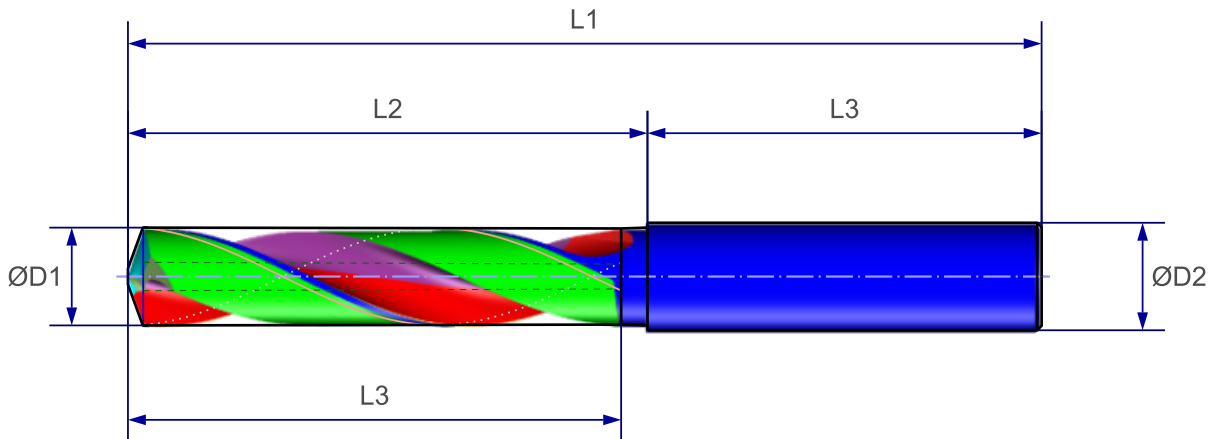
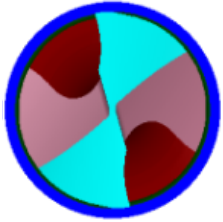
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-0255-3XD	2.55	M3	6	62	20	16	36
MGPS2-0300-3XD	3.00		6	62	20	15	36
MGPS2-0310-3XD	3.10		6	62	20	15	36
MGPS2-0320-3XD	3.20		6	62	20	15	36
MGPS2-0330-3XD	3.30		6	62	20	15	36
MGPS2-0337-3XD	3.37	M4	6	62	20	14	36
MGPS2-0340-3XD	3.40		6	62	20	14	36
MGPS2-0350-3XD	3.50		6	62	20	14	36
MGPS2-0360-3XD	3.60		6	62	20	14	36
MGPS2-0370-3XD	3.70		6	62	20	14	36
MGPS2-0380-3XD	3.80		6	66	24	18	36
MGPS2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MGPS2-0400-3XD	4.00		6	66	24	18	36
MGPS2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MGPS2-0420-3XD	4.20		6	66	24	17	36
MGPS2-0430-3XD	4.30	MMC5	6	66	24	17	36
MGPS2-0440-3XD	4.40		6	66	24	17	36
MGPS2-0450-3XD	4.50		6	66	24	17	36
MGPS2-0470-3XD	4.70		6	66	24	16	36
MGPS2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MGPS2-0490-3XD	4.90		6	66	28	20	36
MGPS2-0500-3XD	5.00		6	66	28	20	36
MGPS2-0510-3XD	5.10	MMC6	6	66	28	20	36
MGPS2-0520-3XD	5.20		6	66	28	20	36



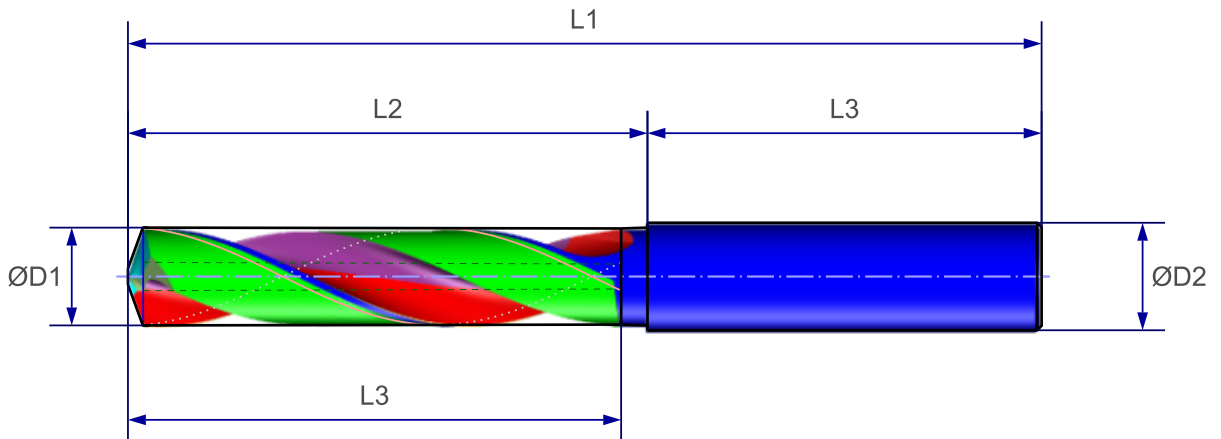
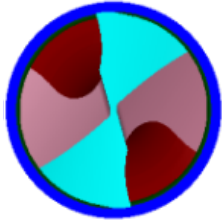
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-0530-3XD	5.30		6	66	28	20	36
MGPS2-0540-3XD	5.40		6	66	28	19	36
MGPS2-0550-3XD	5.50		6	66	28	19	36
MGPS2-0560-3XD	5.60		6	66	28	19	36
MGPS2-0570-3XD	5.70		6	66	28	19	36
MGPS2-0580-3XD	5.80		6	66	28	19	36
MGPS2-0590-3XD	5.90		6	66	28	19	36
MGPS2-0600-3XD	6.00		8	79	34	25	36
MGPS2-0610-3XD	6.10		8	79	34	24	36
MGPS2-0620-3XD	6.20		8	79	34	24	36
MGPS2-0630-3XD	6.30		8	79	34	24	36
MGPS2-0640-3XD	6.40		8	79	34	24	36
MGPS2-0650-3XD	6.50		8	79	34	24	36
MGPS2-0660-3XD	6.60		8	79	34	24	36
MGPS2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MGPS2-0675-3XD	6.75		8	79	34	23	36
MGPS2-0680-3XD	6.80		8	79	34	23	36
MGPS2-0690-3XD	6.90		8	79	34	23	36
MGPS2-0700-3XD	7.00		8	79	34	23	36
MGPS2-0710-3XD	7.10	MMCF8x1	8	79	41	30	36
MGPS2-0720-3XD	7.20		8	79	41	30	36
MGPS2-0730-3XD	7.30		8	79	41	30	36
MGPS2-0740-3XD	7.40		8	79	41	29	36
MGPS2-0750-3XD	7.50		8	79	41	29	36



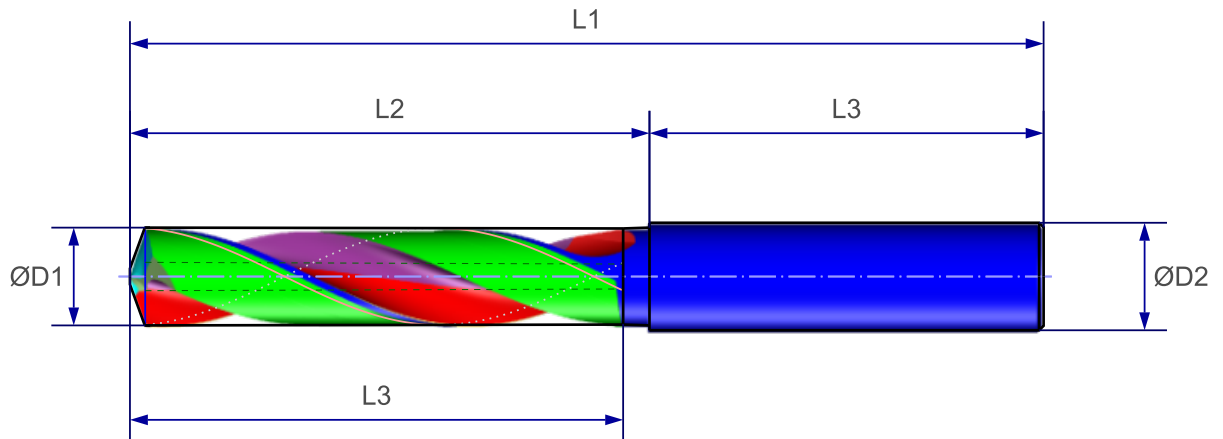
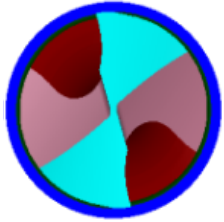
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-0760-3XD	7.60		8	79	41	29	36
MGPS2-0770-3XD	7.70		8	79	41	29	36
MGPS2-0780-3XD	7.80		8	79	41	29	36
MGPS2-0790-3XD	7.90		8	79	41	29	36
MGPS2-0800-3XD	8.00		10	89	47	35	40
MGPS2-0810-3XD	8.10		10	89	47	34	40
MGPS2-0820-3XD	8.20		10	89	47	34	40
MGPS2-0830-3XD	8.30		10	89	47	34	40
MGPS2-0840-3XD	8.40		10	89	47	34	40
MGPS2-0850-3XD	8.50		10	89	47	34	40
MGPS2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MGPS2-0870-3XD	8.70		10	89	47	33	40
MGPS2-0880-3XD	8.80		10	89	47	33	40
MGPS2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MGPS2-0900-3XD	9.00		10	89	47	33	40
MGPS2-0910-3XD	9.10		10	89	47	33	40
MGPS2-0920-3XD	9.20		10	89	47	33	40
MGPS2-0930-3XD	9.30		10	89	47	33	40
MGPS2-0940-3XD	9.40		10	89	47	32	40
MGPS2-0950-3XD	9.50		10	89	47	32	40
MGPS2-0960-3XD	9.60		10	89	47	32	40
MGPS2-0970-3XD	9.70		10	89	47	32	40
MGPS2-0980-3XD	9.80		10	89	47	32	40
MGPS2-0990-3XD	9.90		10	89	47	32	40



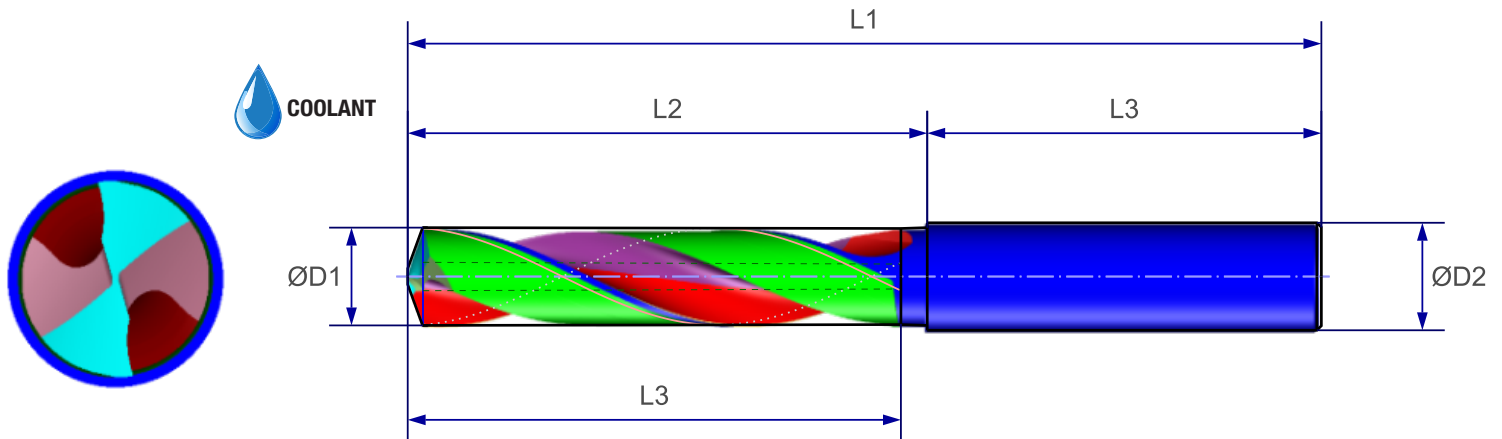
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45
MGPS2-1010-3XD	10.10		12	102	55	39	45
MGPS2-1020-3XD	10.20		12	102	55	39	45
MGPS2-1030-3XD	10.30		12	102	55	39	45
MGPS2-1040-3XD	10.40	M12 X 1.75	12	102	55	39	45
MGPS2-1050-3XD	10.50		12	102	55	39	45
MGPS2-1060-3XD	10.60		12	102	55	39	45
MGPS2-1070-3XD	10.70	MMCF12x1.5	12	102	55	38	45
MGPS2-1080-3XD	10.80		12	102	55	38	45
MGPS2-1085-3XD	10.85	M12 X 1.25	12	102	55	38	45
MGPS2-1090-3XD	10.90		12	102	55	38	45
MGPS2-1100-3XD	11.00		12	102	55	38	45
MGPS2-1110-3XD	11.10		12	102	55	38	45
MGPS2-1120-3XD	11.20		12	102	55	38	45
MGPS2-1140-3XD	11.40		12	102	55	37	45
MGPS2-1150-3XD	11.50		12	102	55	37	45
MGPS2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MGPS2-1170-3XD	11.70		12	102	55	37	45
MGPS2-1180-3XD	11.80		12	102	55	37	45
MGPS2-1190-3XD	11.90		12	102	55	37	45
MGPS2-1200-3XD	12.00		14	107	60	42	45
MGPS2-1210-3XD	12.10		14	107	60	41	45
MGPS2-1220-3XD	12.20	M14 X 2.0	14	107	60	41	45
MGPS2-1230-3XD	12.30		14	107	60	41	45



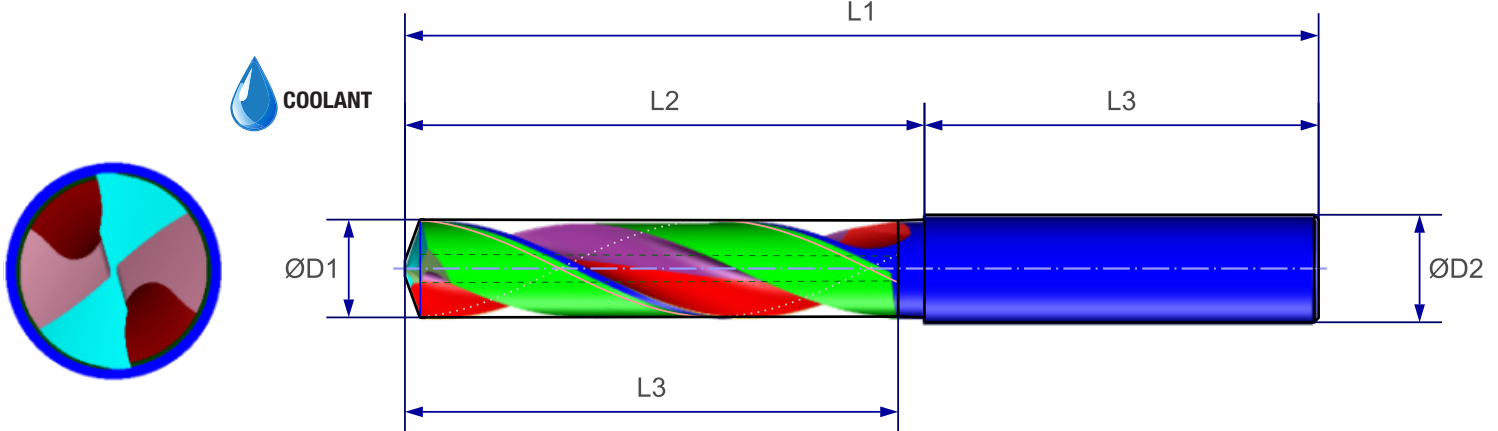
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-1250-3XD	12.50		14	107	60	41	45
MGPS2-1260-3XD	12.60	M14 X 1.5	14	107	60	41	45
MGPS2-1270-3XD	12.70		14	107	60	40	45
MGPS2-1280-3XD	12.80		14	107	60	40	45
MGPS2-1290-3XD	12.90		14	107	60	40	45
MGPS2-1300-3XD	13.00		14	107	60	40	45
MGPS2-1310-3XD	13.10		14	107	60	40	45
MGPS2-1320-3XD	13.20		14	107	60	40	45
MGPS2-1330-3XD	13.30		14	107	60	40	45
MGPS2-1350-3XD	13.50		14	107	60	39	45
MGPS2-1380-3XD	13.80		14	107	60	39	45
MGPS2-1400-3XD	14.00		16	115	65	44	48
MGPS2-1410-3XD	14.10		16	115	65	43	48
MGPS2-1420-3XD	14.20	M16 X 2.0	16	115	65	43	48
MGPS2-1430-3XD	14.30		16	115	65	43	48
MGPS2-1440-3XD	14.40		16	115	65	43	48
MGPS2-1450-3XD	14.50		16	115	65	43	48
MGPS2-1460-3XD	14.60	M16 X 1.5	16	115	65	43	48
MGPS2-1480-3XD	14.80		16	115	65	42	48
MGPS2-1500-3XD	15.00		16	115	65	42	48
MGPS2-1510-3XD	15.10		16	115	65	42	48
MGPS2-1520-3XD	15.20		16	115	65	42	48
MGPS2-1530-3XD	15.30		16	115	65	42	48
MGPS2-1540-3XD	15.40		16	115	65	41	48



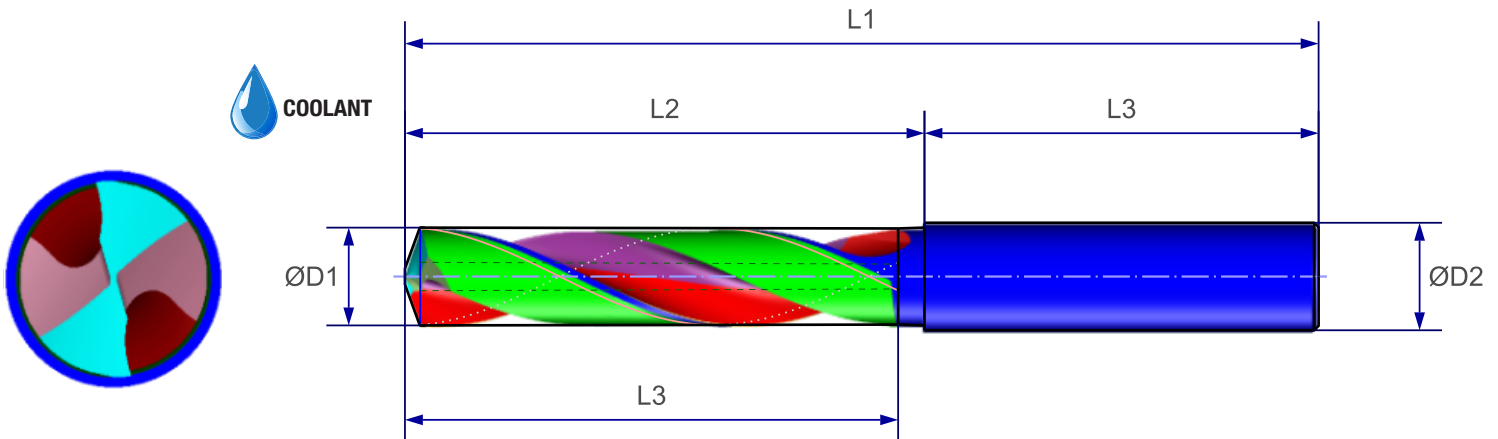
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPS2-1550-3XD	15.50		16	115	65	41	48
MGPS2-1560-3XD	15.60		16	115	65	41	48
MGPS2-1570-3XD	15.70		16	115	65	41	48
MGPS2-1575-3XD	15.75		16	115	65	41	48
MGPS2-1580-3XD	15.80		16	115	65	41	48
MGPS2-1590-3XD	15.90		16	115	65	41	48
MGPS2-1600-3XD	16.00		18	123	73	49	48
MGPS2-1610-3XD	16.10		18	123	73	48	48
MGPS2-1650-3XD	16.50		18	123	73	48	48
MGPS2-1660-3XD	16.60		18	123	73	48	48
MGPS2-1700-3XD	17.00		18	123	73	47	48
MGPS2-1750-3XD	17.50		18	123	73	46	48
MGPS2-1775-3XD	17.75	M20 X 2.5	18	123	73	46	48
MGPS2-1800-3XD	18.00		20	131	73	46	50
MGPS2-1840-3XD	18.40		20	131	79	51	50
MGPS2-1850-3XD	18.50		20	131	79	51	50
MGPS2-1860-3XD	18.60	M20 X 1.5	20	131	79	51	50
MGPS2-1900-3XD	19.00		20	131	79	50	50
MGPS2-1910-3XD	19.10		20	131	79	50	50
MGPS2-1920-3XD	19.20		20	131	79	50	50
MGPS2-1930-3XD	19.30		20	131	79	50	50
MGPS2-1950-3XD	19.50		20	131	79	49	50
MGPS2-2000-3XD	20.00		20	131	79	49	50



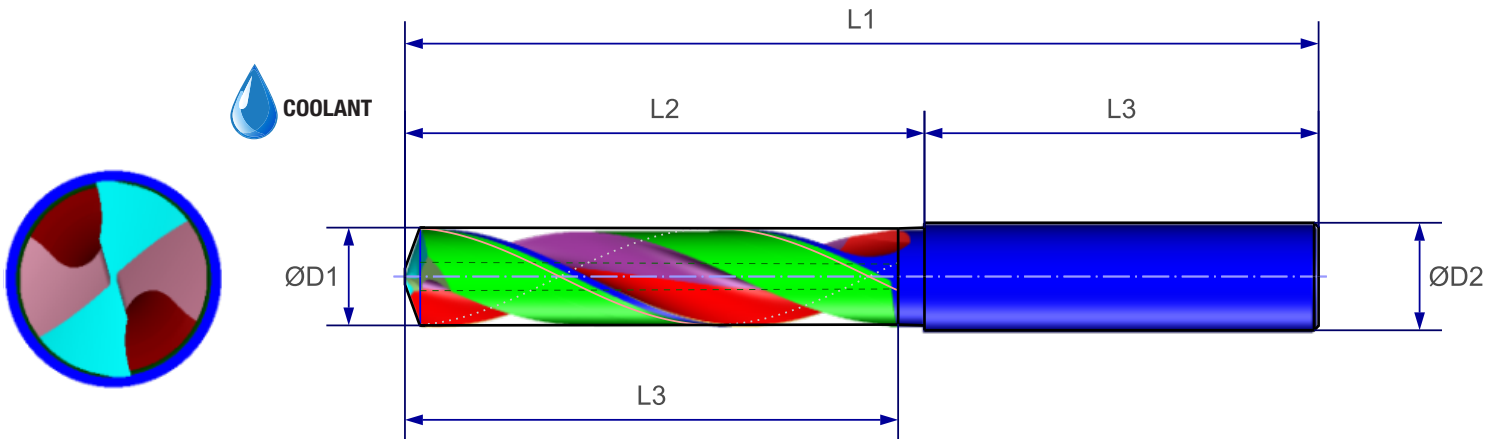
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0300-3XD	3.00		6	62	20	15	36
MGPC2-0310-3XD	3.10		6	62	20	15	36
MGPC2-0320-3XD	3.20		6	62	20	15	36
MGPC2-0330-3XD	3.30		6	62	20	15	36
MGPC2-0337-3XD	3.37	M4	6	62	20	14	36
MGPC2-0340-3XD	3.40		6	62	20	14	36
MGPC2-0350-3XD	3.50		6	62	20	14	36
MGPC2-0360-3XD	3.60		6	62	20	14	36
MGPC2-0370-3XD	3.70		6	62	20	14	36
MGPC2-0380-3XD	3.80		6	66	24	18	36
MGPC2-0390-3XD	3.90	10-24 UNC	6	66	24	18	36
MGPC2-0400-3XD	4.00		6	66	24	18	36
MGPC2-0410-3XD	4.10	10-32 UNF	6	66	24	17	36
MGPC2-0420-3XD	4.20		6	66	24	17	36
MGPC2-0430-3XD	4.30	MMC5	6	66	24	17	36
MGPC2-0440-3XD	4.40		6	66	24	17	36
MGPC2-0450-3XD	4.50		6	66	24	17	36
MGPC2-0470-3XD	4.70		6	66	24	16	36
MGPC2-0480-3XD	4.80	12-32 UNF	6	66	28	20	36
MGPC2-0490-3XD	4.90		6	66	28	20	36
MGPC2-0500-3XD	5.00		6	66	28	20	36
MGPC2-0510-3XD	5.10	MMC6	6	66	28	20	36
MGPC2-0520-3XD	5.20		6	66	28	20	36
MGPC2-0530-3XD	5.30		6	66	28	20	36



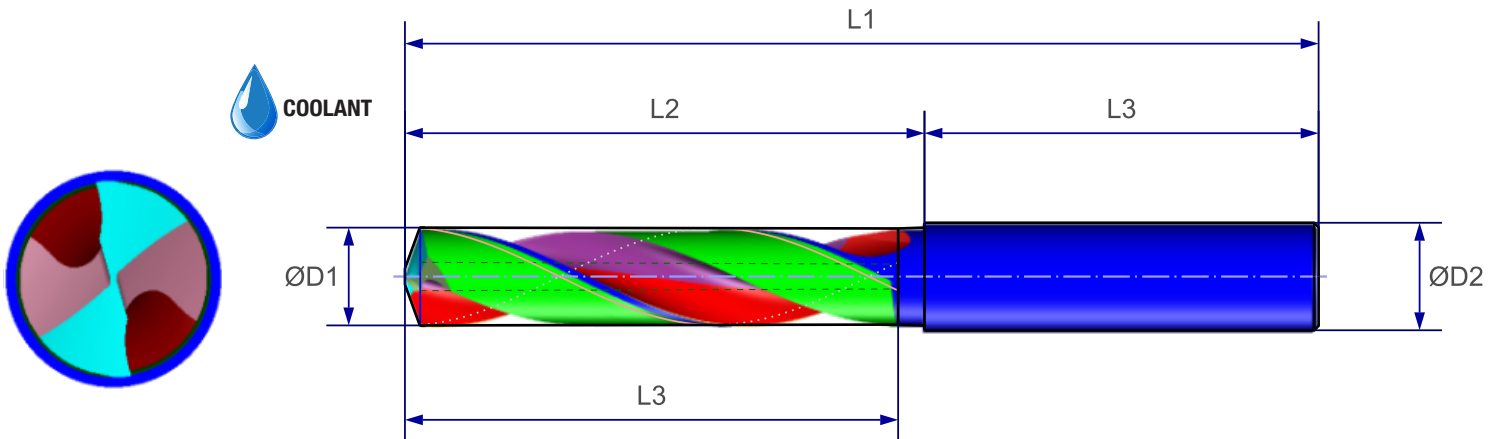
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0540-3XD	5.40		6	66	28	19	36
MGPC2-0550-3XD	5.50		6	66	28	19	36
MGPC2-0560-3XD	5.60		6	66	28	19	36
MGPC2-0570-3XD	5.70		6	66	28	19	36
MGPC2-0580-3XD	5.80		6	66	28	19	36
MGPC2-0590-3XD	5.90		6	66	28	19	36
MGPC2-0600-3XD	6.00		8	79	34	25	36
MGPC2-0610-3XD	6.10		8	79	34	24	36
MGPC2-0620-3XD	6.20		8	79	34	24	36
MGPC2-0630-3XD	6.30		8	79	34	24	36
MGPC2-0640-3XD	6.40		8	79	34	24	36
MGPC2-0650-3XD	6.50		8	79	34	24	36
MGPC2-0660-3XD	6.60		8	79	34	24	36
MGPC2-0670-3XD	6.70	5/18-18UNF	8	79	34	23	36
MGPC2-0675-3XD	6.75		8	79	34	23	36
MGPC2-0680-3XD	6.80		8	79	34	23	36
MGPC2-0690-3XD	6.90		8	79	34	23	36
MGPC2-0700-3XD	7.00		8	79	34	23	36
MGPC2-0710-3XD	7.10	MMCF8x1	8	79	41	30	36
MGPC2-0720-3XD	7.20		8	79	41	30	36
MGPC2-0730-3XD	7.30		8	79	41	30	36
MGPC2-0740-3XD	7.40		8	79	41	29	36
MGPC2-0750-3XD	7.50		8	79	41	29	36
MGPC2-0760-3XD	7.60		8	79	41	29	36



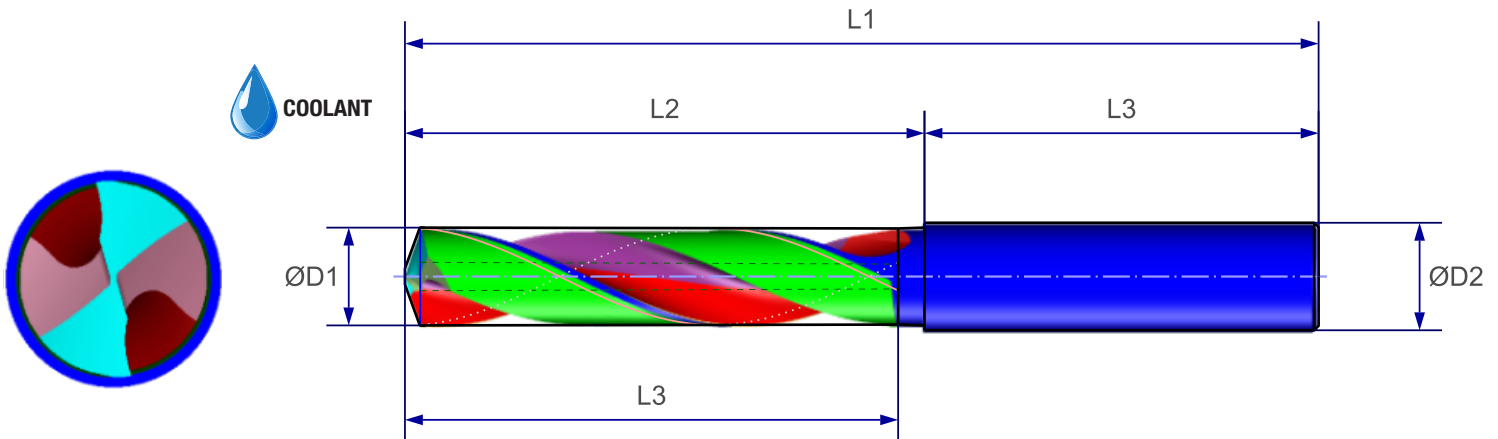
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0770-3XD	7.70		8	79	41	29	36
MGPC2-0780-3XD	7.80		8	79	41	29	36
MGPC2-0790-3XD	7.90		8	79	41	29	36
MGPC2-0800-3XD	8.00		10	89	47	35	40
MGPC2-0810-3XD	8.10		10	89	47	34	40
MGPC2-0820-3XD	8.20		10	89	47	34	40
MGPC2-0830-3XD	8.30		10	89	47	34	40
MGPC2-0840-3XD	8.40		10	89	47	34	40
MGPC2-0850-3XD	8.50		10	89	47	34	40
MGPC2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MGPC2-0870-3XD	8.70		10	89	47	33	40
MGPC2-0880-3XD	8.80		10	89	47	33	40
MGPC2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MGPC2-0900-3XD	9.00		10	89	47	33	40
MGPC2-0910-3XD	9.10		10	89	47	33	40
MGPC2-0920-3XD	9.20		10	89	47	33	40
MGPC2-0930-3XD	9.30		10	89	47	33	40
MGPC2-0940-3XD	9.40		10	89	47	32	40
MGPC2-0950-3XD	9.50		10	89	47	32	40
MGPC2-0960-3XD	9.60		10	89	47	32	40
MGPC2-0970-3XD	9.70		10	89	47	32	40
MGPC2-0980-3XD	9.80		10	89	47	32	40
MGPC2-0990-3XD	9.90		10	89	47	32	40
MGPC2-1000-3XD	10.00	7/16-20 UNF	12	102	55	40	45



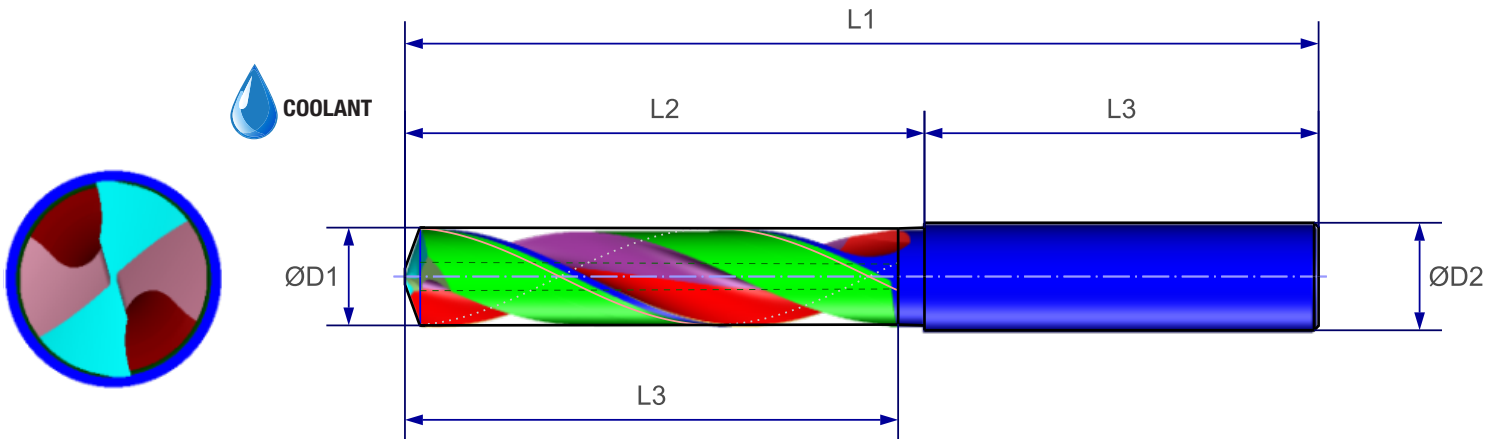
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1010-3XD	10.10		12	102	55	39	45
MGPC2-1020-3XD	10.20		12	102	55	39	45
MGPC2-1030-3XD	10.30		12	102	55	39	45
MGPC2-1040-3XD	10.40	M12 X 1.75	12	102	55	39	45
MGPC2-1050-3XD	10.50		12	102	55	39	45
MGPC2-1060-3XD	10.60		12	102	55	39	45
MGPC2-1070-3XD	10.70	MMCF12x1.5	12	102	55	38	45
MGPC2-1080-3XD	10.80		12	102	55	38	45
MGPC2-1085-3XD	10.85	M12 X 1.25	12	102	55	38	45
MGPC2-1090-3XD	10.90		12	102	55	38	45
MGPC2-1100-3XD	11.00		12	102	55	38	45
MGPC2-1110-3XD	11.10		12	102	55	38	45
MGPC2-1120-3XD	11.20		12	102	55	38	45
MGPC2-1140-3XD	11.40		12	102	55	37	45
MGPC2-1150-3XD	11.50		12	102	55	37	45
MGPC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45
MGPC2-1170-3XD	11.70		12	102	55	37	45
MGPC2-1180-3XD	11.80		12	102	55	37	45
MGPC2-1190-3XD	11.90		12	102	55	37	45
MGPC2-1200-3XD	12.00		14	107	60	42	45
MGPC2-1210-3XD	12.10		14	107	60	41	45
MGPC2-1220-3XD	12.20	M14 X 2.0	14	107	60	41	45
MGPC2-1230-3XD	12.30		14	107	60	41	45
MGPC2-1250-3XD	12.50		14	107	60	41	45



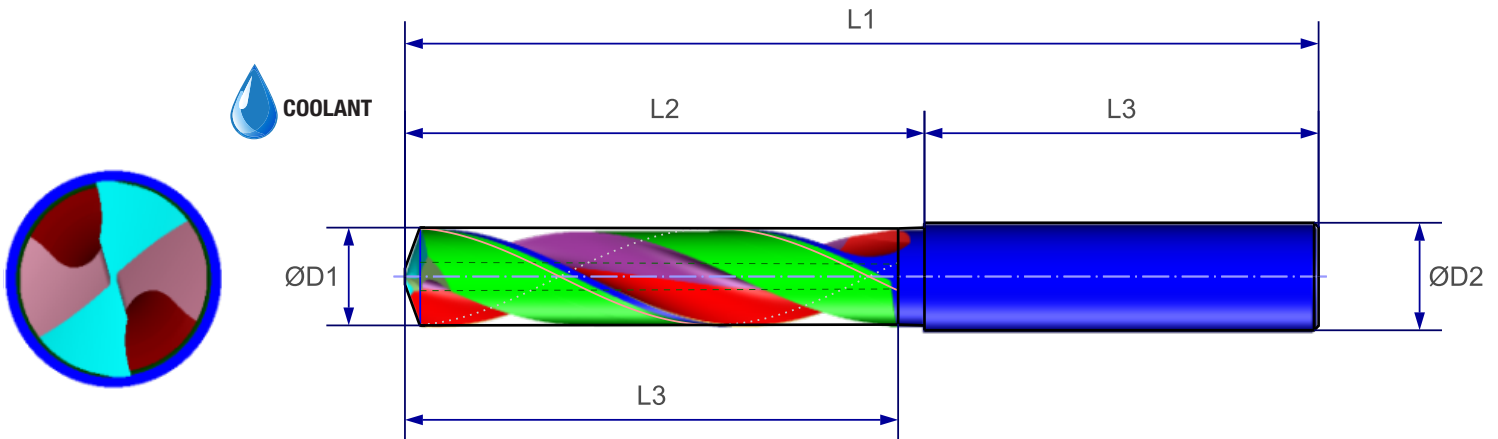
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1260-3XD	12.60	M14 X 1.5	14	107	60	41	45
MGPC2-1270-3XD	12.70		14	107	60	40	45
MGPC2-1280-3XD	12.80		14	107	60	40	45
MGPC2-1290-3XD	12.90		14	107	60	40	45
MGPC2-1300-3XD	13.00		14	107	60	40	45
MGPC2-1310-3XD	13.10		14	107	60	40	45
MGPC2-1320-3XD	13.20		14	107	60	40	45
MGPC2-1330-3XD	13.30		14	107	60	40	45
MGPC2-1350-3XD	13.50		14	107	60	39	45
MGPC2-1380-3XD	13.80		14	107	60	39	45
MGPC2-1400-3XD	14.00		16	115	65	44	48
MGPC2-1410-3XD	14.10		16	115	65	43	48
MGPC2-1420-3XD	14.20	M16 X 2.0	16	115	65	43	48
MGPC2-1430-3XD	14.30		16	115	65	43	48
MGPC2-1440-3XD	14.40		16	115	65	43	48
MGPC2-1450-3XD	14.50		16	115	65	43	48
MGPC2-1460-3XD	14.60	M16 X 1.5	16	115	65	43	48
MGPC2-1480-3XD	14.80		16	115	65	42	48
MGPC2-1500-3XD	15.00		16	115	65	42	48
MGPC2-1510-3XD	15.10		16	115	65	42	48
MGPC2-1520-3XD	15.20		16	115	65	42	48
MGPC2-1530-3XD	15.30		16	115	65	42	48
MGPC2-1540-3XD	15.40		16	115	65	41	48
MGPC2-1550-3XD	15.50		16	115	65	41	48



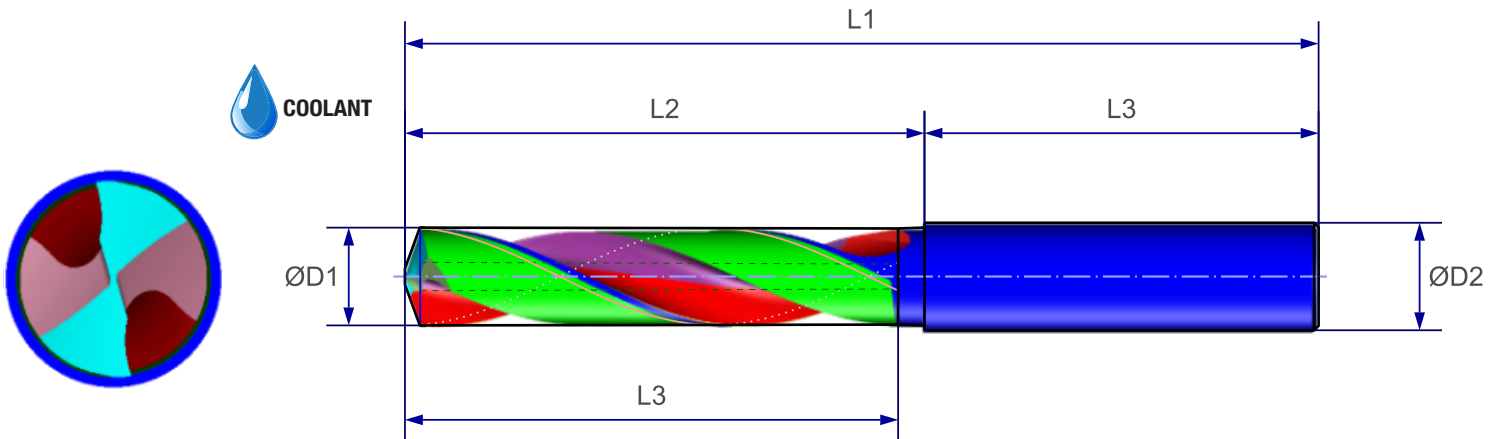
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1560-3XD	15.60		16	115	65	41	48
MGPC2-1570-3XD	15.70		16	115	65	41	48
MGPC2-1575-3XD	15.75		16	115	65	41	48
MGPC2-1580-3XD	15.80		16	115	65	41	48
MGPC2-1590-3XD	15.90		16	115	65	41	48
MGPC2-1600-3XD	16.00		18	123	73	49	48
MGPC2-1610-3XD	16.10		18	123	73	48	48
MGPC2-1650-3XD	16.50		18	123	73	48	48
MGPC2-1660-3XD	16.60		18	123	73	48	48
MGPC2-1700-3XD	17.00		18	123	73	47	48
MGPC2-1750-3XD	17.50		18	123	73	46	48
MGPC2-1775-3XD	17.75	M20 X 2.5	18	123	73	46	48
MGPC2-1800-3XD	18.00		20	131	79	52	50
MGPC2-1840-3XD	18.40		20	131	79	51	50
MGPC2-1850-3XD	18.50		20	131	79	51	50
MGPC2-1860-3XD	18.60	M20 X 1.5	20	131	79	51	50
MGPC2-1900-3XD	19.00		20	131	79	50	50
MGPC2-1910-3XD	19.10		20	131	79	50	50
MGPC2-1920-3XD	19.20		20	131	79	50	50
MGPC2-1930-3XD	19.30		20	131	79	50	50
MGPC2-1950-3XD	19.50		20	131	79	49	50
MGPC2-2000-3XD	20.00		20	131	79	49	50



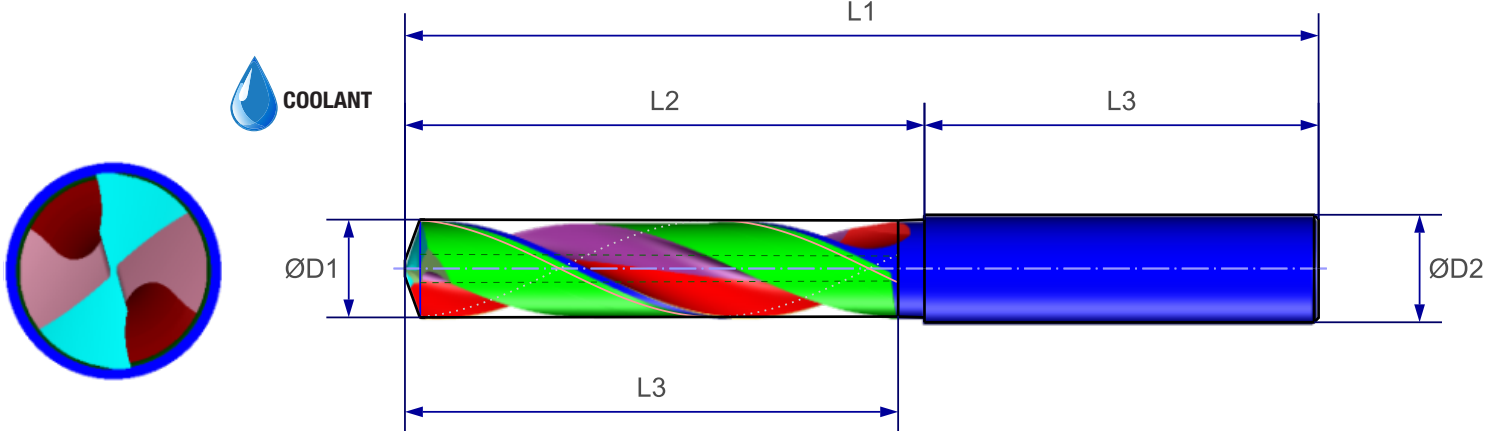
DESCRIPTION EXAMPLE... I=INCH GP= General Purpose C=Coolant 2=FLUTES 125=DIA 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-1250-5XD	.125	1/8	6	2.598	1.102	0.915	1.417
IGPC2-1406-5XD	.141	9/64	6	2.598	1.102	0.891	1.417
IGPC2-1540-5XD	.154	10-24 UNC	6	2.913	1.417	1.186	1.417
IGPC2-1562-5XD	.156	5/32	6	2.913	1.417	1.183	1.417
IGPC2-1610-5XD	.161	10-32 UNF	6	2.913	1.417	1.176	1.417
IGPC2-1690-5XD	.169	M5	6	2.913	1.417	1.164	1.417
IGPC2-1719-5XD	.172	11/64	6	2.913	1.417	1.159	1.417
IGPC2-1875-5XD	.188	3/16	6	3.228	1.732	1.451	1.417
IGPC2-1890-5XD	.189	12-32 UNF	6	3.228	1.732	1.449	1.417
IGPC2-2010-5XD	.201	M6	6	3.228	1.732	1.431	1.417
IGPC2-2031-5XD	.203	13/64	6	3.228	1.732	1.427	1.417
IGPC2-2188-5XD	.219	7/32	6	3.228	1.732	1.404	1.417
IGPC2-2344-5XD	.234	15/64	6	3.228	1.732	1.380	1.417
IGPC2-2500-5XD	.250	1/4	8	3.583	2.087	1.712	1.417
IGPC2-2620-5XD	.262	5/18-18UNF	8	3.583	2.087	1.694	1.417
IGPC2-2656-5XD	.266	17/64	8	3.583	2.087	1.689	1.417
IGPC2-2800-5XD	.280	MF8x1	8	3.583	2.087	1.667	1.417
IGPC2-2813-5XD	.281	9/32	8	3.583	2.087	1.665	1.417
IGPC2-2968-5XD	.297	19/64	8	3.583	2.087	1.642	1.417
IGPC2-3125-5XD	.313	5/16	8	3.583	2.087	1.618	1.417
IGPC2-3281-5XD	.328	21/64	10	4.055	2.402	1.910	1.575
IGPC2-3438-5XD	.344	11/32	10	4.055	2.402	1.886	1.575
IGPC2-3594-5XD	.359	23/64	10	4.055	2.402	1.863	1.575
IGPC2-3750-5XD	.375	3/8	10	4.055	2.402	1.840	1.575



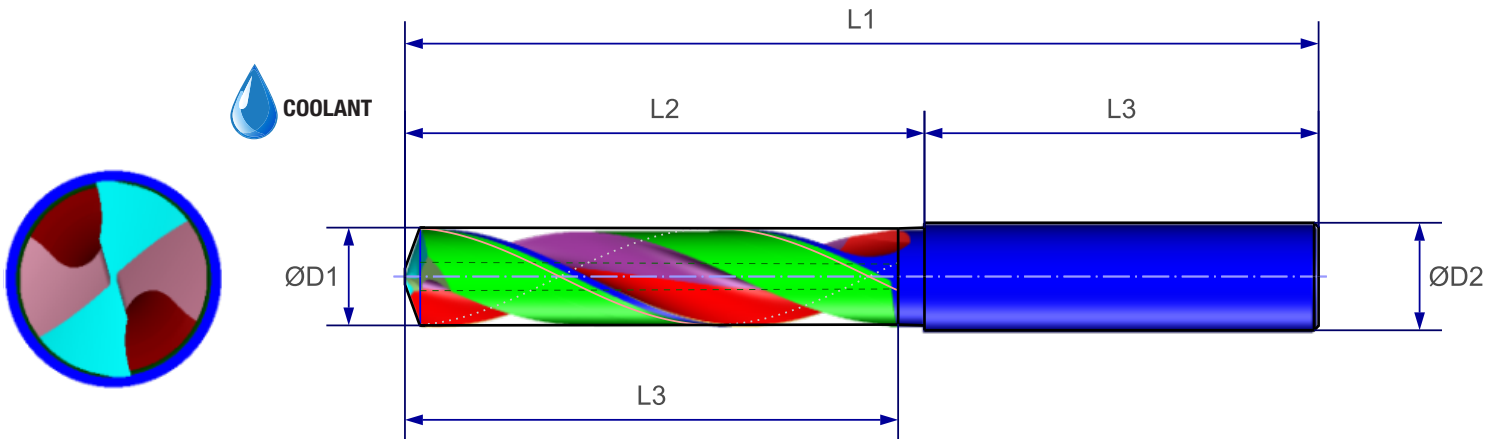
DESCRIPTION EXAMPLE... I=INCH GP= General Purpose C=Coolant 2=FLUTES 125=DIA 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-3906-5XD	.391	25/64	10	4.055	2.402	1.816	1.575
IGPC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.204	1.772
IGPC2-4063-5XD	.406	13/32	12	4.646	2.795	2.186	1.772
IGPC2-4210-5XD	.421	MF12x1.5	12	4.646	2.795	2.164	1.772
IGPC2-4375-5XD	.438	7/16	12	4.646	2.795	2.139	1.772
IGPC2-4531-5XD	.453	29/64	12	4.646	2.795	2.115	1.772
IGPC2-4570-5XD	.457	1/2-20 UNF	12	4.646	2.795	2.110	1.772
IGPC2-4690-5XD	.469	15/32	12	4.646	2.795	2.092	1.772
IGPC2-4844-5XD	.484	31/64	14	4.882	3.031	2.304	1.772
IGPC2-5000-5XD	.500	1/2	14	4.882	3.031	2.281	1.772
IGPC2-5469-5XD	.547	35/64	14	4.882	3.031	2.211	1.772
IGPC2-5625-5XD	.563	9/16	16	5.236	3.268	2.424	1.890
IGPC2-5781-5XD	.578	37/64	16	5.236	3.268	2.401	1.890
IGPC2-5938-5XD	.594	19/32	16	5.236	3.268	2.377	1.890
IGPC2-6094-5XD	.609	39/64	16	5.236	3.268	2.354	1.890
IGPC2-6250-5XD	.625	5/8	16	5.236	3.268	2.331	1.890
IGPC2-6875-5XD	.688	11/16	18	5.630	3.661	2.630	1.890
IGPC2-7500-5XD	.750	3/4	20	6.024	3.976	2.851	1.969



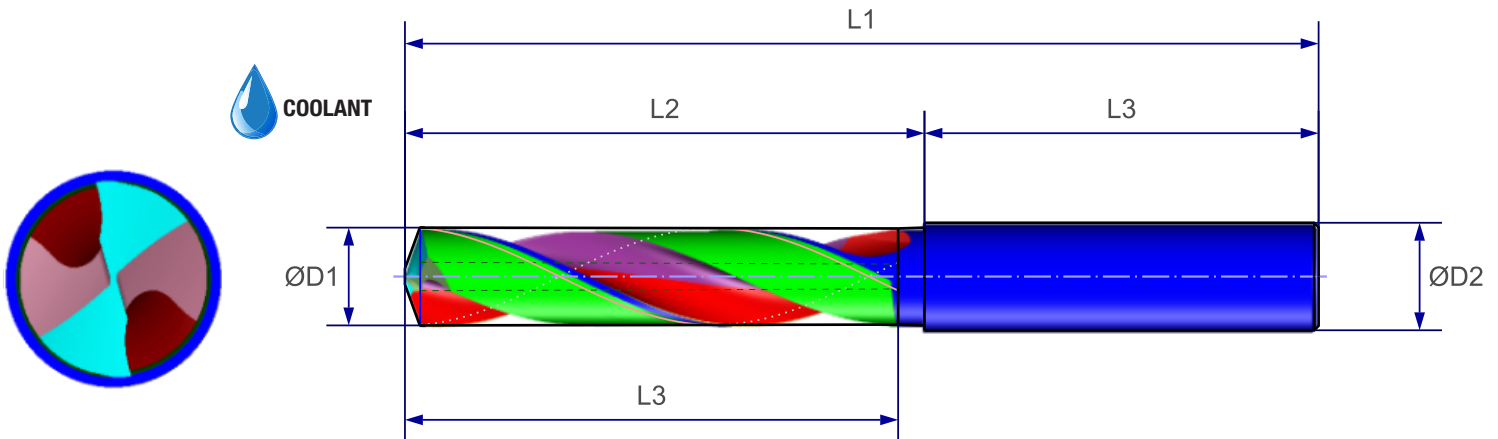
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0300-5XD	3.00		6	66	28	23	36
MGPC2-0310-5XD	3.10		6	66	28	23	36
MGPC2-0320-5XD	3.20		6	66	28	23	36
MGPC2-0330-5XD	3.30		6	66	28	23	36
MGPC2-0340-5XD	3.40	M4	6	66	28	22	36
MGPC2-0350-5XD	3.50		6	66	28	22	36
MGPC2-0360-5XD	3.60		6	66	28	22	36
MGPC2-0370-5XD	3.70		6	66	28	22	36
MGPC2-0380-5XD	3.80		6	74	36	30	36
MGPC2-0390-5XD	3.90	10-24 UNC	6	74	36	30	36
MGPC2-0400-5XD	4.00		6	74	36	30	36
MGPC2-0410-5XD	4.10	10-32 UNC	6	74	36	29	36
MGPC2-0420-5XD	4.20		6	74	36	29	36
MGPC2-0430-5XD	4.30	M5	6	74	36	29	36
MGPC2-0440-5XD	4.40		6	74	36	29	36
MGPC2-0450-5XD	4.50		6	74	36	29	36
MGPC2-0470-5XD	4.70		6	74	36	28	36
MGPC2-0480-5XD	4.80	12-32 UNC	6	82	44	36	36
MGPC2-0490-5XD	4.90		6	82	44	36	36
MGPC2-0500-5XD	5.00		6	82	44	36	36
MGPC2-0510-5XD	5.10	M6	6	82	44	36	36
MGPC2-0520-5XD	5.20		6	82	44	36	36
MGPC2-0530-5XD	5.30	1/4-20 UNC	6	82	44	36	36
MGPC2-0540-5XD	5.40		6	82	44	35	36



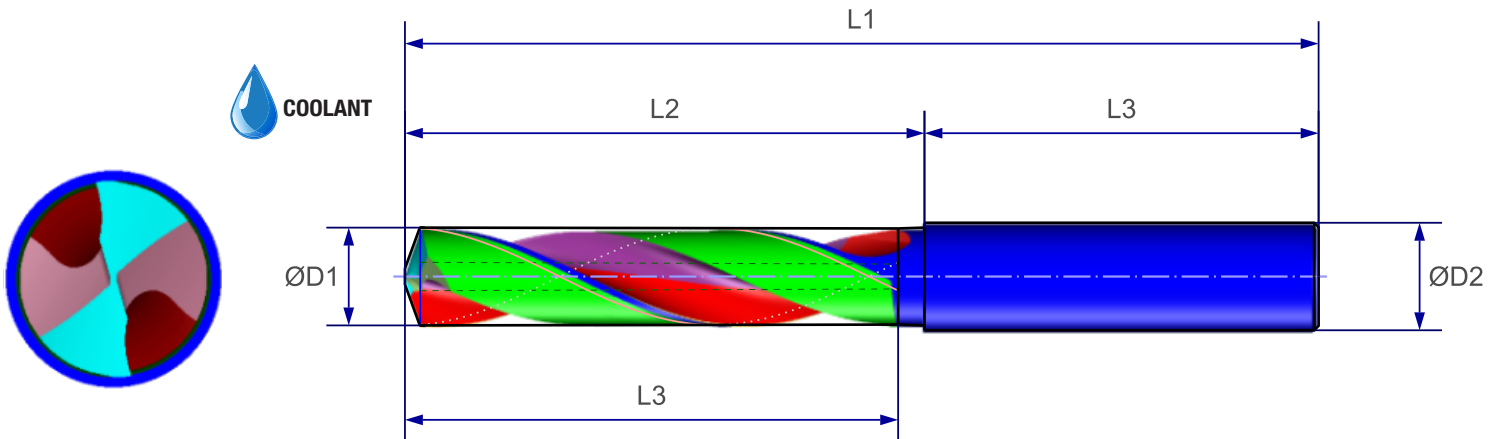
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0550-5XD	5.50		6	82	44	35	36
MGPC2-0560-5XD	5.60		6	82	44	35	36
MGPC2-0570-5XD	5.70		6	82	44	35	36
MGPC2-0580-5XD	5.80		6	82	44	35	36
MGPC2-0590-5XD	5.90		6	82	44	35	36
MGPC2-0600-5XD	6.00		8	91	53	44	36
MGPC2-0610-5XD	6.10		8	91	53	43	36
MGPC2-0620-5XD	6.20		8	91	53	43	36
MGPC2-0630-5XD	6.30		8	91	53	43	36
MGPC2-0640-5XD	6.40		8	91	53	43	36
MGPC2-0650-5XD	6.50		8	91	53	43	36
MGPC2-0660-5XD	6.60		8	91	53	43	36
MGPC2-0670-5XD	6.70	5/18-18UNF	8	91	53	42	36
MGPC2-0675-5XD	6.75		8	91	53	42	36
MGPC2-0680-5XD	6.80		8	91	53	42	36
MGPC2-0690-5XD	6.90	M8	8	91	53	42	36
MGPC2-0700-5XD	7.00		8	91	53	42	36
MGPC2-0710-5XD	7.10	MF8x1	8	91	53	42	36
MGPC2-0720-5XD	7.20		8	91	53	42	36
MGPC2-0730-5XD	7.30		8	91	53	42	36
MGPC2-0740-5XD	7.40		8	91	53	41	36
MGPC2-0750-5XD	7.50		8	91	53	41	36
MGPC2-0760-5XD	7.60		8	91	53	41	36
MGPC2-0770-5XD	7.70		8	91	53	41	36



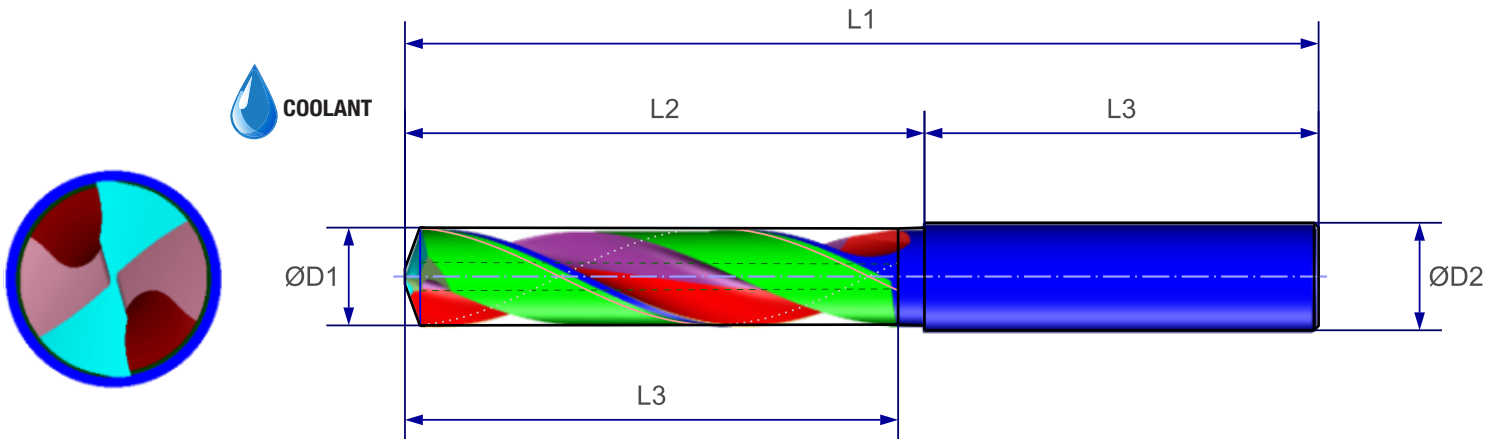
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0780-5XD	7.80		8	91	53	41	36
MGPC2-0790-5XD	7.90		8	91	53	41	36
MGPC2-0800-5XD	8.00		10	103	61	49	40
MGPC2-0810-5XD	8.10		10	103	61	48	40
MGPC2-0820-5XD	8.20	3/8-16 UNC	10	103	61	48	40
MGPC2-0830-5XD	8.30		10	103	61	48	40
MGPC2-0840-5XD	8.40		10	103	61	48	40
MGPC2-0850-5XD	8.50		10	103	61	48	40
MGPC2-0860-5XD	8.60	3/8-24 UNF	10	103	61	48	40
MGPC2-0870-5XD	8.70	M10	10	103	61	47	40
MGPC2-0880-5XD	8.80		10	103	61	47	40
MGPC2-0890-5XD	8.90	MF10x1.25	10	103	61	47	40
MGPC2-0900-5XD	9.00		10	103	61	47	40
MGPC2-0910-5XD	9.10		10	103	61	47	40
MGPC2-0920-5XD	9.20		10	103	61	47	40
MGPC2-0930-5XD	9.30		10	103	61	47	40
MGPC2-0940-5XD	9.40		10	103	61	46	40
MGPC2-0950-5XD	9.50		10	103	61	46	40
MGPC2-0960-5XD	9.60		10	103	61	46	40
MGPC2-0970-5XD	9.70		10	103	61	46	40
MGPC2-0980-5XD	9.70		10	103	61	46	40
MGPC2-0990-5XD	9.90		10	103	61	46	40
MGPC2-1000-5XD	10.00	7/16-20 UNF	12	118	71	56	45
MGPC2-1010-5XD	10.10		12	118	71	55	45



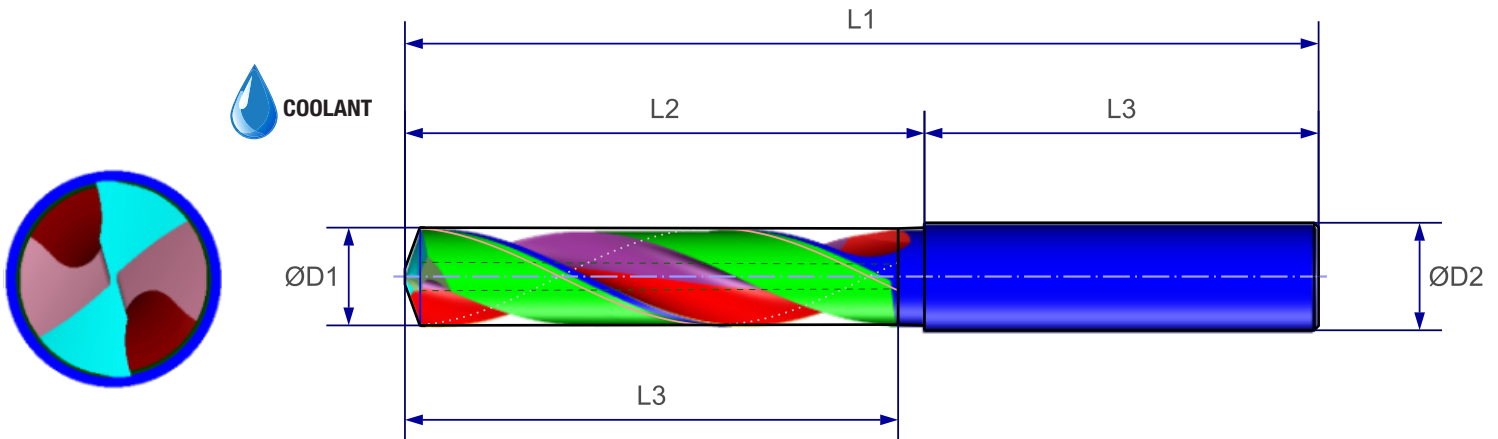
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1020-5XD	10.20		12	118	71	55	45
MGPC2-1030-5XD	10.30		12	118	71	55	45
MGPC2-1040-5XD	10.40	M12	12	118	71	55	45
MGPC2-1050-5XD	10.50		12	118	71	55	45
MGPC2-1060-5XD	10.60		12	118	71	55	45
MGPC2-1070-5XD	10.70	MF12x1.5	12	118	71	54	45
MGPC2-1080-5XD	10.80		12	118	71	54	45
MGPC2-1090-5XD	10.90		12	118	71	54	45
MGPC2-1100-5XD	11.00	1/2-13 UNC	12	118	71	54	45
MGPC2-1110-5XD	11.10		12	118	71	54	45
MGPC2-1120-5XD	11.20		12	118	71	54	45
MGPC2-1140-5XD	11.40		12	118	71	53	45
MGPC2-1150-5XD	11.50		12	118	71	53	45
MGPC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45
MGPC2-1170-5XD	11.70		12	118	71	53	45
MGPC2-1180-5XD	11.80		12	118	71	53	45
MGPC2-1190-5XD	11.90		12	118	71	53	45
MGPC2-1200-5XD	12.00		14	124	77	59	45
MGPC2-1210-5XD	12.10		14	124	77	58	45
MGPC2-1220-5XD	12.20		14	124	77	58	45
MGPC2-1230-5XD	12.30		14	124	77	58	45
MGPC2-1250-5XD	12.50		14	124	77	58	45
MGPC2-1260-5XD	12.60		14	124	77	58	45
MGPC2-1270-5XD	12.70		14	124	77	57	45



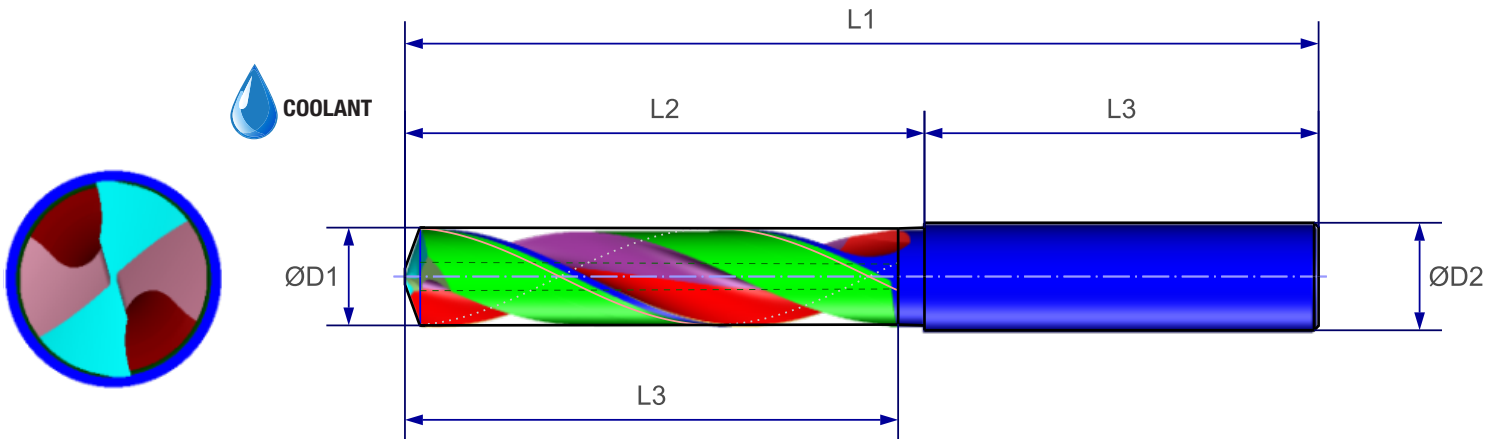
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1280-5XD	12.80		14	124	77	57	45
MGPC2-1290-5XD	12.90		14	124	77	57	45
MGPC2-1300-5XD	13.00		14	124	77	57	45
MGPC2-1310-5XD	13.10		14	124	77	57	45
MGPC2-1320-5XD	13.20		14	124	77	57	45
MGPC2-1330-5XD	13.30		14	124	77	57	45
MGPC2-1350-5XD	13.50		14	124	77	56	45
MGPC2-1380-5XD	13.80		14	124	77	56	45
MGPC2-1400-5XD	14.00		16	133	83	62	48
MGPC2-1410-5XD	14.10		16	133	83	61	48
MGPC2-1420-5XD	14.20		16	133	83	61	48
MGPC2-1430-5XD	14.30		16	133	83	61	48
MGPC2-1440-5XD	14.40		16	133	83	61	48
MGPC2-1450-5XD	14.50		16	133	83	61	48
MGPC2-1460-5XD	14.60		16	133	83	61	48
MGPC2-1480-5XD	14.80		16	133	83	60	48
MGPC2-1500-5XD	15.00		16	133	83	60	48
MGPC2-1510-5XD	15.10		16	133	83	60	48
MGPC2-1520-5XD	15.20		16	133	83	60	48
MGPC2-1530-5XD	15.30		16	133	83	60	48
MGPC2-1540-5XD	15.40		16	133	83	59	48
MGPC2-1550-5XD	15.50		16	133	83	59	48
MGPC2-1560-5XD	15.60		16	133	83	59	48
MGPC2-1570-5XD	15.70		16	133	83	59	48



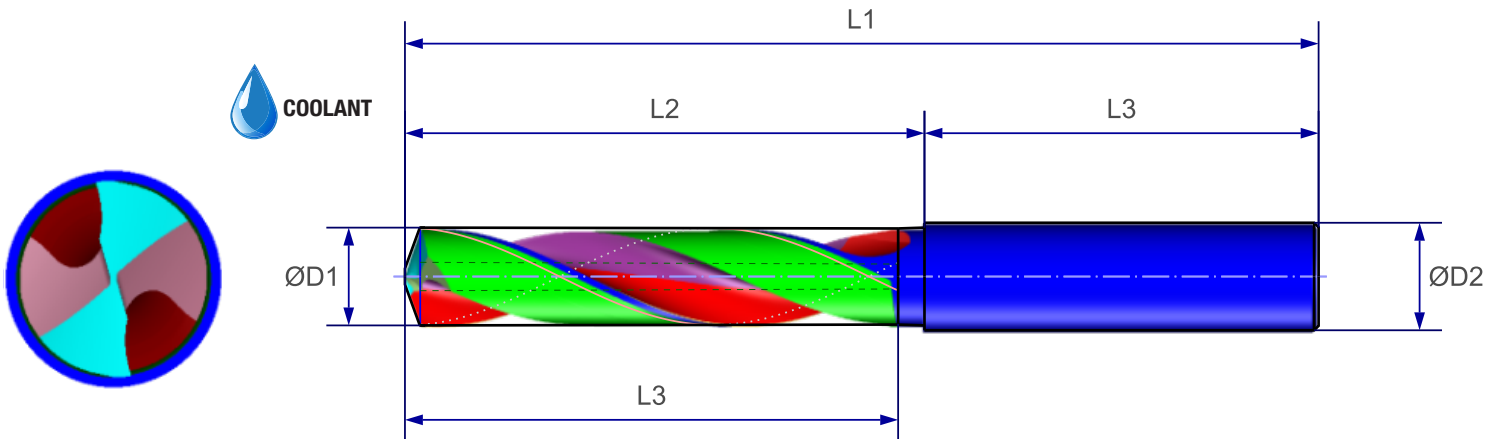
DESCRIPTION EXAMPLE... M=METRIC, GP= General Purpose, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1580-5XD	15.80		16	133	83	59	48
MGPC2-1590-5XD	15.90		16	133	83	59	48
MGPC2-1600-5XD	16.00		18	143	93	69	48
MGPC2-1610-5XD	16.10		18	143	93	68	48
MGPC2-1650-5XD	16.50		18	143	93	68	48
MGPC2-1700-5XD	17.00		18	143	93	67	48
MGPC2-1750-5XD	17.50		18	143	93	66	48
MGPC2-1770-5XD	17.70		18	143	93	66	48
MGPC2-1800-5XD	18.00		20	153	101	74	50
MGPC2-1840-5XD	18.40		20	153	101	73	50
MGPC2-1850-5XD	18.50		20	153	101	73	50
MGPC2-1900-5XD	19.00		20	153	101	72	50
MGPC2-1910-5XD	19.10		20	153	101	72	50
MGPC2-1920-5XD	19.20		20	153	101	72	50
MGPC2-1930-5XD	19.30		20	153	101	72	50
MGPC2-1950-5XD	19.50		20	153	101	71	50
MGPC2-2000-5XD	20.00		20	153	101	71	50



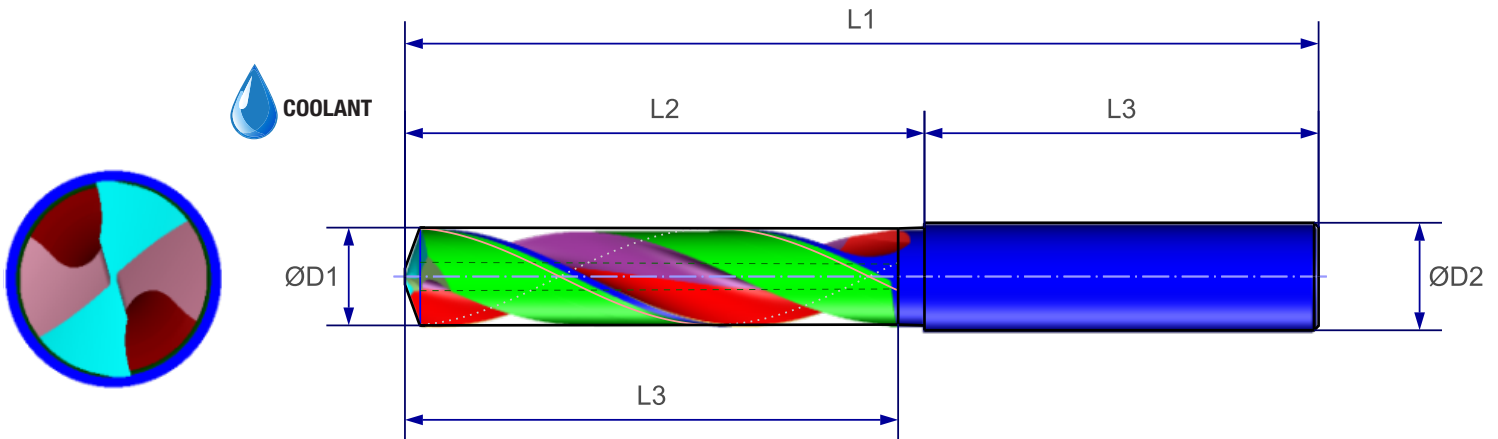
DESCRIPTION EXAMPLE... I=INCH GP= General Purpose C= Coolant 2=FLUTES 125=DIA 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-1250-7XD	.125	1/8	6	2.756	1.181	0.994	1.417
IGPC2-1406-7XD	.141	9/64	6	2.953	1.476	1.265	1.417
IGPC2-1540-7XD	.154	10-24 UNC	6	2.953	1.476	1.245	1.417
IGPC2-1562-7XD	.156	5/32	6	2.953	1.476	1.242	1.417
IGPC2-1610-7XD	.161	10-32 UNF	6	2.953	1.476	1.235	1.417
IGPC2-1690-7XD	.169	M5	6	3.346	1.772	1.519	1.417
IGPC2-1719-7XD	.172	11/64	6	3.346	1.772	1.514	1.417
IGPC2-1875-7XD	.188	3/16	6	3.543	1.969	1.688	1.417
IGPC2-1890-7XD	.189	12-32 UNF	6	3.543	1.969	1.686	1.417
IGPC2-2010-7XD	.201	M6	6	3.543	1.969	1.668	1.417
IGPC2-2031-7XD	.203	13/64	6	3.543	1.969	1.664	1.417
IGPC2-2188-7XD	.219	7/32	6	3.819	2.244	1.916	1.417
IGPC2-2344-7XD	.234	15/64	6	3.819	2.244	1.892	1.417
IGPC2-2500-7XD	.250	1/4	8	4.173	2.598	2.223	1.417
IGPC2-2620-7XD	.262	5/18-18UNF	8	4.173	2.598	2.205	1.417
IGPC2-2656-7XD	.266	17/64	8	4.173	2.598	2.200	1.417
IGPC2-2800-7XD	.280	MF8x1	8	4.567	2.992	2.572	1.417
IGPC2-2813-7XD	.281	9/32	8	4.567	2.992	2.570	1.417
IGPC2-2969-7XD	.297	19/64	8	4.567	2.992	2.547	1.417
IGPC2-3125-7XD	.313	5/16	8	4.567	2.992	2.523	1.417
IGPC2-3281-7XD	.328	21/64	10	5.157	3.425	2.933	1.575
IGPC2-3438-7XD	.344	11/32	10	5.157	3.425	2.909	1.575
IGPC2-3594-7XD	.359	23/64	10	5.472	3.740	3.201	1.575
IGPC2-3750-7XD	.375	3/8	10	5.472	3.740	3.178	1.575



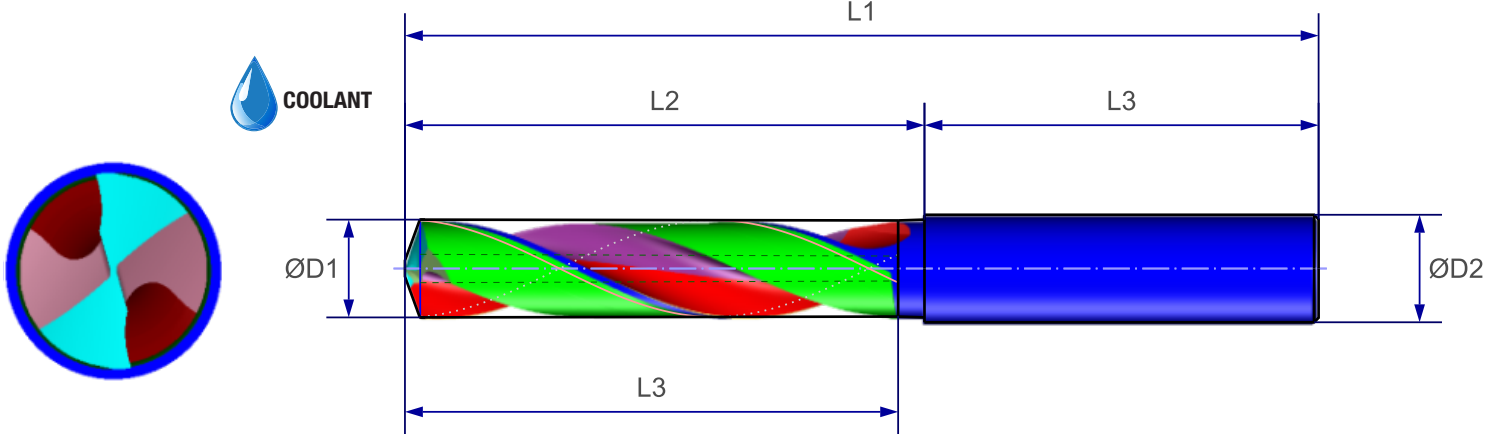
DESCRIPTION EXAMPLE... I=INCH GP= General Purpose C= Coolant 2=FLUTES 125=DIA 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IGPC2-3906-7XD	.391	25/64	10	5.472	3.740	3.154	1.575
IGPC2-3940-7XD	.394	7/16-20 UNF	12	6.102	4.173	3.582	1.772
IGPC2-4063-7XD	.406	13/32	12	6.102	4.173	3.564	1.772
IGPC2-4210-7XD	.421	MF12x1.5	12	6.102	4.173	3.542	1.772
IGPC2-4375-7XD	.438	7/16	12	6.417	4.488	3.832	1.772
IGPC2-4531-7XD	.453	29/64	12	6.417	4.488	3.808	1.772
IGPC2-4570-7XD	.457	1/2-20 UNF	12	6.417	4.488	3.803	1.772
IGPC2-4690-7XD	.469	15/32	12	6.417	4.488	3.785	1.772
IGPC2-4844-7XD	.484	31/64	14	7.165	5.236	4.509	1.772
IGPC2-5000-7XD	.500	1/2	14	7.165	5.236	4.486	1.772
IGPC2-5469-7XD	.547	35/64	14	7.165	5.236	4.416	1.772
IGPC2-5625-7XD	.563	9/16	16	8.031	5.984	5.140	1.890
IGPC2-5781-7XD	.578	37/64	16	8.031	5.984	5.117	1.890
IGPC2-5938-7XD	.594	19/32	16	8.031	5.984	5.093	1.890
IGPC2-6094-7XD	.609	39/64	16	8.031	5.984	5.070	1.890
IGPC2-6250-7XD	.625	5/8	16	8.031	5.984	5.047	1.890
IGPC2-6875-7XD	.688	11/16	18	8.780	6.732	5.701	1.890
IGPC2-7500-7XD	.750	3/4	20	9.606	7.480	6.355	1.969



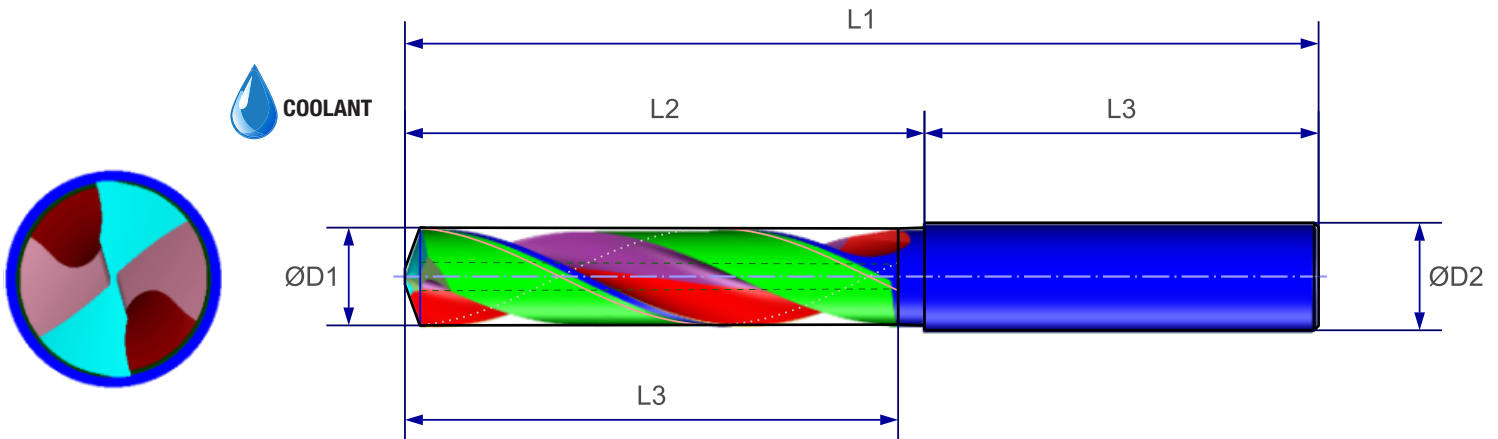
DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0300-7XD	3.00		6	70	30	25	36
MGPC2-0310-7XD	3.10		6	70	30	25	36
MGPC2-0320-7XD	3.20		6	70	30	25	36
MGPC2-0330-7XD	3.30		6	70	30	25	36
MGPC2-0340-7XD	3.40	M4	6	75	38	32	36
MGPC2-0350-7XD	3.50		6	75	38	32	36
MGPC2-0360-7XD	3.60		6	75	38	32	36
MGPC2-0370-7XD	3.70		6	75	38	31	36
MGPC2-0380-7XD	3.80		6	75	38	31	36
MGPC2-0390-7XD	3.90	10-24 UNC	6	75	38	31	36
MGPC2-0400-7XD	4.00		6	75	38	31	36
MGPC2-0410-7XD	4.10	10-32 UNC	6	75	38	31	36
MGPC2-0420-7XD	4.20		6	75	38	31	36
MGPC2-0430-7XD	4.30	M5	6	85	45	38	36
MGPC2-0440-7XD	4.40		6	85	45	38	36
MGPC2-0450-7XD	4.50		6	85	45	38	36
MGPC2-0470-7XD	4.70		6	85	45	37	36
MGPC2-0480-7XD	4.80	12-32 UNC	6	90	50	42	36
MGPC2-0490-7XD	4.90		6	90	50	42	36
MGPC2-0500-7XD	5.00		6	90	50	42	36
MGPC2-0510-7XD	5.10	M6	6	90	50	42	36
MGPC2-0520-7XD	5.20		6	90	50	42	36
MGPC2-0530-7XD	5.30	1/4-20 UNC	6	90	50	42	36
MGPC2-0540-7XD	5.40		6	90	50	41	36
MGPC2-0550-7XD	5.50		6	97	57	48	36



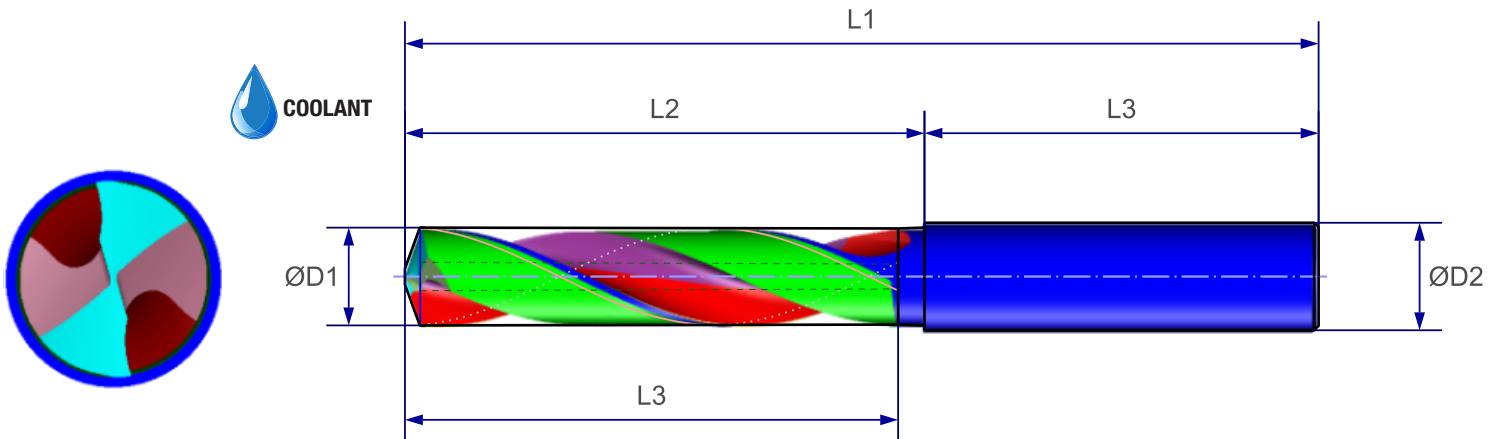
DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0560-7XD	5.60		6	97	57	48	36
MGPC2-0570-7XD	5.70		6	97	57	48	36
MGPC2-0580-7XD	5.80		6	97	57	48	36
MGPC2-0590-7XD	5.90		6	97	57	48	36
MGPC2-0600-7XD	6.00		8	106	66	57	36
MGPC2-0610-7XD	6.10		8	106	66	56	36
MGPC2-0620-7XD	6.20		8	106	66	56	36
MGPC2-0630-7XD	6.30		8	106	66	56	36
MGPC2-0640-7XD	6.40		8	106	66	56	36
MGPC2-0650-7XD	6.50		8	106	66	56	36
MGPC2-0660-7XD	6.60		8	106	66	56	36
MGPC2-0670-7XD	6.70	5/18-18UNF	8	106	66	55	36
MGPC2-0675-7XD	6.75		8	106	66	55	36
MGPC2-0680-7XD	6.80		8	106	66	55	36
MGPC2-0690-7XD	6.90	M8	8	116	76	65	36
MGPC2-0700-7XD	7.00		8	116	76	65	36
MGPC2-0710-7XD	7.10	MF8x1	8	116	76	65	36
MGPC2-0720-7XD	7.20		8	116	76	65	36
MGPC2-0730-7XD	7.30		8	116	76	65	36
MGPC2-0740-7XD	7.40		8	116	76	64	36
MGPC2-0750-7XD	7.50		8	116	76	64	36
MGPC2-0760-7XD	7.60		8	116	76	64	36
MGPC2-0770-7XD	7.70		8	116	76	64	36
MGPC2-0780-7XD	7.80		8	116	76	64	36
MGPC2-0790-7XD	7.90		8	116	76	64	36



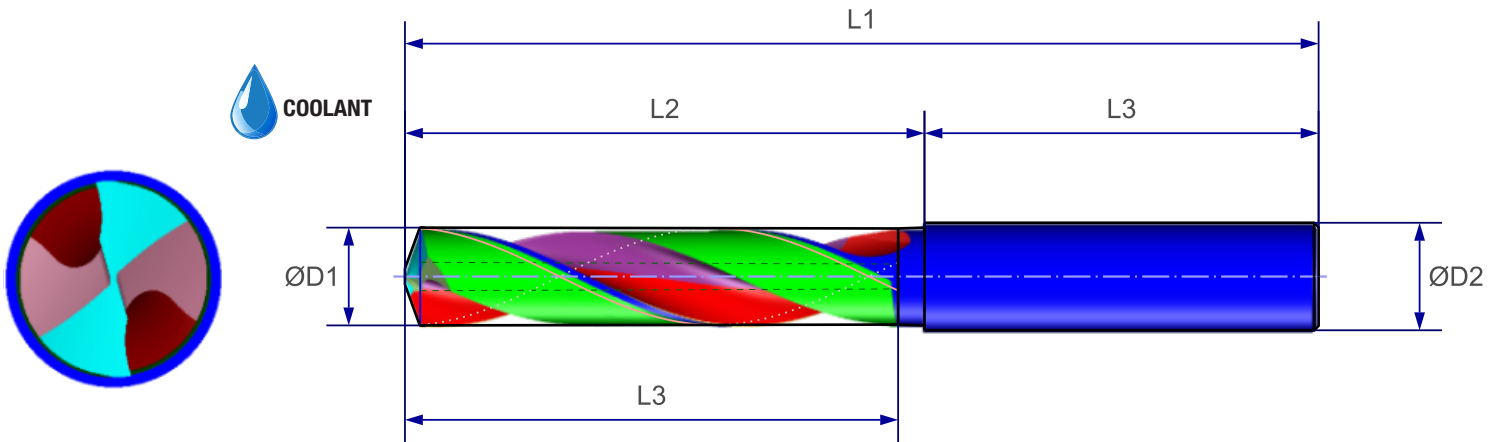
DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-0800-7XD	8.00		10	131	87	75	40
MGPC2-0810-7XD	8.10		10	131	87	74	40
MGPC2-0820-7XD	8.20	3/8-16 UNC	10	131	87	74	40
MGPC2-0830-7XD	8.30		10	131	87	74	40
MGPC2-0840-7XD	8.40		10	131	87	74	40
MGPC2-0850-7XD	8.50		10	131	87	74	40
MGPC2-0860-7XD	8.60	3/8-24 UNF	10	131	87	74	40
MGPC2-0870-7XD	8.70	M10	10	131	87	73	40
MGPC2-0880-7XD	8.80		10	131	87	73	40
MGPC2-0890-7XD	8.90	MF10x1.25	10	131	87	73	40
MGPC2-0900-7XD	9.00		10	131	87	73	40
MGPC2-0910-7XD	9.10		10	139	95	81	40
MGPC2-0920-7XD	9.20		10	139	95	81	40
MGPC2-0930-7XD	9.30		10	139	95	81	40
MGPC2-0940-7XD	9.40		10	139	95	80	40
MGPC2-0950-7XD	9.50		10	139	95	80	40
MGPC2-0960-7XD	9.60		10	139	95	80	40
MGPC2-0970-7XD	9.70		10	139	95	80	40
MGPC2-0980-7XD	9.70		10	139	95	80	40
MGPC2-0990-7XD	9.90		10	139	95	80	40
MGPC2-1000-7XD	10.00	7/16-20 UNF	12	155	106	91	45
MGPC2-1010-7XD	10.10		12	155	106	90	45
MGPC2-1020-7XD	10.20		12	155	106	90	45
MGPC2-1030-7XD	10.30		12	155	106	90	45
MGPC2-1040-7XD	10.40	M12	12	155	106	90	45



DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1050-7XD	10.50		12	155	106	90	45
MGPC2-1060-7XD	10.60		12	155	106	90	45
MGPC2-1070-7XD	10.70	MF12x1.5	12	155	106	89	45
MGPC2-1080-7XD	10.80		12	155	106	89	45
MGPC2-1090-7XD	10.90		12	155	106	89	45
MGPC2-1100-7XD	11.00	1/2-13 UNC	12	155	106	89	45
MGPC2-1110-7XD	11.10		12	155	106	89	45
MGPC2-1120-7XD	11.20		12	163	114	97	45
MGPC2-1140-7XD	11.40		12	163	114	96	45
MGPC2-1150-7XD	11.50		12	163	114	96	45
MGPC2-1160-7XD	11.60	1/2-20 UNF	12	163	114	96	45
MGPC2-1170-7XD	11.70		12	163	114	96	45
MGPC2-1180-7XD	11.80		12	163	114	96	45
MGPC2-1190-7XD	11.90		12	163	114	96	45
MGPC2-1200-7XD	12.00		14	182	133	115	45
MGPC2-1210-7XD	12.10		14	182	133	114	45
MGPC2-1220-7XD	12.20		14	182	133	114	45
MGPC2-1230-7XD	12.30		14	182	133	114	45
MGPC2-1250-7XD	12.50		14	182	133	114	45
MGPC2-1260-7XD	12.60		14	182	133	114	45
MGPC2-1270-7XD	12.70		14	182	133	113	45
MGPC2-1280-7XD	12.80		14	182	133	113	45
MGPC2-1290-7XD	12.90		14	182	133	113	45
MGPC2-1300-7XD	13.00		14	182	133	113	45
MGPC2-1310-7XD	13.10		14	182	133	113	45



DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1320-7XD	13.20		14	182	133	113	45
MGPC2-1330-7XD	13.30		14	182	133	113	45
MGPC2-1350-7XD	13.50		14	182	133	112	45
MGPC2-1380-7XD	13.80		14	182	133	112	45
MGPC2-1400-7XD	14.00		16	204	152	131	48
MGPC2-1410-7XD	14.10		16	204	152	130	48
MGPC2-1420-7XD	14.20		16	204	152	130	48
MGPC2-1430-7XD	14.30		16	204	152	130	48
MGPC2-1440-7XD	14.40		16	204	152	130	48
MGPC2-1450-7XD	14.50		16	204	152	130	48
MGPC2-1460-7XD	14.60		16	204	152	130	48
MGPC2-1480-7XD	14.80		16	204	152	129	48
MGPC2-1500-7XD	15.00		16	204	152	129	48
MGPC2-1510-7XD	15.10		16	204	152	129	48
MGPC2-1520-7XD	15.20		16	204	152	129	48
MGPC2-1530-7XD	15.30		16	204	152	129	48
MGPC2-1540-7XD	15.40		16	204	152	128	48
MGPC2-1550-7XD	15.50		16	204	152	128	48
MGPC2-1560-7XD	15.60		16	204	152	128	48
MGPC2-1570-7XD	15.70		16	204	152	128	48
MGPC2-1580-7XD	15.80		16	204	152	128	48
MGPC2-1590-7XD	15.90		16	204	152	128	48
MGPC2-1600-7XD	16.00		18	223	171	147	48
MGPC2-1610-7XD	16.10		18	223	171	146	48
MGPC2-1650-7XD	16.50		18	223	171	146	48

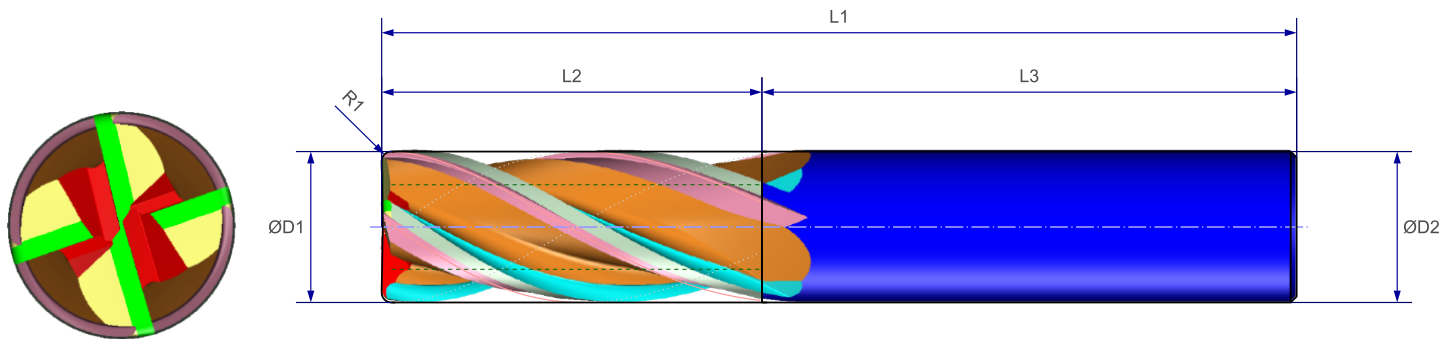


DESCRIPTION EXAMPLE...M=METRIC GP= General Purpose C=COOLANT 2=FLUTES 3=Metric DIA -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MGPC2-1700-7XD	17.00		18	223	171	145	48
MGPC2-1750-7XD	17.50		18	223	171	144	48
MGPC2-1770-7XD	17.70		18	223	171	144	48
MGPC2-1800-7XD	18.00		20	244	190	163	50
MGPC2-1840-7XD	18.40		20	244	190	162	50
MGPC2-1850-7XD	18.50		20	244	190	162	50
MGPC2-1900-7XD	19.00		20	244	190	161	50
MGPC2-1910-7XD	19.10		20	244	190	161	50
MGPC2-1920-7XD	19.20		20	244	190	161	50
MGPC2-1930-7XD	19.30		20	244	190	161	50
MGPC2-1950-7XD	19.50		20	244	190	160	50
MGPC2-2000-7XD	20.00		20	244	190	160	50

SPEED & FEED					Tool Diameter								
					inch	0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75
					mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0
Low Carbon Steels, Long Chipping					Tensile Strength RM (MPa): <530				Hardness (HB) or HRC: <125				
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	225	355	485	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	425	785	945	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022
Low Carbon Steels, Free Machining and Short Chipping					Content C <.25% Tensile Strength RM (MPa): <650				Hardness (HB) or HRC: <220				
Cutting Speed					Feed Rate by Diameter								
SFM	Solid	290	380	500	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	600	720	875	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022
Low Alloyed					Content <.25% Tensile Strength RM (MPa): 600-850				Hardness (HB) or HRC: <330				
Cutting Speed					Feed Rate by Diameter								
SFM	Solid	200	290	375	IPR	.004-.006	.004-.008	.005-.009	.006-.011	.007-.013	.008-.015	.010-.017	.011-.019
SFM	Thru-Coolant	425	500	600	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022
Tool Steels					Content C >.25% Tensile Strength RM (MPa): 800-1100				Hardness (HB) or HRC: 350-450				
Cutting Speed					Feed Rate by Diameter								
SFM	Solid	150	250	375	IPR	.003-.006	.004-.007	.004-.007	.006-.011	.006-.012	.007-.014	.008-.016	.009-.018
SFM	Thru-Coolant	350	475	550	IPR	.003-.007	.004-.008	.006-.013	.006-.013	.007-.015	.008-.015	.009-.019	.010-.022
Austenitic Stainless Steel					Tensile Strength RM (MPa): <650				Hardness (HB) or HRC: 130 - 200				
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	95	125	150	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	190	250	300	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011
High Strength Austenitic Stainless & Cast Stainless					Content C = .05%-.15% Tensile Strength RM (Mpa):500-700				Hardness (HB) or HRC:150-230				
Cutting Speed					Feed Rate by Diameter								
SFM	Solid	75	125	130	IPR	.003-.005	.003-.006	.004-.007	.005-.011	.006-.013	.007-.015	.007-.017	.009-.019
SFM	Thru-Coolant	150	250	260	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011
Duplex Steel					Content C = .05-.2% Tensile Strength RM (Mpa) < 900				Hardness (HP) or HRC: 135-275				
Cutting Speed					Feed Rate by Diameter								
SFM	Solid	60	85	110	IPR	.004-.006	.004-.008	.005-.009	.006-.011	.007-.013	.008-.015	.010-.017	.011-.019
SFM	Thru-Coolant	120	190	220	IPR	.001-.003	.002-.005	.003-.007	.004-.008	.005-.008	.005-.009	.006-.010	.007-.011
2-Flute Cast and Low-Strength Ductile Irons					Tensile Strength RM (MPa): 150-400				Hardness (HB) or HRC: 12-290				
Cutting Speed		Min.	Start	Max	Feed Rate by Diameter								
SFM	Solid	225	355	485	IPR	.003-.005	.006-.008	.008-.011	.010-.014	.011-.016	.013-.017	.014-.02	.016-.021
SFM	Thru-Coolant	390	520	650	IPR	.003-.005	.006-.008	.008-.011	.010-.014	.011-.016	.013-.017	.014-.02	.016-.021
Low and Medium Strength CGI and Ductile Irons					Tensile Strength RM (MPa): 400-600				Hardness (HB) or HRC:130-260				
Cutting Speed					Feed Rate by Diameter								

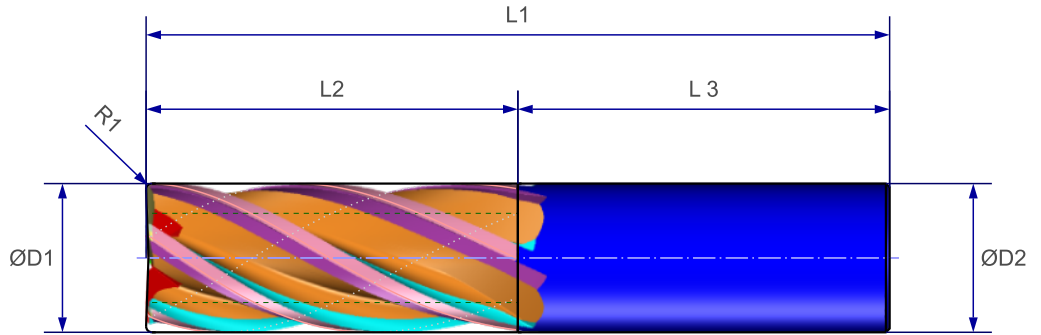
SFM	Solid	230	300	400	IPR	.003-.004	.005-.007	.007-.01	.009-.012	.010-.014	.012-.016	.013-.018	.015-.028	
SFM	Thru-Coolant	260	395	525	IPR	.003-.004	.005-.007	.007-.01	.009-.012	.010-.014	.012-.016	.013-.018	.015-.028	
Cast Iron		Tensile Strength RM (MPa): 600-850		Hardness (HB) or HRC: 180-350										
Cutting Speed				Feed Rate by Diameter										
SFM	Solid	200	290	375	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016	
SFM	Thru-Coolant	200	265	400	IPR	.003-.004	.004-.006	.006-.018	.007-.010	.009-.012	.009-.013	.011-.015	.012-.016	
3-Flute		Wrought Aluminum Alloys												
Cutting Speed	Min. Start Max			Feed Rate by Diameter										
SFM	Solid /Coolant	320	700	1300	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031	
Cast Aluminum														
Cutting Speed				Feed Rate by Diameter										
SFM	Solid /Coolant	320	650	800	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031	
Copper and Copper Alloys														
Cutting Speed				Feed Rate by Diameter										
SFM	Solid /Coolant	200	570	700	IPR	.003-.007	.004-.008	.007-.013	.008-.015	.010-.017	.013-.020	.017-.023	.025-.031	
2-Flute		Iron-Based, Heat-Resistant Alloys			Tensile Strength RM (MPa)*: 500-1200				Hardness (Hb) or HRC: 160-260					
Cutting Speed	Min. Start Max			Feed Rate by Diameter										
SFM	Thru-Coolant	60	75	100	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008	
Nickel-Based or Cobalt-Based, Heat-Resistant Alloys		Tensile Strength RM (MPa): 1000-1450 Hardness (Hb) or HRC: 250-450												
Cutting Speed				Feed Rate by Diameter										
SFM	Thru-Coolant	30	50	70	IPR	.001-.003	.002-.004	.002-.004	.002-.004	0.003-.005	.004-.006	.005-.007	.006-.008	
Titanium Alloys		Tensile Strength RM (MPa): 600-850		Hardness (HB) or HRC: 180-350										
Cutting Speed				Feed Rate by Diameter										
SFM	Thru-Coolant	70	110	150	IPR	.001-.002	.001-.002	.002-.003	.002-.003	.003-.004	.003-.004	.004-.005	.004-.005	

Cutting Speed				Tool Diameter								
				inch	0.125	0.188	0.25	0.313	0.375	0.5	0.625	0.75
				mm	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0
Low Carbon Steels, Long Chipping				Tensile Strength RM (MPa): <530					Hardness (HB) or HRC: <125			
Min. Start Max				Feed Rate by Diameter								
SFM	450	700	780	IPR	.003-.007	.004-.008	.004-.009	.006-.012	.006-.014	.007-.015	.008-.018	.009-.020
Low Carbon Steels, Free Machining and Short Chipping				Content C <.25%					Tensile Strength RM (MPa): <650 Hardness (HB) or HRC: <220			
				Feed Rate by Diameter								
SFM	550	680	780	IPR	.003-.006	.004-.007	.004-.008	.006-.009	.006-.011	.007-.013	.008-.015	.009-.017
Medium & High Plain-Carbon Steels, Low Alloyed				Content <.25%					Tensile Strength RM (MPa): 600-850 Hardness (HB) or HRC: <330			
				Feed Rate by Diameter								
SFM	380	480	590	IPR	.004-.007	.005-.008	.006-.009	.007-.012	.008-.014	.009-.015	.010-.018	.011-.020
Alloyed and Tempered Carbon Steels, Tool Steels				Content >.25%					Tensile Strength RM (MPa): 800-1100			
				Feed Rate by Diameter								
SFM	320	450	590	IPR	.003-.007	.004-.008	.005-.009	.006-.011	.007-.013	.007-.015	.009-.017	.010-.018
High Strength Ferritic, Martensitic, and PH Stainless Steels				Content C .1%-.6%					Tensile Strength RM (MPa): 900-1350			
				Feed Rate by Diameter								
SFM	250	320	500	IPR	.003-.005	.004-.006	.004-.007	.005-.008	.006-.009	.007-.011	.007-.013	.008-.014
Malleable Cast Iron												
				Feed Rate by Diameter								
SFM	450	500	600	IPR	.004-.007	.005-.009	.005-.010	.006-.013	.007-.015	.008-.016	.009-.019	.011-.020
Grey Cast Iron												
				Feed Rate by Diameter								
SFM	320	480	650	IPR	.004-.006	.005-.007	.005-.009	.006-.011	.007-.013	.008-.014	.009-.016	.011-.018
Nodular Cast Iron												
				Feed Rate by Diameter								
SFM	320	425	550	IPR	.003-.006	.004-.007	.005-.008	.006-.009	.006-.011	.007-.013	.008-.015	.009-.015



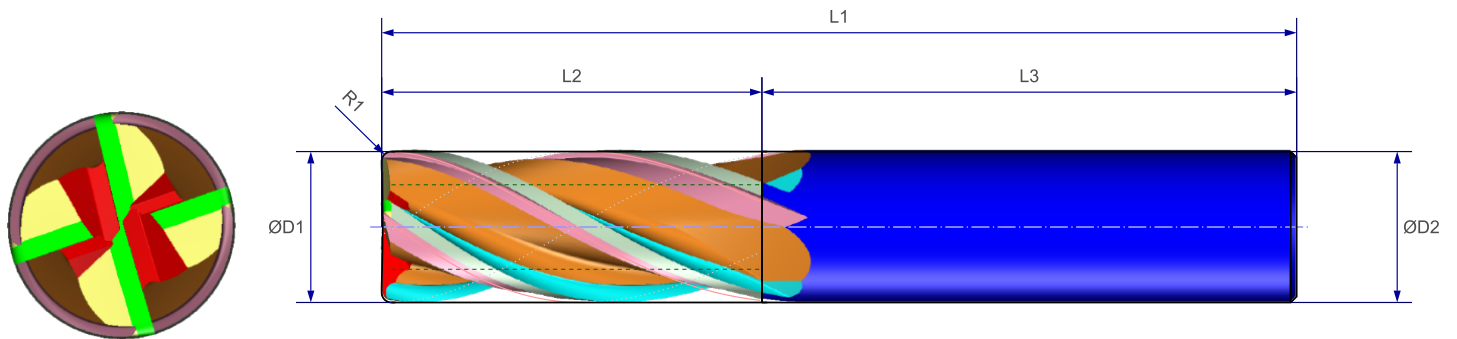
STEEL "L" SERIES

CUTTING DIA.	SHANK DIA.	LOC	OAL	RAD	PN 4-FL	PN 5-FL
1/8	1/8	1/4	1 1/2	.008-.012	L401250250P	L501250250P
1/8	1/8	3/8	1 1/2	.008-.012	L401250375P	L501250375P
3/16	3/16	5/16	2	.008-.012	L401880313P	L501880313P
3/16	3/16	7/16	2	.008-.012	L401880438P	L501880438P
1/4	1/4	3/8	2	.015-.020	L402500375P	L502500375P
1/4	1/4	1/2	2 1/2	.015-.020	L402500500P	L502500500P
1/4	1/4	3/4	2 1/2	.015-.020	L402500755P	L502500755P
5/16	5/16	1/2	2	.015-.020	L403130500P	L503130500P
5/16	5/16	13/16	2 1/2	.015-.020	L403130813P	L503130813P
3/8	3/8	1/2	2	.015-.020	L403750500P	L503750500P
3/8	3/8	5/8	2	.015-.020	L403750625P	L503750625P
1/2	1/2	5/8	2	.025-.030	L405000625P	L505000625P
1/2	1/2	1	3	.025-.030	L405001000P	L505001000P
1/2	1/2	1 1/4	3	.025-.030	L405001250P	L505001250P
1/2	1/2	2	4	.025-.030	L405002000P	L505002000P
5/8	5/8	3/4	2	.035-.040	L406250755P	L506250755P
5/8	5/8	1 1/4	3 1/2	.035-.040	L406251250P	L506251250P
5/8	5/8	2 1/4	5	.035-.040	L406252250P	L506252250P
3/4	3/4	1	2	.035-.040	L407501000P	L507501000P
3/4	3/4	1 1/2	4	.035-.040	L407501500P	L507501500P
3/4	3/4	2 1/4	5	.035-.040	L407502250P	L507502250P
3/4	3/4	3 1/4	6	.035-.040	L407503250P	L507503250P
1	1	1	2	.035-.040	L410001000P	L510001000P
1	1	1 1/2	4	.035-.040	L410001500P	L510001500P
1	1	2 1/4	5	.035-.040	L410002250P	L510002250P
1	1	3 1/4	6	.035-.040	L410003250P	L510003250P



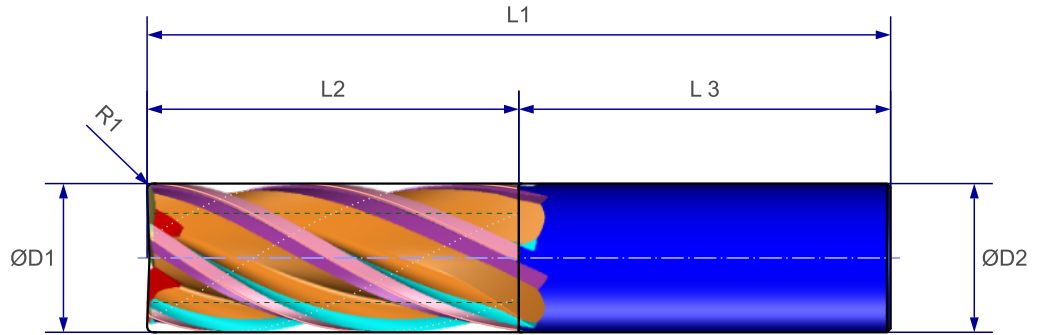
SPEEDS & FEEDS

Materials Annealed	Speed	Materials Hardened	Speed	Feed (Inch/Tooth) "IPT"								Coatings
	S.F.M. Under 28 Rc		S.F.M. Over 28 HRC	End Mill Diameter								
				1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	
STEELS												
High Steel Strength		4340M	Decrease by 25%-30%	0.0007	0.001	0.0014	0.002	0.0026	0.0029	0.0034	0.004	On Steels >45 HRC on Roughing use Coolant on Finishing Run Dry
4340, 6150, 52100,	300-485	300M, MAR										
H-11, H-13		D2, H13, M42										
High Alloy Steels		Magenese	Decrease by 25%-30%	0.0007	0.001	0.0014	0.002	0.0026	0.0029	0.0034	0.004	
A-2/10, P20/10,	260-460	AmorPlate										
Medium Alloy Steels		200 / 300	Decrease by 25%-30%	0.0009	0.0014	0.0018	0.0027	0.0035	0.004	0.0043	0.005	
200, 250, 300	450-620											
Low Alloy Steels		23XX, 31XX, 86XX	485-650	0.0009	0.0014	0.0018	0.0027	0.0035	0.004	0.0043	0.005	
10XX, 11XX, 13XX	100-400											



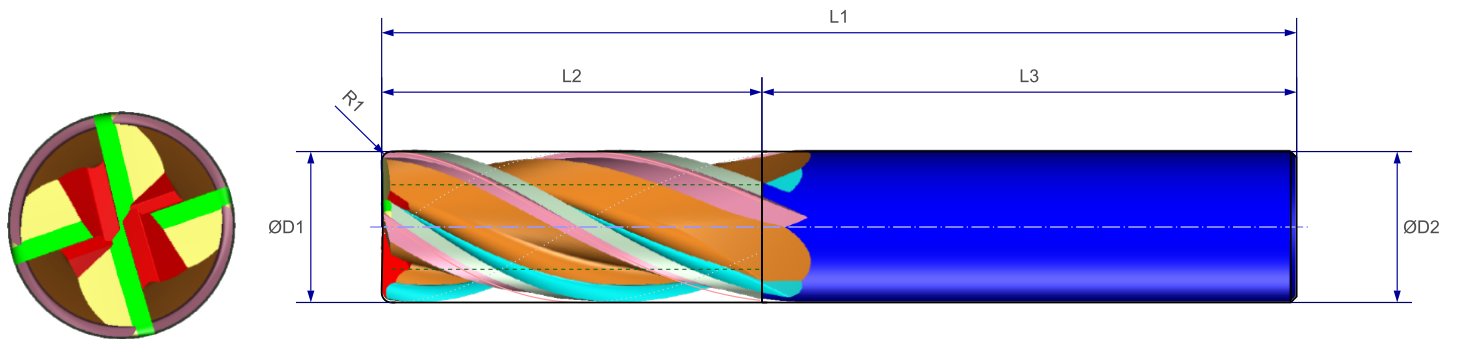
CAST IRON KELLY

CUTTING DIA.	SHANK DIA.	LOC	OAL	RAD	PN 4-FL	PN 5-FL
1/8	1/8	1/4	1 1/2	.008-.012	K401250250P	K501250250P
1/8	1/8	3/8	1 1/2	.008-.012	K401250375P	K501250375P
3/16	3/16	5/16	2	.008-.012	K401880313P	K501880313P
3/16	3/16	7/16	2	.008-.012	K401880438P	K501880438P
1/4	1/4	3/8	2	.015-.020	K402500375P	K502500375P
1/4	1/4	1/2	2 1/2	.015-.020	K402500500P	K502500500P
1/4	1/4	3/4	2 1/2	.015-.020	K402500755P	K502500755P
5/16	5/16	1/2	2	.015-.020	K403130500P	K503130500P
5/16	5/16	13/16	2 1/2	.015-.020	K403130813P	K503130813P
3/8	3/8	1/2	2	.015-.020	K403750500P	K503750500P
3/8	3/8	5/8	2	.015-.020	K403750625P	K503750625P
1/2	1/2	5/8	2	.025-.030	K405000625P	K505000625P
1/2	1/2	1	3	.025-.030	K405001000P	K505001000P
1/2	1/2	1 1/4	3	.025-.030	K405001250P	K505001250P
1/2	1/2	2	4	.025-.030	K405002000P	K505002000P
5/8	5/8	3/4	2	.035-.040	K406250755P	K506250755P
5/8	5/8	1 1/4	3 1/2	.035-.040	K406251250P	K506251250P
5/8	5/8	2 1/4	5	.035-.040	K406252250P	K506252250P
3/4	3/4	1	2	.035-.040	K407501000P	K507501000P
3/4	3/4	1 1/2	4	.035-.040	K407501500P	K507501500P
3/4	3/4	2 1/4	5	.035-.040	K407502250P	K507502250P
3/4	3/4	3 1/4	6	.035-.040	K407503250P	K507503250P
1	1	1	2	.035-.040	K410001000P	K510001000P
1	1	1 1/2	4	.035-.040	K410001500P	K510001500P
1	1	2 1/4	5	.035-.040	K410002250P	K510002250P
1	1	3 1/4	6	.035-.040	K410003250P	K510003250P



SPEEDS & FEEDS

Materials Soft Grades	Speed S.F.M. Under 28 HRc	Materials Hard Grades	Speed S.F.M. Over 28 HRc	Feed (Inch/Tooth) "IPT"								Coatings
				End Mill Diameter								
				1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	
CAST IRON												
Ductile Cast Iron	375-500	Ductile Cast Iron	Decrease by 25%-30%	0.0007	0.001	0.0015	0.002	0.003	0.0034	0.0038	0.0045	Always use coolant
Gray Cast Iron	380-580	Malleable, Chilled	Decrease by 25%-30%	0.0009	0.0014	0.002	0.0027	0.0038	0.004	0.0043	0.005	



STAINLESS & HIGH TEMP. ALLOYS

CUTTING DIA.	SHANK DIA.	LOC	OAL	RAD	PN 4-FL	PN 5-FL
1/8	1/8	1/4	1 1/2	.008-.012	C401250250P	C501250250P
1/8	1/8	3/8	1 1/2	.008-.012	C401250375P	C501250375P
3/16	3/16	5/16	2	.008-.012	C401880313P	C501880313P
3/16	3/16	7/16	2	.008-.012	C401880438P	C501880438P
1/4	1/4	3/8	2	.015-.020	C402500375P	C502500375P
1/4	1/4	1/2	2 1/2	.015-.020	C402500500P	C502500500P
1/4	1/4	3/4	2 1/2	.015-.020	C402500755P	C502500755P
5/16	5/16	1/2	2	.015-.020	C403130500P	C503130500P
5/16	5/16	13/16	2 1/2	.015-.020	C403130813P	C503130813P
3/8	3/8	1/2	2	.015-.020	C403750500P	C503750500P
3/8	3/8	5/8	2	.015-.020	C403750625P	C503750625P
1/2	1/2	5/8	2	.025-.030	C405000625P	C505000625P
1/2	1/2	1	3	.025-.030	C405001000P	C505001000P
1/2	1/2	1 1/4	3	.025-.030	C405001250P	C505001250P
1/2	1/2	2	4	.025-.030	C405002000P	C505002000P
5/8	5/8	3/4	2	.035-.040	C406250755P	C506250755P
5/8	5/8	1 1/4	3 1/2	.035-.040	C406251250P	C506251250P
5/8	5/8	2 1/4	5	.035-.040	C406252250P	C506252250P
3/4	3/4	1	2	.035-.040	C407501000P	C507501000P
3/4	3/4	1 1/2	4	.035-.040	C407501500P	C507501500P
3/4	3/4	2 1/4	5	.035-.040	C407502250P	C507502250P
3/4	3/4	3 1/4	6	.035-.040	C407503250P	C507503250P
1	1	1	2	.035-.040	C410001000P	C510001000P
1	1	1 1/2	4	.035-.040	C410001500P	C510001500P
1	1	2 1/4	5	.035-.040	C410002250P	C510002250P
1	1	3 1/4	6	.035-.040	C410003250P	C510003250P

SPEEDS & FEEDS

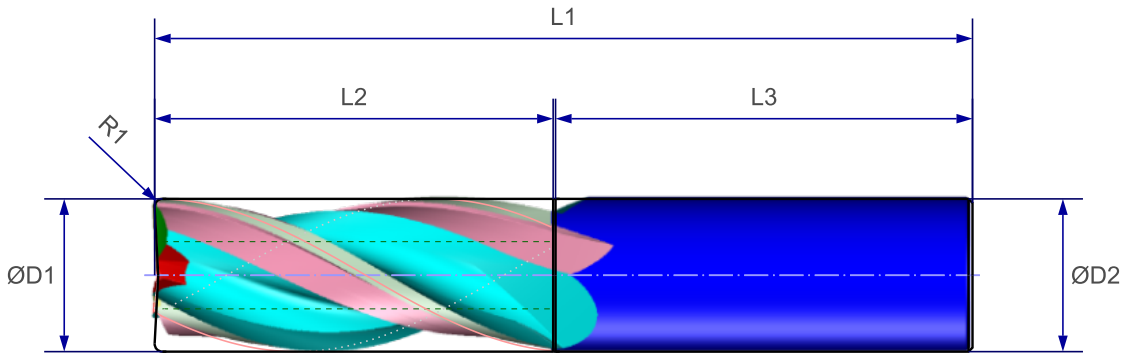
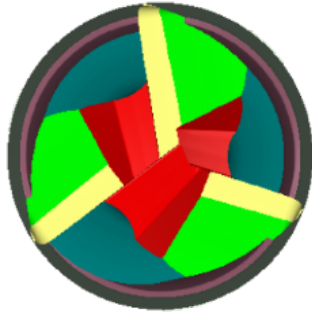
STAINLESS STEEL												
Precipitation 13/8, 15/5, AM-350/355	200-325	17/4, 17/7, AF-71, Custom 450/636, 15/7 Mo, 21- 6-9	Decrease by 25%-30%	0.0005	0.0008	0.001	0.0015	0.002	0.0022	0.0025	0.003	
Austenitic 200 Series, 302, 303, 304L, 316L	240-350	304, 310, 314, 316, 321, 330, 347, 348, 21-6-9	Decrease by 25%-30%	0.0006	0.0009	0.0012	0.0018	0.0023	0.0027	0.003	0.0036	
Martensitic 403, 410, 416	200-325	420, 430F, 440C, 446	Decrease by 25%-30%	0.0003	0.0006	0.0009	0.0013	0.0018	0.002	0.0023	0.0028	

Materials Soft Grades	Speed S.F.M. Under 28 HRc	Materials Hard Grades	Speed S.F.M. Over 28 HRc	Feed (Inch/Tooth) "IPT"								Coatings
				End Mill Diameter								
				1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	

HIGH TEMP ALLOYS												
Cobalt Base Stellite, HS-21, HAYNES25/188, x-40, L-605	160-260	Air-Resist 13/213/215, Haynes 21/36, NASA CO- W-RE	Decrease by 25%-30%	0.0006	0.0009	0.0012	0.0018	0.0023	0.0027	0.003	0.0043	
Nickel Base INCONEL 600/625, Nickel 200-270, Monel 400-405	70-130	Hastalloy- C/B/X, INCONEL 718/X/W, Waspalloy, Rene 41-95	Decrease by 25%-30%	0.0004	0.0006	0.0009	0.0013	0.0016	0.0018	0.002	0.0026	
Iron Base Incoly 600-802, Multimet N-155, Timkin 16-25-6	160-300	A-280, Haynes 556 Discoly, V57	Decrease by 25%-30%	0.0007	0.0011	0.0015	0.0022	0.003	0.0032	0.0038	0.0045	

Materials	Speed S.F.M. Under 30 HRc	Materials Hard Grades	Speed S.F.M. Over 30 HRc	Feed (Inch/Tooth) "IPT"								Coatings
				End Mill Diameter								
				1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	

TITANIUM												
Titanium Alloys Commercially, Pure, 6AL-4V, Astm 1/2/3, 6 AL-25N-4Zr-2Mo-Si	160-275	5AL-2.5Sn- Eli 8Al-1 Mo-1V	Decrease by 25%-30%	0.0005	0.0008	0.0012	0.0018	0.0022	0.0025	0.0028	0.0033	Always use coolant / No Dry Machining



ALUMINUM & ALLOYS

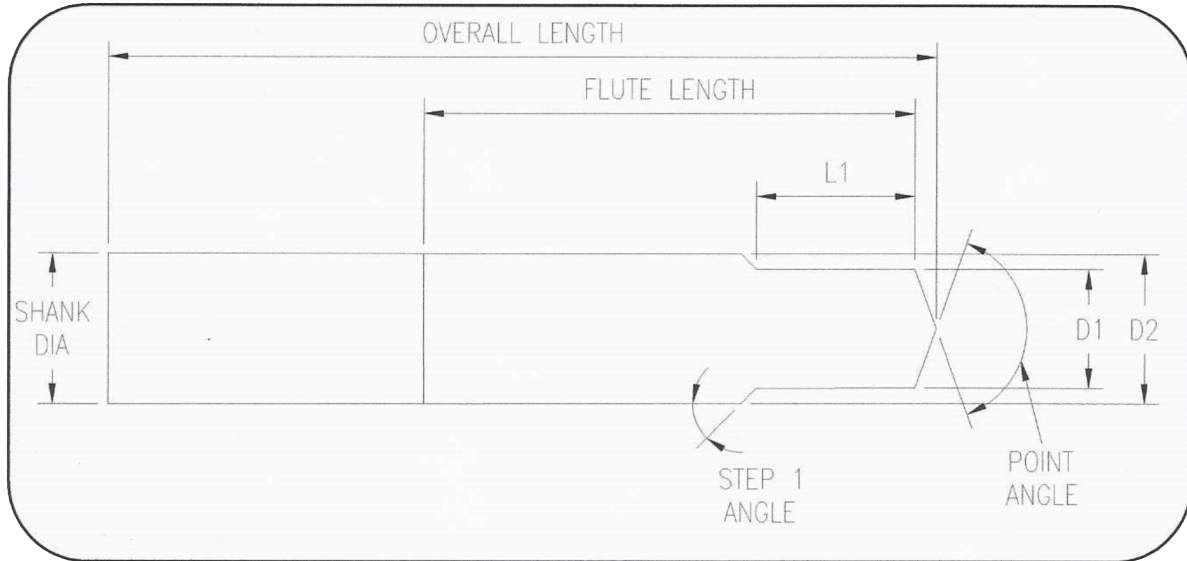
CUTTING DIA.	SHANK DIA.	LOC	OAL	RAD	PN 3-FL	PN COATED
1/8	1/8	1/4	1 1/2	.008-.012	B301250250	B301250250I
1/8	1/8	3/8	1 1/2	.008-.012	B301250375	B301250375I
3/16	3/16	5/16	2	.008-.012	B301880313	B301880313I
3/16	3/16	7/16	2	.008-.012	B301880438	B301880438I
1/4	1/4	3/8	2	.015-.020	B302500375	B302500375I
1/4	1/4	1/2	2 1/2	.015-.020	B302500500	B302500500I
1/4	1/4	3/4	2 1/2	.015-.020	B302500755	B302500755I
5/16	5/16	1/2	2	.015-.020	B303130500	B303130500I
5/16	5/16	13/16	2 1/2	.015-.020	B303130813	B303130813I
3/8	3/8	1/2	2	.015-.020	B303750500	B303750500I
3/8	3/8	5/8	2	.015-.020	B303750625	B303750625I
1/2	1/2	5/8	2	.025-.030	B305000625	B305000625I
1/2	1/2	1	3	.025-.030	B305001000	B305001000I
1/2	1/2	1 1/4	3	.025-.030	B305001250	B305001250I
1/2	1/2	2	4	.025-.030	B305002000	B305002000I
5/8	5/8	3/4	2	.035-.040	B306250755	B306250755I
5/8	5/8	1 1/4	3 1/2	.035-.040	B306251250	B306251250I
5/8	5/8	2 1/4	5	.035-.040	B306252250	B306252250I
3/4	3/4	1	2	.035-.040	B307501000	B307501000I
3/4	3/4	1 1/2	4	.035-.040	B307501500	B307501500I
3/4	3/4	2 1/4	5	.035-.040	B307502250	B307502250I
3/4	3/4	3 1/4	6	.035-.040	B307503250	B307503250I
1	1	1	2	.035-.040	B310001000	B310001000I
1	1	1 1/2	4	.035-.040	B310001500	B310001500I
1	1	2 1/4	5	.035-.040	B310002250	B310002250I
1	1	3 1/4	6	.035-.040	B310003250	B310003250I

SPEEDS & FEEDS

Materials Soft Grades	Speed S.F.M.	Materials Hard Codes	Speed S.F.M.	Feed (Inch/Tooth) "IPT" End Mill Diameter								Coatings
				1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	
NONFERROUS MATERIALS												
Aluminum + Aluminum Alloys 2024-T4/T6, 2014, 6061-T6/T3, 7075- T6	1600-5000	440, 356, 380, C61300		0.0004	0.0005	0.0008	0.0014	0.002	0.0024	0.0028	0.0034	TiB2 Increase SFM 40%
Copper Yellow Brass, High Lead Brass, Red Brass	800-2000	Naval Brass High Silicon Bronze, A-17, C- 17200		0.0005	0.0007	0.001	0.0016	0.0021	0.0027	0.0033	0.004	TiB2 Increase SFM 40%
Copper Alloys Alum/Bronze, Low Silicon Bronze	800-1000	Nickel Silver, Beryllium Copper, Oxygen- Free Copper		0.0004	0.0005	0.0006	0.0013	0.0016	0.002	0.0023	0.0026	TiB2 Increase SFM 40%
Magnesium De-Cat, Extruded	1600-5000	Nickel Silver, Beryllium Copper, Oxygen- Free Copper		0.0004	0.0005	0.0008	0.0014	0.002	0.0024	0.0028	0.0034	ZrN Increase SFM 40%
Plastics, Acrylics, Phenolics Polysulfone	330-1650	Polycarbona te		0.0005	0.0008	0.001	0.0015	0.0019	0.0022	0.0024	0.0029	TiB2 Increase SFM 40%
Carbon, Graphites	330-1650			0.001	0.0015	0.002	0.003	0.004	0.005	0.006	0.008	CVD Diamond Increase SFM 60%



STEP DRILLS



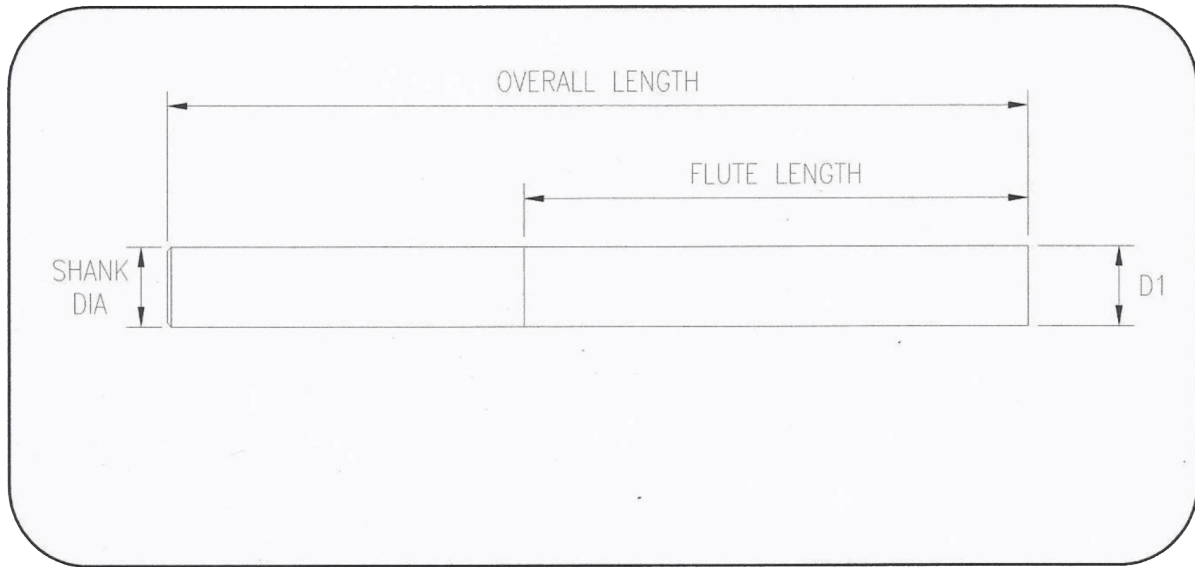
Overall Length: _____
 Flute Length: _____
 Shank Dia.: _____
 D1: _____
 D2: _____

Point Angle: _____
 L1: _____
 Step 1 Angle: _____
 Coating: _____
 Flute Type: Straight Spiral
 Coolant Holes: Yes No
 Material Being Machined: _____

Name: _____
 Company Name: _____
 Address: _____

 Phone #: _____
 Fax #: _____
 e-Mail: _____

END MILLS



Overall Length: _____
Flute Length: _____
Shank Dia.: _____
D1: _____

Number of Flutes: _____
Corner Radius: Yes No Size: _____

Name: _____
Company Name: _____
Address: _____

Phone #: _____
Fax #: _____
e-Mail: _____

DRILL'S



Overall Length: _____
Flute Length: _____
Shank Dia.: _____
D1: _____
D2: _____

Point Angle: _____
Coating: _____
Flute Type: Straight Spiral
Coolant Holes: Yes No
Material Being Machined: _____

Name: _____
Company Name: _____
Address: _____

Phone #: _____
Fax #: _____
e-Mail: _____