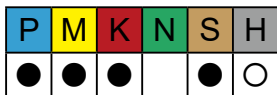
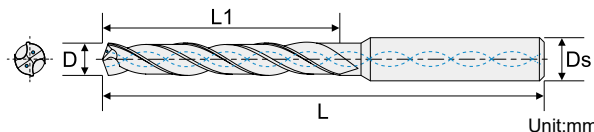


## DPC - for Universal · Internal Coolant · 3D 高性能內冷鑽頭 · 3倍深



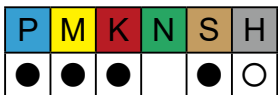
- 3×D Cutting Depth
- 140° SX Tip
- Double Margin
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



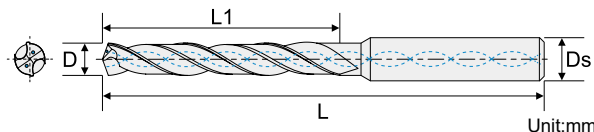
Order No.	D	L1	L	Ds
DPC30140031UX	1.40	8	50	3
DPC30150031UX	1.50	10	50	3
DPC30160031UX	1.60	10	50	3
DPC30170031UX	1.70	10	50	3
DPC30180031UX	1.80	12	50	3
DPC30190031UX	1.90	12	50	3
DPC30200031UX	2.00	12	50	3
DPC30210031UX	2.10	12	50	3
DPC30220031UX	2.20	12	50	3
DPC30230031UX	2.30	14	50	3
DPC30240031UX	2.40	14	50	3
DPC30250031UX	2.50	16	50	3
DPC30260031UX	2.60	16	50	3
DPC30270031UX	2.70	16	50	3
DPC30280031UX	2.80	16	50	3
DPC30290031UX	2.90	16	50	3
DPC30300031UX	3.00	16	50	3
DPC30300034UX	3.00	20	60	4
DPC30310034UX	3.10	20	60	4
DPC30317034UX	3.17(1/8")	20	60	4
DPC30320034UX	3.20	20	60	4
DPC30330034UX	3.30	20	60	4
DPC30340034UX	3.40	20	60	4
DPC30350034UX	3.50	20	60	4
DPC30360034UX	3.60	20	60	4
DPC30370034UX	3.70	20	60	4
DPC30380034UX	3.80	24	60	4
DPC30390034UX	3.90	24	60	4
DPC30400030UX	4.00	24	66	6
DPC30410030UX	4.10	24	66	6
DPC30420030UX	4.20	24	66	6
DPC30430030UX	4.30	24	66	6
DPC30440030UX	4.40	24	66	6
DPC30450030UX	4.50	24	66	6
DPC30460030UX	4.60	24	66	6
DPC30465030UX	4.65(13/71")	24	66	6
DPC30470030UX	4.70	24	66	6
DPC30476030UX	4.76(3/16")	28	66	6
DPC30480030UX	4.80	28	66	6
DPC30490030UX	4.90	28	66	6
DPC30500030UX	5.00	28	66	6
DPC30510030UX	5.10	28	66	6
DPC30520030UX	5.20	28	66	6
DPC30530030UX	5.30	28	66	6
DPC30540030UX	5.40	28	66	6
DPC30550030UX	5.50	28	66	6
DPC30556030UX	5.56	28	66	6
DPC30560030UX	5.60	28	66	6

Order No.	D	L1	L	Ds
DPC30570030UX	5.70	28	66	6
DPC30580030UX	5.80	28	66	6
DPC30590030UX	5.90	28	66	6
DPC30600030UX	6.00	28	66	6
DPC30610030UX	6.10	34	79	8
DPC30620030UX	6.20	34	79	8
DPC30630030UX	6.30	34	79	8
DPC30635030UX	6.35(1/4")	34	79	8
DPC30640030UX	6.40	34	79	8
DPC30650030UX	6.50	34	79	8
DPC30660030UX	6.60	34	79	8
DPC30670030UX	6.70	34	79	8
DPC30680030UX	6.80	34	79	8
DPC30690030UX	6.90	34	79	8
DPC30700030UX	7.00	34	79	8
DPC30710030UX	7.10	41	79	8
DPC30720030UX	7.20	41	79	8
DPC30730030UX	7.30	41	79	8
DPC30740030UX	7.40	41	79	8
DPC30750030UX	7.50	41	79	8
DPC30760030UX	7.60	41	79	8
DPC30770030UX	7.70	41	79	8
DPC30780030UX	7.80	41	79	8
DPC30790030UX	7.90	41	79	8
DPC30794030UX	7.94(5/16)	41	79	8
DPC30800030UX	8.00	41	79	8
DPC30810030UX	8.10	47	89	10
DPC30820030UX	8.20	47	89	10
DPC30830030UX	8.30	47	89	10
DPC30840030UX	8.40	47	89	10
DPC30850030UX	8.50	47	89	10
DPC30860030UX	8.60	47	89	10
DPC30870030UX	8.70	47	89	10
DPC30880030UX	8.80	47	89	10
DPC30890030UX	8.90	47	89	10
DPC30900030UX	9.00	47	89	10
DPC30910030UX	9.10	47	89	10
DPC30920030UX	9.20	47	89	10
DPC30925030UX	9.25(23/64")	47	89	10
DPC30930030UX	9.30	47	89	10
DPC30940030UX	9.40	47	89	10
DPC30950030UX	9.50	47	89	10
DPC30952030UX	9.52(3/8")	47	89	10
DPC30960030UX	9.60	47	89	10
DPC30970030UX	9.70	47	89	10
DPC30980030UX	9.80	47	89	10
DPC30990030UX	9.90	47	89	10
DPC31000030UX	10.00	47	89	10

**DPC - for Universal · Internal Coolant · 3D** 高效能內冷鑽頭 · 3倍深



- 3×D Cutting Depth
- New UNIX Smooth Coating
- Similar DIN6537
- 140° SX Tip
- D tolerance : h8
- Double Margin
- Ds tolerance : h6



Order No.	D	L1	L	Ds
DPC31010030UX	10.10	55	102	12
DPC31020030UX	10.20	55	102	12
DPC31030030UX	10.30	55	102	12
DPC31040030UX	10.40	55	102	12
DPC31050030UX	10.50	55	102	12
DPC31060030UX	10.60	55	102	12
DPC31070030UX	10.70	55	102	12
DPC31080030UX	10.80	55	102	12
DPC31090030UX	10.90	55	102	12
DPC31100030UX	11.00	55	102	12
DPC31110030UX	11.10	55	102	12
DPC31111030UX	11.11(7/16")	55	102	12
DPC31120030UX	11.20	55	102	12
DPC31130030UX	11.30	55	102	12
DPC31140030UX	11.40	55	102	12
DPC31150030UX	11.50	55	102	12
DPC31160030UX	11.60	55	102	12
DPC31170030UX	11.70	55	102	12
DPC31180030UX	11.80	55	102	12
DPC31190030UX	11.90	55	102	12
DPC31200030UX	12.00	55	102	12
DPC31210030UX	12.10	60	107	14
DPC31220030UX	12.20	60	107	14
DPC31230030UX	12.30	60	107	14
DPC31240030UX	12.40	60	107	14
DPC31250030UX	12.50	60	107	14
DPC31260030UX	12.60	60	107	14
DPC31270030UX	12.70(1/2")	60	107	14
DPC31280030UX	12.80	60	107	14
DPC31290030UX	12.90	60	107	14
DPC31300030UX	13.00	60	107	14
DPC31320030UX	13.20	60	107	14
DPC31330030UX	13.30	60	107	14
DPC31350030UX	13.50	60	107	14
DPC31370030UX	13.70	60	107	14
DPC31380030UX	13.80	60	107	14
DPC31400030UX	14.00	60	107	14
DPC31420030UX	14.20	65	115	16
DPC31429030UX	14.29(9/16")	65	115	16
DPC31430030UX	14.30	65	115	16
DPC31440030UX	14.40	65	115	16
DPC31450030UX	14.50	65	115	16
DPC31470030UX	14.70	65	115	16
DPC31500030UX	15.00	65	115	16
DPC31520030UX	15.20	65	115	16
DPC31550030UX	15.50	65	115	16
DPC31560030UX	15.60	65	115	16
DPC31570030UX	15.70	65	115	16

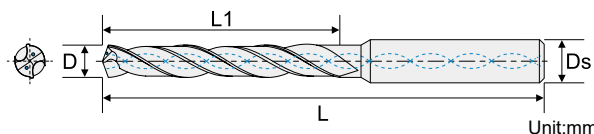
Order No.	D	L1	L	Ds
DPC31580030UX	15.80	65	115	16
DPC31587030UX	15.87(5/8")	65	115	16
DPC31600030UX	16.00	65	115	16
DPC31650030UX	16.50	73	123	18
DPC31700030UX	17.00	73	123	18
DPC31750030UX	17.50	73	123	18
DPC31800030UX	18.00	73	123	18
DPC31850030UX	18.50	79	131	20
DPC31900030UX	19.00	79	131	20
DPC31905030UX	19.05(3/4")	79	131	20
DPC31950030UX	19.50	79	131	20
DPC32000030UX	20.00	79	131	20

Holemaking

**DPC - for Universal · Internal Coolant · 5D** 高性能內冷鑽頭 · 5倍深



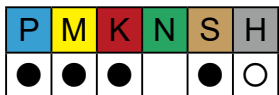
- 5×D Cutting Depth
- 140° SX Tip
- Double Margin
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



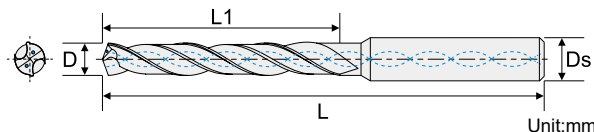
Order No.	D	L1	L	Ds
DPC50140051UX	1.40	10	50	3
DPC50150051UX	1.50	12	50	3
DPC50160051UX	1.60	12	50	3
DPC50170051UX	1.70	12	50	3
DPC50180051UX	1.80	14	50	3
DPC50190051UX	1.90	14	50	3
DPC50200051UX	2.00	14	50	3
DPC50210051UX	2.10	16	50	3
DPC50220051UX	2.20	16	50	3
DPC50230051UX	2.30	18	50	3
DPC50240051UX	2.40	18	50	3
DPC50250051UX	2.50	20	60	3
DPC50260051UX	2.60	20	60	3
DPC50270051UX	2.70	20	60	3
DPC50280051UX	2.80	20	60	3
DPC50290051UX	2.90	22	60	3
DPC50300051UX	3.00	22	60	3
DPC50300054UX	3.00	28	60	4
DPC50310054UX	3.10	28	60	4
DPC50317054UX	3.17(1/8")	28	60	4
DPC50325054UX	3.25	28	60	4
DPC50330054UX	3.30	28	60	4
DPC50340054UX	3.40	28	60	4
DPC50350054UX	3.50	28	60	4
DPC50360054UX	3.60	28	60	4
DPC50370054UX	3.70	28	60	4
DPC50380054UX	3.80	36	74	4
DPC50397054UX	3.97(5/32")	36	74	4
DPC50400050UX	4.00	36	74	6
DPC50410050UX	4.10	36	74	6
DPC50420050UX	4.20	36	74	6
DPC50430050UX	4.30	36	74	6
DPC50440050UX	4.40	36	74	6
DPC50450050UX	4.50	36	74	6
DPC50460050UX	4.60	36	74	6
DPC50465050UX	4.65(13/71")	36	74	6
DPC50470050UX	4.70	36	74	6
DPC50476050UX	4.76(3/16")	44	82	6
DPC50480050UX	4.80	44	82	6
DPC50490050UX	4.90	44	82	6
DPC50500050UX	5.00	44	82	6
DPC50510050UX	5.10	44	82	6
DPC50520050UX	5.20	44	82	6
DPC50530050UX	5.30	44	82	6
DPC50540050UX	5.40	44	82	6
DPC50550050UX	5.50	44	82	6
DPC50555050UX	5.55(7/32")	44	82	6
DPC50560050UX	5.60	44	82	6

Order No.	D	L1	L	Ds
DPC50570050UX	5.70	44	82	6
DPC50580050UX	5.80	44	82	6
DPC50590050UX	5.90	44	82	6
DPC50600050UX	6.00	44	82	6
DPC50610050UX	6.10	53	91	8
DPC50620050UX	6.20	53	91	8
DPC50630050UX	6.30	53	91	8
DPC50635050UX	6.35(1/4")	53	91	8
DPC50640050UX	6.40	53	91	8
DPC50650050UX	6.50	53	91	8
DPC50660050UX	6.60	53	91	8
DPC50670050UX	6.70	53	91	8
DPC50680050UX	6.80	53	91	8
DPC50690050UX	6.90	53	91	8
DPC50700050UX	7.00	53	91	8
DPC50710050UX	7.10	53	91	8
DPC50720050UX	7.20	53	91	8
DPC50730050UX	7.30	53	91	8
DPC50740050UX	7.40	53	91	8
DPC50750050UX	7.50	53	91	8
DPC50760050UX	7.60	53	91	8
DPC50770050UX	7.70	53	91	8
DPC50780050UX	7.80	53	91	8
DPC50790050UX	7.90	53	91	8
DPC50794050UX	7.94(5/16")	53	91	8
DPC50800050UX	8.00	53	91	8
DPC50810050UX	8.10	61	103	10
DPC50820050UX	8.20	61	103	10
DPC50830050UX	8.30	61	103	10
DPC50840050UX	8.40	61	103	10
DPC50850050UX	8.50	61	103	10
DPC50860050UX	8.60	61	103	10
DPC50870050UX	8.70	61	103	10
DPC50880050UX	8.80	61	103	10
DPC50890050UX	8.90	61	103	10
DPC50900050UX	9.00	61	103	10
DPC50910050UX	9.10	61	103	10
DPC50920050UX	9.20	61	103	10
DPC50925050UX	9.25(23/64")	61	103	10
DPC50930050UX	9.30	61	103	10
DPC50940050UX	9.40	61	103	10
DPC50950050UX	9.50	61	103	10
DPC50952050UX	9.52(3/8")	61	103	10
DPC50960050UX	9.60	61	103	10
DPC50970050UX	9.70	61	103	10
DPC50980050UX	9.80	61	103	10
DPC50990050UX	9.90	61	103	10
DPC51000050UX	10.00	61	103	10

**DPC - for Universal · Internal Coolant · 5D** 高效能內冷鑽頭 · 5倍深



- 5×D Cutting Depth
- 140° SX Tip
- Double Margin
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



Order No.	D	L1	L	Ds
DPC51010050UX	10.10	71	118	12
DPC51020050UX	10.20	71	118	12
DPC51030050UX	10.30	71	118	12
DPC51040050UX	10.40	71	118	12
DPC51050050UX	10.50	71	118	12
DPC51060050UX	10.60	71	118	12
DPC51070050UX	10.70	71	118	12
DPC51080050UX	10.80	71	118	12
DPC51090050UX	10.90	71	118	12
DPC51100050UX	11.00	71	118	12
DPC51110050UX	11.10	71	118	12
DPC51111050UX	11.11(7/16")	71	118	12
DPC51120050UX	11.20	71	118	12
DPC51130050UX	11.30	71	118	12
DPC51140050UX	11.40	71	118	12
DPC51150050UX	11.50	71	118	12
DPC51160050UX	11.60	71	118	12
DPC51170050UX	11.70	71	118	12
DPC51180050UX	11.80	71	118	12
DPC51190050UX	11.90	71	118	12
DPC51200050UX	12.00	71	118	12
DPC51210050UX	12.10	77	124	14
DPC51220050UX	12.20	77	124	14
DPC51230050UX	12.30	77	124	14
DPC51240050UX	12.40	77	124	14
DPC51250050UX	12.50	77	124	14
DPC51260050UX	12.60	77	124	14
DPC51270050UX	12.70(1/2")	77	124	14
DPC51280050UX	12.80	77	124	14
DPC51290050UX	12.90	77	124	14
DPC51300050UX	13.00	77	124	14
DPC51310050UX	13.10	77	124	14
DPC51330050UX	13.30	77	124	14
DPC51340050UX	13.40	77	124	14
DPC51350050UX	13.50	77	124	14
DPC51360050UX	13.60	77	124	14
DPC51370050UX	13.70	77	124	14
DPC51380050UX	13.80	77	124	14
DPC51390050UX	13.90	77	124	14
DPC51400050UX	14.00	77	124	14
DPC51410050UX	14.10	83	133	16
DPC51420050UX	14.20	83	133	16
DPC51429050UX	14.29(9/16")	83	133	16
DPC51430050UX	14.30	83	133	16
DPC51440050UX	14.40	83	133	16
DPC51450050UX	14.50	83	133	16
DPC51460050UX	14.60	83	133	16
DPC51470050UX	14.70	83	133	16

Order No.	D	L1	L	Ds
DPC51480050UX	14.80	83	133	16
DPC51490050UX	14.90	83	133	16
DPC51500050UX	15.00	83	133	16
DPC51510050UX	15.10	83	133	16
DPC51520050UX	15.20	83	133	16
DPC51530050UX	15.30	83	133	16
DPC51540050UX	15.40	83	133	16
DPC51550050UX	15.50	83	133	16
DPC51560050UX	15.60	83	133	16
DPC51570050UX	15.70	83	133	16
DPC51580050UX	15.80	83	133	16
DPC51587050UX	15.87(5/8")	83	133	16
DPC51590050UX	15.90	83	133	16
DPC51600050UX	16.00	83	133	16
DPC51650050UX	16.50	93	143	18
DPC51700050UX	17.00	93	143	18
DPC51750050UX	17.50	93	143	18
DPC51800050UX	18.00	93	143	18
DPC52000050UX	20.00	101	153	20

Holemaking

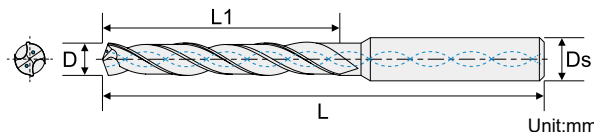
**DPC - for Universal · Internal Coolant · 7D** 高效能內冷鑽頭 · 7 倍深



- 7×D Cutting Depth
- 140° SX Tip
- Double Margin
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



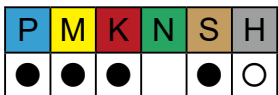
\* Made to order



Order No.	D	L1	L	Ds
DPC70400070UX	4.00	40	80	6
DPC70410070UX	4.10	40	80	6
DPC70420070UX	4.20	40	80	6
DPC70430070UX	4.30	45	80	6
DPC70440070UX	4.40	45	80	6
DPC70450070UX	4.50	45	80	6
DPC70460070UX	4.60	45	80	6
DPC70465070UX	4.65(13/71")	45	80	6
DPC70470070UX	4.70	45	80	6
DPC70480070UX	4.80	50	97	6
DPC70490070UX	4.90	50	97	6
DPC70500070UX	5.00	50	97	6
DPC70510070UX	5.10	50	97	6
DPC70520070UX	5.20	50	97	6
DPC70530070UX	5.30	50	97	6
DPC70540070UX	5.40	57	97	6
DPC70550070UX	5.50	57	97	6
DPC70570070UX	5.70	57	97	6
DPC70580070UX	5.80	57	97	6
DPC70590070UX	5.90	57	97	6
DPC70600070UX	6.00	57	97	6
DPC70620070UX	6.20	66	106	8
DPC70630070UX	6.30	66	106	8
DPC70635070UX	6.35(1/4")	66	106	8
DPC70650070UX	6.50	66	106	8
DPC70660070UX	6.60	66	106	8
DPC70670070UX	6.70	66	106	8
DPC70680070UX	6.80	66	106	8
DPC70690070UX	6.90	76	116	8
DPC70700070UX	7.00	76	116	8
DPC70710070UX	7.10	76	116	8
DPC70720070UX	7.20	76	116	8
DPC70750070UX	7.50	76	116	8
DPC70760070UX	7.60	76	116	8
DPC70770070UX	7.70	76	116	8
DPC70780070UX	7.80	76	116	8
DPC70800070UX	8.00	76	116	8
DPC70810070UX	8.10	87	131	10
DPC70820070UX	8.20	87	131	10
DPC70840070UX	8.40	87	131	10
DPC70850070UX	8.50	87	131	10
DPC70860070UX	8.60	87	131	10
DPC70870070UX	8.70	87	131	10
DPC70880070UX	8.80	87	131	10
DPC70890070UX	8.90	87	131	10
DPC70900070UX	9.00	95	139	10
DPC70910070UX	9.10	95	139	10
DPC70920070UX	9.20	95	139	10

Order No.	D	L1	L	Ds
DPC70930070UX	9.30	95	139	10
DPC70940070UX	9.40	95	139	10
DPC70950070UX	9.50	95	139	10
DPC70952070UX	9.52	95	139	10
DPC70970070UX	9.70	95	139	10
DPC70980070UX	9.80	95	139	10
DPC71000070UX	10.00	95	139	10
DPC71020070UX	10.20	106	155	12
DPC71030070UX	10.30	106	155	12
DPC71050070UX	10.50	106	155	12
DPC71072070UX	10.72(27/64")	106	155	12
DPC71080070UX	10.80	106	155	12
DPC71100070UX	11.00	106	155	12
DPC71120070UX	11.20	114	155	12
DPC71150070UX	11.50	114	155	12
DPC71180070UX	11.80	114	155	12
DPC71200070UX	12.00	114	155	12
DPC71210070UX	12.10	133	182	14
DPC71220070UX	12.20	133	182	14
DPC71230070UX	12.30	133	182	14
DPC71250070UX	12.50	133	182	14
DPC71270070UX	12.70	133	182	14
DPC71300070UX	13.00	133	182	14
DPC71350070UX	13.50	133	182	14
DPC71400070UX	14.00	133	182	14
DPC71410070UX	14.10	152	200	16
DPC71420070UX	14.20	152	200	16
DPC71450070UX	14.50	152	200	16
DPC71500070UX	15.00	152	200	16
DPC71550070UX	15.50	152	200	16
DPC71587070UX	15.87	152	200	16
DPC71600070UX	16.00	152	200	16

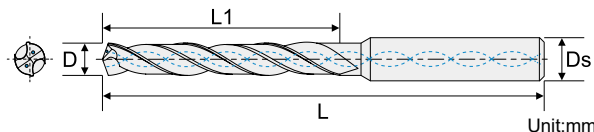
DPC - for Universal · Internal Coolant · 10D 高效能內冷鑽頭 · 10倍深



- 10×D Cutting Depth
  - 135° SX Tip
  - Double Margin
  - New UNIX Smooth Coating
  - D tolerance : h8
  - Ds tolerance : h6
- ※Require an initial pilot hole to guide the drill.



\* Made to order



Unit:mm

Order No.	D	L1	L	Ds
DPC90300100UX	3.00	48	100	4
DPC90350100UX	3.50	48	100	4
DPC90400100UX	4.00	48	100	4
DPC90450100UX	4.50	72	125	6
DPC90500100UX	5.00	72	125	6
DPC90550100UX	5.50	72	125	6
DPC90600100UX	6.00	72	125	6
DPC90650100UX	6.50	96	150	8
DPC90700100UX	7.00	96	150	8
DPC90750100UX	7.50	96	150	8
DPC90800100UX	8.00	96	150	8
DPC90850100UX	8.50	120	175	10
DPC90900100UX	9.00	120	175	10
DPC90950100UX	9.50	120	175	10
DPC91000100UX	10.00	120	175	10
DPC91100100UX	11.00	132	200	12
DPC91200100UX	12.00	144	200	12

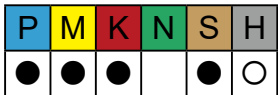
Order No.	D	L1	L	Ds

Holemaking



DPC - for Universal · Internal Coolant · 20D

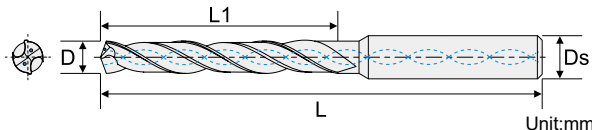
高效率內冷鑽頭 · 20 倍深



- 20×D Cutting Depth
  - 135° SX Tip
  - Double Margin
  - New UNIX Smooth Coating
  - D tolerance : h8
  - Ds tolerance : h6
- ※Require an initial pilot hole to guide the drill.



\* Made to order

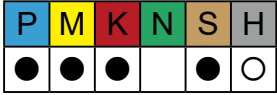


Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPC90300200UX	3.00	70	110	4					
DPC90350200UX	3.50	83	123	4					
DPC90400200UX	4.00	96	136	4					
DPC90450200UX	4.50	118	158	6					
DPC90500200UX	5.00	118	158	6					
DPC90550200UX	5.50	140	180	6					
DPC90600200UX	6.00	140	180	6					
DPC90650200UX	6.50	162	202	8					
DPC90700200UX	7.00	162	202	8					
DPC90750200UX	7.50	183	223	8					
DPC90800200UX	8.00	183	223	8					
DPC90850200UX	8.50	205	249	10					
DPC90900200UX	9.00	205	249	10					
DPC90950200UX	9.50	227	271	10					
DPC91000200UX	10.00	227	271	10					



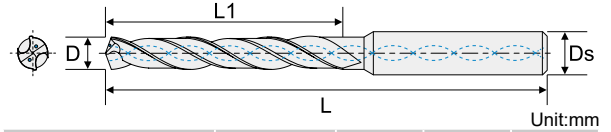
DPC - for Universal · Internal Coolant · 30D 高效能內冷鑽頭 · 30倍深



- 30×D Cutting Depth
  - 135° SX Tip
  - Double Margin
  - New UNIX Smooth Coating
  - D tolerance : h8
  - Ds tolerance : h6
- ※Require an initial pilot hole to guide the drill.



\* Made to order

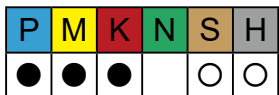


Unit:mm

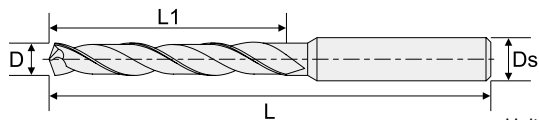
Order No.	D	L1	L	Ds
DPC90300300UX	3.00	100	140	4
DPC90350300UX	3.50	136	176	4
DPC90400300UX	4.00	136	176	4
DPC90450300UX	4.50	168	208	6
DPC90500300UX	5.00	168	208	6
DPC90550300UX	5.50	200	240	6
DPC90600300UX	6.00	200	240	6

Order No.	D	L1	L	Ds

**DPN - for Universal · External Coolant · 3D** 高效能外冷鑽頭 · 3倍深



- 3×D Cutting Depth
- SX Tip design, Tip Angle (D < 3 : 130°, D ≥ 3 : 140°)
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



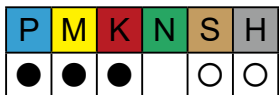
Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPN30030033UX	0.30	2	38	3	DPN30350030UX	3.50	20	62	6
DPN30050033UX	0.50	3	38	3	DPN30360030UX	3.60	20	62	6
DPN30060033UX	0.60	3	38	3	DPN30370030UX	3.70	20	62	6
DPN30070033UX	0.70	3	38	3	DPN30380030UX	3.80	24	66	6
DPN30080033UX	0.80	4	38	3	DPN30390030UX	3.90	24	66	6
DPN30090033UX	0.90	4	38	3	DPN30397030UX	3.97(5/32")	24	66	6
DPN30100033UX	1.00	4	38	3	DPN30400030UX	4.00	24	66	6
DPN30110033UX	1.10	6	38	3	DPN30410030UX	4.10	24	66	6
DPN30120033UX	1.20	6	38	3	DPN30420030UX	4.20	24	66	6
DPN30130033UX	1.30	6	38	3	DPN30430030UX	4.30	24	66	6
DPN30140033UX	1.40	6	38	3	DPN30440030UX	4.40	24	66	6
DPN30150033UX	1.50	6	38	3	DPN30450030UX	4.50	24	66	6
DPN30160033UX	1.60	8	38	3	DPN30460030UX	4.60	24	66	6
DPN30170033UX	1.70	8	38	3	DPN30465030UX	4.65(13/71")	24	66	6
DPN30180033UX	1.80	10	50	3	DPN30470030UX	4.70	24	66	6
DPN30190033UX	1.90	10	50	3	DPN30476030UX	4.76(3/16")	28	66	6
DPN30200033UX	2.00	10	50	3	DPN30480030UX	4.80	28	66	6
DPN30210033UX	2.10	12	50	3	DPN30490030UX	4.90	28	66	6
DPN30220033UX	2.20	12	50	3	DPN30500030UX	5.00	28	66	6
DPN30230033UX	2.30	12	50	3	DPN30510030UX	5.10	28	66	6
DPN30240033UX	2.40	12	50	3	DPN30520030UX	5.20	28	66	6
DPN30250033UX	2.50	16	50	3	DPN30530030UX	5.30	28	66	6
DPN30260033UX	2.60	16	50	3	DPN30540030UX	5.40	28	66	6
DPN30270033UX	2.70	16	50	3	DPN30550030UX	5.50	28	66	6
DPN30280033UX	2.80	16	50	3	DPN30556030UX	5.56(7/32")	28	66	6
DPN30290033UX	2.90	16	50	3	DPN30560030UX	5.60	28	66	6
DPN30300034UX	3.00	20	60	4	DPN30570030UX	5.70	28	66	6
DPN30310034UX	3.10	20	60	4	DPN30580030UX	5.80	28	66	6
DPN30317034UX	3.17(1/8")	20	60	4	DPN30590030UX	5.90	28	66	6
DPN30320034UX	3.20	20	60	4	DPN30600030UX	6.00	28	66	6
DPN30325034UX	3.25(5/39")	20	60	4	DPN30610030UX	6.10	34	79	8
DPN30330034UX	3.30	20	60	4	DPN30620030UX	6.20	34	79	8
DPN30340034UX	3.40	20	60	4	DPN30630030UX	6.30	34	79	8
DPN30350034UX	3.50	20	60	4	DPN30635030UX	6.35(1/4")	34	79	8
DPN30360034UX	3.60	20	60	4	DPN30640030UX	6.40	34	79	8
DPN30370034UX	3.70	20	60	4	DPN30650030UX	6.50	34	79	8
DPN30380034UX	3.80	24	60	4	DPN30660030UX	6.60	34	79	8
DPN30390034UX	3.90	24	60	4	DPN30670030UX	6.70	34	79	8
DPN30397034UX	3.97(5/32")	24	60	4	DPN30680030UX	6.80	34	79	8
DPN30400034UX	4.00	24	60	4	DPN30690030UX	6.90	34	79	8
DPN30300030UX	3.00	20	62	6	DPN30700030UX	7.00	34	79	8
DPN30310030UX	3.10	20	62	6	DPN30710030UX	7.10	41	79	8
DPN30317030UX	3.17(1/8")	20	62	6	DPN30720030UX	7.20	41	79	8
DPN30320030UX	3.20	20	62	6	DPN30730030UX	7.30	41	79	8
DPN30323030UX	3.23	20	62	6	DPN30740030UX	7.40	41	79	8
DPN30325030UX	3.25(5/39")	20	62	6	DPN30750030UX	7.50	41	79	8
DPN30330030UX	3.30	20	62	6	DPN30760030UX	7.60	41	79	8
DPN30340030UX	3.40	20	62	6	DPN30770030UX	7.70	41	79	8

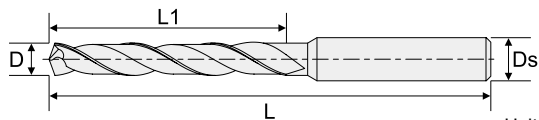
Cutting conditions : Page C040

Holemaking

DPN - for Universal · External Coolant · 3D 高效能外冷鑽頭 · 3倍深



- 3×D Cutting Depth
- 140° SX Tip
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



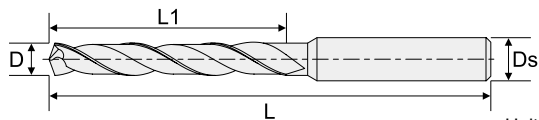
Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPN30780030UX	7.80	41	79	8	DPN31220030UX	12.20	60	107	14
DPN30790030UX	7.90	41	79	8	DPN31230030UX	12.30	60	107	14
DPN30794030UX	7.94(5/16")	41	79	8	DPN31240030UX	12.40	60	107	14
DPN30800030UX	8.00	41	79	8	DPN31250030UX	12.50	60	107	14
DPN30810030UX	8.10	47	89	10	DPN31260030UX	12.60	60	107	14
DPN30820030UX	8.20	47	89	10	DPN31270030UX	12.70(1/2")	60	107	14
DPN30830030UX	8.30	47	89	10	DPN31280030UX	12.80	60	107	14
DPN30840030UX	8.40	47	89	10	DPN31290030UX	12.90	60	107	14
DPN30850030UX	8.50	47	89	10	DPN31300030UX	13.00	60	107	14
DPN30860030UX	8.60	47	89	10	DPN31320030UX	13.20	60	107	14
DPN30870030UX	8.70	47	89	10	DPN31330030UX	13.30	60	107	14
DPN30880030UX	8.80	47	89	10	DPN31350030UX	13.50	60	107	14
DPN30890030UX	8.90	47	89	10	DPN31370030UX	13.70	60	107	14
DPN30900030UX	9.00	47	89	10	DPN31380030UX	13.80	60	107	14
DPN30910030UX	9.10	47	89	10	DPN31400030UX	14.00	60	107	14
DPN30920030UX	9.20	47	89	10	DPN31420030UX	14.20	65	115	16
DPN30925030UX	9.25(23/64")	47	89	10	DPN31429030UX	14.29(9/16")	65	115	16
DPN30930030UX	9.30	47	89	10	DPN31430030UX	14.30	65	115	16
DPN30940030UX	9.40	47	89	10	DPN31440030UX	14.40	65	115	16
DPN30950030UX	9.50	47	89	10	DPN31450030UX	14.50	65	115	16
DPN30952030UX	9.52(3/8")	47	89	10	DPN31470030UX	14.70	65	115	16
DPN30960030UX	9.60	47	89	10	DPN31500030UX	15.00	65	115	16
DPN30970030UX	9.70	47	89	10	DPN31520030UX	15.20	65	115	16
DPN30980030UX	9.80	47	89	10	DPN31550030UX	15.50	65	115	16
DPN30990030UX	9.90	47	89	10	DPN31560030UX	15.60	65	115	16
DPN31000030UX	10.00	47	89	10	DPN31570030UX	15.70	65	115	16
DPN31010030UX	10.10	55	102	12	DPN31580030UX	15.80	65	115	16
DPN31020030UX	10.20	55	102	12	DPN31587030UX	15.87(5/8")	65	115	16
DPN31030030UX	10.30	55	102	12	DPN31600030UX	16.00	65	115	16
DPN31040030UX	10.40	55	102	12	DPN31650030UX	16.50	73	123	18
DPN31050030UX	10.50	55	102	12	DPN31700030UX	17.00	73	123	18
DPN31060030UX	10.60	55	102	12	DPN31750030UX	17.50	73	123	18
DPN31070030UX	10.70	55	102	12	DPN31800030UX	18.00	73	123	18
DPN31080030UX	10.80	55	102	12	DPN31850030UX	18.50	79	131	20
DPN31090030UX	10.90	55	102	12	DPN31900030UX	19.00	79	131	20
DPN31100030UX	11.00	55	102	12	DPN31905030UX	19.05(3/4")	79	131	20
DPN31110030UX	11.10	55	102	12	DPN31950030UX	19.50	79	131	20
DPN31111030UX	11.11(7/16")	55	102	12	DPN32000030UX	20.00	79	131	20
DPN31120030UX	11.20	55	102	12					
DPN31130030UX	11.30	55	102	12					
DPN31140030UX	11.40	55	102	12					
DPN31150030UX	11.50	55	102	12					
DPN31160030UX	11.60	55	102	12					
DPN31170030UX	11.70	55	102	12					
DPN31180030UX	11.80	55	102	12					
DPN31190030UX	11.90	55	102	12					
DPN31200030UX	12.00	55	102	12					
DPN31210030UX	12.10	60	107	14					

**DPN - for Universal · External Coolant · 5D** 高效能外冷鑽頭 · 5倍深



- 5×D Cutting Depth
- 140° SX Tip
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537

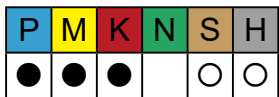


Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPN50300050UX	3.00	28	66	6	DPN50710050UX	7.10	53	91	8
DPN50317050UX	3.17(1/8")	28	66	6	DPN50720050UX	7.20	53	91	8
DPN50325050UX	3.25	28	66	6	DPN50730050UX	7.30	53	91	8
DPN50330050UX	3.30	28	66	6	DPN50740050UX	7.40	53	91	8
DPN50340050UX	3.40	28	66	6	DPN50750050UX	7.50	53	91	8
DPN50350050UX	3.50	28	66	6	DPN50760050UX	7.60	53	91	8
DPN50357050UX	3.57	28	66	6	DPN50770050UX	7.70	53	91	8
DPN50360050UX	3.60	28	66	6	DPN50780050UX	7.80	53	91	8
DPN50370050UX	3.70	28	66	6	DPN50790050UX	7.90	53	91	8
DPN50380050UX	3.80	36	74	6	DPN50794050UX	7.94(5/16")	53	91	8
DPN50390050UX	3.90	36	74	6	DPN50800050UX	8.00	53	91	8
DPN50397050UX	3.97(5/32")	36	74	6	DPN50810050UX	8.10	61	103	10
DPN50400050UX	4.00	36	74	6	DPN50820050UX	8.20	61	103	10
DPN50410050UX	4.10	36	74	6	DPN50830050UX	8.30	61	103	10
DPN50420050UX	4.20	36	74	6	DPN50840050UX	8.40	61	103	10
DPN50430050UX	4.30	36	74	6	DPN50850050UX	8.50	61	103	10
DPN50440050UX	4.40	36	74	6	DPN50860050UX	8.60	61	103	10
DPN50450050UX	4.50	36	74	6	DPN50870050UX	8.70	61	103	10
DPN50460050UX	4.60	36	74	6	DPN50880050UX	8.80	61	103	10
DPN50465050UX	4.65(13/71")	36	74	6	DPN50890050UX	8.90	61	103	10
DPN50470050UX	4.70	36	74	6	DPN50900050UX	9.00	61	103	10
DPN50476050UX	4.76(3/16")	44	82	6	DPN50910050UX	9.10	61	103	10
DPN50480050UX	4.80	44	82	6	DPN50920050UX	9.20	61	103	10
DPN50490050UX	4.90	44	82	6	DPN50925050UX	9.25(23/64")	61	103	10
DPN50500050UX	5.00	44	82	6	DPN50930050UX	9.30	61	103	10
DPN50510050UX	5.10	44	82	6	DPN50940050UX	9.40	61	103	10
DPN50520050UX	5.20	44	82	6	DPN50950050UX	9.50	61	103	10
DPN50530050UX	5.30	44	82	6	DPN50952050UX	9.52(3/8")	61	103	10
DPN50540050UX	5.40	44	82	6	DPN50960050UX	9.60	61	103	10
DPN50550050UX	5.50	44	82	6	DPN50970050UX	9.70	61	103	10
DPN50555050UX	5.55	44	82	6	DPN50980050UX	9.80	61	103	10
DPN50556050UX	5.56(7/32")	44	82	6	DPN50990050UX	9.90	61	103	10
DPN50560050UX	5.60	44	82	6	DPN51000050UX	10.00	61	103	10
DPN50570050UX	5.70	44	82	6	DPN51010050UX	10.10	71	118	12
DPN50580050UX	5.80	44	82	6	DPN51020050UX	10.20	71	118	12
DPN50590050UX	5.90	44	82	6	DPN51030050UX	10.30	71	118	12
DPN50600050UX	6.00	44	82	6	DPN51040050UX	10.40	71	118	12
DPN50610050UX	6.10	53	91	8	DPN51050050UX	10.50	71	118	12
DPN50620050UX	6.20	53	91	8	DPN51060050UX	10.60	71	118	12
DPN50630050UX	6.30	53	91	8	DPN51070050UX	10.70	71	118	12
DPN50635050UX	6.35(1/4")	53	91	8	DPN51080050UX	10.80	71	118	12
DPN50640050UX	6.40	53	91	8	DPN51090050UX	10.90	71	118	12
DPN50650050UX	6.50	53	91	8	DPN51100050UX	11.00	71	118	12
DPN50660050UX	6.60	53	91	8	DPN51110050UX	11.10	71	118	12
DPN50670050UX	6.70	53	91	8	DPN5111050UX	11.11(7/16")	71	118	12
DPN50680050UX	6.80	53	91	8	DPN51120050UX	11.20	71	118	12
DPN50690050UX	6.90	53	91	8	DPN51130050UX	11.30	71	118	12
DPN50700050UX	7.00	53	91	8	DPN51140050UX	11.40	71	118	12

## DPN - for Universal · External Coolant · 5D

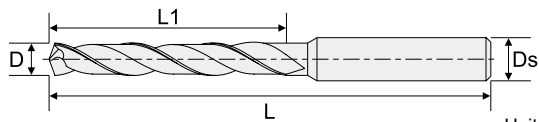
高效能外冷鑽頭 · 5倍深



- 5×D Cutting Depth
- D tolerance : h8

- 140° SX Tip
- Ds tolerance : h6

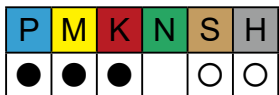
- New UNIX Smooth Coating
- Similar DIN6537



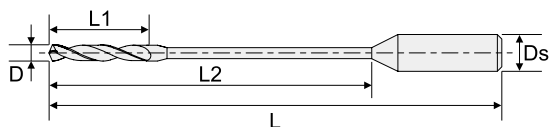
Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPN51150050UX	11.50	71	118	12	DPN51700050UX	17.00	93	143	18
DPN51160050UX	11.60	71	118	12	DPN51750050UX	17.50	93	143	18
DPN51170050UX	11.70	71	118	12	DPN51800050UX	18.00	93	143	18
DPN51180050UX	11.80	71	118	12	DPN52000050UX	20.00	101	153	20
DPN51190050UX	11.90	71	118	12					
DPN51200050UX	12.00	71	118	12					
DPN51210050UX	12.10	77	124	14					
DPN51220050UX	12.20	77	124	14					
DPN51230050UX	12.30	77	124	14					
DPN51240050UX	12.40	77	124	14					
DPN51250050UX	12.50	77	124	14					
DPN51260050UX	12.60	77	124	14					
DPN51270050UX	12.70(1/2")	77	124	14					
DPN51280050UX	12.80	77	124	14					
DPN51290050UX	12.90	77	124	14					
DPN51300050UX	13.00	77	124	14					
DPN51310050UX	13.10	77	124	14					
DPN51330050UX	13.30	77	124	14					
DPN51340050UX	13.40	77	124	14					
DPN51350050UX	13.50	77	124	14					
DPN51360050UX	13.60	77	124	14					
DPN51370050UX	13.70	77	124	14					
DPN51380050UX	13.80	77	124	14					
DPN51390050UX	13.90	77	124	14					
DPN51400050UX	14.00	77	124	14					
DPN51410050UX	14.10	83	133	16					
DPN51420050UX	14.20	83	133	16					
DPN51429050UX	14.29(9/16")	83	133	16					
DPN51430050UX	14.30	83	133	16					
DPN51440050UX	14.40	83	133	16					
DPN51450050UX	14.50	83	133	16					
DPN51460050UX	14.60	83	133	16					
DPN51470050UX	14.70	83	133	16					
DPN51480050UX	14.80	83	133	16					
DPN51490050UX	14.90	83	133	16					
DPN51500050UX	15.00	83	133	16					
DPN51510050UX	15.10	83	133	16					
DPN51520050UX	15.20	83	133	16					
DPN51530050UX	15.30	83	133	16					
DPN51540050UX	15.40	83	133	16					
DPN51550050UX	15.50	83	133	16					
DPN51560050UX	15.60	83	133	16					
DPN51570050UX	15.70	83	133	16					
DPN51580050UX	15.80	83	133	16					
DPN51587050UX	15.87(5/8")	83	133	16					
DPN51590050UX	15.90	83	133	16					
DPN51600050UX	16.00	83	133	16					
DPN51650050UX	16.50	93	143	18					

**DPN - for Universal · Micro Hole · External Coolant · 10~50D** 微小徑深孔鑽 · 10~50 倍深 (啄鑽專用)



- 10~50D for Peck drilling
- 130° Tip Angle
- UNICO Coating
- D tolerance : h8
- Ds tolerance : h6



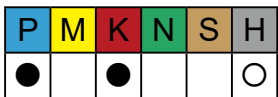
$LD = L2 / D$

Unit:mm

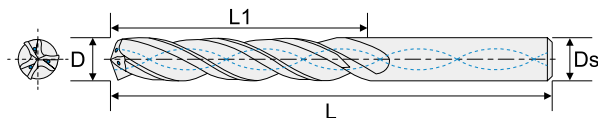
Order No.	D	L1	L2	LD	L	Ds
DPN90010104U	0.10	0.5	1	10	50	4
DPN90010304U	0.10	0.5	3	30	50	4
DPN90010504U	0.10	0.5	5	50	50	4
DPN90015104U	0.15	0.75	1.5	10	50	4
DPN90015304U	0.15	0.75	4.5	30	50	4
DPN90015504U	0.15	0.75	7.5	50	50	4
DPN90020104U	0.20	1	2	10	50	4
DPN90020304U	0.20	1	6	30	50	4
DPN90020504U	0.20	1	10	50	50	4
DPN90030104U	0.30	1.5	3	10	50	4
DPN90030304U	0.30	1.5	9	30	50	4
DPN90030504U	0.30	1.5	15	50	50	4
DPN90040104U	0.40	2	4	10	50	4
DPN90040304U	0.40	2	12	30	50	4
DPN90040504U	0.40	2	20	50	50	4
DPN90050104U	0.50	2.5	5	10	50	4
DPN90050304U	0.50	2.5	15	30	50	4
DPN90050504U	0.50	2.5	25	50	60	4
DPN90060104U	0.60	3	6	10	60	4
DPN90060304U	0.60	3	18	30	60	4
DPN90060504U	0.60	3	30	50	75	4
DPN90070104U	0.70	3.5	7	10	60	4
DPN90070304U	0.70	3.5	21	30	60	4
DPN90070504U	0.70	3.5	35	50	75	4
DPN90080104U	0.80	4	8	10	60	4
DPN90080304U	0.80	4	24	30	75	4
DPN90080504U	0.80	4	40	50	75	4
DPN90090104U	0.90	4.5	9	10	60	4
DPN90090304U	0.90	4.5	27	30	60	4
DPN90090504U	0.90	4.5	45	50	75	4
DPN90100104U	1.00	5	10	10	75	4
DPN90100304U	1.00	5	30	30	75	4
DPN90100504U	1.00	5	50	50	100	4
DPN90110104U	1.10	5.5	11	10	75	4
DPN90110304U	1.10	5.5	33	30	75	4
DPN90110504U	1.10	5.5	55	50	100	4
DPN90120104U	1.20	6	12	10	75	4
DPN90120304U	1.20	6	36	30	75	4
DPN90120504U	1.20	6	60	50	100	4
DPN90130104U	1.30	6.5	13	10	75	4
DPN90130304U	1.30	6.5	39	30	75	4
DPN90130504U	1.30	6.5	65	50	100	4

Holemaking

**DPTC - High Feed · 3F · Internal Coolant** 高進給 3 刃內冷鑽頭 (鋼料及鑄鐵用)



- 3 Flute Design
- New UNIX Smooth Coating
- Similar DIN6537
- 140° SU Tip
- D tolerance : h8
- Double Margin
- Ds tolerance : h6



3D

5D

Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DPTC30600030UX	6.00	28	66	6	DPTC50600050UX	6.00	44	82	6
DPTC30635030UX	6.35(1/4")	34	79	8	DPTC50635050UX	6.35(1/4")	53	91	8
DPTC30650030UX	6.50	34	79	8	DPTC50650050UX	6.50	53	91	8
DPTC30680030UX	6.80	34	79	8	DPTC50680050UX	6.80	53	91	8
DPTC30700030UX	7.00	34	79	8	DPTC50700050UX	7.00	53	91	8
DPTC30794030UX	7.94(5/16)	41	79	8	DPTC50794050UX	7.94(5/16")	53	91	8
DPTC30800030UX	8.00	41	79	8	DPTC50800050UX	8.00	53	91	8
DPTC30850030UX	8.50	47	89	10	DPTC50850050UX	8.50	61	103	10
DPTC30860030UX	8.60	47	89	10	DPTC50860050UX	8.60	61	103	10
DPTC30880030UX	8.80	47	89	10	DPTC50880050UX	8.80	61	103	10
DPTC30900030UX	9.00	47	89	10	DPTC50900050UX	9.00	61	103	10
DPTC30950030UX	9.50	47	89	10	DPTC50950050UX	9.50	61	103	10
DPTC30952030UX	9.52(3/8")	47	89	10	DPTC50952050UX	9.52(3/8")	61	103	10
DPTC31000030UX	10.00	47	89	10	DPTC51000050UX	10.00	61	103	10
DPTC31020030UX	10.20	55	102	12	DPTC51020050UX	10.20	71	118	12
DPTC31030030UX	10.30	55	102	12	DPTC51030050UX	10.30	71	118	12
DPTC31100030UX	11.00	55	102	12	DPTC51100050UX	11.00	71	118	12
DPTC31140030UX	11.40	55	102	12	DPTC51140050UX	11.40	71	118	12
DPTC31150030UX	11.50	55	102	12	DPTC51150050UX	11.50	71	118	12
DPTC31200030UX	12.00	55	102	12	DPTC51200050UX	12.00	71	118	12
DPTC31250030UX	12.50	60	107	14	DPTC51270050UX	12.70(1/2")	77	124	14
DPTC31270030UX	12.70(1/2")	60	107	14	DPTC51250050UX	12.50	77	124	14
DPTC31300030UX	13.00	60	107	14	DPTC51300050UX	13.00	77	124	14
DPTC31400030UX	14.00	60	107	14	DPTC51400050UX	14.00	77	124	14
DPTC31587030UX	15.87(5/8")	65	115	16	DPTC51587050UX	15.87(5/8")	83	133	16
DPTC31600030UX	16.00	65	115	16	DPTC51600050UX	16.00	83	133	16

Recommended Cutting Conditions 建議切削數據

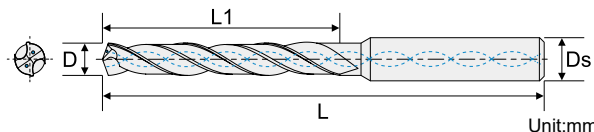
Min. - Suggestion - Max.  
下限 - 推薦 - 上限

Work Material	Vc (m/min)	fr (mm/rev)		Vc (m/min)	fr (mm/rev)		Vc (m/min)	fr (mm/rev)	
		Ø6mm	Ø8mm		Ø10mm	Ø12mm		Ø14mm	Ø16mm
P Carbon Steel 碳鋼 (180 ~ 280HB)	70-90-110	0.18-0.24-0.30	0.24-0.32-0.40	80-100-120	0.30-0.40-0.50	0.36-0.48-0.60	90-110-130	0.42-0.56-0.70	0.48-0.64-0.80
	60-80-100	0.16-0.22-0.27	0.22-0.29-0.36	70-90-110	0.27-0.36-0.45	0.32-0.43-0.54	80-100-120	0.38-0.50-0.63	0.43-0.58-0.72
K Cast Iron 鑄鐵 (< 350Mpa)	70-90-110	0.18-0.24-0.30	0.24-0.32-0.40	80-100-120	0.30-0.40-0.50	0.36-0.48-0.60	90-110-130	0.42-0.56-0.70	0.48-0.64-0.80
	60-80-100	0.16-0.22-0.27	0.22-0.29-0.36	70-90-110	0.27-0.36-0.45	0.32-0.43-0.54	80-100-120	0.38-0.50-0.63	0.43-0.58-0.72

**DMC - for Exotic Material · Internal Coolant · 3D** 高效能內冷鑽頭 ( 鈦及不鏽鋼用 ) · 3 倍深



- 3×D Cutting Depth
- 140° NR Tip
- Double Margin
- New SINIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



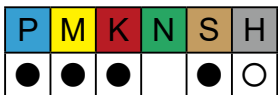
Order No.	D	L1	L	Ds
DMC30390034SX	3.90	24	66	4
DMC30400030SX	4.00	24	66	6
DMC30410030SX	4.10	24	66	6
DMC30420030SX	4.20	24	66	6
DMC30430030SX	4.30	24	66	6
DMC30440030SX	4.40	24	66	6
DMC30450030SX	4.50	24	66	6
DMC30460030SX	4.60	24	66	6
DMC30465030SX	4.65	24	66	6
DMC30470030SX	4.70	24	66	6
DMC30476030SX	4.76(3/16")	24	66	6
DMC30480030SX	4.80	28	66	6
DMC30490030SX	4.90	28	66	6
DMC30500030SX	5.00	28	66	6
DMC30510030SX	5.10	28	66	6
DMC30520030SX	5.20	28	66	6
DMC30530030SX	5.30	28	66	6
DMC30540030SX	5.40	28	66	6
DMC30550030SX	5.50	28	66	6
DMC30556030SX	5.56(7/32")	28	66	6
DMC30560030SX	5.60	28	66	6
DMC30570030SX	5.70	28	66	6
DMC30580030SX	5.80	28	66	6
DMC30590030SX	5.90	28	66	6
DMC30600030SX	6.00	28	66	6
DMC30610030SX	6.10	34	79	8
DMC30620030SX	6.20	34	79	8
DMC30630030SX	6.30	34	79	8
DMC30635030SX	6.35(1/4")	34	79	8
DMC30640030SX	6.40	34	79	8
DMC30650030SX	6.50	34	79	8
DMC30660030SX	6.60	34	79	8
DMC30670030SX	6.70	34	79	8
DMC30680030SX	6.80	34	79	8
DMC30690030SX	6.90	34	79	8
DMC30700030SX	7.00	34	79	8
DMC30710030SX	7.10	41	79	8
DMC30714030SX	7.14(9/32")	41	79	8
DMC30720030SX	7.20	41	79	8
DMC30730030SX	7.30	41	79	8
DMC30740030SX	7.40	41	79	8
DMC30750030SX	7.50	41	79	8
DMC30760030SX	7.60	41	79	8
DMC30770030SX	7.70	41	79	8
DMC30780030SX	7.80	41	79	8
DMC30790030SX	7.90	41	79	8
DMC30794030SX	7.94(5/16")	41	79	8
DMC30800030SX	8.00	41	79	8

Order No.	D	L1	L	Ds
DMC30810030SX	8.10	47	89	10
DMC30820030SX	8.20	47	89	10
DMC30830030SX	8.30	47	89	10
DMC30840030SX	8.40	47	89	10
DMC30850030SX	8.50	47	89	10
DMC30860030SX	8.60	47	89	10
DMC30870030SX	8.70	47	89	10
DMC30880030SX	8.80	47	89	10
DMC30890030SX	8.90	47	89	10
DMC30900030SX	9.00	47	89	10
DMC30910030SX	9.10	47	89	10
DMC30920030SX	9.20	47	89	10
DMC30925030SX	9.25	47	89	10
DMC30930030SX	9.30	47	89	10
DMC30940030SX	9.40	47	89	10
DMC30950030SX	9.50	47	89	10
DMC30952030SX	9.52(3/8")	47	89	10
DMC30960030SX	9.60	47	89	10
DMC30970030SX	9.70	47	89	10
DMC30980030SX	9.80	47	89	10
DMC30990030SX	9.90	47	89	10
DMC31000030SX	10.00	47	89	10
DMC31020030SX	10.20	55	102	12
DMC31050030SX	10.50	55	102	12
DMC31070030SX	10.70	55	102	12
DMC31100030SX	11.00	55	102	12
DMC31120030SX	11.20	55	102	12
DMC31150030SX	11.50	55	102	12
DMC31170030SX	11.70	55	102	12
DMC31200030SX	12.00	55	102	12
DMC31250030SX	12.50	60	107	14
DMC31270030SX	12.70(1/2")	60	107	14
DMC31300030SX	13.00	60	107	14
DMC31350030SX	13.50	60	107	14
DMC31370030SX	13.70	60	107	14
DMC31400030SX	14.00	60	107	14
DMC31450030SX	14.50	65	115	16
DMC31470030SX	14.70	65	115	16
DMC31500030SX	15.00	65	115	16
DMC31550030SX	15.50	65	115	16
DMC31570030SX	15.70	65	115	16
DMC31600030SX	16.00	65	115	16
DMC31800030SX	18.00	73	123	18
DMC31900030SX	19.00	79	131	20
DMC32000030SX	20.00	79	131	20

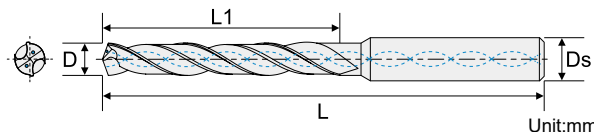
Holemaking



**DMC - for Exotic Material · Internal Coolant · 5D** 高效能內冷鑽頭 ( 鈦及不鏽鋼用 ) · 5 倍深



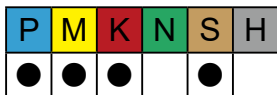
- 5×D Cutting Depth
- 140° NR Tip
- Double Margin
- New SINIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



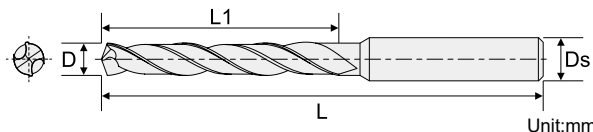
Order No.	D	L1	L	Ds
DMC50340054SX	3.40	28	60	4
DMC50350054SX	3.50	28	60	4
DMC50370054SX	3.70	28	60	4
DMC50380054SX	3.80	36	74	4
DMC50400050SX	4.00	36	74	6
DMC50410050SX	4.10	36	74	6
DMC50420050SX	4.20	36	74	6
DMC50430050SX	4.30	36	74	6
DMC50440050SX	4.40	36	74	6
DMC50450050SX	4.50	36	74	6
DMC50460050SX	4.60	36	74	6
DMC50465050SX	4.65	36	74	6
DMC50470050SX	4.70	36	74	6
DMC50476050SX	4.76(3/16")	36	74	6
DMC50480050SX	4.80	44	82	6
DMC50490050SX	4.90	44	82	6
DMC50500050SX	5.00	44	82	6
DMC50510050SX	5.10	44	82	6
DMC50520050SX	5.20	44	82	6
DMC50530050SX	5.30	44	82	6
DMC50540050SX	5.40	44	82	6
DMC50550050SX	5.50	44	82	6
DMC50555050SX	5.55(7/32")	44	82	6
DMC50560050SX	5.60	44	82	6
DMC50570050SX	5.70	44	82	6
DMC50580050SX	5.80	44	82	6
DMC50590050SX	5.90	44	82	6
DMC50600050SX	6.00	44	82	6
DMC50610050SX	6.10	53	91	8
DMC50620050SX	6.20	53	91	8
DMC50630050SX	6.30	53	91	8
DMC50635050SX	6.35(1/4")	53	91	8
DMC50640050SX	6.40	53	91	8
DMC50650050SX	6.50	53	91	8
DMC50660050SX	6.60	53	91	8
DMC50670050SX	6.70	53	91	8
DMC50680050SX	6.80	53	91	8
DMC50690050SX	6.90	53	91	8
DMC50700050SX	7.00	53	91	8
DMC50710050SX	7.10	53	91	8
DMC50714050SX	7.14(9/32")	53	91	8
DMC50720050SX	7.20	53	91	8
DMC50730050SX	7.30	53	91	8
DMC50740050SX	7.40	53	91	8
DMC50750050SX	7.50	53	91	8
DMC50760050SX	7.60	53	91	8
DMC50770050SX	7.70	53	91	8
DMC50780050SX	7.80	53	91	8

Order No.	D	L1	L	Ds
DMC50790050SX	7.90	53	91	8
DMC50794050SX	7.94(5/16")	53	91	8
DMC50800050SX	8.00	53	91	8
DMC50810050SX	8.10	61	103	10
DMC50820050SX	8.20	61	103	10
DMC50830050SX	8.30	61	103	10
DMC50840050SX	8.40	61	103	10
DMC50850050SX	8.50	61	103	10
DMC50860050SX	8.60	61	103	10
DMC50870050SX	8.70	61	103	10
DMC50880050SX	8.80	61	103	10
DMC50890050SX	8.90	61	103	10
DMC50900050SX	9.00	61	103	10
DMC50910050SX	9.10	61	103	10
DMC50920050SX	9.20	61	103	10
DMC50925050SX	9.25	61	103	10
DMC50930050SX	9.30	61	103	10
DMC50940050SX	9.40	61	103	10
DMC50950050SX	9.50	61	103	10
DMC50952050SX	9.52(3/8")	61	103	10
DMC50960050SX	9.60	61	103	10
DMC50970050SX	9.70	61	103	10
DMC50980050SX	9.80	61	103	10
DMC50990050SX	9.90	61	103	10
DMC51000050SX	10.00	61	103	10
DMC51020050SX	10.20	71	118	12
DMC51050050SX	10.50	71	118	12
DMC51070050SX	10.70	71	118	12
DMC51100050SX	11.00	71	118	12
DMC51120050SX	11.20	71	118	12
DMC51150050SX	11.50	71	118	12
DMC51170050SX	11.70	71	118	12
DMC51200050SX	12.00	71	118	12
DMC51250050SX	12.50	77	124	14
DMC51270050SX	12.70(1/2")	77	124	14
DMC51300050SX	13.00	77	124	14
DMC51350050SX	13.50	77	124	14
DMC51370050SX	13.70	77	124	14
DMC51400050SX	14.00	77	124	14
DMC51450050SX	14.50	83	133	16
DMC51470050SX	14.70	83	133	16
DMC51500050SX	15.00	83	133	16
DMC51550050SX	15.50	83	133	16
DMC51570050SX	15.70	83	133	16
DMC51600050SX	16.00	83	133	16
DMC51800050SX	18.00	93	143	18
DMC51900050SX	19.00	101	153	20
DMC52000050SX	20.00	101	153	20

**DMN - for Exotic Material · External Coolant · 3D** 高效能外冷鑽頭 ( 鈦及不鏽鋼用 ) · 3 倍深



- 3×D Cutting Depth
- 140° NR Tip
- Double Margin
- New SINIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537

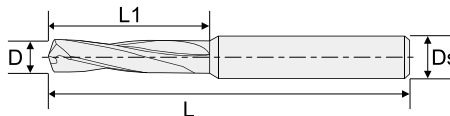


Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DMN30400030SX	4.00	24	66	6	DMN30820030SX	8.20	47	89	10
DMN30410030SX	4.10	24	66	6	DMN30830030SX	8.30	47	89	10
DMN30420030SX	4.20	24	66	6	DMN30840030SX	8.40	47	89	10
DMN30430030SX	4.30	24	66	6	DMN30850030SX	8.50	47	89	10
DMN30440030SX	4.40	24	66	6	DMN30860030SX	8.60	47	89	10
DMN30450030SX	4.50	24	66	6	DMN30870030SX	8.70	47	89	10
DMN30460030SX	4.60	24	66	6	DMN30880030SX	8.80	47	89	10
DMN30465030SX	4.65	24	66	6	DMN30890030SX	8.90	47	89	10
DMN30470030SX	4.70	24	66	6	DMN30900030SX	9.00	47	89	10
DMN30476030SX	4.76(3/16")	24	66	6	DMN30910030SX	9.10	47	89	10
DMN30480030SX	4.80	28	66	6	DMN30920030SX	9.20	47	89	10
DMN30490030SX	4.90	28	66	6	DMN30925030SX	9.25	47	89	10
DMN30500030SX	5.00	28	66	6	DMN30930030SX	9.30	47	89	10
DMN30510030SX	5.10	28	66	6	DMN30940030SX	9.40	47	89	10
DMN30520030SX	5.20	28	66	6	DMN30950030SX	9.50	47	89	10
DMN30530030SX	5.30	28	66	6	DMN30952030SX	9.52(3/8")	47	89	10
DMN30540030SX	5.40	28	66	6	DMN30960030SX	9.60	47	89	10
DMN30550030SX	5.50	28	66	6	DMN30970030SX	9.70	47	89	10
DMN30556030SX	5.56(7/32")	28	66	6	DMN30980030SX	9.80	47	89	10
DMN30560030SX	5.60	28	66	6	DMN30990030SX	9.90	47	89	10
DMN30570030SX	5.70	28	66	6	DMN31000030SX	10.00	47	89	10
DMN30580030SX	5.80	28	66	6	DMN31020030SX	10.20	55	102	12
DMN30590030SX	5.90	28	66	6	DMN31050030SX	10.50	55	102	12
DMN30600030SX	6.00	28	66	6	DMN31070030SX	10.70	55	102	12
DMN30610030SX	6.10	34	79	8	DMN31100030SX	11.00	55	102	12
DMN30620030SX	6.20	34	79	8	DMN31110030SX	11.10	55	102	12
DMN30630030SX	6.30	34	79	8	DMN31120030SX	11.20	55	102	12
DMN30635030SX	6.35(1/4")	34	79	8	DMN31150030SX	11.50	55	102	12
DMN30640030SX	6.40	34	79	8	DMN31170030SX	11.70	55	102	12
DMN30650030SX	6.50	34	79	8	DMN31190030SX	11.90	55	102	12
DMN30660030SX	6.60	34	79	8	DMN31200030SX	12.00	55	102	12
DMN30670030SX	6.70	34	79	8	DMN31250030SX	12.50	60	107	14
DMN30680030SX	6.80	34	79	8	DMN31270030SX	12.70(1/2)	60	107	14
DMN30690030SX	6.90	34	79	8	DMN31300030SX	13.00	60	107	14
DMN30700030SX	7.00	34	79	8	DMN31400030SX	14.00	60	107	14
DMN30710030SX	7.10	41	79	8	DMN31600030SX	16.00	65	115	16
DMN30714030SX	7.14(9/32")	41	79	8	DMN31800030SX	18.00	73	123	18
DMN30720030SX	7.20	41	79	8					
DMN30730030SX	7.30	41	79	8					
DMN30740030SX	7.40	41	79	8					
DMN30750030SX	7.50	41	79	8					
DMN30760030SX	7.60	41	79	8					
DMN30770030SX	7.70	41	79	8					
DMN30780030SX	7.80	41	79	8					
DMN30790030SX	7.90	41	79	8					
DMN30794030SX	7.94(5/16")	41	79	8					
DMN30800030SX	8.00	41	79	8					
DMN30810030SX	8.10	47	89	10					

**DHN - for Hardened Steel · External Coolant · 3D** 高效能外冷鑽頭 (高硬用) · 3倍深

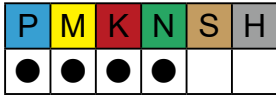


- 3×D Cutting Depth
- 140° RX Tip
- Helix : 12° ~ 20°
- New SINIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537

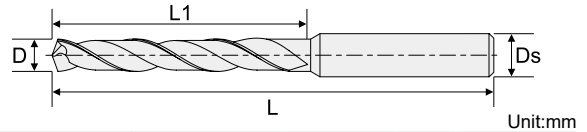


Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DHN30090030SX	0.90	8	50	3	DHN30580030SX	5.80	28	66	6
DHN30095030SX	0.95	8	50	3	DHN30600030SX	6.00	28	66	6
DHN30100030SX	1.00	8	50	3	DHN30635030SX	6.35(1/4")	34	79	8
DHN30110030SX	1.10	8	50	3	DHN30640030SX	6.40	34	79	8
DHN30120030SX	1.20	8	50	3	DHN30650030SX	6.50	34	79	8
DHN30125030SX	1.25	8	50	3	DHN30680030SX	6.80	34	79	8
DHN30130030SX	1.30	10	50	3	DHN30700030SX	7.00	34	79	8
DHN30132030SX	1.32	10	50	3	DHN30740030SX	7.40	41	79	8
DHN30140030SX	1.40	10	50	3	DHN30750030SX	7.50	41	79	8
DHN30145030SX	1.45	10	50	3	DHN30780030SX	7.80	41	79	8
DHN30150030SX	1.50	10	50	3	DHN30800030SX	8.00	41	79	8
DHN30160030SX	1.60	10	50	3	DHN30850030SX	8.50	47	89	10
DHN30165030SX	1.65	10	50	3	DHN30880030SX	8.80	47	89	10
DHN30170030SX	1.70	10	50	3	DHN30900030SX	9.00	47	89	10
DHN30175030SX	1.75	10	50	3	DHN30925030SX	9.25	47	89	10
DHN30185030SX	1.85	10	50	3	DHN30930030SX	9.30	47	89	10
DHN30190030SX	1.90	10	50	3	DHN30950030SX	9.50	47	89	10
DHN30200030SX	2.00	12	50	3	DHN30980030SX	9.80	47	89	10
DHN30205030SX	2.05	12	50	3	DHN31000030SX	10.00	47	89	10
DHN30210030SX	2.10	12	50	3	DHN31020030SX	10.20	55	102	12
DHN30220030SX	2.20	12	50	3	DHN31050030SX	10.50	55	102	12
DHN30230030SX	2.30	12	50	3	DHN31070030SX	10.70	55	102	12
DHN30240030SX	2.40	12	50	3	DHN31100030SX	11.00	55	102	12
DHN30250030SX	2.50	12	50	3	DHN31120030SX	11.20	55	102	12
DHN30260030SX	2.60	16	60	3	DHN31150030SX	11.50	55	102	12
DHN30270030SX	2.70	16	60	3	DHN31170030SX	11.70	55	102	12
DHN30280030SX	2.80	16	60	3	DHN31200030SX	12.00	55	102	12
DHN30290030SX	2.90	16	60	3					
DHN30300030SX	3.00	16	60	3					
DHN30310030SX	3.10	20	62	6					
DHN30320030SX	3.20	20	62	6					
DHN30330030SX	3.30	20	62	6					
DHN30340030SX	3.40	20	62	6					
DHN30350030SX	3.50	20	62	6					
DHN30360030SX	3.60	20	62	6					
DHN30370030SX	3.70	20	62	6					
DHN30380030SX	3.80	20	62	6					
DHN30390030SX	3.90	20	62	6					
DHN30400030SX	4.00	24	66	6					
DHN30420030SX	4.20	24	66	6					
DHN30450030SX	4.50	24	66	6					
DHN30460030SX	4.60	24	66	6					
DHN30465030SX	4.65	24	66	6					
DHN30480030SX	4.80	28	66	6					
DHN30500030SX	5.00	28	66	6					
DHN30550030SX	5.50	28	66	6					
DHN30556030SX	5.56(7/32")	28	66	6					
DHN30570030SX	5.70	28	66	6					



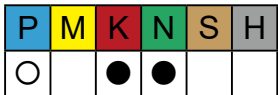
- 3×D Cutting Depth
- 130° NX Tip
- UNICO Coatingg
- D tolerance : h8
- Ds tolerance : h6
- To choose uncoated tool for aluminum materials machining



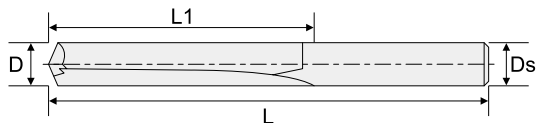
Order No.		D	L1	L	Ds	Order No.		D	L1	L	Ds
UNICO	Uncoated					UNICO	Uncoated				
DGN30200031U	DGN302000310	2.00	12	38	3	DGN30610031U	DGN306100310	6.10	31	70	7
DGN30210031U	DGN302100310	2.10	12	38	3	DGN30620031U	DGN306200310	6.20	31	70	7
DGN30220031U	DGN302200310	2.20	13	40	3	DGN30630031U	DGN306300310	6.30	31	70	7
DGN30230031U	DGN302300310	2.30	13	40	3	DGN30635031U	DGN306350310	6.35(1/4")	31	70	7
DGN30238031U	DGN302380310	2.38(3/32")	14	43	3	DGN30640031U	DGN306400310	6.40	31	70	7
DGN30240031U	DGN302400310	2.40	14	43	3	DGN30650031U	DGN306500310	6.50	31	70	7
DGN30250031U	DGN302500310	2.50	14	43	3	DGN30660031U	DGN306600310	6.60	31	70	7
DGN30260031U	DGN302600310	2.60	14	43	3	DGN30670031U	DGN306700310	6.70	31	70	7
DGN30270031U	DGN302700310	2.70	16	46	3	DGN30680031U	DGN306800310	6.80	34	74	7
DGN30278031U	DGN302780310	2.78(7/64")	16	46	3	DGN30690031U	DGN306900310	6.90	34	74	7
DGN30280031U	DGN302800310	2.80	16	46	3	DGN30700031U	DGN307000310	7.00	34	74	7
DGN30290031U	DGN302900310	2.90	16	46	3	DGN30710031U	DGN307100310	7.10	34	74	8
DGN30300031U	DGN303000310	3.00	16	46	3	DGN30714031U	DGN307140310	7.14(9/32")	34	74	8
DGN30310031U	DGN303100310	3.10	18	49	4	DGN30720031U	DGN307200310	7.20	34	74	8
DGN30317031U	DGN303170310	3.17(1/8")	18	49	4	DGN30730031U	DGN307300310	7.30	34	74	8
DGN30320031U	DGN303200310	3.20	18	49	4	DGN30740031U	DGN307400310	7.40	34	74	8
DGN30330031U	DGN303300310	3.30	18	49	4	DGN30750031U	DGN307500310	7.50	34	74	8
DGN30340031U	DGN303400310	3.40	20	52	4	DGN30760031U	DGN307600310	7.60	37	79	8
DGN30350031U	DGN303500310	3.50	20	52	4	DGN30770031U	DGN307700310	7.70	37	79	8
DGN30357031U	DGN303570310	3.57(9/64")	20	52	4	DGN30780031U	DGN307800310	7.80	37	79	8
DGN30360031U	DGN303600310	3.60	20	52	4	DGN30790031U	DGN307900310	7.90	37	79	8
DGN30370031U	DGN303700310	3.70	20	52	4	DGN30794031U	DGN307940310	7.94(5/16")	37	79	8
DGN30380031U	DGN303800310	3.80	22	55	4	DGN30800031U	DGN308000310	8.00	37	79	8
DGN30390031U	DGN303900310	3.90	22	55	4	DGN30810031U	DGN308100310	8.10	37	79	9
DGN30397031U	DGN303970310	3.97(5/32")	22	55	4	DGN30820031U	DGN308200310	8.20	37	79	9
DGN30400031U	DGN304000310	4.00	22	55	4	DGN30830031U	DGN308300310	8.30	37	79	9
DGN30410031U	DGN304100310	4.10	22	55	5	DGN30840031U	DGN308400310	8.40	37	79	9
DGN30420031U	DGN304200310	4.20	24	58	5	DGN30850031U	DGN308500310	8.50	37	79	9
DGN30430031U	DGN304300310	4.30	24	58	5	DGN30860031U	DGN308600310	8.60	37	79	9
DGN30437031U	DGN304370310	4.37(11/64")	24	58	5	DGN30870031U	DGN308700310	8.70	37	79	9
DGN30440031U	DGN304400310	4.40	24	58	5	DGN30873031U	DGN308730310	8.73(11/32")	40	84	9
DGN30450031U	DGN304500310	4.50	24	58	5	DGN30880031U	DGN308800310	8.80	40	84	9
DGN30460031U	DGN304600310	4.60	24	58	5	DGN30890031U	DGN308900310	8.90	40	84	9
DGN30470031U	DGN304700310	4.70	24	58	5	DGN30900031U	DGN309000310	9.00	40	84	9
DGN30476031U	DGN304760310	4.76(3/16")	26	62	5	DGN30910031U	DGN309100310	9.10	40	84	10
DGN30480031U	DGN304800310	4.80	26	62	5	DGN30920031U	DGN309200310	9.20	40	84	10
DGN30490031U	DGN304900310	4.90	26	62	5	DGN30930031U	DGN309300310	9.30	40	84	10
DGN30500031U	DGN305000310	5.00	26	62	5	DGN30940031U	DGN309400310	9.40	40	84	10
DGN30510031U	DGN305100310	5.10	26	62	6	DGN30960031U	DGN309600310	9.60	43	89	10
DGN30520031U	DGN305200310	5.20	26	62	6	DGN30950031U	DGN309500310	9.50	40	84	10
DGN30530031U	DGN305300310	5.30	26	62	6	DGN30970031U	DGN309700310	9.70	43	89	10
DGN30540031U	DGN305400310	5.40	28	66	6	DGN30980031U	DGN309800310	9.80	43	89	10
DGN30550031U	DGN305500310	5.50	28	66	6	DGN30990031U	DGN309900310	9.90	43	89	10
DGN30560031U	DGN305600310	5.60	28	66	6	DGN31000031U	DGN310000310	10.00	43	89	10
DGN30570031U	DGN305700310	5.70	28	66	6	DGN31100031U	DGN311000310	11.00	47	95	11
DGN30580031U	DGN305800310	5.80	28	66	6	DGN31200031U	DGN312000310	12.00	51	102	12
DGN30590031U	DGN305900310	5.90	28	66	6	DGN31250031U	DGN312500310	12.50	51	102	13
DGN30600031U	DGN306000310	6.00	28	66	6	DGN31300031U	DGN313000310	13.00	51	102	13



## DAN - Straight Flute · External Coolant · 5D 直刃外冷鑽鉸刀 · 5倍深



- 5×D Cutting Depth
- 130° Tip
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6

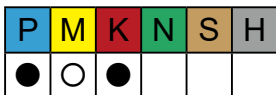


Unit:mm

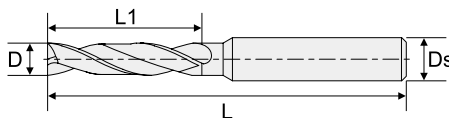
Order No.	D	L1	L	Ds
DAN50400054UX	4.00	36	100	4
DAN50450050UX	4.50	36	100	6
DAN50500050UX	5.00	44	100	6
DAN50550050UX	5.50	44	100	6
DAN50600050UX	6.00	44	100	6
DAN50650050UX	6.50	53	100	8
DAN50700050UX	7.00	53	100	8
DAN50750050UX	7.50	53	100	8
DAN50800050UX	8.00	53	100	8
DAN50850050UX	8.50	61	107	10
DAN50900050UX	9.00	61	107	10
DAN50950050UX	9.50	61	107	10
DAN51000050UX	10.00	61	107	10
DAN51200050UX	12.00	71	125	12
DAN51400050UX	14.00	77	150	14
DAN51600050UX	16.00	83	150	16

Order No.	D	L1	L	Ds

**DFN - Flat Point · External Coolant · 3D** 平底外冷鑽頭 · 3倍深



- 3×D Cutting Depth
- FX Flat Tip
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



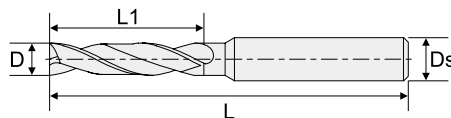
Unit:mm

Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DFN30220034UX	2.20	13	60	4	DFN30580030UX	5.80	28	66	6
DFN30260034UX	2.60	15	60	4	DFN30590030UX	5.90	28	66	6
DFN30270034UX	2.70	15	60	4	DFN30600030UX	6.00	28	66	6
DFN30300034UX	3.00	20	60	4	DFN30610030UX	6.10	34	79	8
DFN30310034UX	3.10	20	60	4	DFN30620030UX	6.20	34	79	8
DFN30317034UX	3.17(1/8")	20	60	4	DFN30630030UX	6.30	34	79	8
DFN30320034UX	3.20	20	60	4	DFN30635030UX	6.35	34	79	8
DFN30325034UX	3.25(5/32")	20	60	4	DFN30640030UX	6.40	34	79	8
DFN30330034UX	3.30	20	60	4	DFN30650030UX	6.50	34	79	8
DFN30340034UX	3.40	20	60	4	DFN30660030UX	6.60	34	79	8
DFN30350034UX	3.50	20	60	4	DFN30670030UX	6.70	34	79	8
DFN30360034UX	3.60	20	60	4	DFN30680030UX	6.80	34	79	8
DFN30370034UX	3.70	20	60	4	DFN30690030UX	6.90	34	79	8
DFN30380034UX	3.80	24	60	4	DFN30700030UX	7.00	34	79	8
DFN30390034UX	3.90	24	60	4	DFN30710030UX	7.10	41	79	8
DFN30397034UX	3.97(5/32")	24	60	4	DFN30720030UX	7.20	41	79	8
DFN30300030UX	3.00	20	62	6	DFN30730030UX	7.30	41	79	8
DFN30310030UX	3.10	20	62	6	DFN30740030UX	7.40	41	79	8
DFN30320030UX	3.20	20	62	6	DFN30750030UX	7.50	41	79	8
DFN30325030UX	3.25(5/32")	20	62	6	DFN30760030UX	7.60	41	79	8
DFN30330030UX	3.30	20	62	6	DFN30770030UX	7.70	41	79	8
DFN30340030UX	3.40	20	62	6	DFN30780030UX	7.80	41	79	8
DFN30350030UX	3.50	20	62	6	DFN30790030UX	7.90	41	79	8
DFN30360030UX	3.60	20	62	6	DFN30800030UX	8.00	41	79	8
DFN30370030UX	3.70	20	62	6	DFN30810030UX	8.10	47	89	10
DFN30380030UX	3.80	24	66	6	DFN30820030UX	8.20	47	89	10
DFN30390030UX	3.90	24	66	6	DFN30830030UX	8.30	47	89	10
DFN30397030UX	3.97(5/32")	24	66	6	DFN30840030UX	8.40	47	89	10
DFN30400030UX	4.00	24	66	6	DFN30850030UX	8.50	47	89	10
DFN30410030UX	4.10	24	66	6	DFN30860030UX	8.60	47	89	10
DFN30420030UX	4.20	24	66	6	DFN30870030UX	8.70	47	89	10
DFN30430030UX	4.30	24	66	6	DFN30880030UX	8.80	47	89	10
DFN30440030UX	4.40	24	66	6	DFN30890030UX	8.90	47	89	10
DFN30450030UX	4.50	24	66	6	DFN30900030UX	9.00	47	89	10
DFN30460030UX	4.60	24	66	6	DFN30910030UX	9.10	47	89	10
DFN30465030UX	4.65(13/71")	24	66	6	DFN30920030UX	9.20	47	89	10
DFN30470030UX	4.70	24	66	6	DFN30925030UX	9.25(23/64")	47	89	10
DFN30480030UX	4.80	28	66	6	DFN30930030UX	9.30	47	89	10
DFN30490030UX	4.90	28	66	6	DFN30940030UX	9.40	47	89	10
DFN30500030UX	5.00	28	66	6	DFN30950030UX	9.50	47	89	10
DFN30510030UX	5.10	28	66	6	DFN30960030UX	9.60	47	89	10
DFN30520030UX	5.20	28	66	6	DFN30970030UX	9.70	47	89	10
DFN30530030UX	5.30	28	66	6	DFN30980030UX	9.80	47	89	10
DFN30540030UX	5.40	28	66	6	DFN30990030UX	9.90	47	89	10
DFN30550030UX	5.50	28	66	6	DFN31000030UX	10.00	47	89	10
DFN30556030UX	5.56(7/32")	28	66	6	DFN31010030UX	10.10	55	102	12
DFN30560030UX	5.60	28	66	6	DFN31020030UX	10.20	55	102	12
DFN30570030UX	5.70	28	66	6	DFN31030030UX	10.30	55	102	12

**DFN - Flat Point · External Coolant · 3D** 平底外冷鑽頭 · 3倍深



- 3×D Cutting Depth
- FX Flat Tip
- New UNIX Smooth Coating
- D tolerance : h8
- Ds tolerance : h6
- Similar DIN6537



Unit:mm

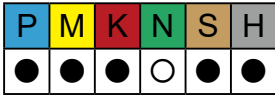
Order No.	D	L1	L	Ds	Order No.	D	L1	L	Ds
DFN31040030UX	10.40	55	102	12	DFN31800030UX	18.00	73	123	18
DFN31050030UX	10.50	55	102	12	DFN31850030UX	18.50	79	131	20
DFN31060030UX	10.60	55	102	12	DFN31900030UX	19.00	79	131	20
DFN31070030UX	10.70	55	102	12	DFN31950030UX	19.50	79	131	20
DFN31080030UX	10.80	55	102	12	DFN32000030UX	20.00	79	131	20
DFN31090030UX	10.90	55	102	12					
DFN31100030UX	11.00	55	102	12					
DFN31110030UX	11.10	55	102	12					
DFN31120030UX	11.20	55	102	12					
DFN31130030UX	11.30	55	102	12					
DFN31140030UX	11.40	55	102	12					
DFN31150030UX	11.50	55	102	12					
DFN31160030UX	11.60	55	102	12					
DFN31170030UX	11.70	55	102	12					
DFN31180030UX	11.80	55	102	12					
DFN31190030UX	11.90	55	102	12					
DFN31200030UX	12.00	55	102	12					
DFN31210030UX	12.10	60	107	14					
DFN31220030UX	12.20	60	107	14					
DFN31230030UX	12.30	60	107	14					
DFN31240030UX	12.40	60	107	14					
DFN31250030UX	12.50	60	107	14					
DFN31260030UX	12.60	60	107	14					
DFN31270030UX	12.70(1/2")	60	107	14					
DFN31280030UX	12.80	60	107	14					
DFN31290030UX	12.90	60	107	14					
DFN31300030UX	13.00	60	107	14					
DFN31320030UX	13.20	60	107	14					
DFN31330030UX	13.30	60	107	14					
DFN31350030UX	13.50	60	107	14					
DFN31370030UX	13.70	60	107	14					
DFN31380030UX	13.80	60	107	14					
DFN31400030UX	14.00	60	107	14					
DFN31420030UX	14.20	65	115	16					
DFN31430030UX	14.30	65	115	16					
DFN31440030UX	14.40	65	115	16					
DFN31450030UX	14.50	65	115	16					
DFN31470030UX	14.70	65	115	16					
DFN31500030UX	15.00	65	115	16					
DFN31520030UX	15.20	65	115	16					
DFN31550030UX	15.50	65	115	16					
DFN31560030UX	15.60	65	115	16					
DFN31570030UX	15.70	65	115	16					
DFN31580030UX	15.80	65	115	16					
DFN31600030UX	16.00	65	115	16					
DFN31650030UX	16.50	73	123	18					
DFN31700030UX	17.00	73	123	18					
DFN31750030UX	17.50	73	123	18					

Holemaking

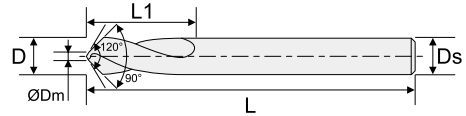


DTN - for Spotting · External Coolant · Tip angle 90°

定位外冷鑽頭 · 鑽尖 90°



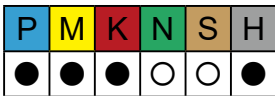
- 90° Tip Angle
- 45° Chamfer Angle
- UNICO Coating
- D tolerance : h8
- Ds tolerance : h6
- Double angle tip design reduces drill tip cracking.



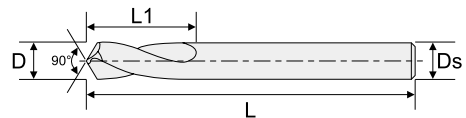
Unit:mm

Order No.	ØDm	D	L1	L	Ds
DTN0130090U	0.3	1.30	4	50	3
DTN0170090U	0.4	1.70	5	50	3
DTN0300090U	0.8	3.00	8	50	3
DTN0400090U	1.0	4.00	10	50	4
DTN0500090U	1.3	5.00	13	50	5
DTN0600090U	1.5	6.00	15	50	6
DTN0800090U	2.0	8.00	20	60	8
DTN1000090U	2.5	10.00	25	75	10
DTN1200090U	3.0	12.00	30	75	12
DTN1600090U	4.0	16.00	35	100	16

Order No.	ØDm	D	L1	L	Ds
* Long Shank Type					
DTN0400091U	1.0	4.00	10	75	4
DTN0500091U	1.3	5.00	13	75	5
DTN0600091U	1.5	6.00	15	100	6
DTN0800091U	2.0	8.00	20	100	8
DTN1000091U	2.5	10.00	25	150	10
DTN1200091U	3.0	12.00	30	150	12
DTN1600091U	4.0	16.00	35	150	16



- 90° Tip Angle
- 45° Chamfer Angle
- UNICO Coating
- D tolerance : h8
- Ds tolerance : h6
- Single angle tip design.



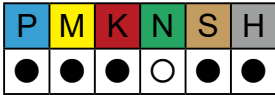
Unit:mm

Order No.	D	L1	L	Ds
DTN0130095U	1.30	4	50	3
DTN0170095U	1.70	5	50	3
DTN0300095U	3.00	8	50	3
DTN0400095U	4.00	10	50	4
DTN0500095U	5.00	13	50	5
DTN0600095U	6.00	15	50	6
DTN0800095U	8.00	20	60	8
DTN1000095U	10.00	25	75	10
DTN1200095U	12.00	30	75	12
DTN1600095U	16.00	35	100	16

Order No.	D	L1	L	Ds
* Long Shank Type				
DTN0400096U	4.00	10	75	4
DTN0500096U	5.00	13	75	5
DTN0600096U	6.00	15	100	6
DTN0800096U	8.00	20	100	8
DTN1000096U	10.00	25	150	10
DTN1200096U	12.00	30	150	12
DTN1600096U	16.00	35	150	16

DTN - for Spotting · External Coolant · Tip angle 120°

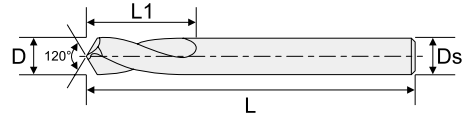
定位外冷鑽頭 · 鑽尖 120°



- 120° Tip Angle
- D tolerance : h8

- 60° Chamfer Angle
- Ds tolerance : h6

· UNICO Coating

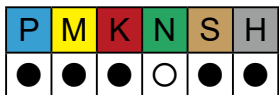


Unit:mm

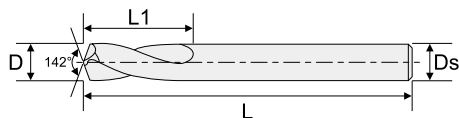
Order No.	D	L1	L	Ds
DTN0300120U	3.00	8	50	3
DTN0400120U	4.00	10	50	4
DTN0500120U	5.00	13	50	5
DTN0600120U	6.00	15	50	6
DTN0800120U	8.00	20	60	8
DTN1000120U	10.00	25	75	10
DTN1200120U	12.00	30	75	12
DTN1600120U	16.00	35	100	16

Order No.	D	L1	L	Ds
* Long Shank Type				
DTN0400121U	4.00	10	75	4
DTN0500121U	5.00	13	75	5
DTN0600121U	6.00	15	100	6
DTN0800121U	8.00	20	100	8
DTN1000121U	10.00	25	150	10
DTN1200121U	12.00	30	150	12
DTN1600121U	16.00	35	150	16

**DTN - for Spotting · External Coolant · Tip angle 142°** 定位外冷鑽頭 · 鑽尖 142°



- 142° Tip Angle
- UNICO Coating
- D tolerance : h8
- Ds tolerance : h6

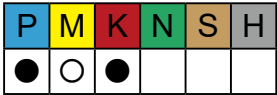


Unit:mm

Order No.	D	L1	L	Ds
DTN0300140U	3.00	8	50	3
DTN0400140U	4.00	10	50	4
DTN0500140U	5.00	13	50	5
DTN0600140U	6.00	15	50	6
DTN0800140U	8.00	20	60	8
DTN1000140U	10.00	25	75	10
DTN1200140U	12.00	30	75	12
DTN1600140U	16.00	35	100	16

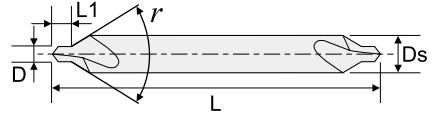
Order No.	D	L1	L	Ds
* Long Shank Type				
DTN0400141U	4.00	10	75	4
DTN0500141U	5.00	13	75	5
DTN0600141U	6.00	15	100	6
DTN0800141U	8.00	20	100	8
DTN1000141U	10.00	25	150	10
DTN1200141U	12.00	30	150	12
DTN1600141U	16.00	35	150	16

**DCN - for Centering · External Coolant** 中心外冷鑽頭



- 120° Tip Angle
- D tolerance : h8

- UNICO Coating
- Ds tolerance : h6



Unit:mm

Order No.	D	L1	L	Ds
60° Countersink Angle (r)				
DCN0100060U	1.00	1.6	38	3
DCN0125060U	1.25	1.9	38	3
DCN0160060U	1.60	2.4	42	4
DCN0200060U	2.00	2.9	50	5
DCN0250060U	2.50	3.6	50	6
DCN0300060U	3.00	3.9	60	8
DCN0315060U	3.15	3.9	60	8
DCN0400060U	4.00	5.0	75	10
DCN0500060U	5.00	6.3	75	12

Order No.	D	L1	L	Ds
90° Countersink Angle (r)				
DCN0100090U	1.00	1.6	38	3
DCN0125090U	1.25	1.9	38	3
DCN0160090U	1.60	2.4	42	4
DCN0200090U	2.00	2.9	50	5
DCN0250090U	2.50	3.6	50	6
DCN0300090U	3.00	3.9	60	8
DCN0315090U	3.15	3.9	60	8
DCN0400090U	4.00	5.0	75	10
DCN0500090U	5.00	6.3	75	12

## DPC Series (Internal Coolant 內冷)

Work Material		Drill Diameter	Ø3-6mm		Ø6.1~10mm		Ø10.1-16mm	
			Hardness	Vc (m/min)	Feed (mm/rev)	Vc (m/min)	Feed (mm/rev)	Vc (m/min)
P	Mild Steel	(<180HB)	70~120	0.06~0.2	90~130	0.12~0.3	110~150	0.2~0.4
	Carbon Steel	(180~280HB)	70~110	0.06~0.2	90~120	0.12~0.3	110~140	0.2~0.4
	Alloy Steel	(280~350HB)	60~100	0.06~0.18	65~110	0.12~0.27	80~120	0.2~0.35
M	Stainless Steel	(<200HB)	35~60	0.05~0.15	45~80	0.1~0.25	55~100	0.15~0.3
K	Cast Iron	(<350Mpa)	70~100	0.6~0.2	80~120	0.12~0.3	90~140	0.2~0.4
	Ductile Cast Iron	(<450Mpa)	50~80	0.6~0.2	60~90	0.12~0.3	70~110	0.2~0.4
N	Aluminum <12% Si	-	80~140	0.1~0.25	100~160	0.15~0.35	110~180	0.3~0.45
	Aluminum >12% Si	-	70~120	0.1~0.25	90~130	0.15~0.35	100~150	0.3~0.45
S	Heat Resistant Alloy	-	15~30	0.02~0.08	20~40	0.04~0.1	25~45	0.06~0.12
H	Hardened Material	40~60HRC	10~25	0.02~0.08	15~35	0.04~0.1	20~40	0.06~0.12

Warning :

For deep hole drills(10xD~30xD), need reduce the Vc to 90% and require an initial pilot hole to help guide the drill.

## DPN, DGN, DFN Series (External Coolant 外冷)

Work Material		Drill Diameter	Ø3-6mm		Ø6.1~10mm		Ø10.1-16mm	
			Hardness	Cutting Speed (m/min)	Feed (mm/rev)	Cutting Speed (m/min)	Feed (mm/rev)	Cutting Speed (m/min)
P	Mild Steel	(<180HB)	45~75	0.06~0.2	55~85	0.12~0.3	60~100	0.2~0.4
	Carbon Steel	(180~280HB)	40~70	0.06~0.2	50~80	0.12~0.3	55~90	0.2~0.4
	Alloy Steel	(280~350HB)	35~65	0.06~0.18	40~75	0.12~0.27	50~85	0.2~0.35
M	Stainless Steel	(<200HB)	25~45	0.05~0.15	25~50	0.1~0.25	30~60	0.15~0.3
K	Cast Iron	(<350Mpa)	45~65	0.06~0.2	50~75	0.12~0.3	55~85	0.2~0.4
	Ductile Cast Iron	(<450Mpa)	40~60	0.06~0.2	45~70	0.12~0.3	50~80	0.2~0.4
N	Aluminum <12% Si	-	65~105	0.1~0.25	65~115	0.15~0.35	70~130	0.3~0.45
	Aluminum >12% Si	-	55~95	0.1~0.25	60~110	0.15~0.35	65~120	0.3~0.45
S	Heat Resistant Alloy	-	15~30	0.02~0.08	20~40	0.04~0.1	25~45	0.06~0.12
H	Hardened Material	40~60HRC	10~25	0.02~0.08	15~35	0.04~0.1	20~40	0.06~0.12

Warning :For slope drilling, please adjust cutting data according to inclined angle

1. For inclined angle under 20 degree, reduce the feed to 50%
2. For inclined angle between 20 to 50 degree, reduce the feed to 40%, and reduce rotation to 70%
3. For inclined angle between 50 to 65 degree, reduce the feed to 30%, and reduce rotation to 70%
4. Not recommend to side milling

**Recommended Cutting Conditions** 建議切削數據

**DPN Series for 10D~50D (External Coolant 外冷)**

Dia. (D)	EFF-L (L2)	LD	Carbon steels (180~250HB)			Pre-hardened steels (35~45HRC)			Stainless steels (25~35HRC)			Hardened steels (45~55HRC)		
			RPM	Feed (mm/rev)	Step Feed (mm)	RPM	Feed (mm/rev)	Step Feed (mm)	RPM	Feed (mm/rev)	Step Feed (mm)	RPM	Feed (mm/rev)	Step Feed (mm)
0.1	1	10	25,465	76	0.01	22,282	67	0.007	23,873	72	0.01	20,690	41	0.005
0.1	3	30	25,465	76	0.01	22,282	67	0.007	23,873	72	0.01	20,690	41	0.005
0.1	5	50	20,372	61	0.01	17,825	53	0.007	19,099	57	0.01	16,552	33	0.005
0.15	1.5	10	23,343	70	0.015	20,160	60	0.0105	21,221	64	0.015	19,099	38	0.0075
0.15	4.5	30	23,343	70	0.015	20,160	60	0.0105	21,221	64	0.015	19,099	38	0.0075
0.15	7.5	50	18,674	56	0.015	16,128	48	0.0105	16,977	51	0.015	15,279	31	0.0075
0.2	2	10	20,690	83	0.02	17,507	70	0.014	19,099	76	0.02	16,711	50	0.01
0.2	6	30	20,690	83	0.02	17,507	70	0.014	19,099	76	0.02	16,711	50	0.01
0.2	10	50	16,552	66	0.02	14,006	56	0.014	15,279	61	0.02	13,369	40	0.01
0.3	3	10	14,854	59	0.03	12,732	51	0.021	13,793	55	0.03	12,202	37	0.015
0.3	9	30	14,854	59	0.03	12,732	51	0.021	13,793	55	0.03	12,202	37	0.015
0.3	15	50	11,884	48	0.03	10,186	41	0.021	11,035	44	0.03	9,762	29	0.015
0.4	4	10	12,335	49	0.04	11,539	46	0.028	11,937	48	0.04	10,743	43	0.02
0.4	12	30	12,335	49	0.04	11,539	46	0.028	11,937	48	0.04	10,743	43	0.02
0.4	20	50	9,868	39	0.04	9,231	37	0.028	9,549	38	0.04	8,594	34	0.02
0.5	5	10	9,868	49	0.05	9,231	46	0.035	9,549	48	0.05	8,594	43	0.025
0.5	15	30	9,868	49	0.05	9,231	46	0.035	9,549	48	0.05	8,594	43	0.025
0.5	25	50	7,894	39	0.05	7,385	37	0.035	7,639	38	0.05	6,875	34	0.025
0.6	6	10	8,223	49	0.06	7,692	46	0.042	7,958	48	0.06	7,162	43	0.03
0.6	18	30	8,223	49	0.06	7,692	46	0.042	7,958	48	0.06	7,162	43	0.03
0.6	30	50	6,578	39	0.06	6,154	37	0.042	6,366	38	0.06	5,730	34	0.03
0.7	7	10	7,048	49	0.07	6,594	46	0.049	6,821	48	0.07	6,139	43	0.035
0.7	21	30	7,048	49	0.07	6,594	46	0.049	6,821	48	0.07	6,139	43	0.035
0.7	35	50	5,639	39	0.07	5,275	37	0.049	5,457	38	0.07	4,911	34	0.035
0.8	8	10	6,167	49	0.08	5,769	46	0.056	5,968	48	0.08	5,371	43	0.04
0.8	24	30	6,167	49	0.08	5,769	46	0.056	5,968	48	0.08	5,371	43	0.04
0.8	40	50	4,934	39	0.08	4,615	37	0.056	4,775	38	0.08	4,297	34	0.04
0.9	9	10	5,482	49	0.09	5,128	46	0.063	5,305	48	0.09	4,775	43	0.045
0.9	27	30	5,482	49	0.09	5,128	46	0.063	5,305	48	0.09	4,775	43	0.045
0.9	45	50	4,386	39	0.09	4,103	37	0.063	4,244	38	0.09	3,820	34	0.045
1	10	10	4,934	49	0.1	4,615	46	0.07	4,775	48	0.1	4,297	43	0.05
1	30	30	4,934	49	0.1	4,615	46	0.07	4,775	48	0.1	4,297	43	0.05
1	50	50	3,947	39	0.1	3,692	37	0.07	3,820	38	0.1	3,438	34	0.05

Holemaking

Warning :

1. Always use Peck drilling (G83 program).
2. Use water-soluble or oil-based coolant should be to ensure chip removal.

注意：

1. 使用啄鑽方式鑽孔 (G83 程序)
2. 請使用水溶性或油性冷卻液以確保排屑

**Recommended Cutting Conditions** 建議切削數據

**DMC Series (Internal Coolant 內冷)**

Material	Stainless Steel				Titanium Alloy		Nickel Alloy		Carbon Steel / Alloy Steel	
Hardness	< HRC 20		≥ HRC 20		HRC 33 ~ 45		HRC 33 ~ 45		< HRC 35	
Vc	50 ~ 90 m/min		40 ~ 80 m/min		20 ~ 40 m/min		18 ~ 30 m/min		60 ~ 100 m/min	
Dia (mm)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)
4	4000 ~ 7200	0.04 ~ 0.11	3200 ~ 6400	0.04 ~ 0.11	1600 ~ 3200	0.04 ~ 0.08	1400 ~ 2400	0.04 ~ 0.08	4800 ~ 8000	0.04 ~ 0.12
6	2700 ~ 4800	0.06 ~ 0.17	2100 ~ 4200	0.06 ~ 0.17	1000 ~ 2100	0.06 ~ 0.12	1000 ~ 1600	0.06 ~ 0.12	3200 ~ 5300	0.06 ~ 0.18
8	2000 ~ 3600	0.08 ~ 0.22	1600 ~ 3200	0.08 ~ 0.22	800 ~ 1600	0.08 ~ 0.16	700 ~ 1200	0.08 ~ 0.16	2400 ~ 4000	0.08 ~ 0.24
10	1600 ~ 2900	0.10 ~ 0.28	1300 ~ 2500	0.10 ~ 0.28	600 ~ 1300	0.10 ~ 0.20	600 ~ 1000	0.10 ~ 0.20	1900 ~ 3200	0.10 ~ 0.30
12	1300 ~ 2400	0.12 ~ 0.33	1000 ~ 2100	0.12 ~ 0.33	500 ~ 1100	0.12 ~ 0.24	500 ~ 800	0.12 ~ 0.24	1600 ~ 2700	0.12 ~ 0.36
16	1000 ~ 1800	0.16 ~ 0.32	800 ~ 1600	0.16 ~ 0.32	400 ~ 800	0.16 ~ 0.32	400 ~ 600	0.16 ~ 0.32	1200 ~ 2000	0.16 ~ 0.40
20	800 ~ 1400	0.20 ~ 0.40	600 ~ 1300	0.20 ~ 0.40	300 ~ 600	0.20 ~ 0.40	300 ~ 500	0.20 ~ 0.40	1000 ~ 1600	0.20 ~ 0.50

**DMN Series (External Coolant 外冷)**

Material	Stainless Steel				Titanium Alloy		Nickel Alloy		Carbon Steel / Alloy Steel	
Hardness	< HRC 20		≥ HRC 20		HRC 33 ~ 45		HRC 33 ~ 45		< HRC 35	
Vc	50 ~ 90 m/min		40 ~ 80 m/min		20 ~ 40 m/min		18 ~ 30 m/min		60 ~ 100 m/min	
Dia (mm)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)	RPM	fr (mm/rev)
4	4000 ~ 7200	0.04 ~ 0.08	3200 ~ 6400	0.04 ~ 0.08	1600 ~ 3200	0.04 ~ 0.07	1400 ~ 2400	0.04 ~ 0.07	4800 ~ 8000	0.04 ~ 0.10
6	2700 ~ 4800	0.06 ~ 0.12	2100 ~ 4200	0.06 ~ 0.12	1000 ~ 2100	0.06 ~ 0.11	1000 ~ 1600	0.06 ~ 0.11	3200 ~ 5300	0.06 ~ 0.15
8	2000 ~ 3600	0.08 ~ 0.16	1600 ~ 3200	0.08 ~ 0.16	800 ~ 1600	0.08 ~ 0.14	700 ~ 1200	0.08 ~ 0.14	2400 ~ 4000	0.08 ~ 0.20
10	1600 ~ 2900	0.10 ~ 0.20	1300 ~ 2500	0.10 ~ 0.20	600 ~ 1300	0.10 ~ 0.18	600 ~ 1000	0.10 ~ 0.18	1900 ~ 3200	0.10 ~ 0.25
12	1300 ~ 2400	0.12 ~ 0.24	1000 ~ 2100	0.12 ~ 0.24	500 ~ 1100	0.12 ~ 0.22	500 ~ 800	0.12 ~ 0.22	1600 ~ 2700	0.12 ~ 0.30
16	1000 ~ 1800	0.16 ~ 0.32	800 ~ 1600	0.16 ~ 0.32	400 ~ 800	0.16 ~ 0.29	400 ~ 600	0.16 ~ 0.29	1200 ~ 2000	0.16 ~ 0.40
20	800 ~ 1400	0.20 ~ 0.40	600 ~ 1300	0.20 ~ 0.40	300 ~ 600	0.20 ~ 0.36	300 ~ 500	0.20 ~ 0.36	1000 ~ 1600	0.20 ~ 0.50

**Recommended Cutting Conditions** 建議切削數據

**DHN Series (External Coolant 外冷)**

Material	Hardened Steel / Pre-Hardened Steel						Nickel Alloy	
Hardness	HRC 40 ~ 45		HRC 45 ~ 50		HRC 50 ~ 60		HRC 33 ~ 45	
Vc	30 ~ 50 m/min		20 ~ 30 m/min		20 ~ 30 m/min		15 ~ 30 m/min	
Dia (mm)	RPM	Feed(mm/rev)	RPM	Feed(mm/rev)	RPM	Feed(mm/rev)	RPM	Feed(mm/rev)
4	3200	0.04 ~ 0.08	2000	0.04 ~ 0.08	2000	0.03 ~ 0.06	1600	0.04 ~ 0.08
5	2500	0.05 ~ 0.10	1600	0.05 ~ 0.10	1600	0.04 ~ 0.08	1300	0.05 ~ 0.10
6	2100	0.06 ~ 0.12	1300	0.06 ~ 0.12	1300	0.05 ~ 0.09	1100	0.06 ~ 0.12
7	1800	0.07 ~ 0.14	1100	0.07 ~ 0.14	1100	0.06 ~ 0.11	900	0.07 ~ 0.14
8	1600	0.08 ~ 0.16	1000	0.08 ~ 0.16	1000	0.06 ~ 0.12	800	0.08 ~ 0.16
9	1400	0.09 ~ 0.18	900	0.09 ~ 0.18	900	0.07 ~ 0.14	700	0.09 ~ 0.18
10	1300	0.10 ~ 0.20	800	0.10 ~ 0.20	800	0.08 ~ 0.15	600	0.10 ~ 0.20
11	1150	0.11 ~ 0.22	720	0.11 ~ 0.22	720	0.09 ~ 0.17	600	0.11 ~ 0.22
12	1100	0.12 ~ 0.24	700	0.12 ~ 0.24	700	0.10 ~ 0.18	500	0.12 ~ 0.24

**DTN Series (External Coolant 外冷)**

Work Material	VC (m/min)		Fr (mm/rev)
	DTN 90° & DTN 120°	DTN 140°	
P Carbon steel	55 ~ 75	60 ~ 90	0.04 ~ 0.14
	Alloy steel	55 ~ 85	0.03 ~ 0.10
M Stainless steel	20 ~ 40	22 ~ 50	0.02 ~ 0.10
K Cast iron	50 ~ 80	55 ~ 95	0.04 ~ 0.13
H Hardened steel	20 ~ 40	22 ~ 50	0.02 ~ 0.06