

PART D

DRILL

Korloy drills provide a total solution for hole making,
based on tooling know-how
as well as extensive research and
development for our tools.

Technical Information for DRILL

D2 KORLOY Drills

Indexable Drills

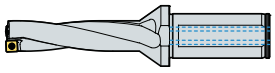
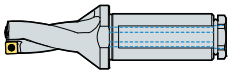
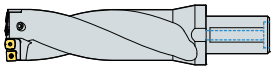
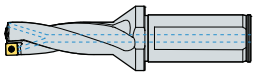
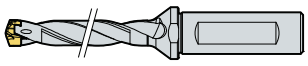
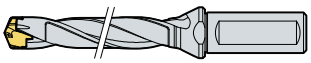
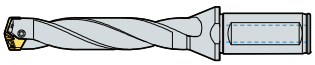
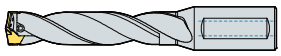
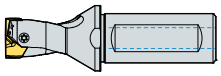
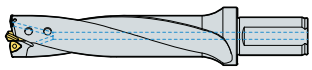
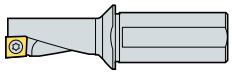
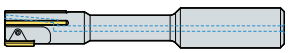
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Indexable Reamers

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Type	Designation		Shape	Drills dia.(Ø)	Aspect ratio	Page
Indexable Drills	**KING Drill**	**K□D**	 Available insert:SP□T, XO□T	Ø12.0~Ø60.5	2D~5D	D11 ~ D19
	KING Drill HP	**K□D..HP**	 Available insert:SP□T, XO□T	Ø12.0~Ø60.5	2D~4D	D21 ~ D23
	KING Drill (for large diameter drilling)	**K□D**	 Available insert:SP□T, XO□T	Ø61.0~Ø100.0	2D~4D	D25
	KED Plus Drill	**E□D**	 Available insert:SP□T, XO□T	Ø12.0~Ø60.5	2D~5D	D29 ~ D36
	TPDC Plus Drill	**TPDX**	 Available insert:TPD□□□□XP	Ø8.0~Ø11.9	3D~8D	D46
		TPDC	 Available insert:TPD□□□□C□	Ø12.0~Ø30.9	1.5D~12D	D49 ~ D51
	TPDB Plus Drill	**TPDB-P**	 Available insert:TPD□□□B	Ø10.0~Ø32.9	3D~12D	D60 ~ D64
		TPDB-DS	 Available insert:TPD□□□B–DS	Ø33.0~Ø39.9	3D~8D	D68
		TPDB-H	 Available insert:TPD□□□BP–H	Ø14.0~Ø32.9	3D~8D	D73 ~ D74
		TPDB-F	 Available insert:TPD□□□B–F	Ø14.0~Ø30.9	1.5D	D78
	Indexable Drills & Drill with center	**WPDC**	 Available insert:WC□T	Ø25.0~Ø80.0	5D~8D	D83 ~ D84
	Multi Turn	**MT**	 Available insert:QC□T	Ø10.0~Ø32.0	2.25D	D87
Reamer	Indexable Reamer	**IRT**	 Available insert: RI	Ø10.0~Ø31.0	3D~5D	D92
		IRB	 Available insert:RI	Ø10.0~Ø31.0	3D~5D	D93

Optimized insert design for maximum drilling efficiency

KING Drill

Code system

K | **5D** | **200** | **25** | **□** | **-** | **07**

KING / KORLOY

Aspect ratio (L/D)
2D, 3D, 4D, 5D

Drill diameter
Ø20.0 mm
(One decimal place marked)

Shank diameter
Ø20 mm
Ø25 mm
Ø32 mm
Ø40 mm

Shank shape
No mark : Flange Shank, Weldone
HP : Flange Shank, Weldon, PT Tap
F1 : Flange Shank, Whistle Notch
F2 : Flange Shank, Without Side Lock
S : Straight Shank, Weldone
S1 : Straight Shank, Whistle Notch
S2 : Straight Shank, Without Side Lock
M0, M1, M2, M3... : MT0, MT1, MT2, MT3...
H63, H100 : HSK63, HSK100
B30, B40, B50 : BT30, BT40, BT50

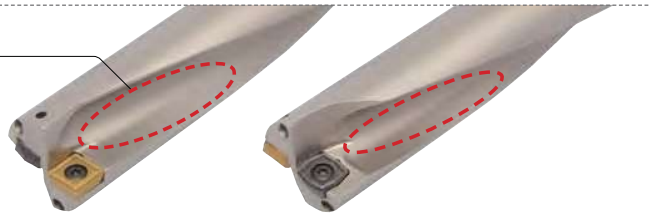
Inscribed circle of insert
04, 05, 06, 07, 09, 11, 13, 15, 18

Features

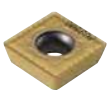
- Optimized design of inserts for maximum drilling efficiency
- Excellent cutting performance and chip control due to the optimized geometry and chip breaker of both inserts, central & peripheral
- Different inserts, optimized for the central and peripheral insert locations in order to maximize cutting tool life

Optimized flute system - 2 coolant holes applied

- The optimized shape of the flute increases the rigidity of the drill body and improves chip evacuation



Features of chip breaker

Chip breaker	PD		LD		ND		RD
Features	- Universal - At medium speed and medium feed		- Superior chip control for machining mild steel and stainless steel - Light cutting (at low~medium speed and low feed)		- Sharp cutting edge for aluminum machining - Insert surface buffed for high quality result - E Class tolerance		- Improved chipping resistance - Excellent performance in case of frequent fracture and chipping on the cutting edge
Insert	Peripheral insert	Central insert	Peripheral insert	Central insert	Peripheral insert	Central insert	Central insert
Shape							
Grades for workpiece	NC5330 : P, M, K PC3700 : P PC5300 : P, M, K, S PC6100 : K PC9540 : P, M, S	PC5300 : P, M, K, S PC9540 : P, M, S	PC5335 : P, M		H01 : N		PC5300 : P,M,K,S

Recommended cutting conditions

Workpiece				Insert			vc(m/min)	Aspect ratio (L/D) = 2D, 3D, 4D Feed rate (mm/rev) per drill dia. (mm)					
ISO		Workpiece	Hardness (HB)	Chip breaker	Grade			Ø12~Ø16	Ø17~Ø23	Ø24~Ø29	Ø30~Ø42	Ø43~Ø60	Ø61~Ø100
					Central	Peripheral							
P	Carbon steel	Low carbon steel	80~180	LD	PC5335	PC5335	120(60~170)	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08
				PD/RD	PC5300	PC3700	150(120~180)						
						NC5330	180(140~220)						
		High carbon steel	180~280	PD	PC5300	PC3700	120(90~150)	0.04~0.10	0.04~0.12	0.05~0.16	0.06~0.16	0.06~0.18	0.06~0.18
						NC5330	150(110~190)	0.04~0.06	0.04~0.07	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08
	Alloy steel	Low alloy steel	140~260	LD	PC5335	PC5335	120(60~160)	0.06~0.10	0.06~0.10	0.06~0.12	0.06~0.14	0.06~0.14	0.06~0.14
				PD	PC5300	PC3700	150(120~170)	0.06~0.12	0.06~0.12	0.06~0.14	0.06~0.16	0.06~0.16	0.06~0.16
						NC5330	180(140~210)	0.06~0.08	0.06~0.08	0.06~0.10	0.06~0.12	0.06~0.12	0.06~0.12
		Low alloy heattreated steel	200~400	PD	PC5300	PC5300	100(50~150)	0.04~0.10	0.06~0.10	0.06~0.12	0.06~0.14	0.06~0.14	0.06~0.14
		High alloy steel	260~320	PD	PC5300	PC3700	100(50~160)	0.05~0.11	0.05~0.11	0.05~0.13	0.05~0.15	0.05~0.15	0.05~0.15
		High alloy heattreated steel	300~450	PD	PC5300	PC5300	70(30~120)	0.04~0.08	0.06~0.08	0.06~0.10	0.06~0.12	0.06~0.12	0.06~0.12
M	Stainless steel	Stainless steel	135-275	LD	PC5335	PC5335	120(80~140)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08	0.04~0.08
				PD	PC5300	PC5300	130(100~160)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08	0.04~0.08
					PC9540	PC9540	90(60~120)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08	0.04~0.08
K	Cast iron	Gray cast iron	150~230	PD	PC5300	PC6100	190(150~250)	0.04~0.12	0.05~0.14	0.06~0.18	0.10~0.22	0.10~0.26	0.10~0.26
		Ductile cast iron	150~230	PD	PC5300	PC6100	130(100~160)	0.04~0.07	0.04~0.08	0.04~0.10	0.05~0.12	0.05~0.12	0.05~0.12
S	Heat resisting alloy	Ni-heat resisting alloy	130~400	PD	PC5300	PC5300	50(30~100)	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10
					PC9540	PC9540	40(20~80)	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10
		Ti-heat resisting alloy	130~400	LD	PC5335	PC5335	60(40~80)	0.04~0.08	0.04~0.10	0.06~0.12	0.06~0.14	0.06~0.16	0.06~0.16
				PD	PC5300	PC5300	60(40~80)	0.04~0.08	0.04~0.10	0.06~0.12	0.06~0.14	0.06~0.16	0.06~0.16
		High hardened steel	400 Over	PD	PC5300	PC5300	40(20~80)	0.04~0.05	0.04~0.06	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08
N	Aluminium	Aluminium	30~150	ND	H01	H01	300(250~400)	0.05~0.14	0.06~0.16	0.10~0.20	0.10~0.22	0.12~0.25	0.12~0.25
		Alloyed copper	150-160	ND	H01	H01	250(200~300)	0.05~0.14	0.06~0.16	0.10~0.20	0.10~0.22	0.12~0.25	0.12~0.25

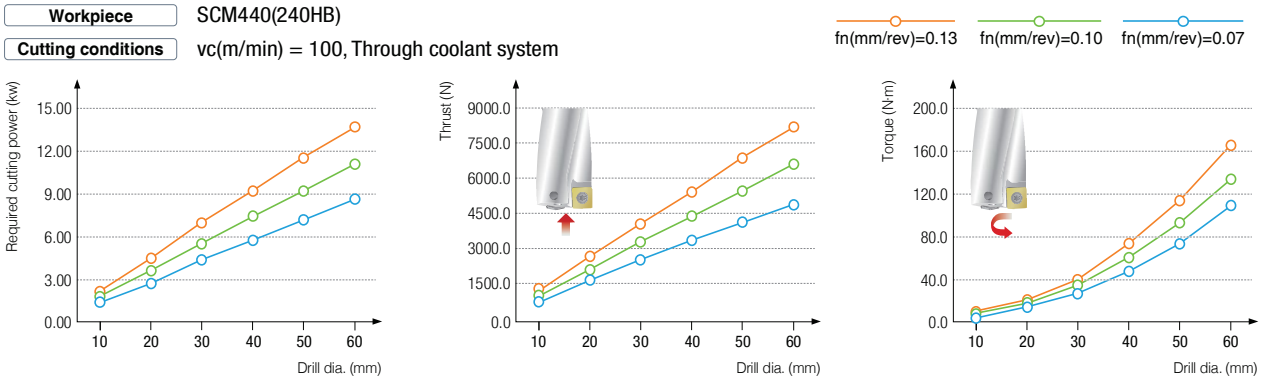
• The Max. feed of 5D holders is 70%~80% of the max. conditions of 2D/3D/4D holders
• In interrupted machining part, reduce 30~50% of feed from the above machining around interrupted part

Required cutting power

- The graphs below show the cutting force required in drilling
- Machining with the KING Drill and a machine with high rigidity and power

Workpiece SCM440(240HB)

Cutting conditions vc(m/min) = 100, Through coolant system

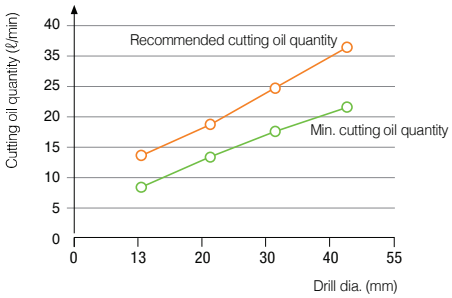


Cutting oil quantity

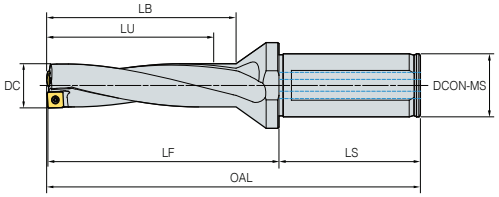
Workpiece SCM440(240HB)

Cutting conditions vc(m/min) = 100, Through coolant system

※ The data of the graph above could be changed depending on workpiece and cutting condition



Drill tolerance and hole tolerance



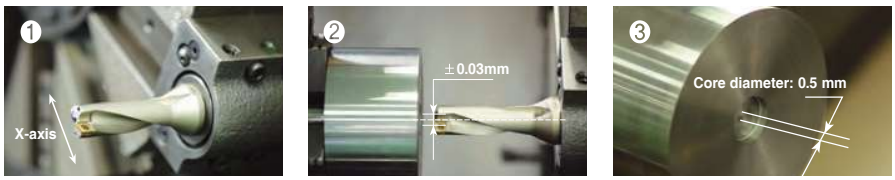
(mm)

Drill dia.(DC)		Ø12 ~ Ø29	Ø30 ~ Ø45	Ø46 ~ Ø60.5
2D~3D	Drill tolerance	0 ~ -0.15	0 ~ -0.15	0 ~ -0.15
	Hole tolerance	+0.2 ~ -0.1	+0.25 ~ -0.1	+0.28 ~ -0.1
4D~5D	Drill tolerance	0 ~ -0.15	0 ~ -0.15	0 ~ -0.15
	Hole tolerance	+0.25 ~ -0.05	+0.3 ~ -0.05	+0.33 ~ -0.05

Notice for setting the drill in the lathe

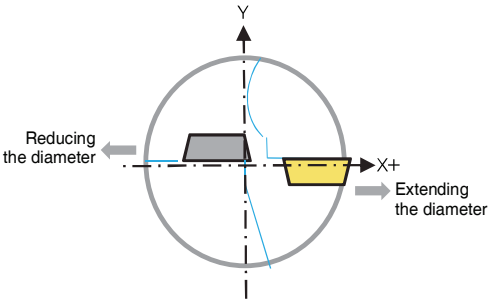
- Set the peripheral insert parallel to the X axis. (based on the side lock)
- If the machined core is 0.5 mm after machining 5 mm, that is the proper setting

※ Please make sure that the location of the side lock could be different depending on manufacturers of machine



Range of adjusting machining diameter in the lathe

- In machining in the lathe, the KING Drill can extend and reduce the machining diameter by adjusting the x-axis. Please refer to the table showing the range of adjusting drilling diameter below
- The more the drilling diameter is extended or reduced, the more the drill loses drilling balance. In this case, reduce the feed or cutting speed in machining
- Reducing the machining diameter excessively could damage the holder



(mm)

Drill dia. (Ø)	Range of adjusting drilling diameter (Ø)	Drill dia. (Ø)	Range of adjusting drilling diameter (Ø)	Drill dia. (Ø)	Range of adjusting drilling diameter (Ø)	Drill dia. (Ø)	Range of adjusting drilling diameter (Ø)
12.0	11.7~12.4	24.5	23.9~25.1	37.0	36.3~37.7	49.5	48.7~50.2
12.5	12.2~12.9	25.0	24.4~25.6	37.5	36.8~38.2	50.0	49.2~50.7
13.0	12.7~13.4	25.5	24.9~26.1	38.0	37.3~38.7	50.5	49.7~51.2
13.5	13.2~13.9	26.0	25.4~26.6	38.5	37.8~39.2	51.0	50.2~51.7
14.0	13.6~14.5	26.5	25.9~27.1	39.0	38.3~39.7	51.5	50.7~52.2
14.5	14.1~15.0	27.0	26.4~27.6	39.5	38.8~40.2	52.0	51.2~52.7
15.0	14.6~15.5	27.5	26.9~28.1	40.0	39.3~40.7	52.5	51.7~53.2
15.5	15.1~16.0	27.8	27.4~28.6	40.5	39.8~41.2	53.0	52.2~53.7
16.0	15.6~16.5	28.5	27.9~29.1	41.0	40.3~41.7	53.5	52.7~54.2
16.5	16.0~17.0	29.0	28.4~29.6	41.5	40.8~42.2	54.0	53.2~54.7
17.0	16.5~17.5	29.5	28.9~30.1	42.0	41.3~42.7	54.5	53.7~55.2
17.5	17.0~18.0	30.0	29.3~30.7	42.5	41.8~43.2	55.0	54.2~55.7
18.0	17.5~18.5	30.5	29.8~31.2	43.0	42.2~43.7	55.5	54.7~56.2
18.5	18.0~19.0	31.0	30.3~31.7	43.5	42.7~44.2	56.0	55.2~56.7
19.0	18.5~19.5	31.5	30.8~32.2	44.0	43.2~44.7	56.5	55.7~57.2
19.5	19.0~20.0	32.0	31.3~32.7	44.5	43.7~45.2	57.0	56.2~57.7
20.0	19.4~20.6	32.5	31.8~33.2	45.0	44.2~45.7	57.5	56.7~58.2
20.5	19.9~21.1	33.0	32.3~33.7	45.5	44.7~46.2	58.0	57.2~58.7
21.0	20.4~21.6	33.5	32.8~34.2	46.0	45.2~46.7	58.5	57.7~59.2
21.5	20.9~22.1	34.0	33.3~34.7	46.5	45.7~47.2	59.0	58.2~59.7
22.0	21.4~22.6	34.5	33.8~35.2	47.0	46.2~47.7	59.5	58.7~60.2
22.5	21.9~23.1	35.0	34.3~35.7	47.5	46.7~48.2	60.0	59.2~60.7
23.0	22.4~23.6	35.5	34.8~36.2	48.0	47.2~48.7	60.5	59.7~61.2
23.5	22.9~24.1	36.0	35.3~36.7	48.5	47.7~49.2		
24.0	23.4~24.6	36.5	35.8~37.2	49.0	48.2~49.7		

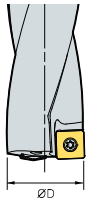
Insert and parts

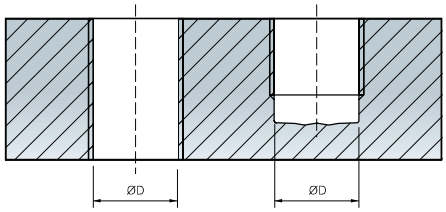
Drill dia. (mm)	Peripheral insert	Central insert	Screw	Wrench	Torque (N•m)
Ø12.0~Ø13.5	SP□T040204-□□	XO□T040204-□□	FTNA0204	TW06P	0.4
Ø13.6~Ø16.0	SP□T050204-□□	XO□T050204-□□	FTNA0204	TW06P	0.4
Ø16.1~Ø19.5	SP□T060205-□□	XO□T060204-□□	FTKA02206S	TW07P	0.8
Ø19.6~Ø23.5	SP□T07T208-□□	XO□T07T205-□□	FTKA02565	TW07S	0.8
Ø23.6~Ø29.5	SP□T090308-□□	XO□T090305-□□	FTKA0307	TW09S	1.2
Ø29.6~Ø35.5	SP□T11T308-□□	XO□T11T306-□□	FTKA03508	TW15S	3
Ø35.6~Ø42.5	SP□T130410-□□	XO□T130406-□□	FTKA0410	TW15S	3
Ø42.6~Ø50.5	SP□T15M510-□□	XO□T15M508-□□	FTNC04511	TW20S	5
Ø50.6~Ø60.5	SP□T180510-□□	XO□T180508-□□	FTNA0511	TW20-100	5

- In clamping an insert, please clean the tip seat and apply CASMOLY1000 on the screw
- Please make sure to use a Korloy-produced wrench and screw only

KING Drill - for machining a tap foundation hole

- There are two types of specifications of tap, metric and inch. The KING Drill is available for machining both thru tap and blind tap





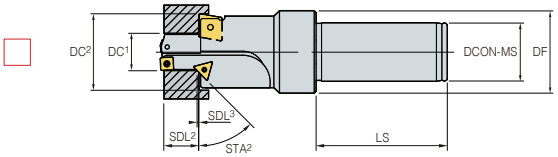
Thru tap Blind tap

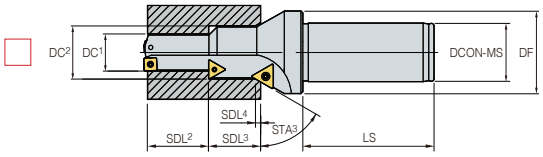
(mm)

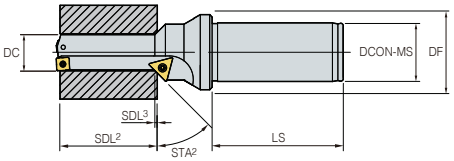
Tap type	Thread	ØD	Designation	Reference
Mertic	M14 x 2.0	12.0	K3D12020-04	F13
	M16 x 2.0	14.0	K3D14020-05	F13
	M18 x 2.5	15.5	K3D15520-05	F13
	M20 x 2.5	17.5	K3D17525-06	F13
	M22 x 2.5	19.5	K3D19525-06	F13
	M24 x 3.0	21.0	K3D21025-07	F13
	M27 x 3.0	24.0	K3D24032-09	F13
	M30 x 3.5	26.5	K3D26532-09	F13
	M33 x 4.0	29.0	K3D29032-09	F13
	M36 x 4.0	32.0	K3D30032-11	F14
	M39 x 4.0	35.0	K3D35032-11	F14
	M42 x 4.5	37.5	K3D37540-13	F14
Inch	9/16-12 UNC	12.2	K3D12220-04	F13
	5/8-11 UNC	13.5	K3D13520-04	F13
	3/4-10 UNC	16.5	K3D16525-06	F13
	7/8-9 UNC	19.5	K3D19525-06	F13
	9/16-18 UNF	12.9	K3D12920-04	F13
	5/8-18 UNF	14.5	K3D14520-05	F13
	3/4-16 UNF	17.5	K3D17525-06	F13

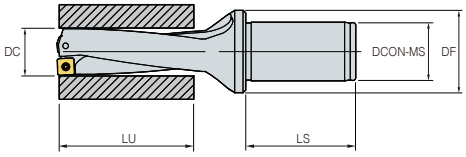
- The same applies to DC value KED Plus Drill

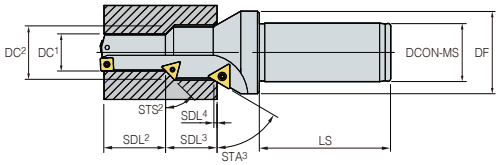
Special Drill Order Form











Coolant type

- ☐ Through coolant Plug type (Standard)
- ☐ Through coolant Non plug type
- ☐ No coolant



Hole type

- ☐ Blind hole
- ☐ Thru hole

Types of shank



- ☐ Flat Type



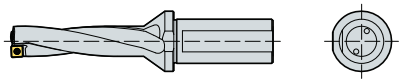
- ☐ Weldon Type



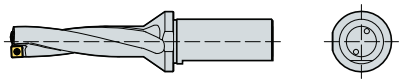
- ☐ Whistle Notch Type

Location of side lock

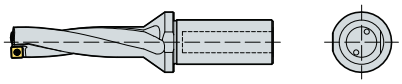
- ☐ Parallel to peripheral insert (standard)



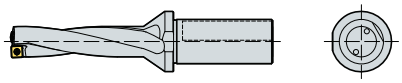
- ☐ 90°angle to peripheral insert (standard)



- ☐ 180°angle to peripheral insert (standard)



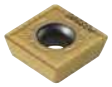
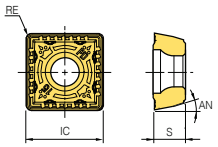
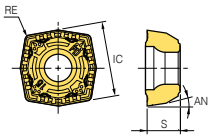
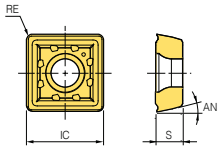
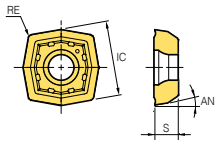
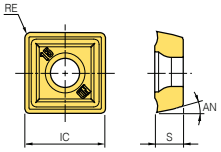
- ☐ 270° angle to peripheral insert (standard)



Note

- Currently using tool:
- Current cutting condition
  - RPM or vc (m/min):
  - vf (mm/min) or fn (mm/rev):
  - Depth of cut (mm):
- Standard of measuring tool life:
- Currently using machine
  - Machining center:
  - General lathe:
  - CNC lathe:

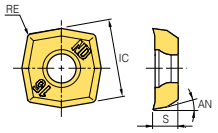
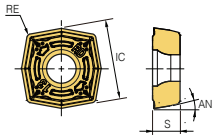
Available insert

Picture	Designation	Coated							Uncoated	Dimension (mm)					Configuration
		NC5330	NCM535	PC3700	PC6100	PC9540	PC5335	PC5300	H01	IC	S	RE	AN	CEDC	
[Peripheral] **SPMT-PD**  Universal	040204-PD	●	●	●	●	●		●		4.7	2.4	0.4	11	4	
	050204-PD	●	●	●	●	●		●		5.1	2.4	0.4	11	4	
	060205-PD	●	●	●	●	●		●		6.2	2.5	0.5	11	4	
	07T208-PD	●	●	●	●	●		●		7.5	2.87	0.8	11	4	
	090308-PD	●	●	●	●	●		●		9.2	3.3	0.8	11	4	
	11T308-PD	●	●	●	●	●		●		11	4	0.8	11	4	
	130410-PD	●	●	●	●	●		●		13	4.5	1	11	4	
	15M510-PD	●	●	●	●	●		●		15.2	5	1	11	4	
	180510-PD	●	●	●	●	●		●		18.2	5.5	1	11	4	
[Central] **XOMT-PD**  Universal	040204-PD					●		●		4.9	2.4	0.4	9	4	
	050204-PD					●		●		5.4	2.4	0.4	9	4	
	060204-PD					●		●		6.6	2.5	0.4	9	4	
	07T205-PD					●		●		7.8	2.8	0.5	9	4	
	090305-PD					●		●		9.6	3.3	0.5	9	4	
	11T306-PD					●		●		11.4	4	0.6	9	4	
	130406-PD					●		●		13.6	4.5	0.6	9	4	
	15M508-PD					●		●		15.9	5	0.8	9	4	
	180508-PD					●		●		18.9	5.5	0.8	9	4	
[Peripheral] **SPMT-LD**  Mild steel	060205-LD						●			6.2	2.5	0.5	11	4	
	07T208-LD						●			7.5	2.8	0.8	11	4	
	090308-LD						●			9.2	3.3	0.8	11	4	
	11T308-LD						●			11	4	0.8	11	4	
	130410-LD						●			13	4.5	1	11	4	
	15M510-LD						●			15.2	5	1	11	4	
	180510-LD						●			18.2	5.5	1	11	4	
[Central] **XOMT-LD**  Mild steel	060204-LD						●			6.6	2.5	0.4	9	4	
	07T205-LD						●			7.8	2.8	0.5	9	4	
	090305-LD						●			9.6	3.3	0.5	9	4	
	11T306-LD						●			11.4	4	0.6	9	4	
	130406-LD						●			13.6	4.5	0.6	9	4	
	15M508-LD						●			15.9	5	0.8	9	4	
	180508-LD						●			18.9	5.5	0.8	9	4	
[Peripheral] **SPET-ND**  Al	040204-ND								●	4.7	2.4	0.4	11	4	
	050204-ND								●	5.1	2.4	0.4	11	4	
	060205-ND								●	6.2	2.5	0.5	11	4	
	07T208-ND								●	7.5	2.8	0.8	11	4	
	090308-ND								●	9.2	3.3	0.8	11	4	
	11T308-ND								●	11	4	0.8	11	4	
	130410-ND								●	13	4.5	1	11	4	
	15M510-ND								●	15.2	5	1	11	4	
	180510-ND								●	18.2	5.5	1	11	4	

Applicable holders **D11 ~ D19**

● : Stock Item

Available insert

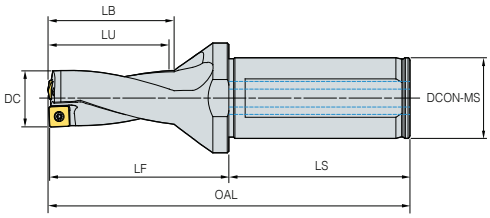
Picture	Designation	Coated							Uncoated	Dimension (mm)					Configuration
		NC5330	NCM535	PC3700	PC6100	PC9540	PC5335	PC5300	H01	IC	S	RE	AN	CEDC	
[Central] XOET-ND  Al	040204-ND								●	4.9	2.4	0.4	9	4	
	050204-ND								●	5.4	2.4	0.4	9	4	
	060204-ND								●	6.6	2.5	0.4	9	4	
	07T205-ND								●	7.8	2.8	0.5	9	4	
	090305-ND								●	9.6	3.3	0.5	9	4	
	11T306-ND								●	11.4	4	0.6	9	4	
	130406-ND								●	13.6	4.5	0.6	9	4	
	15M508-ND								●	15.9	5	0.8	9	4	
	180508-ND								●	18.9	5.5	0.8	9	4	
[Central] XOMT-RD  Rein fored cutting-edge	07T207-RD							●		7.8	2.8	0.7	9	4	
	090308-RD							●		9.6	3.3	0.8	9	4	
	11T309-RD							●		11.4	4	0.9	9	4	
	130410-RD							●		13.6	4.5	1	9	4	
	15M511-RD							●		15.9	5	1.1	9	4	
	180512-RD							●		18.9	5.5	1.2	9	4	

Applicable holders **D11 ~ D19**

● : Stock Item

KING Drill(2D)





(mm)

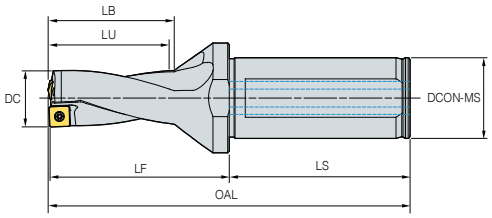
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K2D	12020-04*	●	12	20	24	40.71	27	50	91	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	●	12.5	20	24	40.71	27	50	91			
	13020-04	●	13	20	26	42.71	29	50	93			
	13520-04*	●	13.5	20	26	42.71	29	50	93			
	14020-05*	●	14	20	28	45.6	31	50	96	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05*	●	14.5	20	28	45.6	31	50	96			
	15020-05	●	15	20	30	48.6	33	50	99			
	15520-05*	●	15.5	20	30	48.5	33	50	99			
	16020-05	●	16	20	32	50.5	35	50	101			
	16525-06*	●	16.5	25	32	50.6	35	56	107	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06	●	17	25	34	52.6	37	56	109			
	17525-06*	●	17.5	25	34	52.5	37	56	109			
	18025-06	●	18	25	36	55.5	39	56	112			
	18525-06	●	18.5	25	36	55.5	39	56	112			
	19025-06	●	19	25	38	57.4	41	56	114			
	19525-06*	●	19.5	25	38	57.4	41	56	114			
	20025-07	●	20	25	40	61.5	43	56	118	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07	●	20.5	25	40	61.4	43	56	118			
	21025-07*	●	21	25	42	63.4	45	56	120			
	21525-07	●	21.5	25	42	63.4	45	56	120			
	22025-07	●	22	25	44	65.4	47	56	122			
	22525-07	●	22.5	25	44	65.3	47	56	122			
	23025-07	●	23	25	46	69.3	49	56	126			
	23525-07	●	23.5	25	46	69.3	49	56	126			
	24032-09*	●	24	32	48	72.4	51	60	133	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09	●	24.5	32	48	72.4	51	60	133			
	25032-09	●	25	32	50	74.3	53	60	135			
	25532-09	●	25.5	32	50	74.3	53	60	135			
	26032-09	●	26	32	52	76.3	55	60	137			
	26532-09*	●	26.5	32	52	76.3	55	60	137			
	27032-09	●	27	32	54	79.2	57	60	140			
	27532-09	●	27.5	32	54	79.2	57	60	140			
	28032-09	●	28	32	56	82.2	59	60	143			
	28532-09	●	28.5	32	56	82.2	59	60	143			
	29032-09	●	29	32	58	84.1	61	60	145			
	29532-09*	●	29.5	32	58	84.1	61	60	145			
	30032-11	●	30	32	60	89	63	60	150	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	●	30.5	32	60	89	63	60	150			
	31032-11	●	31	32	62	91	65	60	152			
	31532-11	●	31.5	32	62	91	65	60	152			
	32032-11*	●	32	32	64	93	67	60	154			
	32532-11	●	32.5	32	64	93	67	60	154			
	33032-11	●	33	32	66	96	69	60	157			
	33532-11	●	33.5	32	66	96	69	60	157			
	34032-11	●	34	32	68	98	71	60	159			
	34532-11	●	34.5	32	68	97.9	71	60	159			
	35032-11*	●	35	32	70	99.9	73	60	161			
	35532-11	●	35.5	32	70	99.9	73	60	161			

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(2D)





(mm)

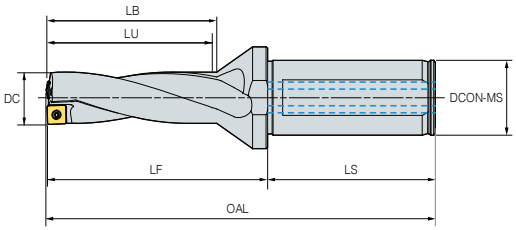
	Designation	Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K2D	36040-13	●	36	40	72	105.1	76	70	176	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	●	36.5	40	72	105	76	70	176			
	37040-13	●	37	40	74	107	78	70	178			
	37540-13*	●	37.5	40	74	107	78	70	178			
	38040-13	●	38	40	76	109.9	80	70	181			
	38540-13	●	38.5	40	76	109.9	80	70	181			
	39040-13	●	39	40	78	111.9	82	70	183			
	39540-13	●	39.5	40	78	111.9	82	70	183			
	40040-13	●	40	40	80	114.8	84	70	186			
	40540-13	●	40.5	40	80	114.8	84	70	186			
	41040-13	●	41	40	82	116.8	86	70	188			
	41540-13	●	41.5	40	82	116.8	86	70	188			
	42040-13	●	42	40	84	119.7	88	70	191			
	42540-13	●	42.5	40	84	119.7	88	70	191			
	43040-15	●	43	40	86	124.8	91	70	196	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15	●	43.5	40	86	124.8	91	70	196			
	44040-15	●	44	40	88	126.8	93	70	198			
	44540-15	●	44.5	40	88	126.7	93	70	198			
	45040-15	●	45	40	90	129.7	95	70	201			
	45540-15	●	45.5	40	90	129.7	95	70	201			
	46040-15	●	46	40	92	131.7	97	70	203			
	46540-15	●	46.5	40	92	131.6	97	70	203			
	47040-15	●	47	40	94	134.6	99	70	206			
	47540-15	●	47.5	40	94	134.6	99	70	206			
	48040-15	●	48	40	96	136.6	101	70	208			
	48540-15	●	48.5	40	96	136.5	101	70	208			
	49040-15	●	49	40	98	138.5	103	70	210			
	49540-15	●	49.5	40	98	138.5	103	70	210			
	50040-15	●	50	40	100	140.5	105	70	212			
	50540-15	●	50.5	40	100	140.5	105	70	212			
	51040-18	●	51	40	102	146.6	108	70	218	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18		51.5	40	102	146.6	108	70	218			
	52040-18	●	52	40	104	148.6	110	70	220			
	52540-18		52.5	40	104	148.5	110	70	220			
	53040-18	●	53	40	106	150.5	112	70	222			
	53540-18		53.5	40	106	150.5	112	70	222			
	54040-18	●	54	40	108	152.4	114	70	224			
	54540-18		54.5	40	108	152.4	114	70	224			
	55040-18	●	55	40	110	154.4	116	70	226			
	55540-18		55.5	40	110	154.4	116	70	226			
	56040-18	●	56	40	112	158.3	118	70	230			
	56540-18		56.5	40	112	158.3	118	70	230			
	57040-18	●	57	40	114	161.3	121	70	233			
	57540-18		57.5	40	114	161.3	121	70	233			
	58040-18	●	58	40	116	164.2	124	70	236			
	58540-18		58.5	40	116	164.2	124	70	236			
	59040-18	●	59	40	118	167.2	127	70	239			
	59540-18		59.5	40	118	167.2	127	70	239			
	60040-18	●	60	40	120	170.2	130	70	242			
	60540-18		60.5	40	120	170.2	130	70	242			

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(3D)





(mm)

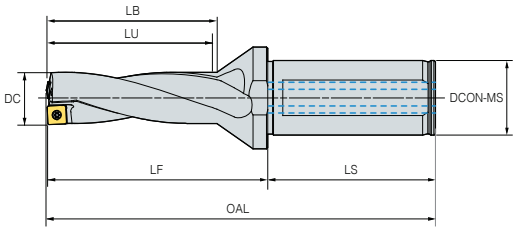
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K3D	12020-04*	●	12	20	36	52.71	39	50	103	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12220-04*	●	12.2	20	36	52.71	39	50	103			
	12520-04	●	12.5	20	36	52.71	39	50	103			
	12920-04*	●	12.9	20	36	55.71	42	50	106			
	13020-04	●	13	20	39	55.71	42	50	106			
	13520-04*	●	13.5	20	39	55.71	42	50	106			
	14020-05*	●	14	20	42	59.6	45	50	110	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05*	●	14.5	20	42	59.6	45	50	110			
	15020-05	●	15	20	45	63.6	48	50	114			
	15520-05*	●	15.5	20	45	63.5	48	50	114			
	16020-05	●	16	20	48	66.5	51	50	117			
	16525-06*	●	16.5	25	48	66.6	51	56	123	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06	●	17	25	51	69.6	54	56	126			
	17525-06*	●	17.5	25	51	69.5	54	56	126			
	18025-06	●	18	25	54	73.5	57	56	130			
	18525-06	●	18.5	25	54	73.5	57	56	130			
	19025-06	●	19	25	57	76.4	60	56	133			
	19525-06*	●	19.5	25	57	76.4	60	56	133			
	20025-07	●	20	25	60	81.5	63	56	138	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07	●	20.5	25	60	81.4	63	56	138			
	21025-07*	●	21	25	63	84.4	66	56	141			
	21525-07	●	21.5	25	63	84.4	66	56	141			
	22025-07	●	22	25	66	87.4	69	56	144			
	22525-07	●	22.5	25	66	87.3	69	56	144			
	23025-07	●	23	25	69	92.3	72	56	149			
	23525-07	●	23.5	25	69	92.3	72	56	149			
	24032-09*	●	24	32	72	96.4	75	60	157	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09	●	24.5	32	72	96.4	75	60	157			
	25032-09	●	25	32	75	99.3	78	60	160			
	25532-09	●	25.5	32	75	99.3	78	60	160			
	26032-09	●	26	32	78	102.3	81	60	163			
	26532-09*	●	26.5	32	78	102.3	81	60	163			
	27032-09	●	27	32	81	106.2	84	60	167			
	27532-09	●	27.5	32	81	106.2	84	60	167			
	28032-09	●	28	32	84	110.2	87	60	171			
	28532-09	●	28.5	32	84	110.2	87	60	171			
	29032-09	●	29	32	87	113.1	90	60	174			
	29532-09*	●	29.5	32	87	113.1	90	60	174			

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(3D)





(mm)

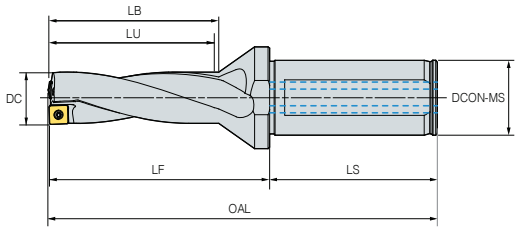
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K3D	30032-11	●	30	32	90	119	93	60	180	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	●	30.5	32	90	119	93	60	180			
	31032-11	●	31	32	93	122	96	60	183			
	31532-11	●	31.5	32	93	122	96	60	183			
	32032-11*	●	32	32	96	125	99	60	186			
	32532-11	●	32.5	32	96	125	99	60	186			
	33032-11	●	33	32	99	129	102	60	190			
	33532-11	●	33.5	32	99	129	102	60	190			
	34032-11	●	34	32	102	132	105	60	193			
	34532-11	●	34.5	32	102	131.9	105	60	193			
	35032-11*	●	35	32	105	134.9	108	60	196			
	35532-11	●	35.5	32	105	134.9	108	60	196			
	36040-13	●	36	40	108	141.1	112	70	212	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	●	36.5	40	108	141	112	70	212			
	37040-13	●	37	40	111	144	115	70	215			
	37540-13*	●	37.5	40	111	144	115	70	215			
	38040-13	●	38	40	114	147.9	118	70	219			
	38540-13	●	38.5	40	114	147.9	118	70	219			
	39040-13	●	39	40	117	150.9	121	70	222			
	39540-13	●	39.5	40	117	150.9	121	70	222			
	40040-13	●	40	40	120	154.8	124	70	226			
	40540-13	●	40.5	40	120	154.8	124	70	226			
	41040-13	●	41	40	123	157.8	127	70	229			
	41540-13	●	41.5	40	123	157.8	127	70	229			
	42040-13	●	42	40	126	161.7	130	70	233			
	42540-13	●	42.5	40	126	161.7	130	70	233			
	43040-15	●	43	40	129	167.8	134	70	239	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15	●	43.5	40	129	167.8	134	70	239			
	44040-15	●	44	40	132	170.8	137	70	242			
	44540-15	●	44.5	40	132	170.7	137	70	242			
	45040-15	●	45	40	135	174.7	140	70	246			
	45540-15	●	45.5	40	135	174.7	140	70	246			
	46040-15	●	46	40	138	177.7	143	70	249			
	46540-15	●	46.5	40	138	177.6	143	70	249			
	47040-15	●	47	40	141	181.6	146	70	253			
	47540-15	●	47.5	40	141	181.6	146	70	253			
	48040-15	●	48	40	144	184.6	149	70	256			
	48540-15	●	48.5	40	144	184.5	149	70	256			
	49040-15	●	49	40	147	187.5	152	70	259			
	49540-15	●	49.5	40	147	187.5	152	70	259			
	50040-15	●	50	40	150	190.5	155	70	262			
	50540-15	●	50.5	40	150	190.5	155	70	262			

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(3D)





(mm)

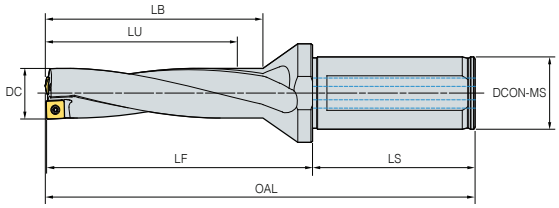
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K3D	51040-18	●	51	40	153	197.6	159	70	269	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18		51.5	40	153	197.6	159	70	269			
	52040-18	●	52	40	156	200.6	162	70	272			
	52540-18		52.5	40	156	200.5	162	70	272			
	53040-18	●	53	40	159	203.5	165	70	275			
	53540-18		53.5	40	159	203.5	165	70	275			
	54040-18	●	54	40	162	206.4	168	70	278			
	54540-18		54.5	40	162	206.4	168	70	278			
	55040-18	●	55	40	165	209.4	171	70	281			
	55540-18		55.5	40	165	209.4	171	70	281			
	56040-18	●	56	40	168	214.3	174	70	286			
	56540-18		56.5	40	168	214.3	174	70	286			
	57040-18	●	57	40	171	218.3	178	70	290			
	57540-18		57.5	40	171	218.3	178	70	290			
	58040-18	●	58	40	174	222.2	182	70	294			
	58540-18		58.5	40	174	222.2	182	70	294			
	59040-18	●	59	40	177	226.2	186	70	298			
	59540-18		59.5	40	177	226.2	186	70	298			
	60040-18	●	60	40	180	230.2	190	70	302			
	60540-18		60.5	40	180	230.2	190	70	302			

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(4D)





(mm)

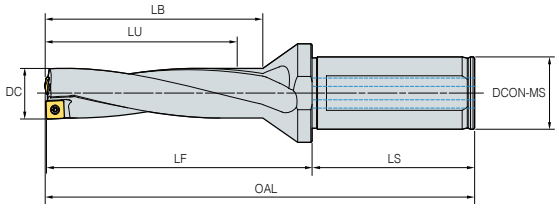
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K4D	12020-04*	●	12	20	48	64.71	51	50	115	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	●	12.5	20	48	64.71	51	50	115			
	13020-04	●	13	20	52	68.71	55	50	119			
	13520-04*	●	13.5	20	52	68.71	55	50	119			
	14020-05*	●	14	20	56	73.6	59	50	124	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05*	●	14.5	20	56	73.6	59	50	124			
	15020-05	●	15	20	60	78.6	63	50	129			
	15520-05*	●	15.5	20	60	78.5	63	50	129			
	16020-05	●	16	20	64	82.5	67	50	133			
	16525-06*	●	16.5	25	64	82.6	67	56	139	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06	●	17	25	68	86.6	71	56	143			
	17525-06*	●	17.5	25	68	86.5	71	56	143			
	18025-06	●	18	25	72	91.5	75	56	148			
	18525-06	●	18.5	25	72	91.5	75	56	148			
	19025-06	●	19	25	76	95.4	79	56	152			
	19525-06*	●	19.5	25	76	95.4	79	56	152			
	20025-07	●	20	25	80	101.5	83	56	158	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07	●	20.5	25	80	101.4	83	56	158			
	21025-07*	●	21	25	84	105.4	87	56	162			
	21525-07	●	21.5	25	84	105.4	87	56	162			
	22025-07	●	22	25	88	109.4	91	56	166			
	22525-07	●	22.5	25	88	109.3	91	56	166			
	23025-07	●	23	25	92	115.3	95	56	172			
	23525-07	●	23.5	25	92	115.3	95	56	172			
	24032-09*	●	24	32	96	120.4	99	60	181	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09	●	24.5	32	96	120.4	99	60	181			
	25032-09	●	25	32	100	124.3	103	60	185			
	25532-09	●	25.5	32	100	124.3	103	60	185			
	26032-09	●	26	32	104	128.3	107	60	189			
	26532-09*	●	26.5	32	104	128.3	107	60	189			
	27032-09	●	27	32	108	133.2	111	60	194			
	27532-09	●	27.5	32	108	133.2	111	60	194			
	28032-09	●	28	32	112	138.2	115	60	199			
	28532-09	●	28.5	32	112	138.2	115	60	199			
	29032-09	●	29	32	116	142.1	119	60	203			
	29532-09*	●	29.5	32	116	142.1	119	60	203			
	30032-11	●	30	32	120	149	123	60	210	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	●	30.5	32	120	149	123	60	210			
	31032-11	●	31	32	124	153	127	60	214			
	31532-11	●	31.5	32	124	153	127	60	214			
	32032-11*	●	32	32	128	157	131	60	218			
	32532-11	●	32.5	32	128	157	131	60	218			
	33032-11	●	33	32	132	162	135	60	223			
	33532-11	●	33.5	32	132	162	135	60	223			
	34032-11	●	34	32	136	166	139	60	227			
	34532-11	●	34.5	32	136	165.9	139	60	227			
	35032-11*	●	35	32	140	169.9	143	60	231			
	35532-11	●	35.5	32	140	169.9	143	60	231			

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(4D)





(mm)

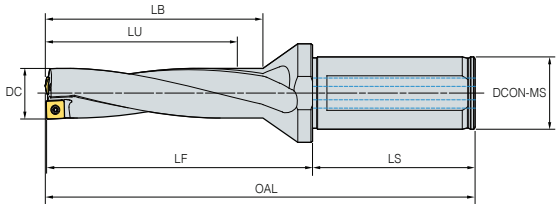
	Designation	Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K4D	36040-13	●	36	40	144	177.1	148	70	248	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	●	36.5	40	144	177	148	70	248			
	37040-13	●	37	40	148	181	152	70	252			
	37540-13*	●	37.5	40	148	181	152	70	252			
	38040-13	●	38	40	152	185.9	156	70	257			
	38540-13	●	38.5	40	152	185.9	156	70	257			
	39040-13	●	39	40	156	189.9	160	70	261			
	39540-13	●	39.5	40	156	189.9	160	70	261			
	40040-13	●	40	40	160	194.8	164	70	266			
	40540-13	●	40.5	40	160	194.8	164	70	266			
	41040-13	●	41	40	164	198.8	168	70	270			
	41540-13	●	41.5	40	164	198.8	168	70	270			
	42040-13	●	42	40	168	212.7	172	70	284			
	42540-13	●	42.5	40	168	212.7	172	70	284			
	43040-15	●	43	40	172	210.8	177	70	282	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15	●	43.5	40	172	210.8	177	70	282			
	44040-15	●	44	40	176	214.8	181	70	286			
	44540-15	●	44.5	40	176	214.7	181	70	286			
	45040-15	●	45	40	180	219.7	185	70	291			
	45540-15	●	45.5	40	180	219.7	185	70	291			
	46040-15	●	46	40	184	223.7	189	70	295			
	46540-15	●	46.5	40	184	223.6	189	70	295			
	47040-15	●	47	40	188	228.6	193	70	300			
	47540-15	●	47.5	40	188	228.6	193	70	300			
	48040-15	●	48	40	192	232.6	197	70	304			
	48540-15	●	48.5	40	192	232.5	197	70	304			
	49040-15	●	49	40	196	236.5	201	70	308			
	49540-15	●	49.5	40	196	236.5	201	70	308			
	50040-15	●	50	40	200	240.5	205	70	312			
	50540-15	●	50.5	40	200	240.5	205	70	312			
	51040-18	●	51	40	204	248.6	210	70	320	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18		51.5	40	204	248.6	210	70	320			
	52040-18	●	52	40	208	252.6	214	70	324			
	52540-18		52.5	40	208	252.5	214	70	324			
	53040-18	●	53	40	212	256.5	218	70	328			
	53540-18		53.5	40	212	256.5	218	70	328			
	54040-18	●	54	40	216	260.4	222	70	332			
	54540-18		54.5	40	216	260.4	222	70	332			
	55040-18	●	55	40	220	264.4	226	70	336			
	55540-18		55.5	40	220	264.4	226	70	336			
	56040-18	●	56	40	224	270.3	230	70	342			
	56540-18		56.5	40	224	270.3	230	70	342			
	57040-18	●	57	40	228	275.3	235	70	347			
	57540-18		57.5	40	228	275.3	235	70	347			
	58040-18	●	58	40	232	280.2	240	70	352			
	58540-18		58.5	40	232	280.2	240	70	352			
	59040-18	●	59	40	236	285.2	245	70	357			
	59540-18		59.5	40	236	285.2	245	70	357			
	60040-18	●	60	40	240	290.2	250	70	362			
	60540-18		60.5	40	240	290.2	250	70	362			

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(5D)





(mm)

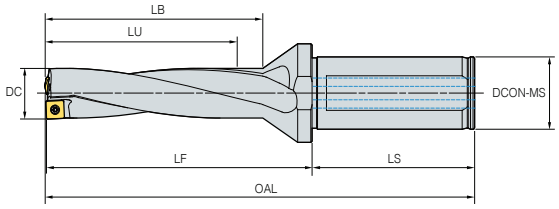
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K5D	12020-04*	●	12	20	60	76.71	63	50	127	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	●	12.5	20	60	76.71	63	50	127			
	13020-04	●	13	20	65	81.71	68	50	132			
	13520-04*	●	13.5	20	65	81.71	68	50	132			
	14020-05*	●	14	20	70	87.6	73	50	138	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05*	●	14.5	20	70	87.6	73	50	138			
	15020-05	●	15	20	75	93.6	78	50	144			
	15520-05*	●	15.5	20	75	93.5	78	50	144			
	16020-05	●	16	20	80	98.5	83	50	149			
	16525-06*	●	16.5	25	80	98.6	83	56	155	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06	●	17	25	85	103.6	88	56	160			
	17525-06*	●	17.5	25	85	103.5	88	56	160			
	18025-06	●	18	25	90	109.5	93	56	166			
	18525-06	●	18.5	25	90	109.5	93	56	166			
	19025-06	●	19	25	95	114.4	98	56	171			
	19525-06*	●	19.5	25	95	114.4	98	56	171			
	20025-07	●	20	25	100	121.5	103	56	178	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07	●	20.5	25	100	121.4	103	56	178			
	21025-07*	●	21	25	105	126.4	108	56	183			
	21525-07	●	21.5	25	105	126.4	108	56	183			
	22025-07	●	22	25	110	131.4	113	56	188			
	22525-07	●	22.5	25	110	131.3	113	56	188			
	23025-07	●	23	25	115	138.3	118	56	195			
	23525-07	●	23.5	25	115	138.3	118	56	195			
	24032-09*	●	24	32	120	144.4	123	60	205	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09	●	24.5	32	120	144.4	123	60	205			
	25032-09	●	25	32	125	149.3	128	60	210			
	25532-09	●	25.5	32	125	149.3	128	60	210			
	26032-09	●	26	32	130	154.3	133	60	215			
	26532-09*	●	26.5	32	130	154.3	133	60	215			
	27032-09	●	27	32	135	160.2	138	60	221			
	27532-09	●	27.5	32	135	160.2	138	60	221			
	28032-09	●	28	32	140	166.2	143	60	227			
	28532-09	●	28.5	32	140	166.2	143	60	227			
	29032-09	●	29	32	145	171.1	148	60	232			
	29532-09*	●	29.5	32	145	171.1	148	60	232			
	30032-11	●	30	32	150	179	153	60	240	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	●	30.5	32	150	179	153	60	240			
	31032-11	●	31	32	155	184	158	60	245			
	31532-11	●	31.5	32	155	184	158	60	245			
	32032-11*	●	32	32	160	189	163	60	250			
	32532-11	●	32.5	32	160	189	163	60	250			
	33032-11	●	33	32	165	195	168	60	256			
	33532-11	●	33.5	32	165	195	168	60	256			
	34032-11	●	34	32	170	200	173	60	261			
	34532-11	●	34.5	32	170	199.9	173	60	261			
	35032-11*	●	35	32	175	204.9	178	60	266			
	35532-11	●	35.5	32	175	204.9	178	60	266			

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(5D)





(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K5D	36040-13	●	36	40	180	213.1	184	70	284	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	●	36.5	40	180	213	184	70	284			
	37040-13	●	37	40	185	218	189	70	289			
	37540-13*	●	37.5	40	185	218	189	70	289			
	38040-13	●	38	40	190	223.9	194	70	295			
	38540-13	●	38.5	40	190	223.9	194	70	295			
	39040-13	●	39	40	195	228.9	199	70	300			
	39540-13	●	39.5	40	195	228.9	199	70	300			
	40040-13	●	40	40	200	234.8	204	70	306			
	40540-13	●	40.5	40	200	234.8	204	70	306			
	41040-13	●	41	40	205	239.8	209	70	311			
	41540-13	●	41.5	40	205	239.8	209	70	311			
	42040-13	●	42	40	210	245.7	214	70	317			
	42540-13	●	42.5	40	210	245.7	214	70	317			
	43040-15	●	43	40	215	253.8	220	70	325	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15	●	43.5	40	215	254.8	221	70	326			
	44040-15	●	44	40	220	258.8	225	70	330			
	44540-15	●	44.5	40	220	258.7	225	70	330			
	45040-15	●	45	40	225	264.7	230	70	336			
	45540-15	●	45.5	40	225	264.7	230	70	336			
	46040-15	●	46	40	230	269.7	235	70	341			
	46540-15	●	46.5	40	230	269.6	235	70	341			
	47040-15	●	47	40	235	275.6	240	70	347			
	47540-15	●	47.5	40	235	275.6	240	70	347			
	48040-15	●	48	40	240	280.6	245	70	352			
	48540-15	●	48.5	40	240	280.5	245	70	352			
	49040-15	●	49	40	245	285.5	250	70	357			
	49540-15	●	49.5	40	245	285.5	250	70	357			
	50040-15	●	50	40	250	290.5	255	70	362			
	50540-15	●	50.5	40	250	290.5	255	70	362			
	51040-18	●	51	40	255	299.6	261	70	371	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18		51.5	40	255	299.6	261	70	371			
	52040-18	●	52	40	260	304.6	266	70	376			
	52540-18		52.5	40	260	304.5	266	70	376			
	53040-18	●	53	40	265	309.5	271	70	381			
	53540-18		53.5	40	265	309.5	271	70	381			
	54040-18	●	54	40	270	314.4	276	70	386			
	54540-18		54.5	40	270	314.4	276	70	386			
	55040-18	●	55	40	275	319.4	281	70	391			
	55540-18		55.5	40	275	319.4	281	70	391			
	56040-18	●	56	40	280	326.3	286	70	398			
	56540-18		56.5	40	280	326.3	286	70	398			
	57040-18	●	57	40	285	332.3	292	70	404			
	57540-18		57.5	40	285	332.3	292	70	404			
	58040-18	●	58	40	290	338.2	298	70	410			
	58540-18		58.5	40	290	338.2	298	70	410			
	59040-18	●	59	40	295	344.2	304	70	416			
	59540-18		59.5	40	295	344.2	304	70	416			
	60040-18	●	60	40	300	350.2	310	70	422			
	60540-18		60.5	40	300	350.2	310	70	422			

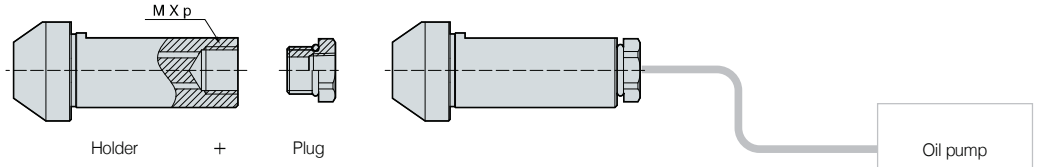
Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

Drill with through coolant system for general lathe and CNC lathe without through coolant system

KING Drill(For through coolant system with a lathe)

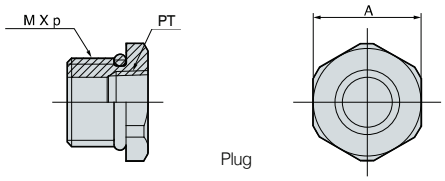
- Through coolant system with drill holder, plug, oil-hole hose and oil-hole pump
- PT TAP in the plug is combined to PT TAP connected to oil hose
- Available to use the drill without a plug in milling machine



- Clamping oil hose to the bottom of plug and connect the oil pump to the holder

(mm)

Tap type	Diameter	Shank dia.	M x p	Plug
K□D120~16020HP-□□	Ø12.0 ~ Ø16.0	Ø20	M12 x 1.5	PLG12PT18
K□D161~23525HP-□□	Ø16.1 ~ Ø23.5	Ø25	M16 x 1.5	PLG16PT18
K□D236~35532HP-□□	Ø23.6 ~ Ø35.5	Ø32	M20 x 2.0	PLG20PT14
K□D356~60940HP-□□	Ø35.6 ~ Ø60.5	Ø40	M27 x 2.0	PLG27PT38



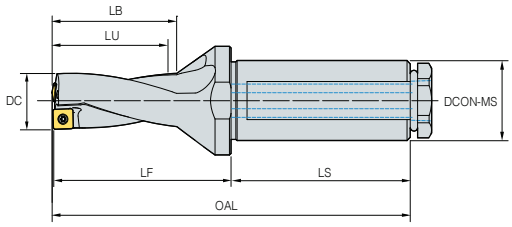
- Plug is assembled

Plug Type	M x p	PT Tap	A
PLG12PT18	M12 x 1.5	1/8	16
PLG16PT18	M16 x 1.5	1/8	19
PLG20PT14	M20 x 2.0	1/4	26
PLG27PT38	M27 x 2.0	3/8	35

KING Drill(2D)

For through coolant system with a lathe





(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K2D	13020HP-04	●	13	20	26	42.71	29	50	93	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	13520HP-04*		13.5	20	26	42.71	29	50	93			
	14020HP-05*	●	14	20	28	45.6	31	50	96	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	15020HP-05		15	20	30	48.6	33	50	99			
	16020HP-05	●	16	20	32	50.5	35	50	101			
	17025HP-06		17	25	34	52.6	37	56	109	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	18025HP-06	●	18	25	36	55.5	39	56	112			
	19025HP-06		19	25	38	57.4	41	56	114			
	20025HP-07	●	20	25	40	61.5	43	56	118	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	21025HP-07*		21	25	42	63.4	45	56	120			
	22025HP-07	●	22	25	44	65.4	47	56	122			
	23025HP-07		23	25	46	69.3	49	56	126			
	24032HP-09*	●	24	32	48	72.4	51	60	133	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	25032HP-09		25	32	50	74.3	53	60	135			
	26032HP-09	●	26	32	52	76.3	55	60	137			
	27032HP-09		27	32	54	79.2	57	60	140			
	28032HP-09	●	28	32	56	82.2	59	60	143			
	29032HP-09		29	32	58	84.1	61	60	145			

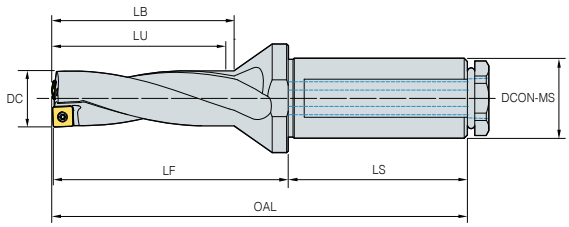
Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(3D)

For through coolant system with a lathe





(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K3D	13020HP-04	●	13	20	39	55.71	42	50	106	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	13520HP-04*	●	13.5	20	39	55.71	42	50	106			
	14020HP-05*	●	14	20	42	59.6	45	50	110	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520HP-05*	●	14.5	20	42	59.6	45	50	110			
	15020HP-05	●	15	20	45	63.6	48	50	114			
	15520HP-05*	●	15.5	20	45	63.5	48	50	114			
	16020HP-05	●	16	20	48	66.5	51	50	117			
	16525HP-06*	●	16.5	25	48	66.6	51	56	123	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025HP-06	●	17	25	51	69.6	54	56	126			
	17525HP-06*	●	17.5	25	51	69.5	54	56	126			
	18025HP-06	●	18	25	54	73.5	57	56	130			
	18525HP-06	●	18.5	25	54	73.5	57	56	130			
	19025HP-06	●	19	25	57	76.4	60	56	133			
	19525HP-06*	●	19.5	25	57	76.4	60	56	133			
	20025HP-07	●	20	25	60	81.5	63	56	138	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525HP-07	●	20.5	25	60	81.4	63	56	138			
	21025HP-07*	●	21	25	63	84.4	66	56	141			
	21525HP-07	●	21.5	25	63	84.4	66	56	141			
	22025HP-07	●	22	25	66	87.4	69	56	144			
	22525HP-07	●	22.5	25	66	87.3	69	56	144			
	23025HP-07	●	23	25	69	92.3	72	56	149			
	23525HP-07	●	23.5	25	69	92.3	72	56	149			
	24032HP-09*	●	24	32	72	96.4	75	60	157	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532HP-09	●	24.5	32	72	96.4	75	60	157			
	25032HP-09	●	25	32	75	99.3	78	60	160			
	25532HP-09	●	25.5	32	75	99.3	78	60	160			
	26032HP-09	●	26	32	78	102.3	81	60	163			
	26532HP-09*	●	26.5	32	78	102.3	81	60	163			
	27032HP-09	●	27	32	81	106.2	84	60	167			
	27532HP-09	●	27.5	32	81	106.2	84	60	167			
	28032HP-09	●	28	32	84	110.2	87	60	171			
	28532HP-09	●	28.5	32	84	110.2	87	60	171			
	29032HP-09	●	29	32	87	113.1	90	60	174			
	29532HP-09*	●	29.5	32	87	113.1	90	60	174			

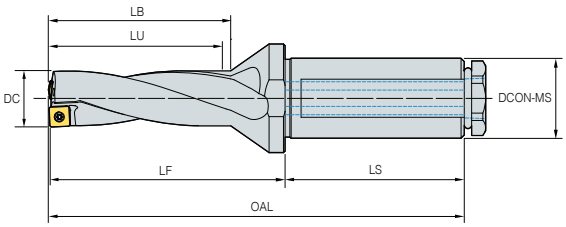
Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KING Drill(4D)

For through coolant system with a lathe





(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert	Screw	Wrench
K4D	13020HP-04	●	13	20	52	42.71	29	50	93	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	13520HP-04*		13.5	20	52	42.71	29	50	93			
	14020HP-05*	●	14	20	56	73.6	59	50	124	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	15020HP-05		15	20	60	78.6	63	50	129			
	16020HP-05	●	16	20	64	82.5	67	50	133			
	17025HP-06		16	20	64	82.5	67	50	133	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	18025HP-06	●	18	25	72	91.5	75	56	148			
	19025HP-06		19	25	76	95.4	79	56	152			
	20025HP-07	●	20	25	80	101.5	83	56	158	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	21025HP-07*		21	25	84	105.4	87	56	162			
	22025HP-07	●	22	25	88	109.4	91	56	166			
	23025HP-07		23	25	92	115.3	95	56	172			
	24032HP-09*	●	24	32	96	120.4	99	60	181	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	25032HP-09		25	32	100	124.3	103	60	185			
	26032HP-09	●	26	32	104	128.3	107	60	189			
	27032HP-09		27	32	108	133.2	11	60	194			
	28032HP-09	●	28	32	112	138.2	115	60	199			
	29032HP-09		29	32	116	142.1	119	60	203			

Applicable inserts **D9 ~ 10**

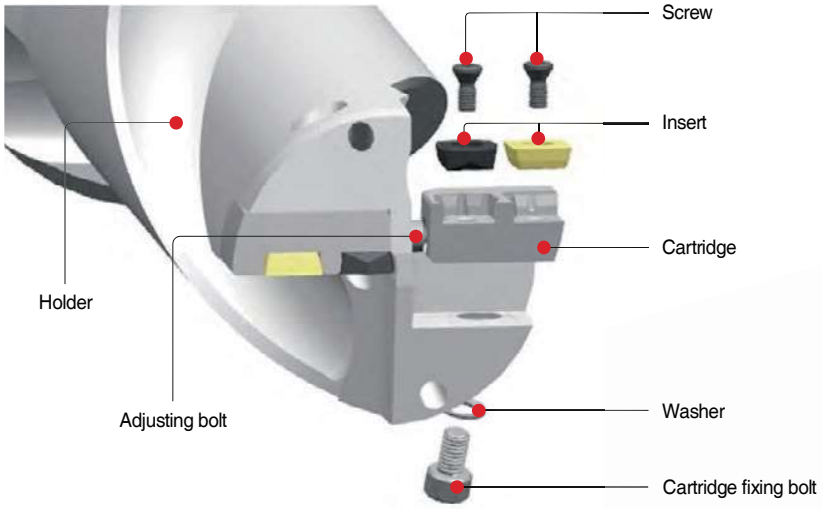
∗The items marked * can machine a tap foundation hole(Reference D7 page)

High rigidity drill produces cost efficiency due to cartridge replacement

KING Drill(For large diameter drilling)

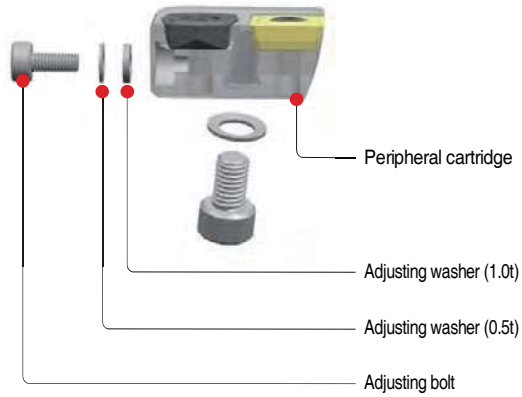
- Cartridge type for Ø61~Ø100 drilling
- Peripheral cartridge can adjust the drilling diameter within 5 mm
- Easy to adjust drilling diameter with adjusting bolt

Structure of KING Drill (for large diameter) parts





Adjustment of drill diameter

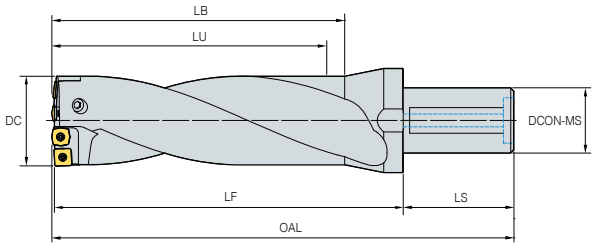


Adjustment Ø (mm)	Adjusting washer	
	Designation	Width(mm)
1	WA0305	0.5
2	WA0310	1.0
3	WA0305 + WA0310	1.5
4	WA0310 x 2	2.0
5	WA0305 + WA0310 x 2	2.5

※ Adjusting washer adjusts the drilling diameter within 5 mm

KING Drill

For through coolant system with a lathe



(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	Applicable insert		Screw	Wrench
										Internal	External		
K2D	616550-11	●	61	50	122	174.06	130	80	255	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	●	65	50	130	183.88	140	80	265	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	●	70	50	140	193.88	150	80	275	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	●	75	50	150	203.88	160	80	285	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	●	80	50	160	213.8	170	80	295	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	●	85	50	170	223.8	180	80	305	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	●	90	50	180	233.8	190	80	315	KDC9095C	KDC9095P	FTNC04511	TW20S
	9510050-18	●	95	50	190	243.5	200	80	325	KDC95100C	KDC95100P	FTNA0511	TW20-100
K3D	616550-11	●	61	50	183	239.06	195	80	320	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	●	65	50	195	253.88	210	80	335	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	●	70	50	210	268.88	225	80	350	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	●	75	50	225	283.88	240	80	365	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	●	80	50	240	298.8	255	80	380	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	●	85	50	255	313.8	270	80	395	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	●	90	50	270	328.8	85	80	410	KDC9095C	KDC9095P	FTNC04511	TW20S
	9510050-18	●	95	50	285	343.5	300	80	425	KDC95100C	KDC95100P	FTNA0511	TW20-100
K4D	616550-11	●	61	50	244	304.06	260	80	385	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	●	65	50	260	323.88	280	80	405	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	●	70	50	280	343.88	300	80	425	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	●	75	50	300	363.88	320	80	445	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	●	80	50	320	383.8	340	80	465	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	●	85	50	340	403.8	360	80	485	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	●	90	50	360	423.8	380	80	505	KDC9095C	KDC9095P	FTNC04511	TW20S

Applicable inserts **D9 ~ 10**

Parts

Cartridge		Range(Ø)	Insert				Screw	Wrench
Internal	External		Designation	Quantity	Designation	Quantity		
KDC6165C	KDC6165P	61~65	XO□T11T306-□□	2	SP□T11T308-□□	2	FTKA03508	TW15S
KDC6570C	KDC6570P	65~70	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC7075C	KDC7075P	70~75	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC7580C	KDC7580P	75~80	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC8085C	KDC8085P	80~85	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC8590C	KDC8590P	85~90	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC9095C	KDC9095P	90~95	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC95100C	KDC95100P	95~100	XO□T180508-□□	2	SP□T180510-□□	2	FTNA0511	TW20-100

KORLOY Indexable New Generation Economical Drill

KED Plus Drill

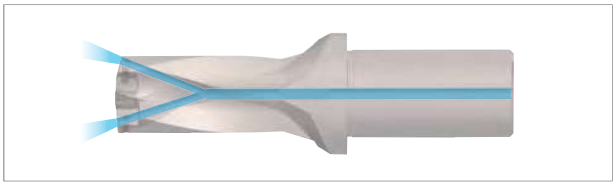
- Economical drill with good chip control due to optimal chip flute enlarging the space for chip flow
- Stable machining due to optimal shape and cutting edge arrangement of central and peripheral inserts

Code system

E	4D	-	200	-	25	-	07	-	P
KING, Economical	**Aspect ratio (L/D)** 2D, 3D, 4D, 5D		**Drill diameter** 200 : Ø20.0 mm (One decimal place marked)		**Shank diameter** Ø20, Ø25 Ø32, Ø40 mm		**Inscribed circle of insert** 04, 05, 06, 07, 09, 11, 13, 15, 18		**Plus**

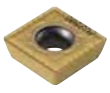
Holder Features

- Excellent chip control for suitable cutting range with small diameters (Ø12-Ø23.5) due to the cutting fluid system and chip flute
- Excellent surface finish for suitable cutting range with medium to large diameters (Ø24-Ø60.5) due to widened chip pockets even in deep drilling
- Increased the rigidity of drill body and improved chip evacuation due to optimalized shape of flute

Optimized flute system - 2 coolant holes applied	Peripheral insert	Central insert
		

Features of chip breaker

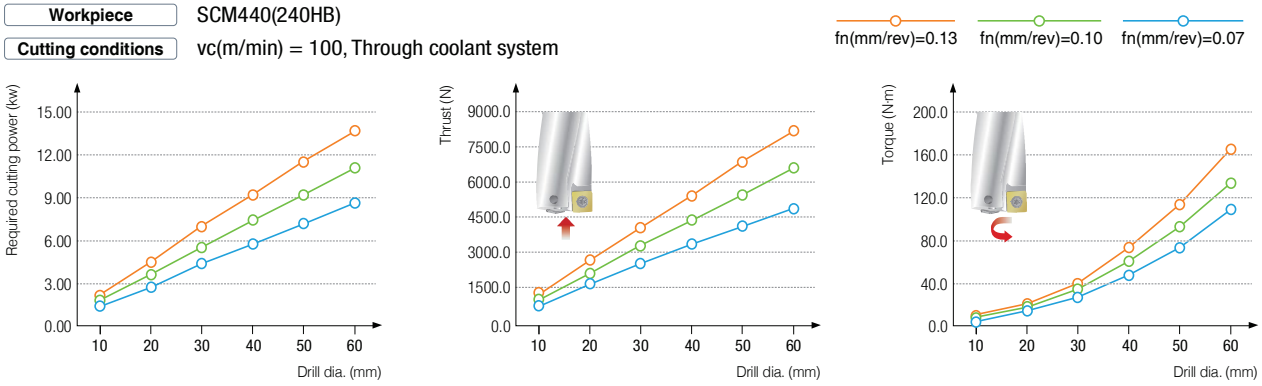
- Optimized design of inserts for maximum drilling efficiency
  - Excellent cutting performance and chip control due to the optimized geometry and chip breaker of both inserts: central and peripheral
  - A set of differently shaped central and peripheral inserts optimizing the insert locations in order to maximize cutting tool life

Chip breaker	PD		LD		ND		RD
Features	- Universal - At medium speed and medium feed		- Superior chip control for machining mild steel and stainless steel - Light cutting (at low~medium speed and low feed)		- Sharp cutting edge for aluminum machining - Insert surface buffed for high quality result - E Class tolerance		- Improved chipping resistance - Excellent performance in case of frequent fracture and chipping on the cutting edge
Insert	External	Internal	External	Internal	External	Internal	Internal
Shape							
Grades for workpiece	NC5330 : P, M, K PC3700 : P PC5300 : P, M, K, S PC6100 : K PC9540 : P, M, S	PC5300 : P, M, K, S PC9540 : P, M, S	PC5335 : P, M		H01 : N		PC5300 : P,M,K,S

Required cutting power

Workpiece SCM440(240HB)

Cutting conditions vc(m/min) = 100, Through coolant system



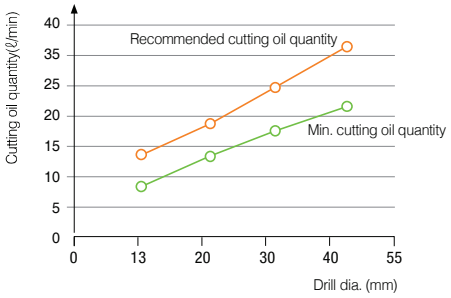
※ Cutting force shown as the above is base on drilling in facilities with enough rigidity and power

Cutting oil quantity

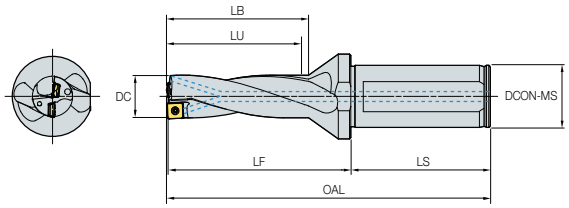
Workpiece SCM440(240HB)

Cutting conditions vc(m/min) = 100, Through coolant system

※ The data of the graph above could be changed depending on workpiece and cutting condition



Drill tolerance and hole tolerance



(mm)

Drill dia.(DC)		Ø12 ~ Ø29	Ø30 ~ Ø45	Ø46 ~ Ø60.5
2D~3D	Drill tolerance(DC)	-0.15 ~ 0	-0.15 ~ 0	-0.15 ~ 0
	Hole tolerance	-0.1 ~ +0.2	-0.1 ~ +0.25	-0.1 ~ +0.28
4D~5D	Drill tolerance(DC)	-0.15 ~ 0	-0.15 ~ 0	-0.15 ~ 0
	Hole tolerance	-0.05 ~ +0.25	-0.05 ~ +0.3	-0.05 ~ +0.33

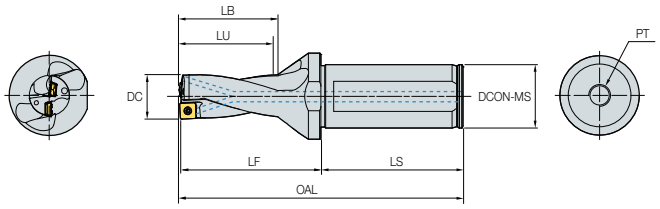
Recommended cutting conditions

Workpiece				Insert			vc(m/min)	Aspect ratio (L/D) = 2D, 3D, 4D Feed rate (mm/rev) per drill dia. (mm)				
ISO		Workpiece	Hardness (HB)	Chip breaker	Grade			Ø12~Ø16	Ø17~Ø23	Ø24~Ø29	Ø30~Ø42	Ø43~Ø60
					Central	Peripheral						
P	Carbon steel	Low carbon steel	80~180	LD	PC5335	PC5335	120(60~170)	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08
				PD/RD	PC5300	PC3700	150(120~180)					
						NC5330	180(140~220)					
		High carbon steel	180~280	PD	PC5300	PC3700	120(90~150)	0.04~0.10	0.04~0.12	0.05~0.16	0.06~0.16	0.06~0.18
						NC5330	150(110~190)	0.04~0.06	0.04~0.07	0.04~0.08	0.04~0.08	0.04~0.08
	Alloy steel	Low alloy steel	140~260	LD	PC5335	PC5335	120(60~160)	0.06~0.10	0.06~0.10	0.06~0.12	0.06~0.14	0.06~0.14
				PD	PC5300	PC3700	150(120~170)	0.06~0.12	0.06~0.12	0.06~0.14	0.06~0.16	0.06~0.16
						NC5330	180(140~210)	0.06~0.08	0.06~0.08	0.06~0.10	0.06~0.12	0.06~0.12
		Low alloy heattreated steel	200~400	PD	PC5300	PC3700	100(50~150)	0.04~0.10	0.06~0.10	0.06~0.12	0.06~0.14	0.06~0.14
		High alloy steel	260~320	PD	PC5300	PC3700	100(50~160)	0.05~0.11	0.05~0.11	0.05~0.13	0.05~0.15	0.05~0.15
		High alloy heattreated steel	300~450	PD	PC5300	PC3700	70(30~120)	0.04~0.08	0.06~0.08	0.06~0.10	0.06~0.12	0.06~0.12
M	Stainless steel	Stainless steel	135~275	LD	PD5335	PC5335	120(80~140)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08
				PD	PC5300	PC3700	130(100~160)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08
					PC9540	PC9540	90(60~120)	0.04~0.07	0.04~0.07	0.04~0.07	0.04~0.08	0.04~0.08
K	Cast iron	Gray cast iron	150~230	PD	PC5300	PC6100	190(150~250)	0.04~0.12	0.05~0.14	0.06~0.18	0.10~0.22	0.10~0.26
		Ductile cast iron	150~230	PD	PC5300	PC6100	130(100~160)	0.04~0.07	0.04~0.08	0.04~0.10	0.05~0.12	0.05~0.12
S	Heat resisting alloy	Ni-heat resisting alloy	130~400	PD	PC5300	PC3700	50(30~100)	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10
					PC9540	PC9540	40(20~80)	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10	0.04~0.10
		Ti-heat resisting alloy	130~400	LD	PC5335	PC5335	60(40~80)	0.04~0.08	0.04~0.10	0.06~0.12	0.06~0.14	0.06~0.16
				PD	PC5300	PC3700	60(40~80)	0.04~0.08	0.04~0.10	0.06~0.12	0.06~0.14	0.06~0.16
		High hardened steel	400이상	PD	PC5300	PC3700	40(20~80)	0.04~0.05	0.04~0.06	0.04~0.08	0.04~0.08	0.04~0.08
N	Aluminium	Aluminium	30~150	ND	H01	H01	300(250~400)	0.05~0.14	0.06~0.16	0.10~0.20	0.10~0.22	0.12~0.25
		Alloyed copper	150-160	ND	H01	H01	250(200~300)	0.05~0.14	0.06~0.16	0.10~0.20	0.10~0.22	0.12~0.25

• The Max. feed of 5D holders is 70%~80% of the max. conditions of 2D/3D/4D holders
• In interrupted machining part, reduce 30~50% of feed from the above machining around interrupted part

KED Plus Drill(2D)





(mm)

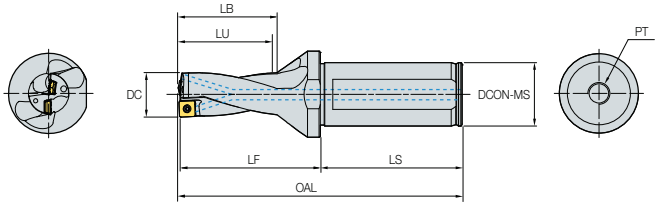
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E2D-	12020-04-P*	●	12	20	24	40.71	27	50	91	1/8	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04-P		12.5	20	24	40.71	27	50	91				
	13020-04-P	●	13	20	26	42.71	29	50	93				
	13520-04-P*	●	13.5	20	26	42.71	29	50	93				
	14020-05-P*	●	14	20	28	45.6	31	50	96		SP□T050204-□□ XO□T050204-□□		
	14520-05-P*	●	14.5	20	28	45.6	31	50	96				
	15020-05-P	●	15	20	30	48.6	33	50	99				
	15520-05-P*	●	15.5	20	30	48.5	33	50	99				
	16020-05-P	●	16	20	32	50.5	35	50	101				
	16525-06-P*	●	16.5	25	32	50.6	35	56	107		SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06-P	●	17	25	34	52.6	37	56	109				
	17525-06-P*	●	17.5	25	34	52.5	37	56	109				
	18025-06-P	●	18	25	36	55.5	39	56	112				
	18525-06-P	●	18.5	25	36	55.5	39	56	112				
	19025-06-P	●	19	25	38	57.4	41	56	114				
	19525-06-P*	●	19.5	25	38	57.4	41	56	114				
	20025-07-P	●	20	25	40	61.5	43	56	118		SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07-P	●	20.5	25	40	61.4	43	56	118				
	21025-07-P*	●	21	25	42	63.4	45	56	120				
	21525-07-P	●	21.5	25	42	63.4	45	56	120				
	22025-07-P	●	22	25	44	65.4	47	56	122				
	22525-07-P	●	22.5	25	44	65.3	47	56	122				
	23025-07-P	●	23	25	46	69.3	49	56	126				
	23525-07-P	●	23.5	25	46	69.3	49	56	126				
	24032-09-P*	●	24	32	48	72.4	51	60	133	1/4	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09-P	●	24.5	32	48	72.4	51	60	133				
	25032-09-P	●	25	32	50	74.3	53	60	135				
	25532-09-P	●	25.5	32	50	74.3	53	60	135				
	26032-09-P	●	26	32	52	76.3	55	60	137				
	26532-09-P*	●	26.5	32	52	76.3	55	60	137				
	27032-09-P	●	27	32	54	79.2	57	60	140				
	27532-09-P	●	27.5	32	54	79.2	57	60	140				
	28032-09-P	●	28	32	56	82.2	59	60	143				
	28532-09-P	●	28.5	32	56	82.2	59	60	143				
	29032-09-P	●	29	32	58	84.1	61	60	145				
	29532-09-P*	●	29.5	32	58	84.1	61	60	145				
	30032-11-P	●	30	32	60	89	63	60	150		SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11-P		30.5	32	60	89	63	60	150				
	31032-11-P	●	31	32	62	91	65	60	152				
	31532-11-P		31.5	32	62	91	65	60	152				
	32032-11-P*	●	32	32	64	93	67	60	154				
	32532-11-P		32.5	32	64	93	67	60	154				
	33032-11-P	●	33	32	66	96	69	60	157				
	33532-11-P		33.5	32	66	96	69	60	157				
	34032-11-P	●	34	32	68	98	71	60	159				
	34532-11-P		34.5	32	68	97.9	71	60	159				
	35032-11-P*	●	35	32	70	99.9	73	60	161				
	35532-11-P		35.5	32	70	99.9	73	60	161				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(2D)





(mm)

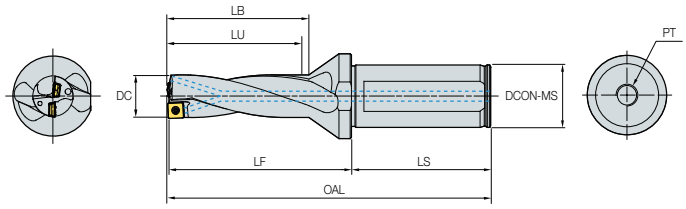
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E2D-	36040-13-P	●	36	40	72	105.1	76	70	176	1/4	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13-P		36.5	40	72	105	76	70	176				
	37040-13-P	●	37	40	74	107	78	70	178				
	37540-13-P*		37.5	40	74	107	78	70	178				
	38040-13-P	●	38	40	76	109.9	80	70	181				
	38540-13-P		38.5	40	76	109.9	80	70	181				
	39040-13-P	●	39	40	78	111.9	82	70	183				
	39540-13-P		39.5	40	78	111.9	82	70	183				
	40040-13-P	●	40	40	80	114.8	84	70	186				
	40540-13-P		40.5	40	80	114.8	84	70	186				
	41040-13-P	●	41	40	82	116.8	86	70	188				
	41540-13-P		41.5	40	82	116.8	86	70	188				
	42040-13-P	●	42	40	84	119.7	88	70	191				
	42540-13-P		42.5	40	84	119.7	88	70	191				
	43040-15-P	●	43	40	86	124.8	91	70	196		SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15-P		43.5	40	86	124.8	91	70	196				
	44040-15-P	●	44	40	88	126.8	93	70	198				
	44540-15-P		44.5	40	88	126.7	93	70	198				
	45040-15-P	●	45	40	90	129.7	95	70	201				
	45540-15-P		45.5	40	90	129.7	95	70	201				
	46040-15-P	●	46	40	92	131.7	97	70	203				
	46540-15-P		46.5	40	92	131.6	97	70	203				
	47040-15-P	●	47	40	94	134.6	99	70	206				
	47540-15-P		47.5	40	94	134.6	99	70	206				
	48040-15-P	●	48	40	96	136.6	101	70	208				
	48540-15-P		48.5	40	96	136.5	101	70	208				
	49040-15-P	●	49	40	98	138.5	103	70	210				
	49540-15-P		49.5	40	98	138.5	103	70	210				
	50040-15-P	●	50	40	100	140.5	105	70	212				
	50540-15-P		50.5	40	100	140.5	105	70	212				
	51040-18-P	●	51	40	102	146.6	108	70	218		SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18-P		51.5	40	102	146.6	108	70	218				
	52040-18-P	●	52	40	104	148.6	110	70	220				
	52540-18-P		52.5	40	104	148.5	110	70	220				
	53040-18-P	●	53	40	106	150.5	112	70	222				
	53540-18-P		53.5	40	106	150.5	112	70	222				
	54040-18-P	●	54	40	108	152.4	114	70	224				
	54540-18-P		54.5	40	108	152.4	114	70	224				
	55040-18-P	●	55	40	110	154.4	116	70	226				
	55540-18-P		55.5	40	110	154.4	116	70	226				
	56040-18-P	●	56	40	112	158.3	118	70	230				
	56540-18-P		56.5	40	112	158.3	118	70	230				
	57040-18-P	●	57	40	114	161.3	121	70	233				
	57540-18-P		57.5	40	114	161.3	121	70	233				
	58040-18-P	●	58	40	116	164.2	124	70	236				
	58540-18-P		58.5	40	116	164.2	124	70	236				
	59040-18-P	●	59	40	118	167.2	127	70	239				
	59540-18-P		59.5	40	118	167.2	127	70	239				
	60040-18-P	●	60	40	120	170.2	130	70	242				
	60540-18-P		60.5	40	120	170.2	130	70	242				

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(3D)





(mm)

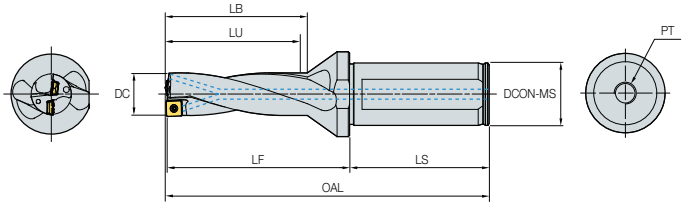
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E3D-	12020-04-P*	●	12	20	36	52.71	39	50	103	1/8	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04-P		12.5	20	36	52.71	39	50	103				
	13020-04-P	●	13	20	39	55.71	42	50	106				
	13520-04-P*	●	13.5	20	39	55.71	42	50	106				
	14020-05-P*	●	14	20	42	59.6	45	50	110		SP□T050204-□□ XO□T050204-□□		
	14520-05-P*	●	14.5	20	42	59.6	45	50	110				
	15020-05-P	●	15	20	45	63.6	48	50	114				
	15520-05-P*	●	15.5	20	45	63.5	48	50	114				
	16020-05-P	●	16	20	48	66.5	51	50	117				
	16525-06-P*	●	16.5	25	48	66.6	51	56	123		SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06-P	●	17	25	51	69.6	54	56	126				
	17525-06-P*	●	17.5	25	51	69.5	54	56	126				
	18025-06-P	●	18	25	54	73.5	57	56	130				
	18525-06-P	●	18.5	25	54	73.5	57	56	130				
	19025-06-P	●	19	25	57	76.4	60	56	133				
	19525-06-P*	●	19.5	25	57	76.4	60	56	133				
	20025-07-P	●	20	25	60	81.5	63	56	138		SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07-P	●	20.5	25	60	81.4	63	56	138				
	21025-07-P*	●	21	25	63	84.4	66	56	141				
	21525-07-P	●	21.5	25	63	84.4	66	56	141				
	22025-07-P	●	22	25	66	87.4	69	56	144				
	22525-07-P	●	22.5	25	66	87.3	69	56	144				
	23025-07-P	●	23	25	69	92.3	72	56	149				
	23525-07-P	●	23.5	25	69	92.3	72	56	149				
	24032-09-P*	●	24	32	72	96.4	75	60	157	1/4	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09-P	●	24.5	32	72	96.4	75	60	157				
	25032-09-P	●	25	32	75	99.3	78	60	160				
	25532-09-P	●	25.5	32	75	99.3	78	60	160				
	26032-09-P	●	26	32	78	102.3	81	60	163				
	26532-09-P*	●	26.5	32	78	102.3	81	60	163				
	27032-09-P	●	27	32	81	106.2	84	60	167				
	27532-09-P	●	27.5	32	81	106.2	84	60	167				
	28032-09-P	●	28	32	84	110.2	87	60	171				
	28532-09-P	●	28.5	32	84	110.2	87	60	171				
	29032-09-P	●	29	32	87	113.1	90	60	174				
	29532-09-P*	●	29.5	32	87	113.1	90	60	174				
	30032-11-P	●	30	32	90	119	93	60	180		SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11-P		30.5	32	90	119	93	60	180				
	31032-11-P	●	31	32	93	122	96	60	183				
	31532-11-P		31.5	32	93	122	96	60	183				
	32032-11-P*	●	32	32	96	125	99	60	186				
	32532-11-P		32.5	32	96	125	99	60	186				
	33032-11-P	●	33	32	99	129	102	60	190				
	33532-11-P		33.5	32	99	129	102	60	190				
	34032-11-P	●	34	32	102	132	105	60	193				
	34532-11-P		34.5	32	102	131.9	105	60	193				
	35032-11-P*	●	35	32	105	134.9	108	60	196				
	35532-11-P		35.5	32	105	134.9	108	60	196				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(3D)





(mm)

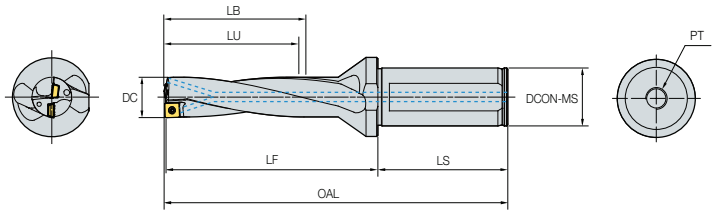
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E3D-	36040-13-P	●	36	40	108	141.1	112	70	212	1/4	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13-P		36.5	40	108	141	112	70	212				
	37040-13-P	●	37	40	111	144	115	70	215				
	37540-13-P*		37.5	40	111	144	115	70	215				
	38040-13-P	●	38	40	114	147.9	118	70	219				
	38540-13-P		38.5	40	114	147.9	118	70	219				
	39040-13-P	●	39	40	117	150.9	121	70	222				
	39540-13-P		39.5	40	117	150.9	121	70	222				
	40040-13-P	●	40	40	120	154.8	124	70	226				
	40540-13-P		40.5	40	120	154.8	124	70	226				
	41040-13-P	●	41	40	123	157.8	127	70	229				
	41540-13-P		41.5	40	123	157.8	127	70	229				
	42040-13-P	●	42	40	126	161.7	130	70	233				
	42540-13-P		42.5	40	126	161.7	130	70	233				
	43040-15-P	●	43	40	129	167.8	134	70	239		SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15-P		43.5	40	129	167.8	134	70	239				
	44040-15-P	●	44	40	132	170.8	137	70	242				
	44540-15-P		44.5	40	132	170.7	137	70	242				
	45040-15-P	●	45	40	135	174.7	140	70	246				
	45540-15-P		45.5	40	135	174.7	140	70	246				
	46040-15-P	●	46	40	138	177.7	143	70	249				
	46540-15-P		46.5	40	138	177.6	143	70	249				
	47040-15-P	●	47	40	141	181.6	146	70	253				
	47540-15-P		47.5	40	141	181.6	146	70	253				
	48040-15-P	●	48	40	144	184.6	149	70	256				
	48540-15-P		48.5	40	144	184.5	149	70	256				
	49040-15-P	●	49	40	147	187.5	152	70	259				
	49540-15-P		49.5	40	147	187.5	152	70	259				
	50040-15-P	●	50	40	150	190.5	155	70	262				
	50540-15-P		50.5	40	150	190.5	155	70	262				
	51040-18-P	●	51	40	153	197.6	159	70	269		SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18-P		51.5	40	153	197.6	159	70	269				
	52040-18-P	●	52	40	156	200.6	162	70	272				
	52540-18-P		52.5	40	156	200.5	162	70	272				
	53040-18-P	●	53	40	159	203.5	165	70	275				
	53540-18-P		53.5	40	159	203.5	165	70	275				
	54040-18-P	●	54	40	162	206.4	168	70	278				
	54540-18-P		54.5	40	162	206.4	168	70	278				
	55040-18-P	●	55	40	165	209.4	171	70	281				
	55540-18-P		55.5	40	165	209.4	171	70	281				
	56040-18-P	●	56	40	168	214.3	174	70	286				
	56540-18-P		56.5	40	168	214.3	174	70	286				
	57040-18-P	●	57	40	171	218.3	178	70	290				
	57540-18-P		57.5	40	171	218.3	178	70	290				
	58040-18-P	●	58	40	174	222.2	182	70	294				
	58540-18-P		58.5	40	174	222.2	182	70	294				
	59040-18-P	●	59	40	177	226.2	186	70	298				
	59540-18-P		59.5	40	177	226.2	186	70	298				
	60040-18-P	●	60	40	180	230.2	190	70	302				
	60540-18-P		60.5	40	180	230.2	190	70	302				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(4D)





(mm)

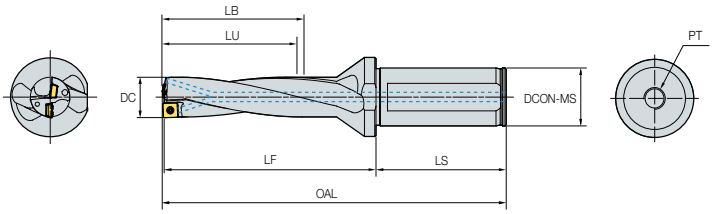
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E4D-	12020-04-P*	●	12	20	48	64.71	51	50	115	1/8	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04-P	●	12.5	20	48	64.71	51	50	115				
	13020-04-P	●	13	20	52	68.71	55	50	119				
	13520-04-P*	●	13.5	20	52	68.71	55	50	119				
	14020-05-P*	●	14	20	56	73.6	59	50	124		SP□T050204-□□ XO□T050204-□□		
	14520-05-P*	●	14.5	20	56	73.6	59	50	124				
	15020-05-P	●	15	20	60	78.6	63	50	129				
	15520-05-P*	●	15.5	20	60	78.5	63	50	129				
	16020-05-P	●	16	20	64	82.5	67	50	133				
	16525-06-P*	●	16.5	25	64	82.6	67	56	139		SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06-P	●	17	25	68	86.6	71	56	143				
	17525-06-P*	●	17.5	25	68	86.5	71	56	143				
	18025-06-P	●	18	25	72	91.5	75	56	148				
	18525-06-P	●	18.5	25	72	91.5	75	56	148				
	19025-06-P	●	19	25	76	95.4	79	56	152				
	19525-06-P*	●	19.5	25	76	95.4	79	56	152				
	20025-07-P	●	20	25	80	101.5	83	56	158		SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07-P	●	20.5	25	80	101.4	83	56	158				
	21025-07-P*	●	21	25	84	105.4	87	56	162				
	21525-07-P	●	21.5	25	84	105.4	87	56	162				
	22025-07-P	●	22	25	88	109.4	91	56	166				
	22525-07-P	●	22.5	25	88	109.3	91	56	166				
	23025-07-P	●	23	25	92	115.3	95	56	172				
	23525-07-P	●	23.5	25	92	115.3	95	56	172				
	24032-09-P*	●	24	32	96	120.4	99	60	181	1/4	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09-P	●	24.5	32	96	120.4	99	60	181				
	25032-09-P	●	25	32	100	124.3	103	60	185				
	25532-09-P	●	25.5	32	100	124.3	103	60	185				
	26032-09-P	●	26	32	104	128.3	107	60	189				
	26532-09-P*	●	26.5	32	104	128.3	107	60	189				
	27032-09-P	●	27	32	108	133.2	111	60	194				
	27532-09-P	●	27.5	32	108	133.2	111	60	194				
	28032-09-P	●	28	32	112	138.2	115	60	199				
	28532-09-P	●	28.5	32	112	138.2	115	60	199				
	29032-09-P	●	29	32	116	142.1	119	60	203				
	29532-09-P*	●	29.5	32	116	142.1	119	60	203				
	30032-11-P	●	30	32	120	149	123	60	210		SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11-P		30.5	32	120	149	123	60	210				
	31032-11-P	●	31	32	124	153	127	60	214				
	31532-11-P		31.5	32	124	153	127	60	214				
	32032-11-P*	●	32	32	128	157	131	60	218				
	32532-11-P		32.5	32	128	157	131	60	218				
	33032-11-P	●	33	32	132	162	135	60	223				
	33532-11-P		33.5	32	132	162	135	60	223				
	34032-11-P	●	34	32	136	166	139	60	227				
	34532-11-P		34.5	32	136	165.9	139	60	227				
	35032-11-P*	●	35	32	140	169.9	143	60	231				
	35532-11-P		35.5	32	140	169.9	143	60	231				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(4D)





(mm)

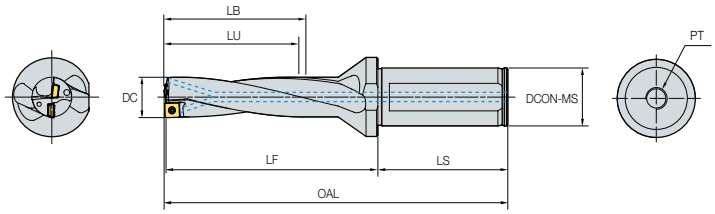
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E4D-	36040-13-P	●	36	40	144	177.1	148	70	248	1/4	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13-P		36.5	40	144	177	148	70	248				
	37040-13-P	●	37	40	148	181	152	70	252				
	37540-13-P*		37.5	40	148	181	152	70	252				
	38040-13-P	●	38	40	152	185.9	156	70	257				
	38540-13-P		38.5	40	152	185.9	156	70	257				
	39040-13-P	●	39	40	156	189.9	160	70	261				
	39540-13-P		39.5	40	156	189.9	160	70	261				
	40040-13-P	●	40	40	160	194.8	164	70	266				
	40540-13-P		40.5	40	160	194.8	164	70	266				
	41040-13-P	●	41	40	164	198.8	168	70	270				
	41540-13-P		41.5	40	164	198.8	168	70	270				
	42040-13-P	●	42	40	168	212.7	172	70	284				
	42540-13-P		42.5	40	168	212.7	172	70	284				
	43040-15-P	●	43	40	172	210.8	177	70	282		SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15-P		43.5	40	172	210.8	177	70	282				
	44040-15-P	●	44	40	176	214.8	181	70	286				
	44540-15-P		44.5	40	176	214.7	181	70	286				
	45040-15-P	●	45	40	180	219.7	185	70	291				
	45540-15-P		45.5	40	180	219.7	185	70	291				
	46040-15-P	●	46	40	184	223.7	189	70	295				
	46540-15-P		46.5	40	184	223.6	189	70	295				
	47040-15-P	●	47	40	188	228.6	193	70	300				
	47540-15-P		47.5	40	188	228.6	193	70	300				
	48040-15-P	●	48	40	192	232.6	197	70	304				
	48540-15-P		48.5	40	192	232.5	197	70	304				
	49040-15-P	●	49	40	196	236.5	201	70	308				
	49540-15-P		49.5	40	196	236.5	201	70	308				
	50040-15-P	●	50	40	200	240.5	205	70	312				
	50540-15-P		50.5	40	200	240.5	205	70	312				
	51040-18-P	●	51	40	204	248.6	210	70	320		SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18-P		51.5	40	204	248.6	210	70	320				
	52040-18-P	●	52	40	208	252.6	214	70	324				
	52540-18-P		52.5	40	208	252.5	214	70	324				
	53040-18-P	●	53	40	212	256.5	218	70	328				
	53540-18-P		53.5	40	212	256.5	218	70	328				
	54040-18-P	●	54	40	216	260.4	222	70	332				
	54540-18-P		54.5	40	216	260.4	222	70	332				
	55040-18-P	●	55	40	220	264.4	226	70	336				
	55540-18-P		55.5	40	220	264.4	226	70	336				
	56040-18-P	●	56	40	224	270.3	230	70	342				
	56540-18-P		56.5	40	224	270.3	230	70	342				
	57040-18-P	●	57	40	228	275.3	235	70	347				
	57540-18-P		57.5	40	228	275.3	235	70	347				
	58040-18-P	●	58	40	232	280.2	240	70	352				
	58540-18-P		58.5	40	232	280.2	240	70	352				
	59040-18-P	●	59	40	236	285.2	245	70	357				
	59540-18-P		59.5	40	236	285.2	245	70	357				
	60040-18-P	●	60	40	240	290.2	250	70	362				
	60540-18-P		60.5	40	240	290.2	250	70	362				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(5D)





(mm)

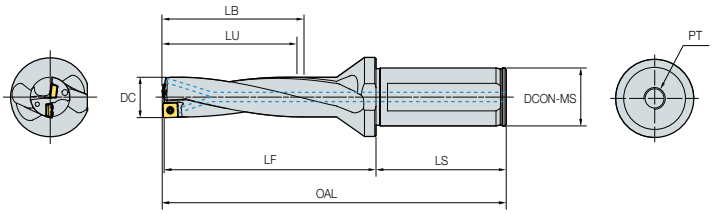
Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E5D-	12020-04-P*		12	20	60	76.71	63	50	127	1/8	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04-P		12.5	20	60	76.71	63	50	127				
	13020-04-P	●	13	20	65	81.71	68	50	132				
	13520-04-P*	●	13.5	20	65	81.71	68	50	132				
	14020-05-P*	●	14	20	70	87.6	73	50	138		SP□T050204-□□ XO□T050204-□□		
	14520-05-P*	●	14.5	20	70	87.6	73	50	138				
	15020-05-P	●	15	20	75	93.6	78	50	144				
	15520-05-P*	●	15.5	20	75	93.5	78	50	144				
	16020-05-P	●	16	20	80	98.5	83	50	149				
	16525-06-P*	●	16.5	25	80	98.6	83	56	155		SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06-P	●	17	25	85	103.6	88	56	160				
	17525-06-P*	●	17.5	25	85	103.5	88	56	160				
	18025-06-P	●	18	25	90	109.5	93	56	166				
	18525-06-P	●	18.5	25	90	109.5	93	56	166				
	19025-06-P	●	19	25	95	114.4	98	56	171				
	19525-06-P*	●	19.5	25	95	114.4	98	56	171				
	20025-07-P	●	20	25	100	121.5	103	56	178		SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20525-07-P	●	20.5	25	100	121.4	103	56	178				
	21025-07-P*	●	21	25	105	126.4	108	56	183				
	21525-07-P	●	21.5	25	105	126.4	108	56	183				
	22025-07-P	●	22	25	110	131.4	113	56	188				
	22525-07-P	●	22.5	25	110	131.3	113	56	188				
	23025-07-P	●	23	25	115	138.3	118	56	195				
	23525-07-P	●	23.5	25	115	138.3	118	56	195				
	24032-09-P*	●	24	32	120	144.4	123	60	205	1/4	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	24532-09-P	●	24.5	32	120	144.4	123	60	205				
	25032-09-P	●	25	32	125	149.3	128	60	210				
	25532-09-P	●	25.5	32	125	149.3	128	60	210				
	26032-09-P	●	26	32	130	154.3	133	60	215				
	26532-09-P*	●	26.5	32	130	154.3	133	60	215				
	27032-09-P	●	27	32	135	160.2	138	60	221				
	27532-09-P	●	27.5	32	135	160.2	138	60	221				
	28032-09-P	●	28	32	140	166.2	143	60	227				
	28532-09-P	●	28.5	32	140	166.2	143	60	227				
	29032-09-P	●	29	32	145	171.1	148	60	232				
	29532-09-P*	●	29.5	32	145	171.1	148	60	232				
	30032-11-P	●	30	32	150	179	153	60	240		SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11-P		30.5	32	150	179	153	60	240				
	31032-11-P	●	31	32	155	184	158	60	245				
	31532-11-P		31.5	32	155	184	158	60	245				
	32032-11-P*	●	32	32	160	189	163	60	250				
	32532-11-P		32.5	32	160	189	163	60	250				
	33032-11-P	●	33	32	165	195	168	60	256				
	33532-11-P		33.5	32	165	195	168	60	256				
	34032-11-P	●	34	32	170	200	173	60	261				
	34532-11-P		34.5	32	170	199.9	173	60	261				
	35032-11-P*	●	35	32	175	204.9	178	60	266				
	35532-11-P		35.5	32	175	204.9	178	60	266				

Applicable inserts **D9 ~ 10**

*The items marked * can machine a tap foundation hole(Reference D7 page)

KED Plus Drill(5D)





(mm)

Designation		Stock	DC	DCON-MS	LU	LF	LB	LS	OAL	PT	Applicable insert	Screw	Wrench
E5D-	36040-13-P	●	36	40	180	213.1	184	70	284	1/4	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13-P		36.5	40	180	213	184	70	284				
	37040-13-P	●	37	40	185	218	189	70	289				
	37540-13-P*		37.5	40	185	218	189	70	289				
	38040-13-P	●	38	40	190	223.9	194	70	295				
	38540-13-P		38.5	40	190	223.9	194	70	295				
	39040-13-P	●	39	40	195	228.9	199	70	300				
	39540-13-P		39.5	40	195	228.9	199	70	300				
	40040-13-P	●	40	40	200	234.8	204	70	306				
	40540-13-P		40.5	40	200	234.8	204	70	306				
	41040-13-P	●	41	40	205	239.8	209	70	311				
	41540-13-P		41.5	40	205	239.8	209	70	311				
	42040-13-P	●	42	40	210	245.7	214	70	317				
	42540-13-P		42.5	40	210	245.7	214	70	317				
	43040-15-P	●	43	40	215	253.8	220	70	325		SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15-P		43.5	40	215	254.8	221	70	326				
	44040-15-P	●	44	40	220	258.8	225	70	330				
	44540-15-P		44.5	40	220	258.7	225	70	330				
	45040-15-P	●	45	40	225	264.7	230	70	336				
	45540-15-P		45.5	40	225	264.7	230	70	336				
	46040-15-P	●	46	40	230	269.7	235	70	341				
	46540-15-P		46.5	40	230	269.6	235	70	341				
	47040-15-P	●	47	40	235	275.6	240	70	347				
	47540-15-P		47.5	40	235	275.6	240	70	347				
	48040-15-P	●	48	40	240	280.6	245	70	352				
	48540-15-P		48.5	40	240	280.5	245	70	352				
	49040-15-P	●	49	40	245	285.5	250	70	357				
	49540-15-P		49.5	40	245	285.5	250	70	357				
	50040-15-P	●	50	40	250	290.5	255	70	362				
	50540-15-P		50.5	40	250	290.5	255	70	362				
	51040-18-P	●	51	40	255	299.6	261	70	371		SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18-P		51.5	40	255	299.6	261	70	371				
	52040-18-P	●	52	40	260	304.6	266	70	376				
	52540-18-P		52.5	40	260	304.5	266	70	376				
	53040-18-P	●	53	40	265	309.5	271	70	381				
	53540-18-P		53.5	40	265	309.5	271	70	381				
	54040-18-P	●	54	40	270	314.4	276	70	386				
	54540-18-P		54.5	40	270	314.4	276	70	386				
	55040-18-P	●	55	40	275	319.4	281	70	391				
	55540-18-P		55.5	40	275	319.4	281	70	391				
	56040-18-P	●	56	40	280	326.3	286	70	398				
	56540-18-P		56.5	40	280	326.3	286	70	398				
	57040-18-P	●	57	40	285	332.3	292	70	404				
	57540-18-P		57.5	40	285	332.3	292	70	404				
	58040-18-P	●	58	40	290	338.2	298	70	410				
	58540-18-P		58.5	40	290	338.2	298	70	410				
	59040-18-P	●	59	40	295	344.2	304	70	416				
	59540-18-P		59.5	40	295	344.2	304	70	416				
	60040-18-P	●	60	40	300	350.2	310	70	422				
	60540-18-P		60.5	40	300	350.2	310	70	422				

Applicable inserts **D9 ~ 10**

∗The items marked * can machine a tap foundation hole(Reference D7 page)