

INTRODUCING: BAT WING

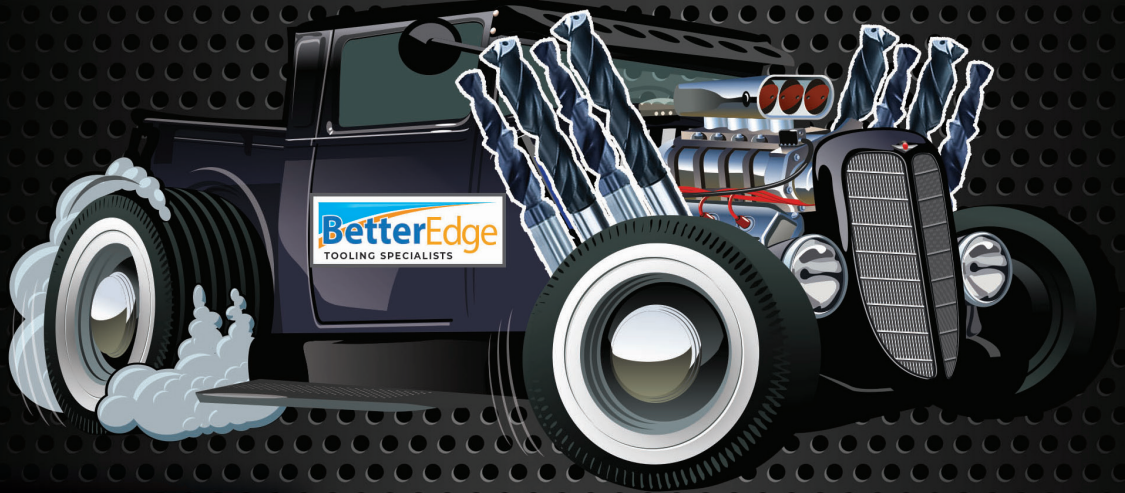
GASH OPTIMIZATION
FOR LOWER THRUST


COOLANT CHANNEL CANALS
FOR OPTIMUM FLOW

POLISHED FLUTES
FOR INCREASED
CHIP EVACUATION

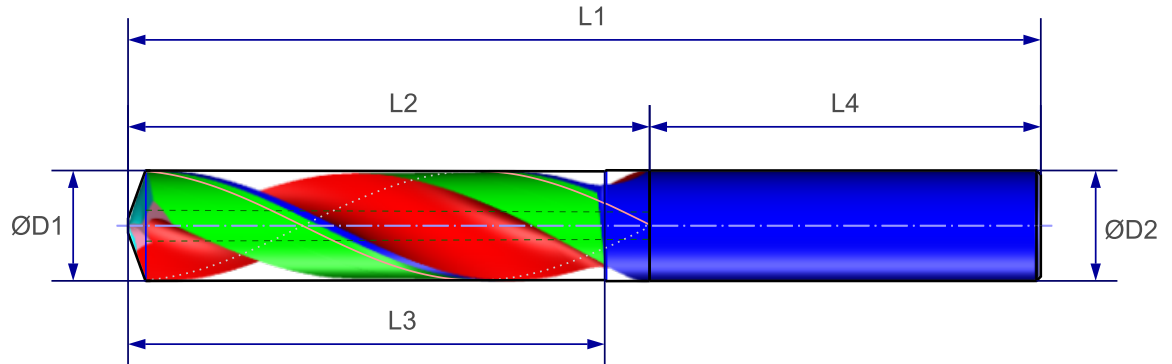
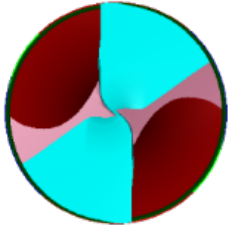
RADIUS EDGE FOR SUPERIOR
EDGE STRENGTH AND EXCELLENT
CENTERING CAPABILITIES

Patented point geometry

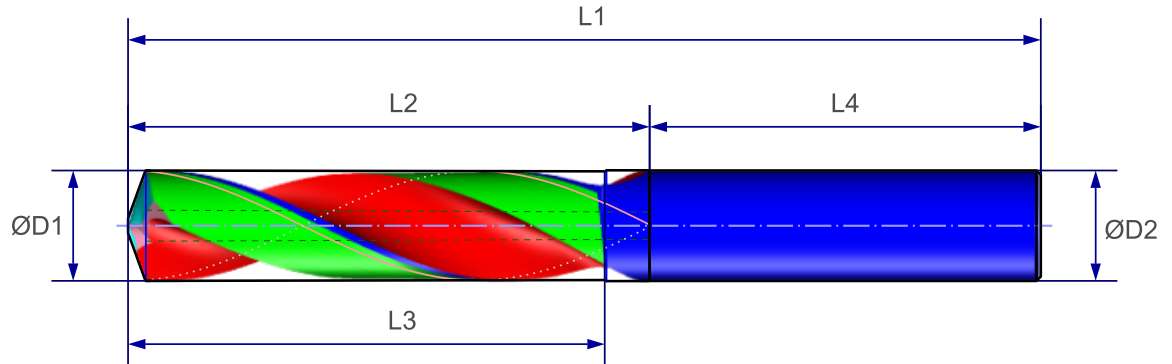
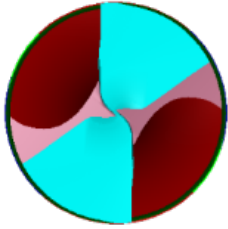


FOLLOW US ON 

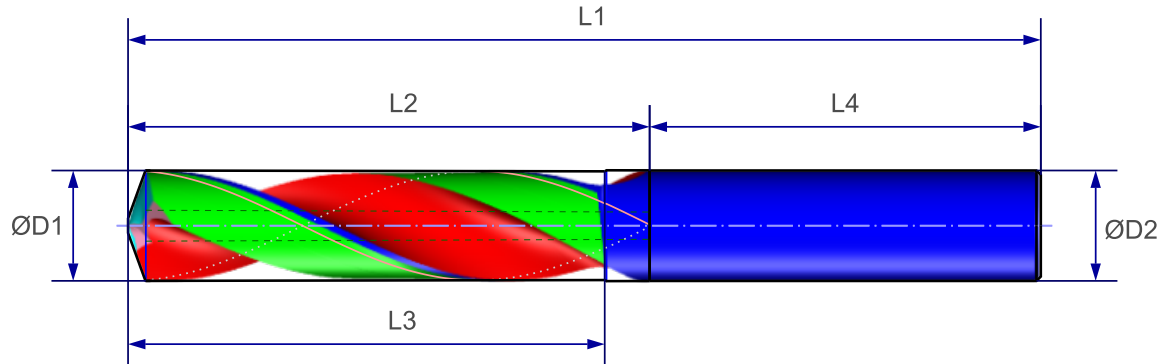
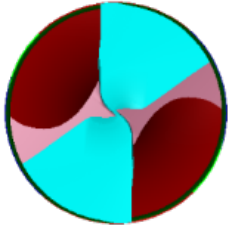
For more info call: 866.887.5546 Or Visit: www.Better-Edge.com



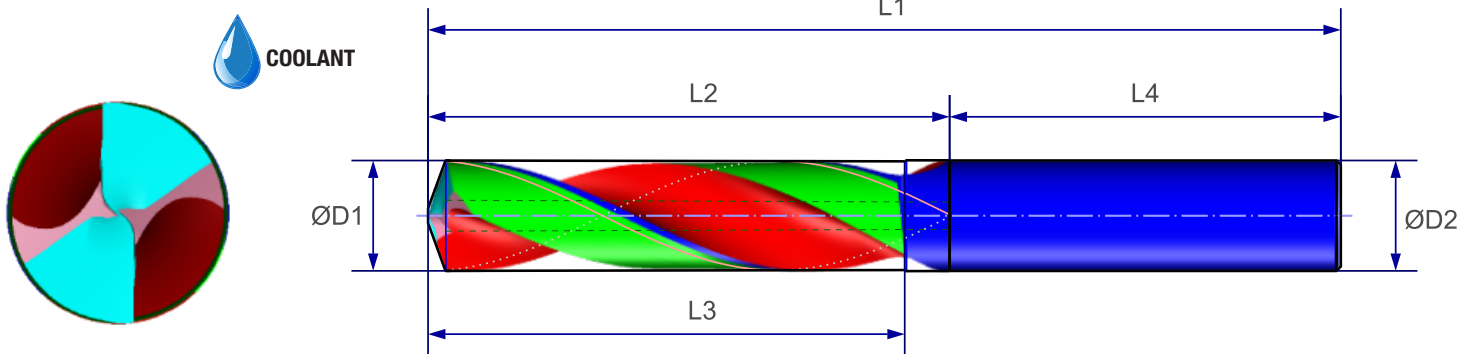
DESCRIPTION EXAMPLE... I=INCH, P= STEEL S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-0892-3XD	0.089	4-40	6	2.441	0.787	0.653	1.417
IPS2-1096-3XD	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



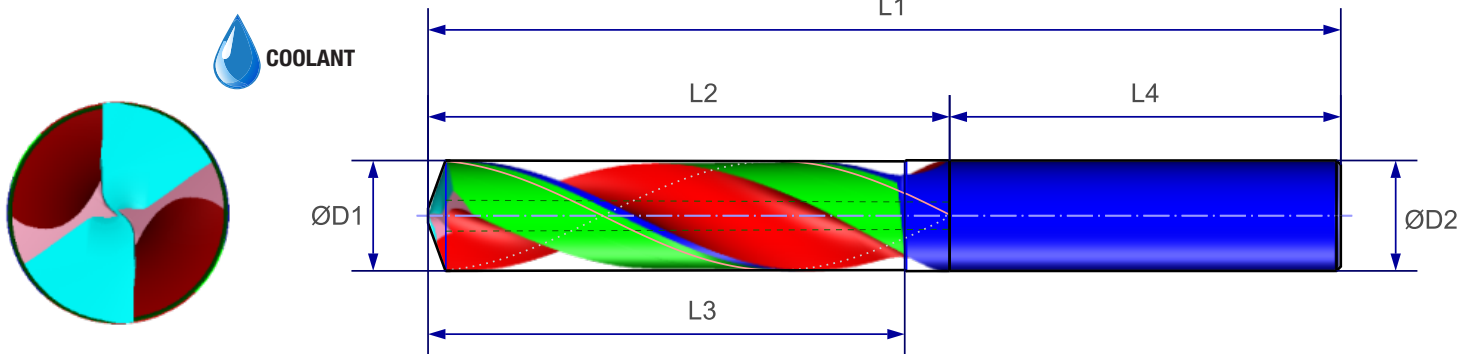
DESCRIPTION EXAMPLE... I=INCH, P= STEEL S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-3125-3XD	.313	5/16	8	3.110	1.614	1.145	1.417
IPS2-3180-3XD	.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



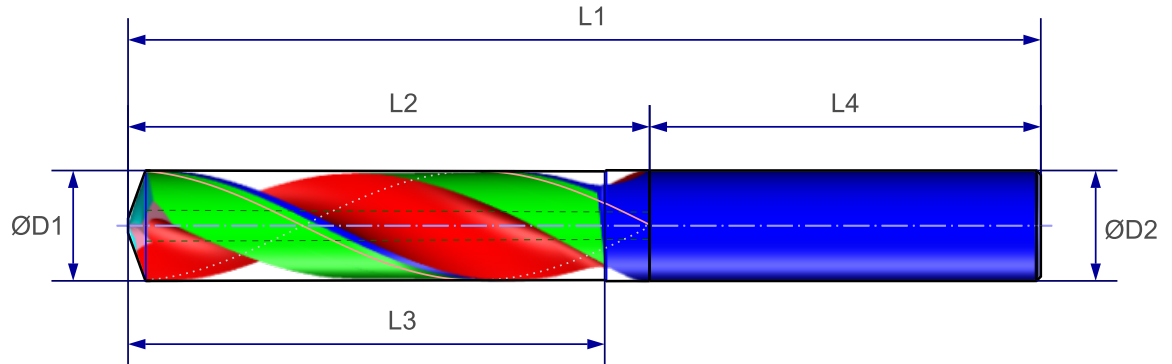
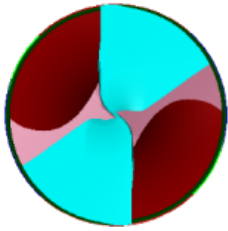
DESCRIPTION EXAMPLE... I=INCH, P= STEEL S=Solid 2=FLUTES 125=DIA, 3XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPS2-6094-3XD	.609	39/64	16	4.528	2.559	1.645	1.890
IPS2-6250-3XD	.625	5/8	16	4.528	2.559	1.622	1.890
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



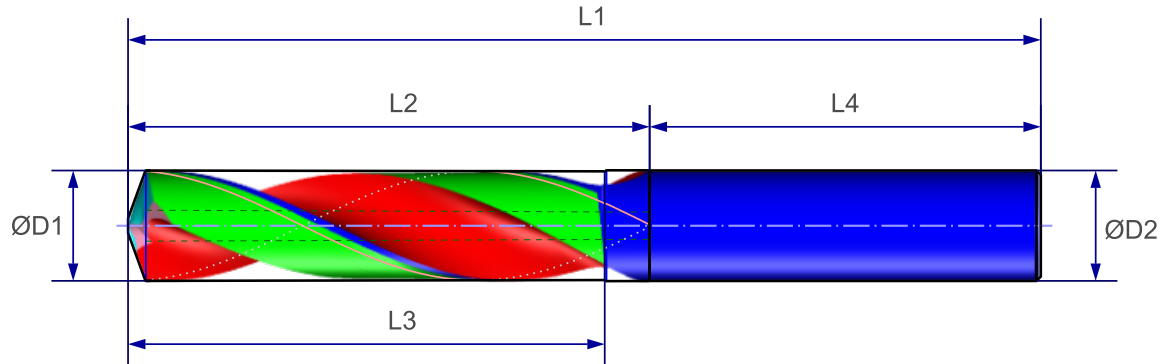
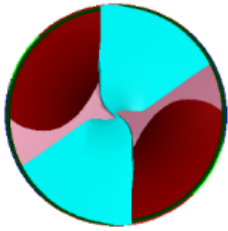
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IPC2-1250-3XD	.125	1/8	6	2.441	0.787	0.600	1.417
IPC2-1376-3XD	.138	8-32	6	2.441	0.787	0.581	1.417
IPC2-1406-3XD	.141	9/64	6	2.441	0.787	0.576	1.417
IPC2-1540-3XD	.154	10-24 UNC	6	2.598	0.945	0.714	1.417
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IPC2-1690-3XD	.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



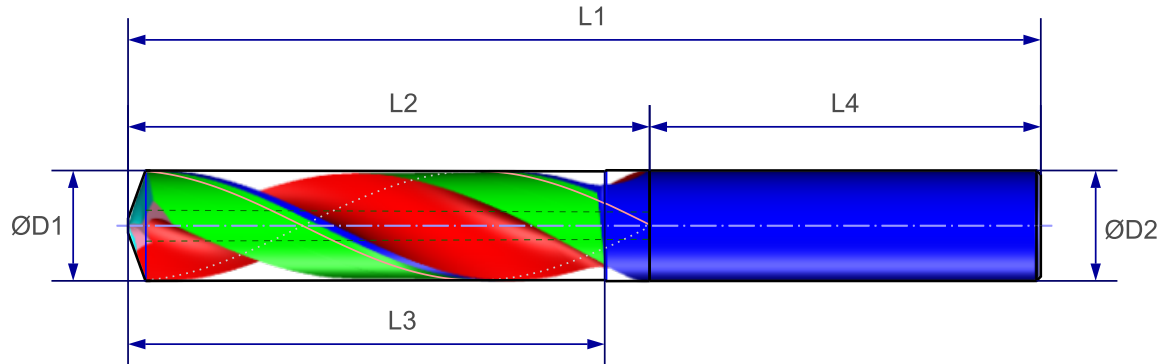
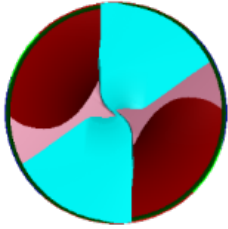
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IPC2-3370-3XD	.337	3/8-24	10	3.504	1.850	1.345	1.575
IPC2-3438-3XD	.344	11/32	10	3.504	1.850	1.334	1.575
IPC2-3594-3XD	.359	23/64	10	3.504	1.850	1.311	1.575
IPC2-3725-3XD	.373	7/16-24	10	3.504	1.850	1.291	1.575
IPC2-3750-3XD	.375	3/8	10	3.504	1.850	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



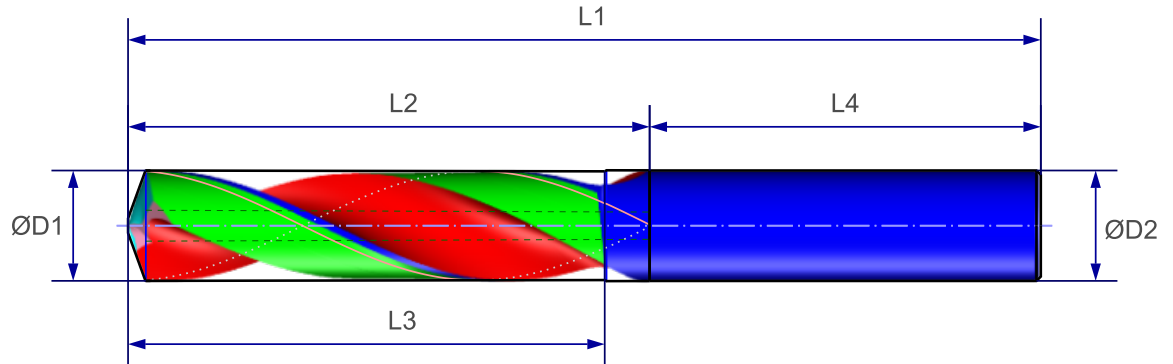
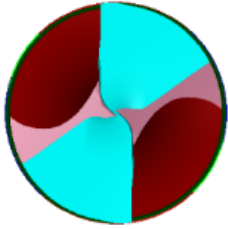
DESCRIPTION EXAMPLE... M=METRIC, P= STEEL, S=SOLID 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL L1 mm	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPS2-0255-3XD	2.55	M3	6	62	20	16	36
MPS2-0300-3XD	3.00		6	62	20	15	36
MPS2-0310-3XD	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



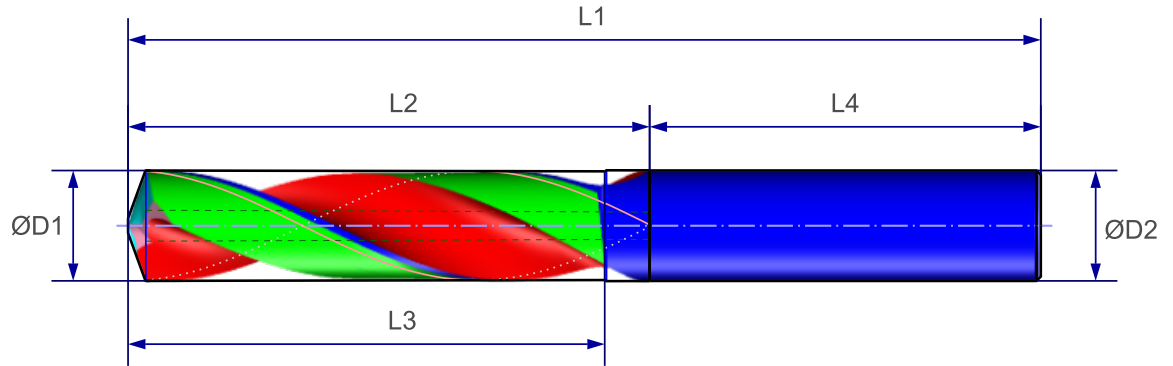
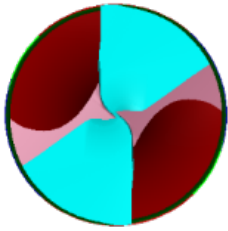
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MPS2-0540-3XD	5.40		6	66	28	19	36	
MPS2-0550-3XD	5.50		6	66	28	19	36	
MPS2-0560-3XD	5.60		6	66	28	19	36	
MPS2-0570-3XD	5.70		6	66	28	19	36	
MPS2-0580-3XD	5.80		6	66	28	19	36	
MPS2-0590-3XD	5.90		6	66	28	19	36	
MPS2-0600-3XD	6.00		8	79	34	25	36	
MPS2-0610-3XD	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	
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	



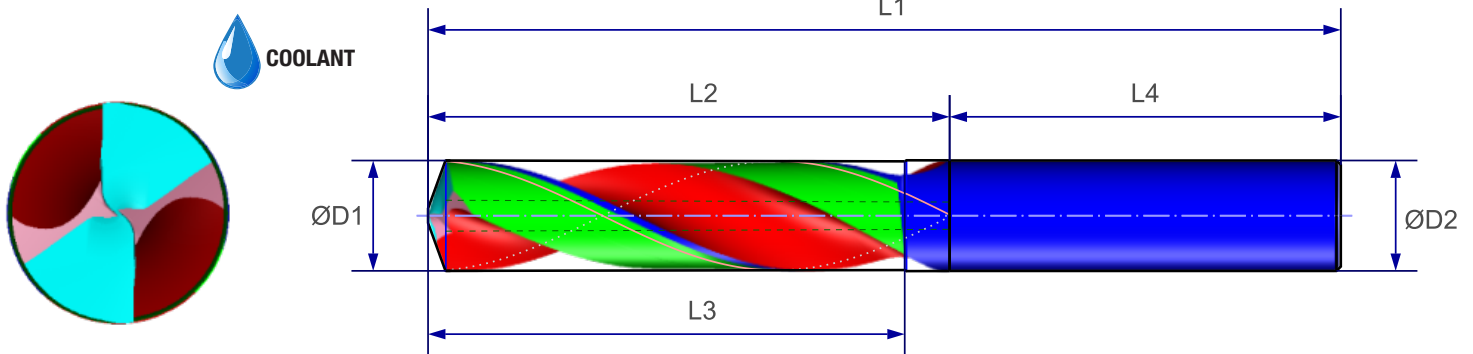
MPS2-0820-3XD	8.20		10	89	47	34	40
MPS2-0830-3XD	8.30		10	89	47	34	40
MPS2-0840-3XD	8.40		10	89	47	34	40
MPS2-0850-3XD	8.50		10	89	47	34	40
MPS2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MPS2-0870-3XD	8.70		10	89	47	33	40
MPS2-0880-3XD	8.80		10	89	47	33	40
MPS2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MPS2-0900-3XD	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
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



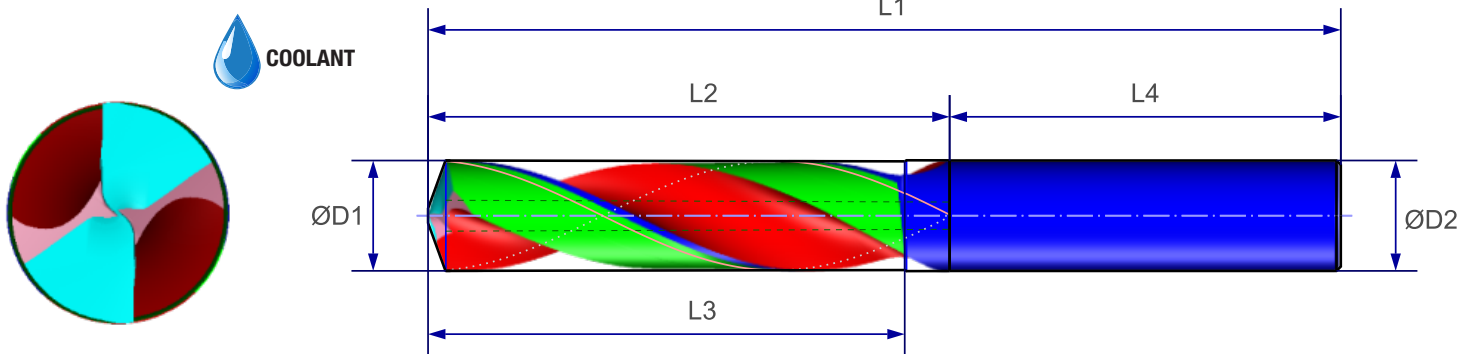
MPS2-1110-3XD	11.10		12	102	55	38	45	
MPS2-1120-3XD	11.20		12	102	55	38	45	
MPS2-1140-3XD	11.40		12	102	55	37	45	
MPS2-1150-3XD	11.50		12	102	55	37	45	
MPS2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45	
MPS2-1170-3XD	11.70		12	102	55	37	45	
MPS2-1180-3XD	11.80		12	102	55	37	45	
MPS2-1190-3XD	11.90		12	102	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	
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	



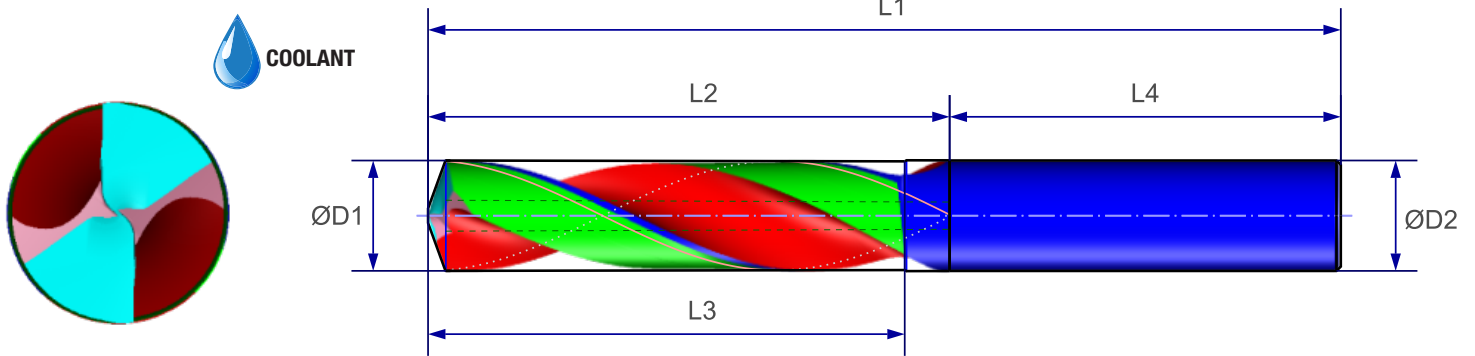
MPS2-1480-3XD	14.80		16	115	65	42	48
MPS2-1500-3XD	15.00		16	115	65	42	48
MPS2-1510-3XD	15.10		16	115	65	42	48
MPS2-1520-3XD	15.20		16	115	65	42	48
MPS2-1530-3XD	15.30		16	115	65	42	48
MPS2-1540-3XD	15.40		16	115	65	41	48
MPS2-1550-3XD	15.50		16	115	65	41	48
MPS2-1560-3XD	15.60		16	115	65	41	48
MPS2-1570-3XD	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
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



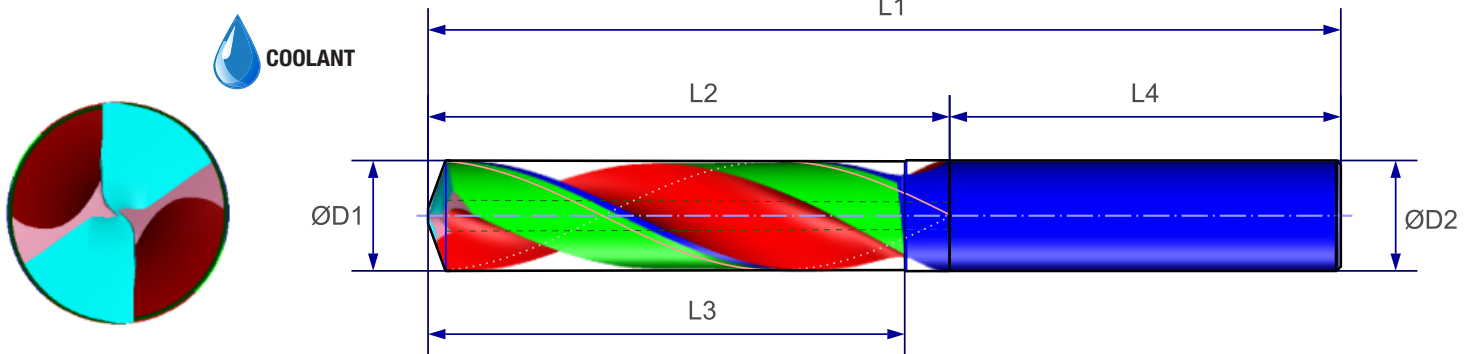
DESCRIPTION EXAMPLE... M=METRIC, P=STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -3XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL mm	L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0300-3XD	3.00		6	62		20	15	36
MPC2-0310-3XD	3.10		6	62		20	15	36
MPC2-0320-3XD	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



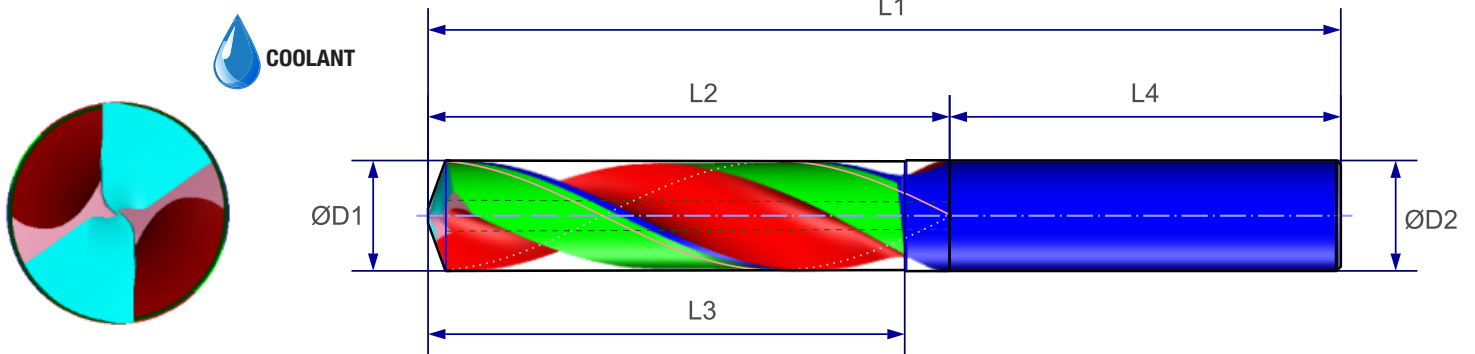
MPC2-0540-3XD	5.40		6	66	28	19	36	
MPC2-0550-3XD	5.50		6	66	28	19	36	
MPC2-0560-3XD	5.60		6	66	28	19	36	
MPC2-0570-3XD	5.70		6	66	28	19	36	
MPC2-0580-3XD	5.80		6	66	28	19	36	
MPC2-0590-3XD	5.90		6	66	28	19	36	
MPC2-0600-3XD	6.00		8	79	34	25	36	
MPC2-0610-3XD	6.10		8	79	34	24	36	
MPC2-0620-3XD	6.20		8	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	
MPC2-0760-3XD	7.60		8	79	41	29	36	
MPC2-0770-3XD	7.70		8	79	41	29	36	
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	
MPC2-0820-3XD	8.20		10	89	47	34	40	



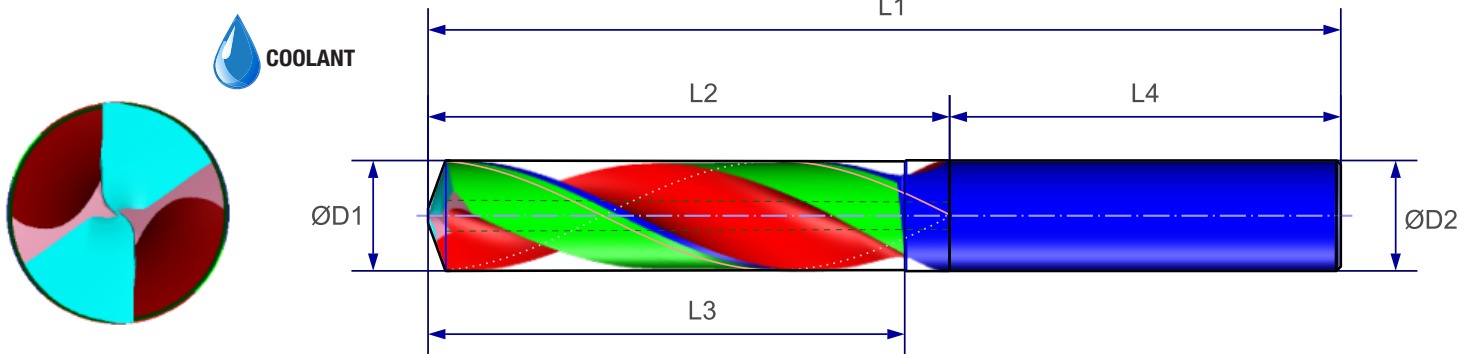
MPC2-0830-3XD	8.30		10	89	47	34	40
MPC2-0840-3XD	8.40		10	89	47	34	40
MPC2-0850-3XD	8.50		10	89	47	34	40
MPC2-0860-3XD	8.60	M10 X 1.5	10	89	47	34	40
MPC2-0870-3XD	8.70		10	89	47	33	40
MPC2-0880-3XD	8.80		10	89	47	33	40
MPC2-0890-3XD	8.90	MMCF10x1.25	10	89	47	33	40
MPC2-0900-3XD	9.00		10	89	47	33	40
MPC2-0910-3XD	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
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



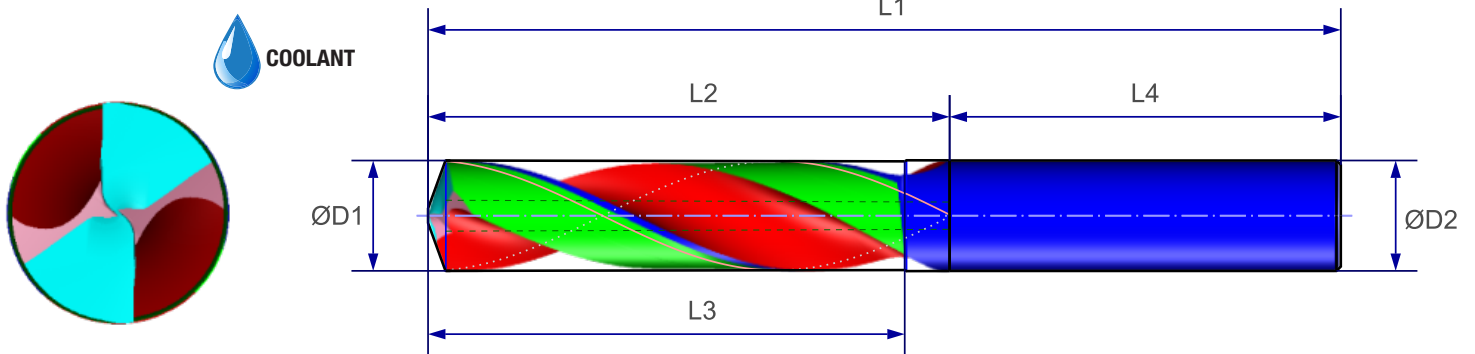
MPC2-1110-3XD	11.10		12	102	55	38	45	
MPC2-1120-3XD	11.20		12	102	55	38	45	
MPC2-1140-3XD	11.40		12	102	55	37	45	
MPC2-1150-3XD	11.50		12	102	55	37	45	
MPC2-1160-3XD	11.60	1/2-20 UNF	12	102	55	37	45	
MPC2-1170-3XD	11.70		12	102	55	37	45	
MPC2-1180-3XD	11.80		12	102	55	37	45	
MPC2-1190-3XD	11.90		12	102	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	
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	



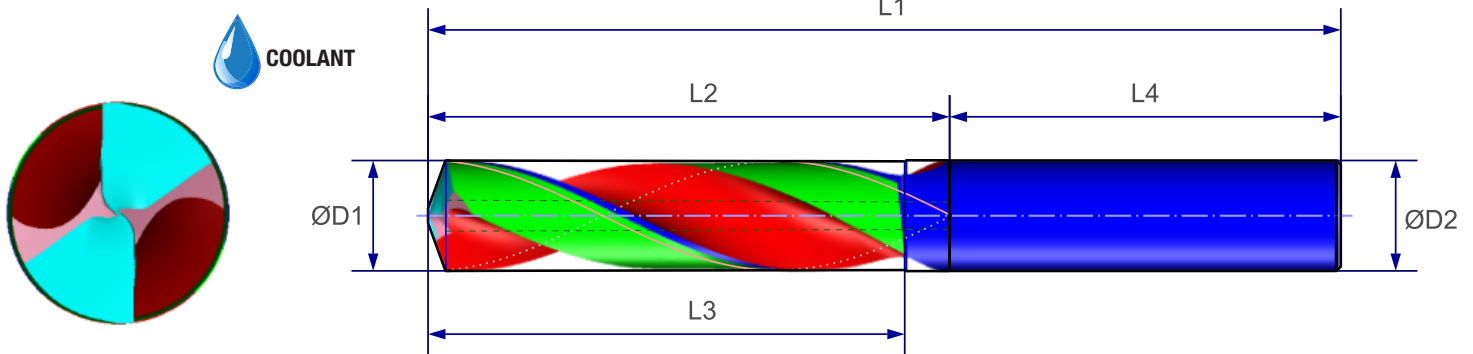
MPC2-1460-3XD	14.60	M16 X 1.5	16	115	65	43	48
MPC2-1480-3XD	14.80		16	115	65	42	48
MPC2-1500-3XD	15.00		16	115	65	42	48
MPC2-1510-3XD	15.10		16	115	65	42	48
MPC2-1520-3XD	15.20		16	115	65	42	48
MPC2-1530-3XD	15.30		16	115	65	42	48
MPC2-1540-3XD	15.40		16	115	65	41	48
MPC2-1550-3XD	15.50		16	115	65	41	48
MPC2-1560-3XD	15.60		16	115	65	41	48
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



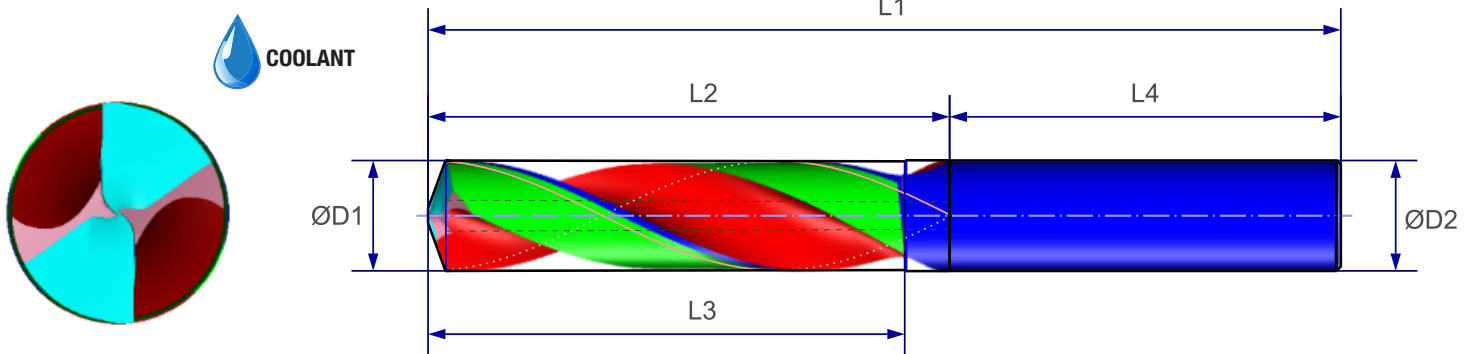
DESCRIPTION EX-AMPLE... I=INCH P=STEEL C=Coolant 2=FLUTES 125=DIA, 5XD=Flute Length	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-1250-5XD	.125	1/8	6	2.598	1.102	0.915	1.417
IPC2-1406-5XD	.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



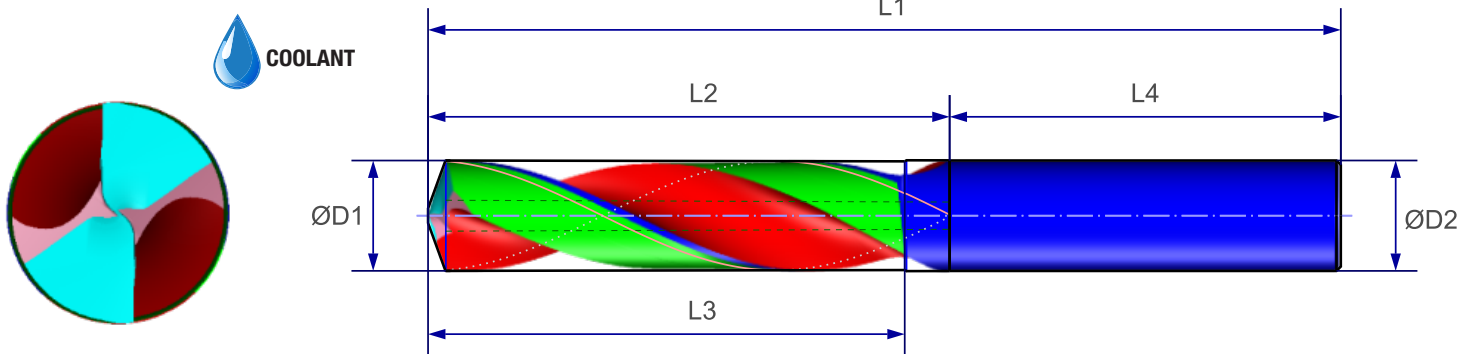
IPC2-3906-5XD	.391	25/64	10	4.055	2.402	1.816	1.575
IPC2-3940-5XD	.394	7/16-20 UNF	12	4.646	2.795	2.204	1.772
IPC2-4063-5XD	.406	13/32	12	4.646	2.795	2.186	1.772
IPC2-4210-5XD	.421	MF12x1.5	12	4.646	2.795	2.164	1.772
IPC2-4375-5XD	.438	7/16	12	4.646	2.795	2.139	1.772
IPC2-4531-5XD	.453	29/64	12	4.646	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



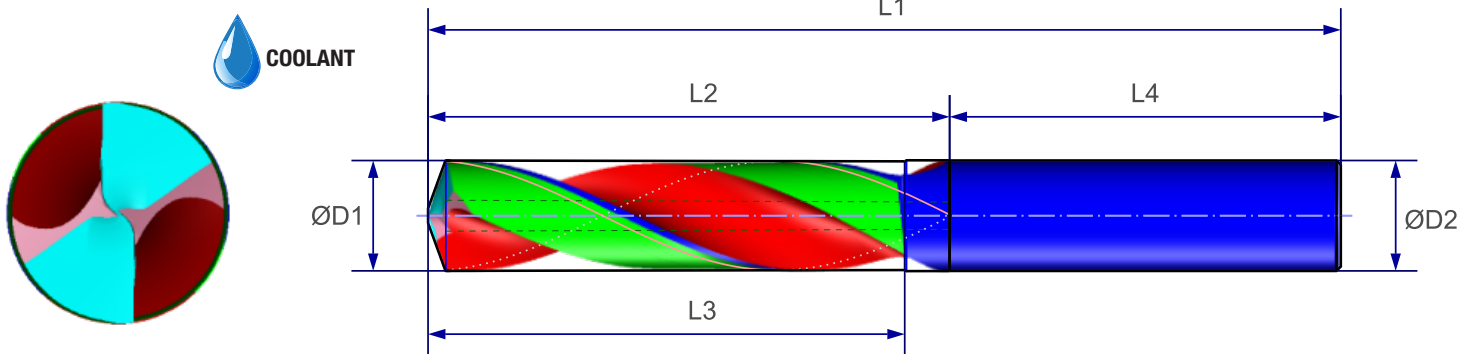
DESCRIPTION EXAM- PLE...M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -5XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL mm L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm	
MPC2-0300-5XD	3.00		6	66	28	23	36	
MPC2-0310-5XD	3.10		6	66	28	23	36	
MPC2-0320-5XD	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	



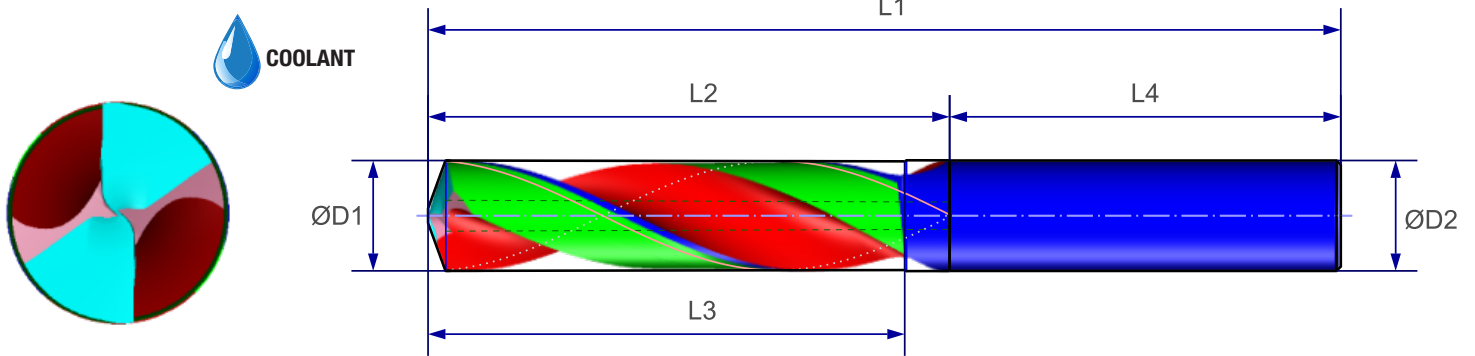
MPC2-0550-5XD	5.50		6	82	44	35	36
MPC2-0560-5XD	5.60		6	82	44	35	36
MPC2-0570-5XD	5.70		6	82	44	35	36
MPC2-0580-5XD	5.80		6	82	44	35	36
MPC2-0590-5XD	5.90		6	82	44	35	36
MPC2-0600-5XD	6.00		8	91	53	44	36
MPC2-0610-5XD	6.10		8	91	53	43	36
MPC2-0620-5XD	6.20		8	91	53	43	36
MPC2-0630-5XD	6.30		8	91	53	43	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
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



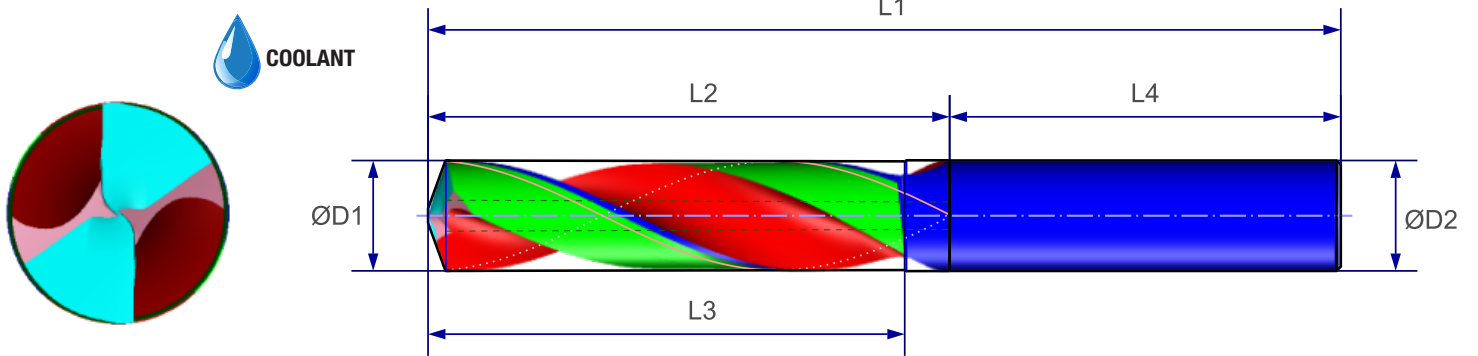
MPC2-0840-5XD	8.40		10	103	61	48	40
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MPC2-0860-5XD	8.60	3/8-24 UNF	10	103	61	48	40
MPC2-0870-5XD	8.70	M10	10	103	61	47	40
MPC2-0880-5XD	8.80		10	103	61	47	40
MPC2-0890-5XD	8.90	MF10x1.25	10	103	61	47	40
MPC2-0900-5XD	9.00		10	103	61	47	40
MPC2-0910-5XD	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
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

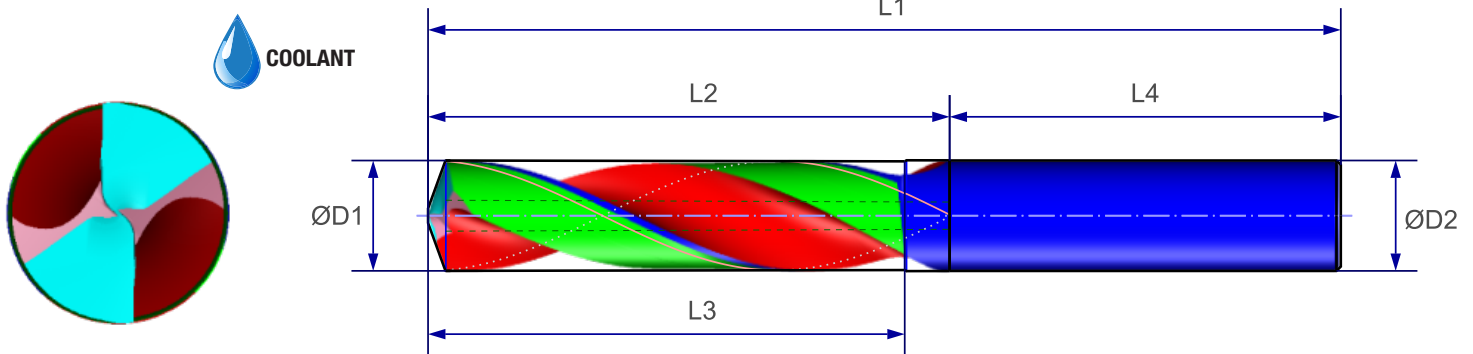


MPC2-1150-5XD	11.50		12	118	71	53	45	
MPC2-1160-5XD	11.60	1/2-20 UNF	12	118	71	53	45	
MPC2-1170-5XD	11.70		12	118	71	53	45	
MPC2-1180-5XD	11.80		12	118	71	53	45	
MPC2-1190-5XD	11.90		12	118	71	53	45	
MPC2-1200-5XD	12.00		14	124	77	59	45	
MPC2-1210-5XD	12.10		14	124	77	58	45	
MPC2-1220-5XD	12.20		14	124	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	
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	

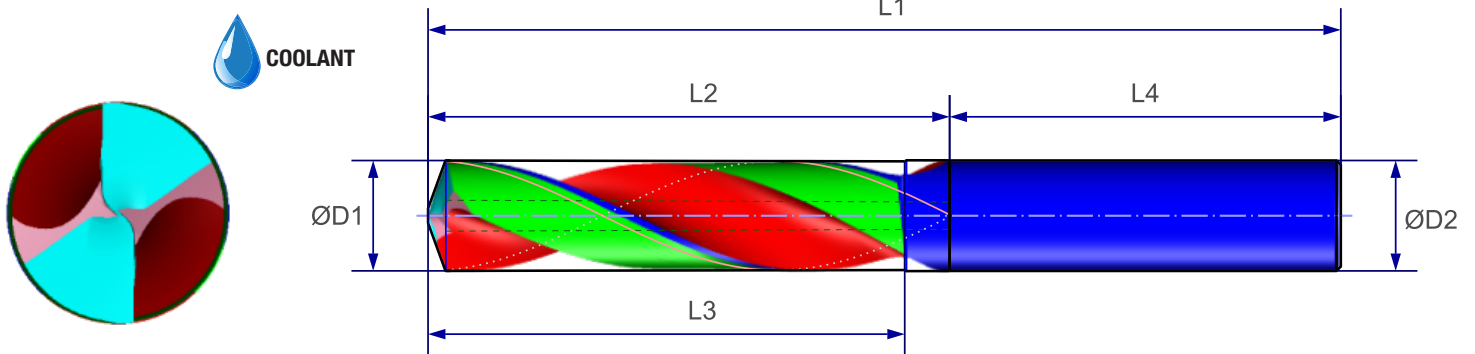


MPC2-1510-5XD	15.10		16	133	83	60	48	
MPC2-1520-5XD	15.20		16	133	83	60	48	
MPC2-1530-5XD	15.30		16	133	83	60	48	
MPC2-1540-5XD	15.40		16	133	83	59	48	
MPC2-1550-5XD	15.50		16	133	83	59	48	
MPC2-1560-5XD	15.60		16	133	83	59	48	
MPC2-1570-5XD	15.70		16	133	83	59	48	
MPC2-1580-5XD	15.80		16	133	83	59	48	
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	
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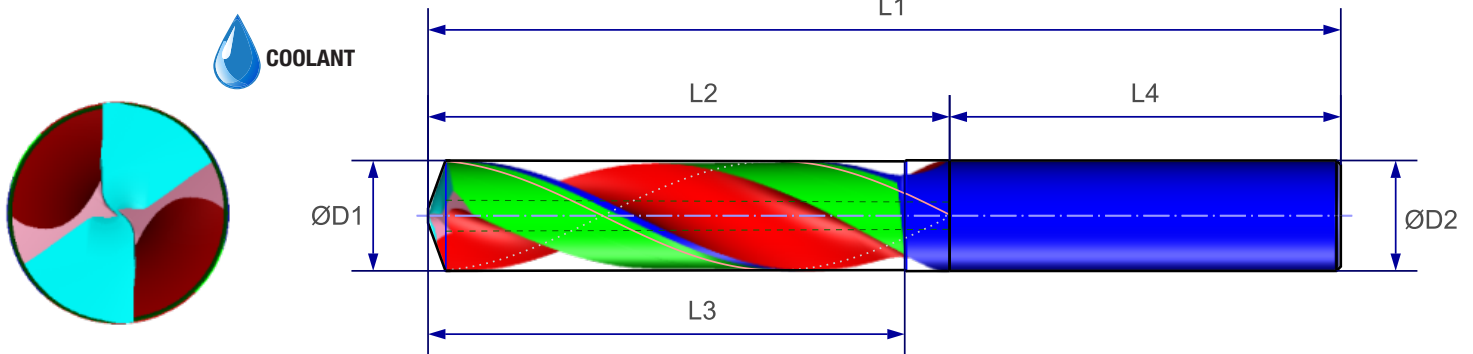




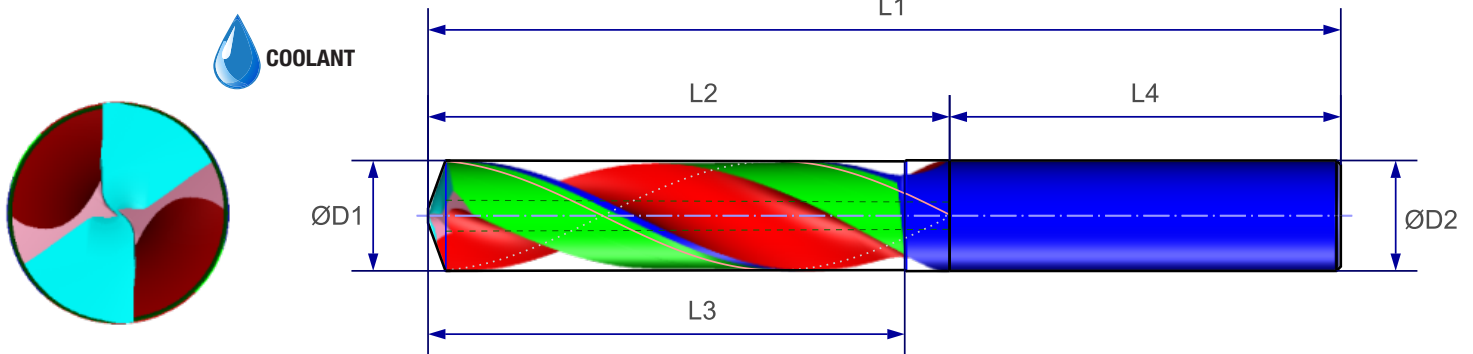
DESCRIPTION EX-AMPLE...l=INCH P= STEEL C= Coolant 2=FLUTES 125=DIA, 7XD=FLUTE LENGTH	DRILL DIAMETER D1 inch m7	DRILLS FRACTIONAL & FOR THREADS	SHANK DIAMETER D2 metric	OAL L1 inch	FLUTE LENGTH L2 inch	DRILLING DEPTH L3 inch	SHANK LENGTH L4 inch
IPC2-1250-7XD	.125	1/8	6	2.756	1.181	0.994	1.417
IPC2-1406-7XD	.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



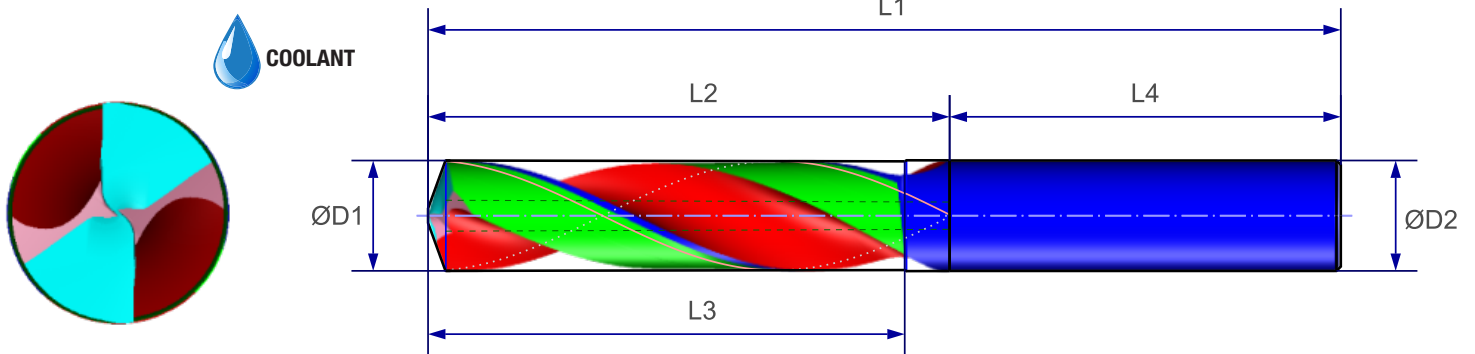
IPC2-3906-7XD	.391	25/64	10	5.472	3.740	3.154	1.575	
IPC2-3940-7XD	.394	7/16-20 UNF	12	6.102	4.173	3.582	1.772	
IPC2-4063-7XD	.406	13/32	12	6.102	4.173	3.564	1.772	
IPC2-4210-7XD	.421	MF12x1.5	12	6.102	4.173	3.542	1.772	
IPC2-4375-7XD	.438	7/16	12	6.417	4.488	3.832	1.772	
IPC2-4531-7XD	.453	29/64	12	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	



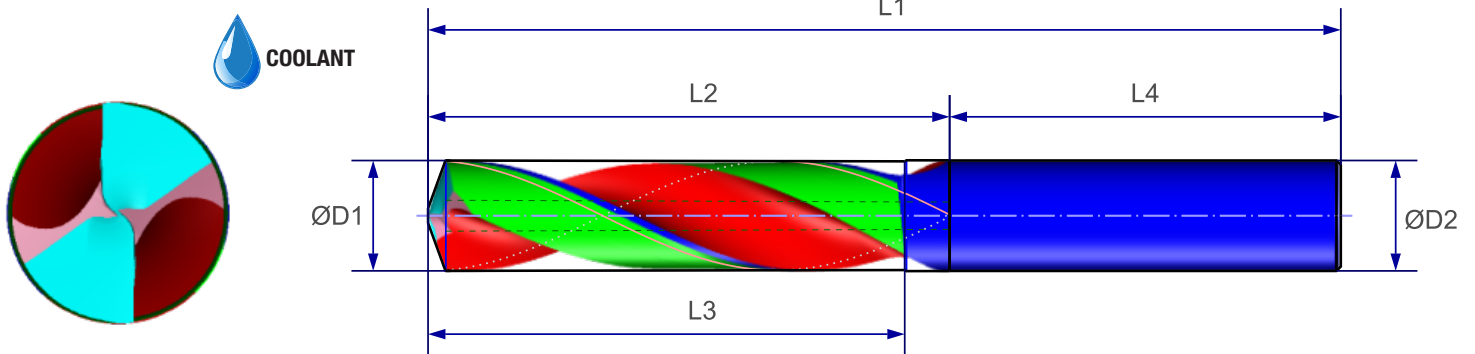
DESCRIPTION EXAM- PLE...M=METRIC, P= STEEL, C=COOLANT 2=FLUTES 3=Metric DIA, -7XD=FLUTE LENGTH	DRILL DIAMETER D1 mm m7	DRILLS FOR THREADS	SHANK DIAMETER D2	OAL mm L1	FLUTE LENGTH L2 mm	DRILLING DEPTH L3 mm	SHANK LENGTH L4 mm
MPC2-0300-7XD	3.00		6	70	30	25	36
MPC2-0310-7XD	3.10		6	70	30	25	36
MPC2-0320-7XD	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



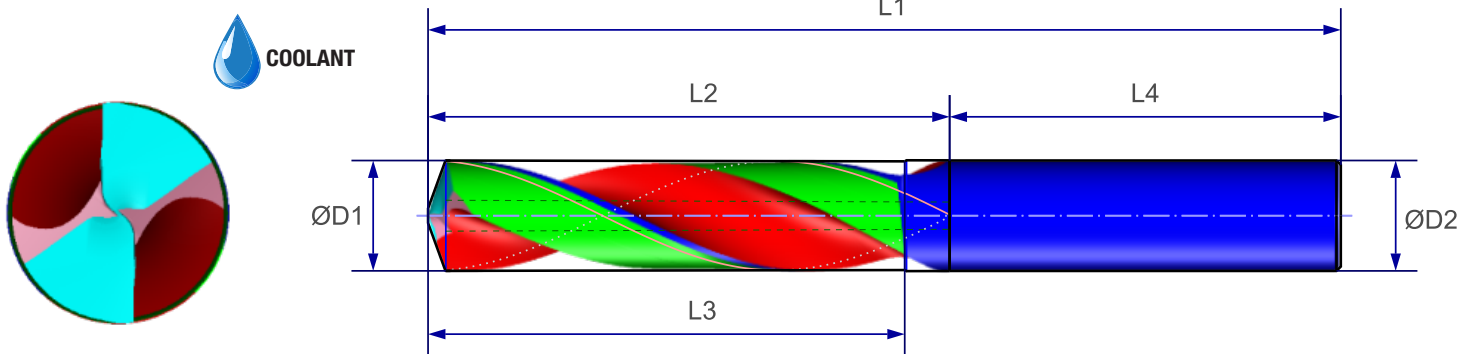
MPC2-0550-7XD	5.50		6	97	57	48	36	
MPC2-0560-7XD	5.60		6	97	57	48	36	
MPC2-0570-7XD	5.70		6	97	57	48	36	
MPC2-0580-7XD	5.80		6	97	57	48	36	
MPC2-0590-7XD	5.90		6	97	57	48	36	
MPC2-0600-7XD	6.00		8	106	66	57	36	
MPC2-0610-7XD	6.10		8	106	66	56	36	
MPC2-0620-7XD	6.20		8	106	66	56	36	
MPC2-0630-7XD	6.30		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	
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	



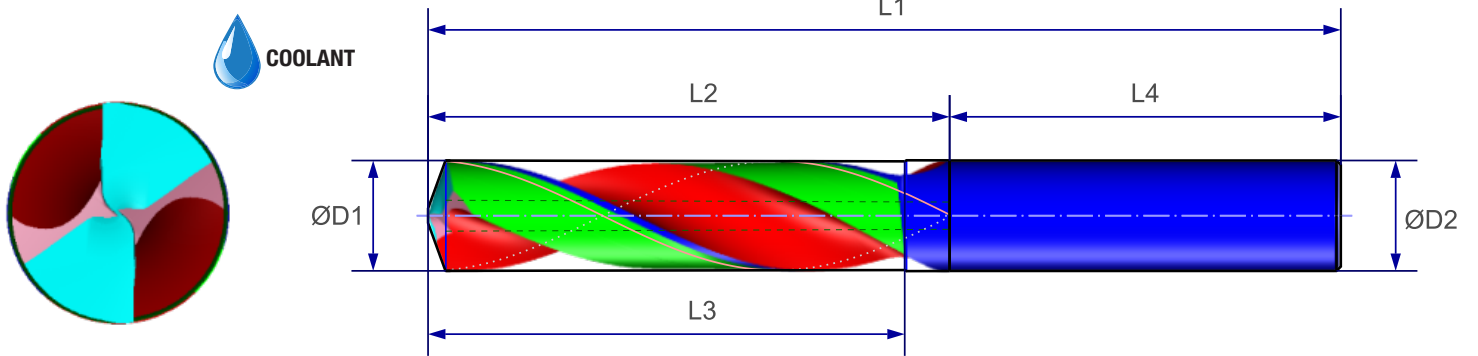
MPC2-0840-7XD	8.40		10	131	87	74	40
MPC2-0850-7XD	8.50		10	131	87	74	40
MPC2-0860-7XD	8.60	3/8-24 UNF	10	131	87	74	40
MPC2-0870-7XD	8.70	M10	10	131	87	73	40
MPC2-0880-7XD	8.80		10	131	87	73	40
MPC2-0890-7XD	8.90	MF10x1.25	10	131	87	73	40
MPC2-0900-7XD	9.00		10	131	87	73	40
MPC2-0910-7XD	9.10		10	139	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
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

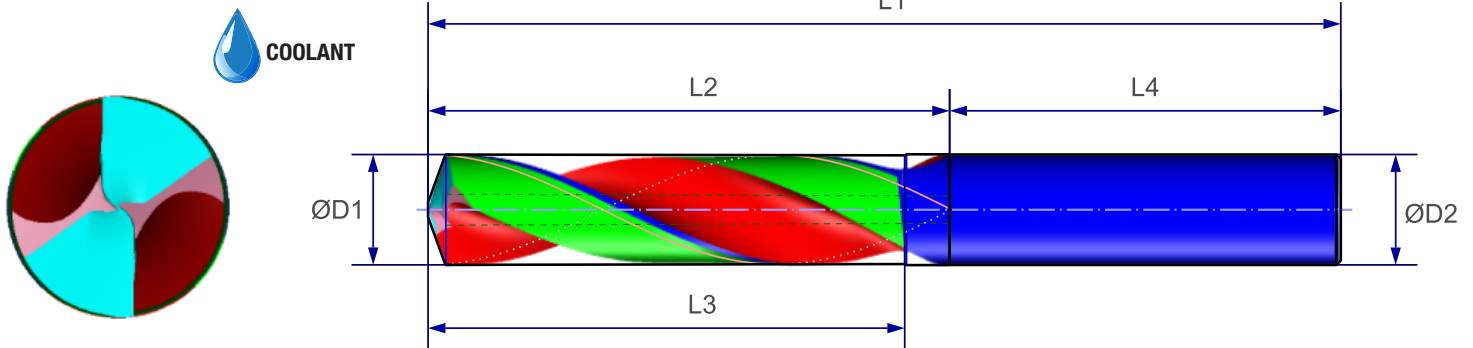


MPC2-1140-7XD	11.40		12	163	114	96	45	
MPC2-1150-7XD	11.50		12	163	114	96	45	
MPC2-1160-7XD	11.60	1/2-20 UNF	12	163	114	96	45	
MPC2-1170-7XD	11.70		12	163	114	96	45	
MPC2-1180-7XD	11.80		12	163	114	96	45	
MPC2-1190-7XD	11.90		12	163	114	96	45	
MPC2-1200-7XD	12.00		14	182	133	115	45	
MPC2-1210-7XD	12.10		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	
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	
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	

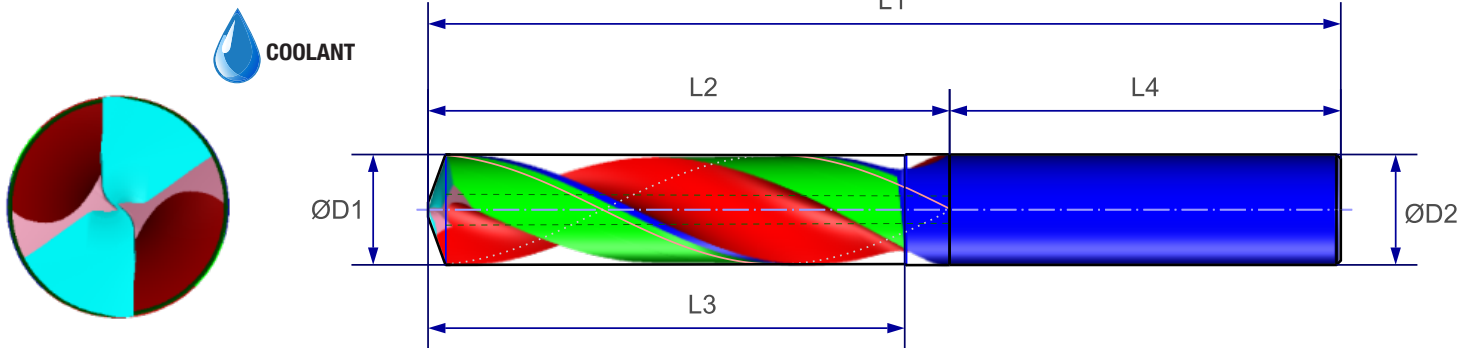




DESCRIPTION EXAMPLE...	DRILL DIAMETER D1		SHANK DIAMETER	OAL	STEP LENGTH	SHANK LENGTH L4	POINT LENGTH	
M=METRIC, GP= GENERAL PURPOSE, SD=STEP DRILL, C=COOLANT, 2=FLUTES, 03734=METRIC DIA, 3XD=FLUTE LENGTH	metric	inch	metric	metric	metric	metric	metric	
MPSDC2-03734-3XD	3.734	0.147	6	66	10	36	0.7	
MPSDC2-04200-3XD	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	

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	16	36	0.7
MPSDLC2-04200-4XD	4.200	0.165	6	66	17	36	0.8
MPSDLC2-04496-4XD	4.496	0.177	8	79	17	36	0.9
MPSDLC2-05000-4XD	5.000	0.197	8	79	20	36	0.9
MPSDLC2-05106-4XD	5.106	0.201	8	79	20	36	1.0
MPSDLC2-05410-4XD	5.410	0.213	8	79	21	36	1.0
MPSDLC2-06528-4XD	6.528	0.257	10	89	24	40	1.2
MPSDLC2-06800-4XD	6.800	0.268	10	89	25	40	1.3
MPSDLC2-06909-4XD	6.909	0.272	10	89	25	40	1.3
MPSDLC2-07938-4XD	7.938	0.313	12	102	27	45	1.5
MPSDLC2-08433-4XD	8.433	0.332	12	102	29	45	1.6
MPSDLC2-08500-4XD	8.500	0.335	12	102	30	45	1.6
MPSDLC2-09921-4XD	9.921	0.391	14	107	33	45	1.9
MPSDLC2-10200-4XD	10.200	0.402	14	107	35	45	1.9
MPSDLC2-10500-4XD	10.500	0.413	14	107	35	45	2.0
MPSDLC2-10716-4XD	10.716	0.422	14	107	37	45	2.0
MPSDLC2-12000-4XD	12.000	0.472	16	115	40	48	2.2
MPSDLC2-12304-4XD	12.304	0.484	16	115	41	48	2.3
MPSDLC2-12500-4XD	12.500	0.492	16	115	40	48	2.3
MPSDLC2-13096-4XD	13.096	0.516	16	123	44	48	2.4
MPSDLC2-13495-4XD	13.495	0.531	18	123	45	48	2.5
MPSDLC2-14000-4XD	14.000	0.551	18	123	43	48	2.6
MPSDLC2-16670-4XD	16.670	0.656	20	141	55	50	3.1

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												