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NDP...

New Dynamic Power Drill

2020
NEW
PRODUCT

The most economical drill supplying
stable and optimum tooling
in the wide range

 **WIDIN**
DINE GROUP

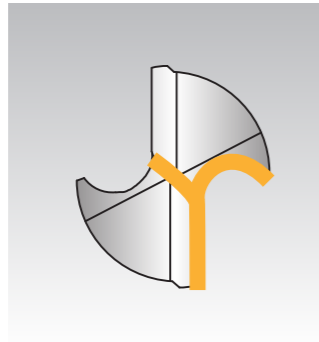


01

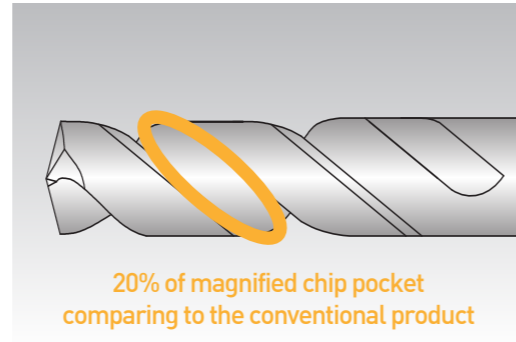
Features

NDP Series

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



Improvement of chip curling by applying new γ -Flute concept



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

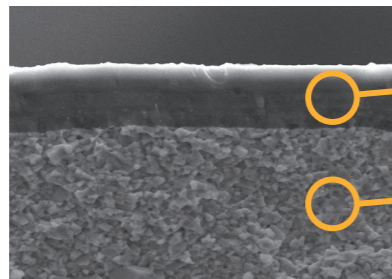
02

Improvement points

NDP Series

- Applying to various work pieces with improvement of wear resistance chip 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

04

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 / 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

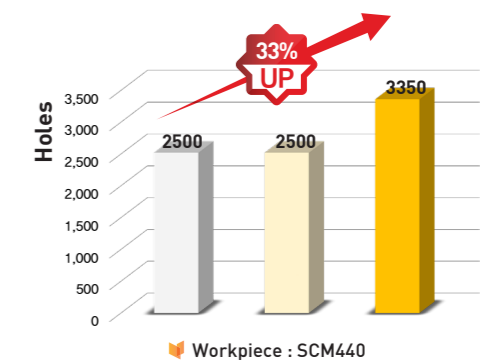
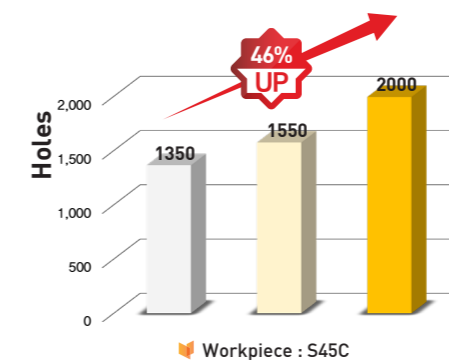
SCM440 / Wet, External / Blind Hole / Vc:80m/min, f:0.14mm/rev / Ap:14.5mm

04

Test Result

NDP Series

- Conventional
- Competitor
- New product

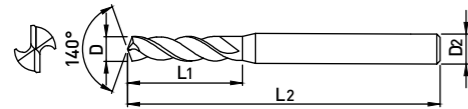


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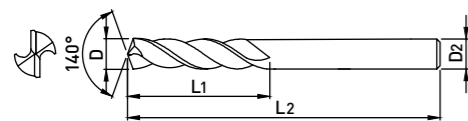


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NEW DYNAMIC POWER DRILL - REGULAR

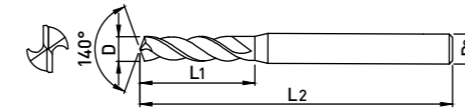
- The most economical drill supplying and optimum tooling in the wide range work piece
- Applying various work pieces with improment of wear resistance , wear resistance with optimum material and coating
- improvement of chip emission and tool life with developed surface treatment
- improvement of chip 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
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
NDPR052	5.2	36	66	6
NDPR053	5.3	36	66	6

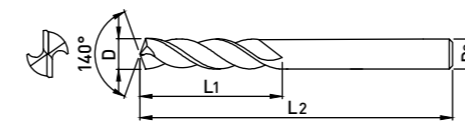


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- improvement of chip curling by applying new Gamma-Flute concept
- High precision work is possible without the need for separate centering and reamer operation



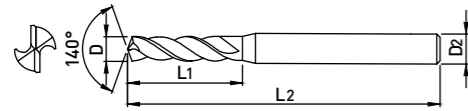
EDP No	D	L1	L2	D2
NDPR054	5.4	36	66	6
NDPR055	5.5	36	66	6
NDPR056	5.6	36	66	6
NDPR057	5.7	36	66	6
NDPR058	5.8	36	66	6
NDPR059	5.9	36	66	6
NDPR060	6	36	66	6
NDPR061	6.1	36	66	7
NDPR062	6.2	42	75	7
NDPR063	6.3	42	75	7
NDPR064	6.4	42	75	7
NDPR065	6.5	42	75	7
NDPR066	6.6	42	75	7
NDPR067	6.7	42	75	7
NDPR068	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
NDPR094	9.4	55	90	10
NDPR095	9.5	55	90	10
NDPR096	9.6	55	90	10
NDPR097	9.7	55	90	10

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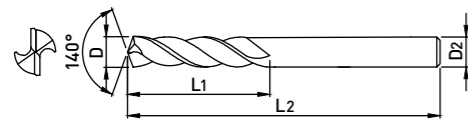


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NEW DYNAMIC POWER DRILL - REGULAR

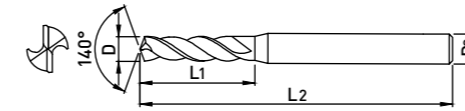
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EDP No	D	L1	L2	D2
NDPR098	9.8	55	90	10
NDPR099	9.9	55	90	10
NDPR100	10	55	90	10
NDPR101	10.1	55	90	11
NDPR102	10.2	57	95	11
NDPR103	10.3	57	95	11
NDPR104	10.4	57	95	11
NDPR105	10.5	57	95	11
NDPR106	10.6	57	95	11
NDPR107	10.7	57	95	11
NDPR108	10.8	57	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
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

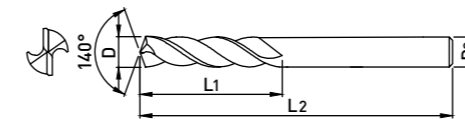


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EDP No	D	L1	L2	D2
NDPR142	14.2	67	111	15
NDPR143	14.3	67	111	15
NDPR144	14.4	67	111	15
NDPR145	14.5	67	111	15
NDPR146	14.6	67	111	15
NDPR147	14.7	67	111	15
NDPR148	14.8	67	111	15
NDPR149	14.9	67	111	15
NDPR150	15	67	111	15
NDPR151	15.1	67	111	16
NDPR152	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

NDP...SERIES

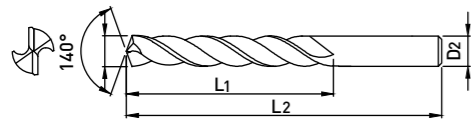
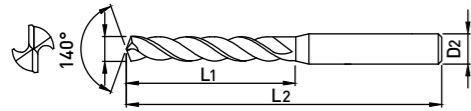
NDP...SERIES



NDPL

NEW DYNAMIC POWER DRILL - LONG

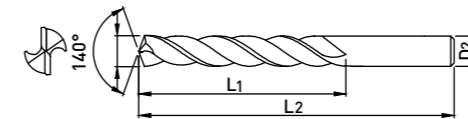
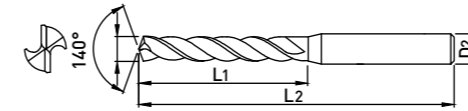
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NDPL

NEW DYNAMIC POWER DRILL - LONG

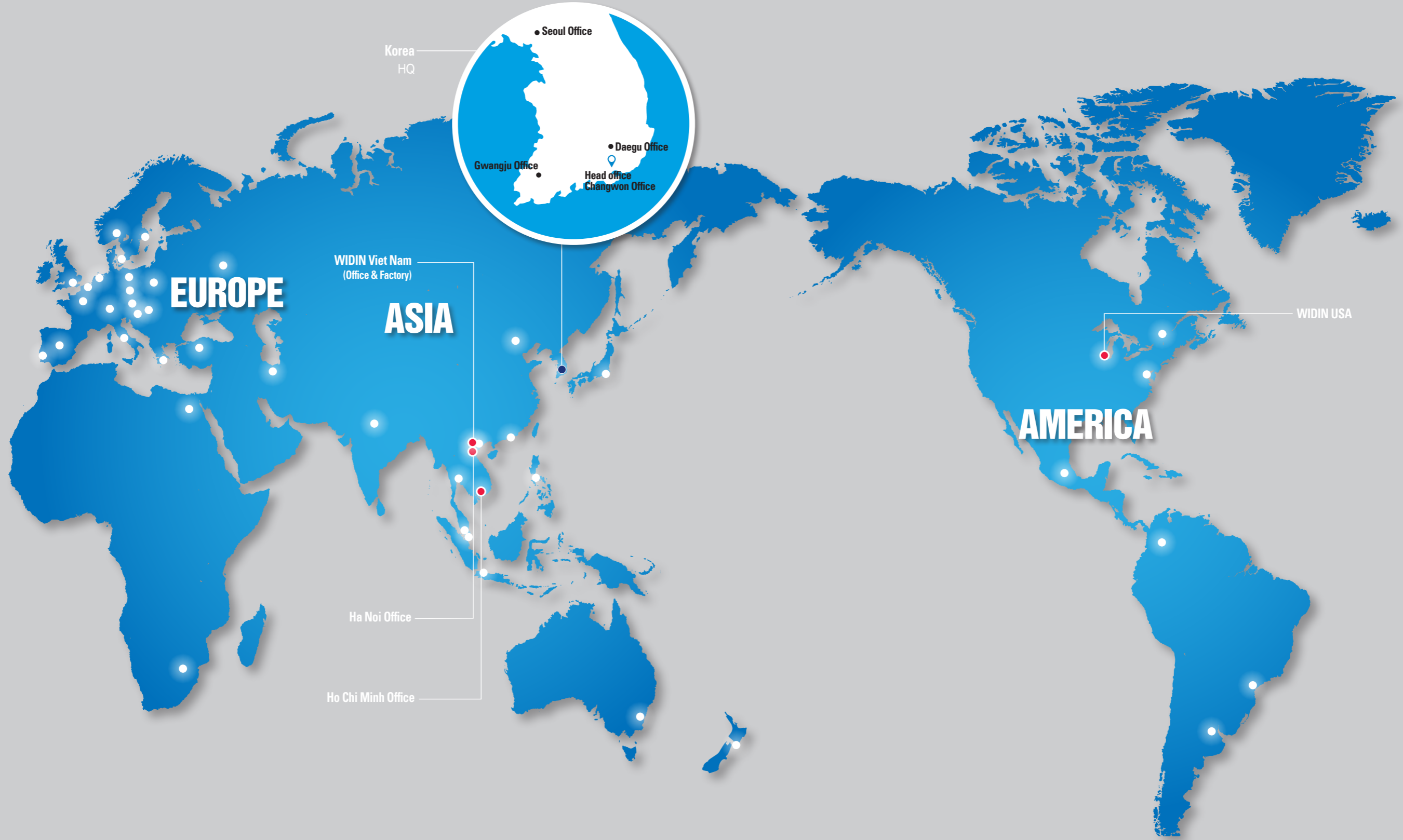
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EDP No	D	L1	L2	D2
NDPL 030	3	45	80	3
NDPL 031	3.1	45	80	4
NDPL 032	3.2	45	80	4
NDPL 033	3.3	45	80	4
NDPL 034	3.4	45	80	4
NDPL 035	3.5	45	80	4
NDPL 036	3.6	45	80	4
NDPL 037	3.7	45	80	4
NDPL 038	3.8	45	80	4
NDPL 039	3.9	45	80	4
NDPL 040	4	45	80	4
NDPL 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
NDPL 072	7.2	58	90	8
NDPL 073	7.3	58	90	8

EDP No	D	L1	L2	D2
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
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

GLOBAL NETWORK



2020.05



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