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# NDP...

New Dynamic Power Drill

2020  
**NEW**  
PRODUCT

The most economical drill providing stable and optimum tooling in a wide range of materials and cutting diameters

 **WIDIN**  
DINE GROUP

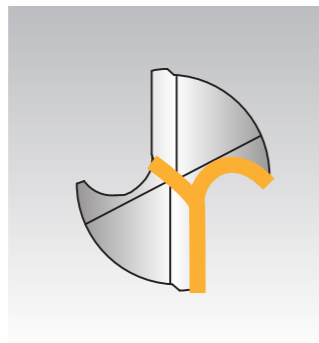


## 01

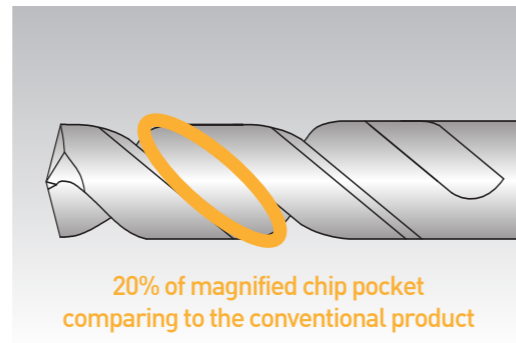
### Special Feature

NDP Series

- Improvement of chip evacuation with wider chip pockets comparing to the conventional products
- Decrease of frictional resistance and heat with optimum margin and back taper
- Multipurpose use



Improvement of chip curling by applying new 7-Flute concept



Improvement of minimum friction and chip emission with the optimum margin, back-taper and bigger chip pockets

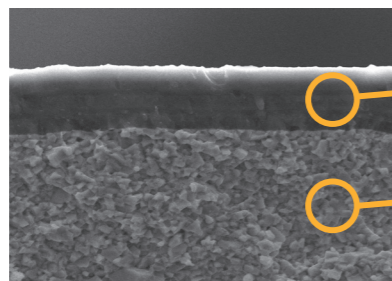
## 02

### Improvement Points

NDP Series

- Applying to various work pieces with improvement of wear resistance with optimum material and coating
- Improvement of chip emission and tool life with developed surface treatment

Application of optimum material and new PVD coating for general purpose machining



New coating

Application of multi-layered PVD technology which improves wear resistance, chip resistance and lubrication

Stable machining by applying material which has optimum wear resistance and hardness

## 03

### Case Study

NDP Series

D6.0x36/66-6

D6.0x36/66-6

Case study

	Conventional	Competitor	NDPR060
Wear Appearance			
Tool Life	1,350	1,550	2,000

SM45C(1045) / Wet, External / Blind Hole / Vc:80m/min, f:0.14mm/rev / Ap:20mm

Case study

	Conventional	Competitor	NDPR060
Wear Appearance			
Tool Life	2,500	2,500	3,350

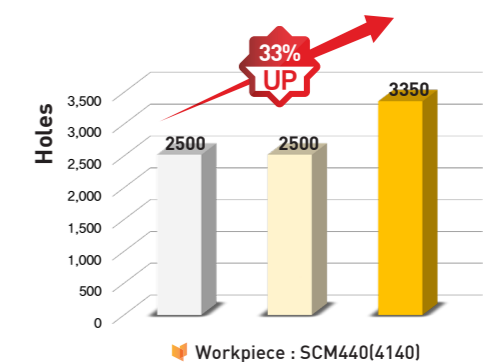
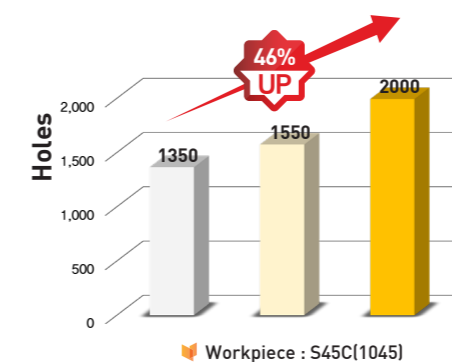
SCM440(4140) / Wet, External / Blind Hole / Vc:80m/min, f:0.14mm/rev / Ap:14.5mm

## 04

### Test Result

NDP Series

- Conventional
- Competitor
- NDPR060

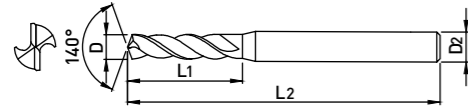


# NDP...SERIES

# NDP...SERIES

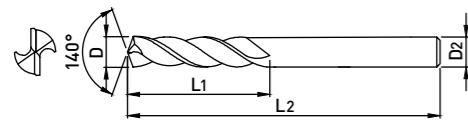


## NDPR



### SOLID CARBIDE POWER DRILLS – REGULAR LENGTH

- The most economical drill providing optimum tool performance in a wide range of materials
- Applying various work pieces with improvement of wear resistance with optimum material and coating
- Improvement of chip evacuation and tool life with developed surface treatment
- Improvement of chip curling by applying new Gamma-Flute concept
- High precision work is possible without the need for separate centering and reamer operation



EDP No	D	L <sub>1</sub>	L <sub>2</sub>	D <sub>2</sub>
NDPR 010	1	8	38	3
NDPR 011	1.1	9	42	3
NDPR 012	1.2	10	42	3
NDPR 013	1.3	10	42	3
NDPR 014	1.4	11	42	3
NDPR 015	1.5	11	42	3
NDPR 016	1.6	12	42	3
NDPR 017	1.7	12	42	3
NDPR 018	1.8	13	42	3
NDPR 019	1.9	13	42	3
NDPR 020	2	18	50	3
NDPR 021	2.1	18	50	3
NDPR 022	2.2	18	50	3
NDPR 023	2.3	18	50	3
NDPR 024	2.4	18	50	3
NDPR 025	2.5	18	50	3
NDPR 026	2.6	18	50	3
NDPR 027	2.7	18	50	3
NDPR 028	2.8	18	50	3
NDPR 029	2.9	18	50	3
NDPR 030	3	20	55	3
NDPR 031	3.1	20	55	4
NDPR 032	3.2	20	55	4
NDPR 033	3.3	20	55	4
NDPR 034	3.4	20	55	4
NDPR 035	3.5	20	55	4
NDPR 036	3.6	25	55	4
NDPR 037	3.7	25	55	4
NDPR 038	3.8	25	55	4
NDPR 039	3.9	25	55	4
NDPR 040	4	25	55	4
NDPR 041	4.1	25	55	5
NDPR 042	4.2	33	63	5
NDPR 043	4.3	33	63	5
NDPR 044	4.4	33	63	5
NDPR 045	4.5	33	63	5
NDPR046	4.6	33	63	5
NDPR047	4.7	33	63	5
NDPR048	4.8	33	63	5
NDPR049	4.9	33	63	5
NDPR050	5	33	63	5
NDPR051	5.1	33	63	6

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61 ~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○			◎		◎

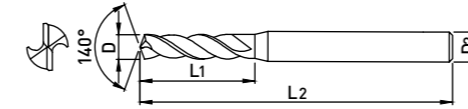
○:General Application ◎:The most suitable Application

#### ■ Tolerance

	D	D <sub>2</sub>
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	

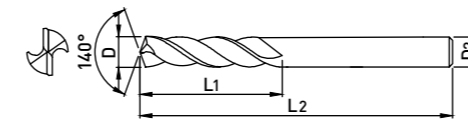


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EDP No	D	L <sub>1</sub>	L <sub>2</sub>	D <sub>2</sub>
NDPR052	5.2	36	66	6
NDPR053	5.3	36	66	6
NDPR054	5.4	36	66	6
NDPR055	5.5	36	66	6
NDPR056	5.6	36	66	6
NDPR057	5.7	36	66	6
NDPR058	5.8	36	66	6
NDPR059	5.9	36	66	6
NDPR060	6	36	66	6
NDPR061	6.1	36	66	7
NDPR062	6.2	42	75	7
NDPR063	6.3	42	75	7
NDPR064	6.4	42	75	7
NDPR065	6.5	42	75	7
NDPR066	6.6	42	75	7
NDPR067	6.7	42	75	7
NDPR068	6.8	42	75	7
NDPR069	6.9	42	75	7
NDPR070	7	42	75	7
NDPR071	7.1	42	75	8
NDPR072	7.2	46	80	8
NDPR073	7.3	46	80	8
NDPR074	7.4	46	80	8
NDPR075	7.5	46	80	8
NDPR076	7.6	46	80	8
NDPR077	7.7	46	80	8
NDPR078	7.8	46	80	8
NDPR079	7.9	46	80	8
NDPR080	8	46	80	8
NDPR081	8.1	46	80	9
NDPR082	8.2	50	85	9
NDPR083	8.3	50	85	9
NDPR084	8.4	50	85	9
NDPR085	8.5	50	85	9
NDPR086	8.6	50	85	9
NDPR087	8.7	50	85	9
NDPR088	8.8	50	85	9
NDPR089	8.9	50	85	9
NDPR090	9	50	85	9
NDPR091	9.1	50	85	10
NDPR092	9.2	55	90	10
NDPR093	9.3	55	90	10

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61 ~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○			◎		◎

○:General Application ◎:The most suitable Application

#### ■ Tolerance

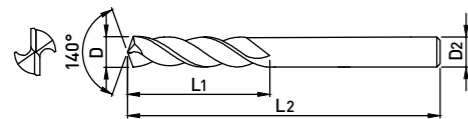
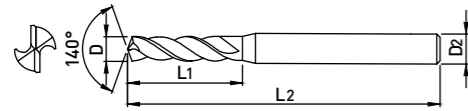
	D	D <sub>2</sub>
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	

# NDP...SERIES

# NDP...SERIES



## NDPR

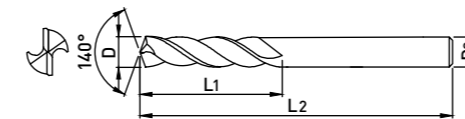
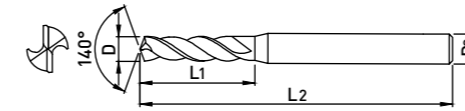


### SOLID CARBIDE POWER DRILLS – REGULAR LENGTH

- The most economical drill providing optimum tool performance in a wide range of materials
- Applying various work pieces with improvement of wear resistance with optimum material and coating
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- Improvement of chip curling by applying new Gamma-Flute concept
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EDP No	D	L <sub>1</sub>	L <sub>2</sub>	D <sub>2</sub>
NDPR094	9.4	55	90	10
NDPR095	9.5	55	90	10
NDPR096	9.6	55	90	10
NDPR097	9.7	55	90	10
NDPR098	9.8	55	90	10
NDPR099	9.9	55	90	10
NDPR100	10	55	90	10
NDPR101	10.1	55	90	11
NDPR102	10.2	57	95	11
NDPR103	10.3	57	95	11
NDPR104	10.4	57	95	11
NDPR105	10.5	57	95	11
NDPR106	10.6	57	95	11
NDPR107	10.7	57	95	11
NDPR108	10.8	57	95	11
NDPR109	10.9	57	95	11
NDPR110	11	57	95	11
NDPR111	11.1	57	95	12
NDPR112	11.2	63	102	12
NDPR113	11.3	63	102	12
NDPR114	11.4	63	102	12
NDPR115	11.5	63	102	12
NDPR116	11.6	63	102	12
NDPR117	11.7	63	102	12
NDPR118	11.8	63	102	12
NDPR119	11.9	63	102	12
NDPR120	12	63	102	12
NDPR121	12.1	63	102	13
NDPR122	12.2	63	102	13
NDPR123	12.3	63	102	13
NDPR124	12.4	63	102	13
NDPR125	12.5	63	102	13
NDPR126	12.6	63	102	13
NDPR127	12.7	63	102	13
NDPR128	12.8	63	102	13
NDPR129	12.9	63	102	13
NDPR130	13	63	102	13
NDPR131	13.1	63	102	14

EDP No	D	L <sub>1</sub>	L <sub>2</sub>	D <sub>2</sub>
NDPR132	13.2	65	107	14
NDPR133	13.3	65	107	14
NDPR134	13.4	65	107	14
NDPR135	13.5	65	107	14
NDPR136	13.6	65	107	14
NDPR137	13.7	65	107	14
NDPR138	13.8	65	107	14
NDPR139	13.9	65	107	14
NDPR140	14	65	107	14
NDPR141	14.1	65	107	15
NDPR142	14.2	67	111	15
NDPR143	14.3	67	111	15
NDPR144	14.4	67	111	15
NDPR145	14.5	67	111	15
NDPR146	14.6	67	111	15
NDPR147	14.7	67	111	15
NDPR148	14.8	67	111	15
NDPR149	14.9	67	111	15
NDPR150	15	67	111	15
NDPR151	15.1	67	111	16
NDPR152	15.2	69	115	16
NDPR153	15.3	69	115	16
NDPR154	15.4	69	115	16
NDPR155	15.5	69	115	16
NDPR156	15.6	69	115	16
NDPR157	15.7	69	115	16
NDPR158	15.8	69	115	16
NDPR159	15.9	69	115	16
NDPR160	16	69	115	16
NDPR165	16.5	71	119	17
NDPR167	16.7	71	119	17
NDPR170	17	71	119	17
NDPR175	17.5	74	123	18
NDPR180	18	74	123	18
NDPR185	18.5	76	127	19
NDPR190	19	76	127	19
NDPR195	19.5	80	131	20
NDPR200	20	80	131	20

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61	~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○	○			◎		◎

○:General Application ◎:The most suitable Application

#### ■ Tolerance

	D	D <sub>2</sub>
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	

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◎	◎	◎	○	○			◎		◎

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#### ■ Tolerance

	D	D <sub>2</sub>
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	

# NDP...SERIES

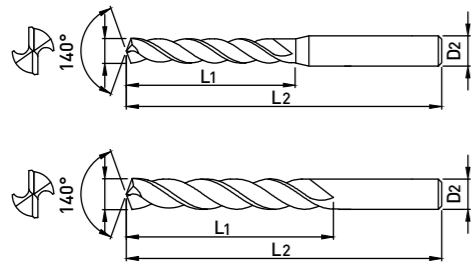
# NDP...SERIES



## NDPL

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EDP No	D	L1	L2	D2
NDPL 030	3	45	80	3
NDPL 031	3.1	45	80	4
NDPL 032	3.2	45	80	4
NDPL 033	3.3	45	80	4
NDPL 034	3.4	45	80	4
NDPL 035	3.5	45	80	4
NDPL 036	3.6	45	80	4
NDPL 037	3.7	45	80	4
NDPL 038	3.8	45	80	4
NDPL 039	3.9	45	80	4
NDPL 040	4	45	80	4
NDPL 041	4.1	45	80	5
NDPL 042	4.2	45	80	5
NDPL 043	4.3	45	80	5
NDPL 044	4.4	45	80	5
NDPL 045	4.5	45	80	5
NDPL 046	4.6	45	80	5
NDPL 047	4.7	45	80	5
NDPL 048	4.8	45	80	5
NDPL 049	4.9	45	80	5
NDPL 050	5	45	80	5
NDPL 051	5.1	45	80	6
NDPL 052	5.2	50	83	6
NDPL 053	5.3	50	83	6
NDPL 054	5.4	50	83	6
NDPL 055	5.5	50	83	6
NDPL 056	5.6	50	83	6
NDPL 057	5.7	50	83	6
NDPL 058	5.8	50	83	6
NDPL 059	5.9	50	83	6
NDPL 060	6	50	83	6
NDPL 061	6.1	50	83	7
NDPL 062	6.2	53	85	7
NDPL 063	6.3	53	85	7
NDPL 064	6.4	53	85	7
NDPL 065	6.5	53	85	7
NDPL 066	6.6	53	85	7
NDPL 067	6.7	53	85	7
NDPL 068	6.8	53	85	7
NDPL 069	6.9	53	85	7
NDPL 070	7	53	85	7
NDPL 071	7.1	53	85	8

#### ■ Applicable Working Material

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◎	◎	◎	○			◎		◎

○:General Application ◎:The most suitable Application

#### ■ Tolerance

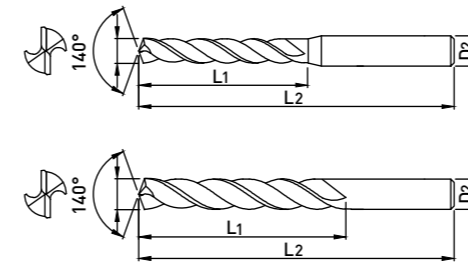
	D	D2
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	



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EDP No	D	L1	L2	D2
NDPL072	7.2	58	90	8
NDPL073	7.3	58	90	8
NDPL074	7.4	58	90	8
NDPL075	7.5	58	90	8
NDPL076	7.6	58	90	8
NDPL077	7.7	58	90	8
NDPL078	7.8	58	90	8
NDPL079	7.9	58	90	8
NDPL080	8	58	90	8
NDPL081	8.1	58	90	9
NDPL082	8.2	64	98	9
NDPL083	8.3	64	98	9
NDPL084	8.4	64	98	9
NDPL085	8.5	64	98	9
NDPL086	8.6	64	98	9
NDPL087	8.7	64	98	9
NDPL088	8.8	64	98	9
NDPL089	8.9	64	98	9
NDPL090	9	64	98	9
NDPL091	9.1	64	98	10
NDPL092	9.2	68	105	10
NDPL093	9.3	68	105	10
NDPL094	9.4	68	105	10
NDPL095	9.5	68	105	10
NDPL096	9.6	68	105	10
NDPL097	9.7	68	105	10
NDPL098	9.8	68	105	10
NDPL099	9.9	68	105	10
NDPL100	10	68	105	10
NDPL101	10.1	68	105	11
NDPL102	10.2	73	110	11
NDPL103	10.3	73	110	11
NDPL104	10.4	73	110	11
NDPL105	10.5	73	110	11
NDPL106	10.6	73	110	11
NDPL107	10.7	73	110	11
NDPL108	10.8	73	110	11
NDPL109	10.9	73	110	11

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61 ~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○			◎		◎

○:General Application ◎:The most suitable Application

#### ■ Tolerance

	D	D2
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	

# NDP...SERIES

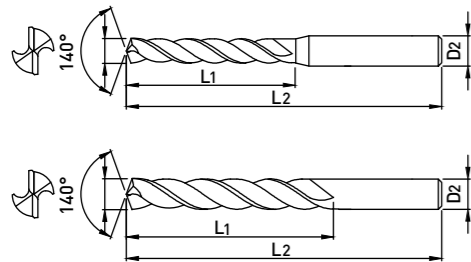
# NDP...SERIES



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EDP No	D	L1	L2	D2
NDPL110	11	73	110	11
NDPL111	11.1	73	110	12
NDPL112	11.2	80	120	12
NDPL113	11.3	80	120	12
NDPL114	11.4	80	120	12
NDPL115	11.5	80	120	12
NDPL116	11.6	80	120	12
NDPL117	11.7	80	120	12
NDPL118	11.8	80	120	12
NDPL119	11.9	80	120	12
NDPL120	12	80	120	12
NDPL121	12.1	80	120	13
NDPL122	12.2	90	137	13
NDPL123	12.3	90	137	13
NDPL124	12.4	90	137	13
NDPL125	12.5	90	137	13
NDPL126	12.6	90	137	13
NDPL127	12.7	90	137	13
NDPL128	12.8	90	137	13
NDPL129	12.9	90	137	13
NDPL130	13	90	137	13
NDPL131	13.1	90	137	14
NDPL132	13.2	96	147	14
NDPL133	13.3	96	147	14
NDPL134	13.4	96	147	14
NDPL135	13.5	96	147	14
NDPL136	13.6	96	147	14
NDPL137	13.7	96	147	14
NDPL138	13.8	96	147	14
NDPL139	13.9	96	147	14
NDPL140	14	96	147	14
NDPL141	14.1	96	147	15
NDPL142	14.2	100	153	15
NDPL143	14.3	100	153	15
NDPL144	14.4	100	153	15
NDPL145	14.5	100	153	15
NDPL146	14.6	100	153	15
NDPL147	14.7	100	153	15

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61 ~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○			◎		◎

○:General Application ◎:The most suitable Application

#### ■ Tolerance

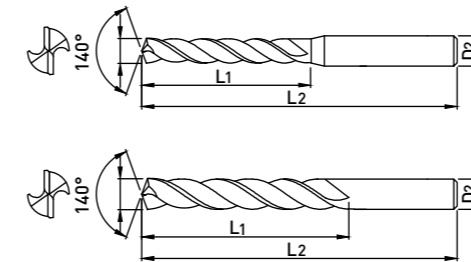
	D	D2
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	



## NDPL

### SOLID CARBIDE POWER DRILLS – LONG LENGTH

- The most economical drill providing optimum tool performance in a wide range of materials
- Applying various work pieces with improvement of wear resistance with optimum material and coating
- Improvement of chip evacuation and tool life with developed surface treatment
- Improvement of chip curling by applying new Gamma-Flute concept
- High precision work is possible without the need for separate centering and reamer operation



EDP No	D	L1	L2	D2
NDPL148	14.8	100	153	15
NDPL149	14.9	100	153	15
NDPL150	15	100	153	15
NDPL151	15.1	100	153	16
NDPL152	15.2	112	160	16
NDPL153	15.3	112	160	16
NDPL154	15.4	112	160	16
NDPL155	15.5	112	160	16
NDPL156	15.6	112	160	16
NDPL157	15.7	112	160	16
NDPL158	15.8	112	160	16
NDPL159	15.9	112	160	16
NDPL160	16	112	160	16
NDPL165	16.5	112	160	17
NDPL170	17	112	160	17
NDPL175	17.5	112	160	18
NDPL176	17.6	112	160	18
NDPL177	17.7	112	160	18
NDPL178	17.8	112	160	18
NDPL180	18	112	160	18
NDPL185	18.5	112	160	19
NDPL190	19	112	160	19
NDPL195	19.5	112	160	20
NDPL200	20	112	160	20

#### ■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels ~HRc55 SKD61 ~HRc55 SKD11	Copper	Graphite	Cast Iron 500~	Aluminum	Stainless Steels
◎	◎	◎	○			◎		◎

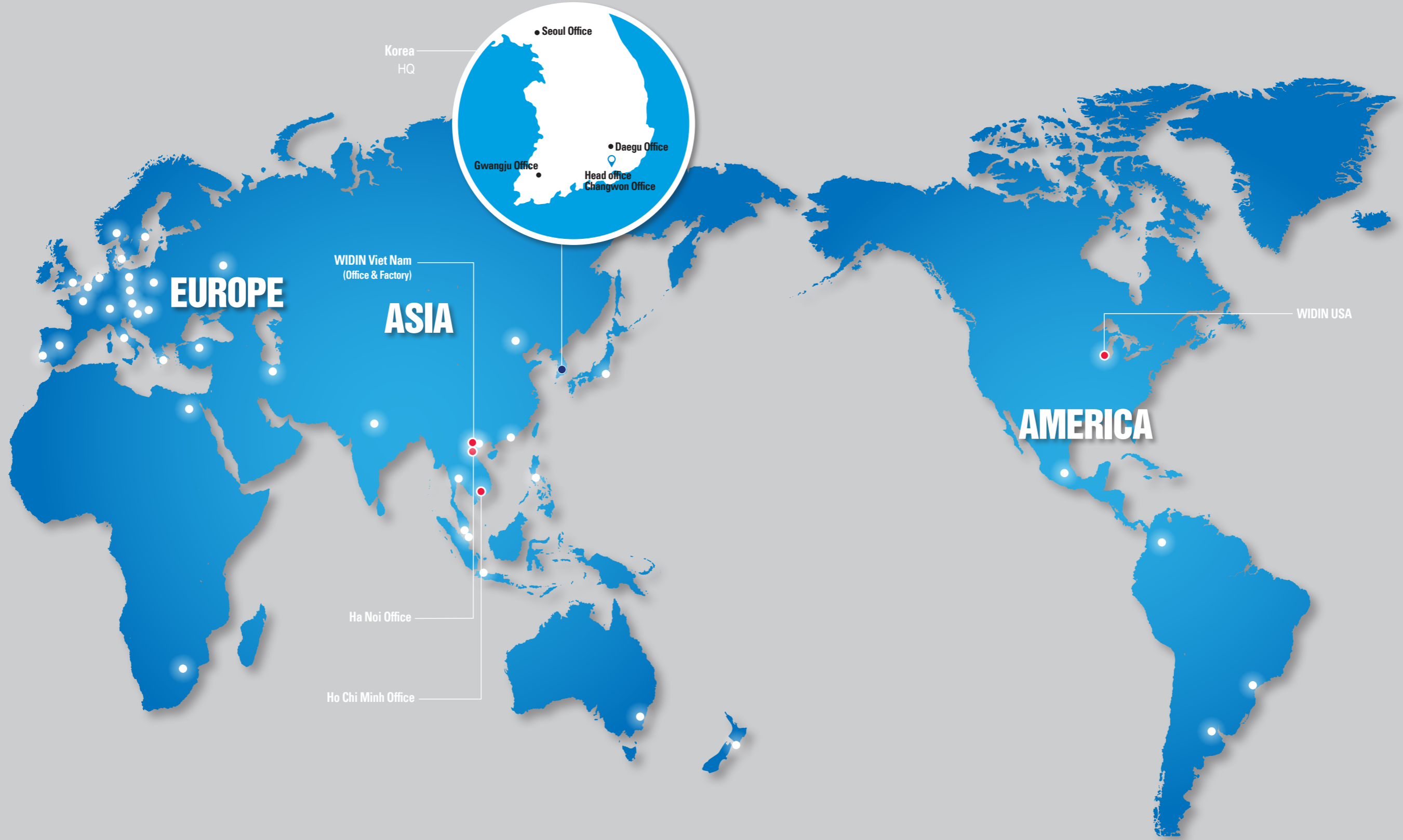
○:General Application ◎:The most suitable Application

#### ■ Tolerance

	D	D2
~ D3	0 ~ -0.01mm	h6
D3.1 ~ D6	0 ~ -0.012mm	
D6.1 ~ D10	0 ~ -0.015mm	
D10.1 ~ D18	0 ~ -0.018mm	
D18.1 ~	0 ~ -0.021mm	



# GLOBAL NETWORK





2020.05



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