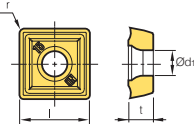
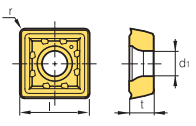
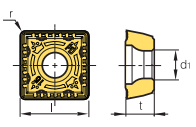
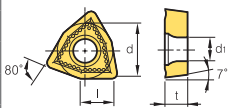


G Available Insert

Available insert

Picture	Designation	Coated						Uncoated	Dimensions (mm)					Configuration	Page		
		NC5330	NC3500	NC3600	PC9530	PC6510	PC5300		PC5400	H01	l	d	t			r	d1
 SPET-ND	040204-ND								●	4.7	-	2.4	0.4	2.3		G12~ G24	
	050204-ND								●	5.1	-	2.4	0.4	2.3			
	060205-ND								●	6.2	-	2.5	0.5	2.5			
	07T208-ND								●	7.5	-	2.8	0.7	2.8			
	090308-ND								●	9.2	-	3.3	0.8	3.4			
	11T308-ND								●	11.0	-	4.0	0.8	4.0			
	130410-ND								●	13.0	-	4.5	1.0	4.5			
	15M510-ND								●	15.2	-	5.0	1.0	5.5			
	180510-ND								●	18.2	-	5.5	1.0	6.0			
 SPMT-LD	060205-LD									6.2	-	2.5	0.5	2.5		G12~ G24	
	07T208-LD									7.5	-	2.8	0.7	2.8			
	090308-LD									9.2	-	3.3	0.8	3.4			
	11T308-LD									11.0	-	4.0	0.8	4.0			
	130410-LD									13.0	-	4.5	1.0	4.5			
	15M510-LD									15.2	-	5.0	1.0	5.5			
	180510-LD									18.2	-	5.5	1.0	6.0			
 SPMT-PD	040204-PD	●				●	●			4.7	-	2.4	0.4	2.3		G12~ G24	
	050204-PD	●				●	●			5.1	-	2.4	0.4	2.3			
	060205-PD	●				●	●			6.2	-	2.5	0.5	2.5			
	07T208-PD	●				●	●			7.5	-	2.8	0.7	2.8			
	090308-PD	●				●	●			9.2	-	3.3	0.8	3.4			
	11T308-PD	●				●	●			11.0	-	4.0	0.8	4.0			
	130410-PD	●				●	●			13.0	-	4.5	1.0	4.5			
	15M510-PD	●				●	●			15.2	-	5.0	1.0	5.5			
	180510-PD	●				●	●			18.2	-	5.5	1.0	6.0			
 WCMT- C20N	030208-C20N								●	3.8	5.56	2.38	0.8	2.8		-	
	040208-C20N								●	4.3	6.35	2.38	0.8	3.0			
	050308-C20N								●	5.4	7.94	3.18	0.8	3.4			
	06T308-C20N								●	6.5	9.525	3.97	0.8	3.7			
	080408-C20N								●	8.7	12.7	4.76	0.8	4.3			
	080412-C20N								●	8.7	12.7	4.76	1.2	4.3			

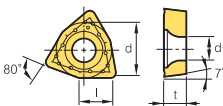
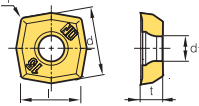
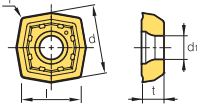
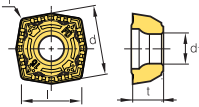
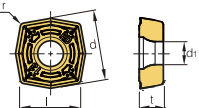
●: Stock Item



G

Drills

Available insert

Picture	Designation	Coated						Uncoated H01	Dimensions (mm)					Configuration	Page
		NC5330	NC3500	NC3600	PC9530	PC6510	PC5300	PC5400	l	d	t	r	d ₁		
WCMT-C21N 	030204-C21N								3.8	5.56	2.38	0.4	2.55		G43 G44
	040204-C21N								4.3	6.35	2.38	0.4	2.8		
	040208-C21N								4.3	6.35	2.38	0.8	2.8		
	050308-C21N								5.4	7.94	3.18	0.8	3.4		
	06T308-C21N								6.5	9.525	3.97	0.8	4.4		
	080408-C21N								8.7	12.7	4.76	0.8	5.5		
XOET-ND 	040204-ND							●	4.3	4.9	2.4	0.4	2.3		
	050204-ND							●	4.8	5.4	2.4	0.4	2.3		
	060204-ND							●	5.8	6.6	2.5	0.4	2.5		
	07T205-ND							●	6.9	7.8	2.8	0.5	2.8		
	090305-ND							●	8.4	9.6	3.3	0.5	3.4		
	11T306-ND							●	10.0	11.4	4.0	0.6	4.0		
	130406-ND							●	11.9	13.6	4.5	0.6	4.5		
	15M508-ND							●	13.9	15.9	5.0	0.8	5.5		
	180508-ND							●	16.5	18.9	5.5	0.8	6.0		
XOMT-LD 	060204-LD								5.8	6.6	2.5	0.4	2.5		G12~ G24
	07T205-LD								6.9	7.8	2.8	0.5	2.8		
	090305-LD								8.4	9.6	3.3	0.5	3.4		
	11T306-LD								10.0	11.4	4.0	0.6	4.0		
	130406-LD								11.9	13.6	4.5	0.6	4.5		
	15M508-LD								13.9	15.9	5.0	0.8	5.5		
	180508-LD								16.5	18.9	5.5	0.8	6.0		
XOMT-PD 	040204-PD						●		4.3	4.9	2.4	0.4	2.3		G12~ G24
	050204-PD						●		4.8	5.4	2.4	0.4	2.3		
	060204-PD						●		5.8	6.6	2.5	0.4	2.5		
	07T205-PD						●		6.9	7.8	2.8	0.5	2.8		
	090305-PD						●		8.4	9.6	3.3	0.5	3.4		
	11T306-PD						●		10.0	11.4	4.0	0.6	4.0		
	130406-PD						●		11.9	13.6	4.5	0.6	4.5		
	15M508-PD						●		13.9	15.9	5.0	0.8	5.5		
	180508-PD						●		16.5	18.9	5.5	0.8	6.0		
XOMT-RD 	07T207-RD						●		6.9	7.8	2.8	0.7	2.8		G12~ G24
	090308-RD						●		8.4	9.6	3.3	0.8	3.4		
	11T309-RD						●		10.0	11.4	4.0	0.9	4.0		
	130410-RD						●		11.9	13.6	4.5	1.0	4.5		
	15M511-RD						●		13.9	15.9	5.0	1.1	5.5		
	180512-RD						●		16.5	18.9	5.5	1.2	6.0		

●: Stock Item

Drills



G

G Technical Information for King Drill

Optimized insert design for maximum drilling efficiency

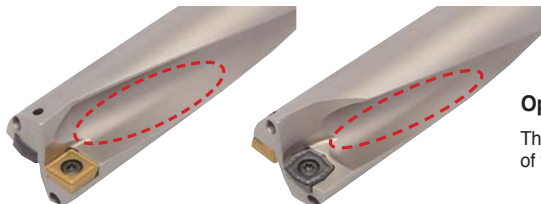
King Drill

Code system of holder

K	5D	200	25		-	07
KING/KORLOY	Aspect ratio (L/D)	Drill Dia.	One decimal place marked	Shank shape		Inscribed circle of insert
	2D, 2.5D, 3D, 3.5D, 4D, 4.5D, 5D	Ø20.0 (One decimal place marked)	Ø20, Ø25 Ø32, Ø40	No mark: Flange Shank, Weldon HP: Flange Shank, Weldon, PT Tap F1: Flange Shank, Whistle Notch F2: Flange Shank, Without Side Lock S: Straight Shank, Weldon 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		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 PC3500: P PC5300: P, M, K, S PC6510: K		PC5335: P, M		H01: N		PC5300: P,M,K,S

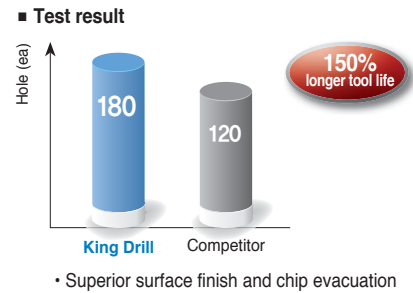


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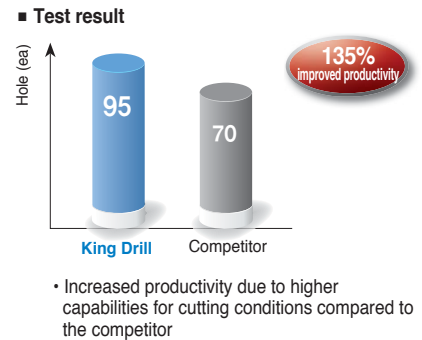
Drills

Application examples

- **Use** Track link bush
- **Cutting conditions** vc (m/min) = 120, fn (mm/rev) = 0.1
Through coolant system
- **Tools** **inserts** SPMT07T208-PD (PC3500)
XOMT07T205-PD (PC5300)
Holder K5D20025-07
- **Machine** Drilling machine



- **Use** Track link bush
- **Workpiece** SCM415H
- **Cutting conditions** King Drill: vc (m/min) = 140, fn (mm/rev) = 0.12
Competitor: vc (m/min) = 125, fn (mm/rev) = 0.1
- **Tools** **inserts** SPMT090308-PD (PC3500)
XOMT090305-PD (PC3500)
Holder K3D27032-09
- **Machine** MCT



Recommended cutting condition

Workpiece				Insert			vc (m/min)	Depth of cut = 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	PC3500	150 (120~180)					
				NC5330	180 (140~220)							
		High carbon steel	180~280	PD	PC5300	PC3500	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	PC3500	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		
Hardened low alloy 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	
High alloy steel	260~320	PD	PC5300	PC3500	100 (50~160)	0.05~0.11	0.05~0.11	0.05~0.13	0.05~0.15	0.05~0.15		
Hardened high alloy 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		
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	PC5300	130 (100~160)	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	PC6510	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	PC6510	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	PC5300	50 (30~100)	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	PC5300	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	over 400	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
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

G Technical Information for King Drill

Required machine power

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

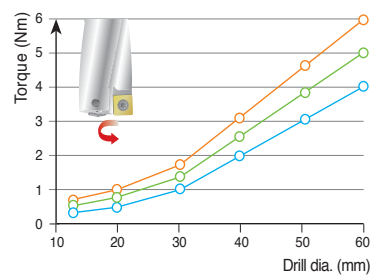
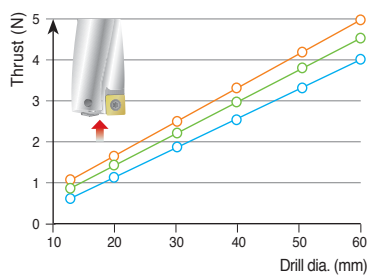
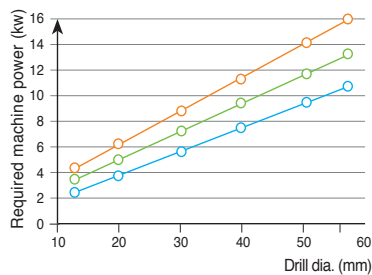
■ **Workpiece** SCM440 (240HB)

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

f_n (mm/rev) = 0.13

f_n (mm/rev) = 0.10

f_n (mm/rev) = 0.07

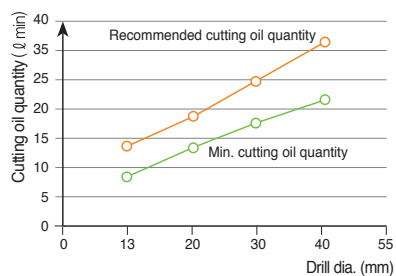


Cutting oil quantity

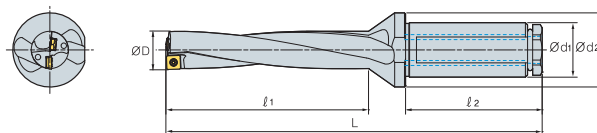
■ **Workpiece** SCM440 (240HB)

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

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



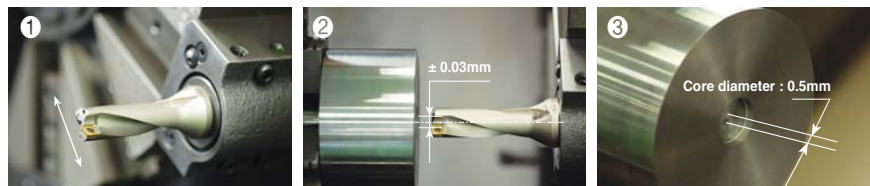
Drill tolerance and hole tolerance



(mm)

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

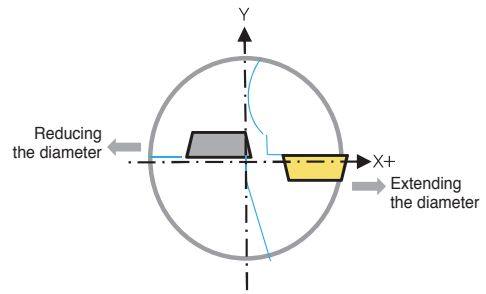
Notice for setting the drill in the lathe



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

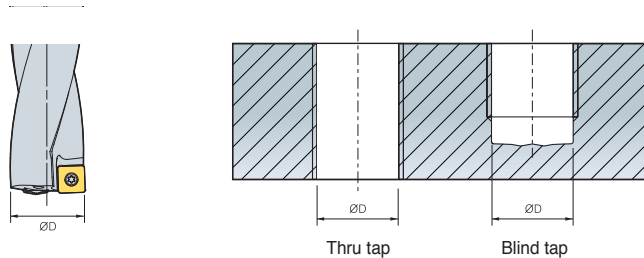
Drill dia. (mm)	Peripheral insert	Central insert	Screw	Wrench	Torque (Nm)
Ø12.0~Ø13.5	SP□T040204-□□	XO□T040204-□□	FTNA0204	TW06P	0.4
Ø13.6~Ø16.0	SP□T050204-□□	XO□T050204-□□	FTNA0204	TW06P	0.4
Ø16.1~Ø19.5	SP□T060205-□□	XO□T060204-□□	FTKA02206S	TW07P	0.8
Ø19.6~Ø23.5	SP□T07T208-□□	XO□T07T205-□□	FTKA02565	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

G Technical Information for King Drill

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

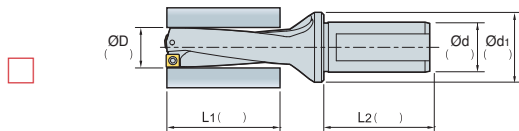
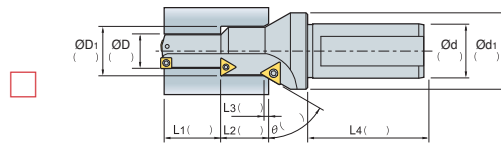
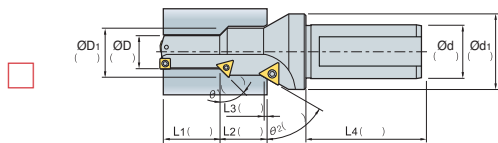
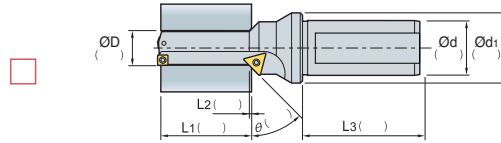
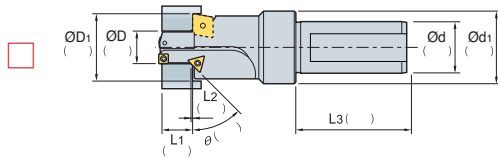


(mm)

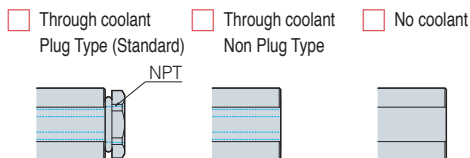
Tap type	Thread	ØD	Designation	Reference
Metric	M14 x 2.0	12.0	K3D12020-04	G14
	M16 x 2.0	14.0	K3D14020-05	G14
	M18 x 2.5	15.5	K3D15520-05	G14
	M20 x 2.5	17.5	K3D17525-06	G14
	M22 x 2.5	19.5	K3D19525-06	G14
	M24 x 3.0	21.0	K3D21025-07	G14
	M27 x 3.0	24.0	K3D24032-09	G14
	M30 x 3.5	26.5	K3D26532-09	G14
	M33 x 4.0	29.0	K3D29032-09	G14
	M36 x 4.0	32.0	K3D32032-11	G15
	M39 x 4.0	35.0	K3D35032-11	G15
	M42 x 4.5	37.5	K3D37540-13	G15
Inch	9/16-12 UNC	12.2	K3D12220-04	G14
	5/8-11 UNC	13.5	K3D13520-04	G14
	3/4-10 UNC	16.5	K3D16525-06	G14
	7/8-9 UNC	19.5	K3D19525-06	G14
	9/16-18 UNF	12.9	K3D12920-04	G14
	5/8-18 UNF	14.5	K3D14520-05	G14
	3/4-16 UNF	17.5	K3D17525-06	G14



Special drill order form



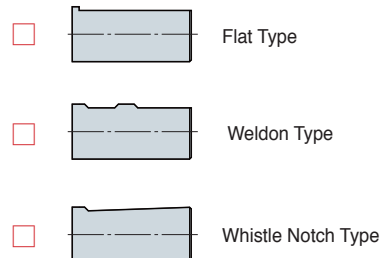
■ Coolant type



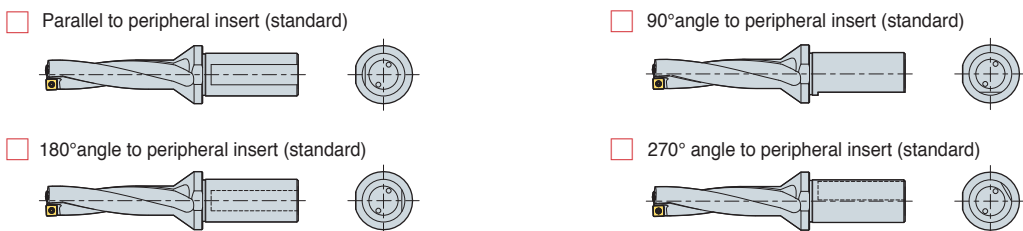
■ Hole type



■ Types of shank



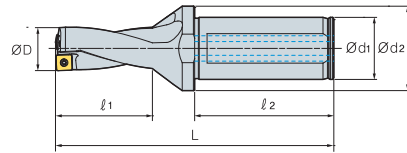
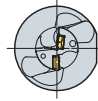
■ Location of side lock



■ 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:

King Drill-2D



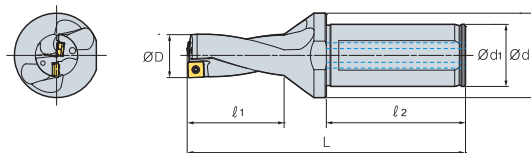
(mm)

Designation		ØD	Ød ₁	Ød ₂	ℓ ₁	ℓ ₂	L	Insert	 Screw	 Wrench
K2D	12020-04	12.0	20	25	27	50	91	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	12.5	20	25	27	50	91			
	13020-04	13.0	20	25	29	50	93			
	13520-04	13.5	20	25	29	50	93			
	14020-05	14.0	20	25	31	50	96	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05	14.5	20	25	31	50	96			
	15020-05	15.0	20	25	33	50	99			
	15520-05	15.5	20	25	33	50	99			
	16020-05	16.0	20	25	35	50	101	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	16525-06	16.5	25	34	35	56	107			
	17025-06	17.0	25	34	37	56	109			
	17525-06	17.5	25	34	37	56	109			
	18025-06	18.0	25	34	39	56	112			
	18525-06	18.5	25	34	39	56	112			
	19025-06	19.0	25	34	41	56	114	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	19525-06	19.5	25	34	41	56	114			
	20025-07	20.0	25	34	43	56	118			
	20525-07	20.5	25	34	43	56	118			
	21025-07	21.0	25	34	45	56	120			
	21525-07	21.5	25	34	45	56	120			
	22025-07	22.0	25	34	47	56	122	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	22525-07	22.5	25	34	47	56	122			
	23025-07	23.0	25	34	49	56	126			
	23525-07	23.5	25	34	49	56	126			
	24032-09	24.0	32	44	51	60	133			
	24532-09	24.5	32	44	51	60	133			
	25032-09	25.0	32	44	53	60	135	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	25532-09	25.5	32	44	53	60	135			
	26032-09	26.0	32	44	55	60	137			
	26532-09	26.5	32	44	55	60	137			
	27032-09	27.0	32	44	57	60	140			
	27532-09	27.5	32	44	57	60	140			
	28032-09	28.0	32	44	59	60	143	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	28532-09	28.5	32	44	59	60	143			
	29032-09	29.0	32	44	61	60	145			
	29532-09	29.5	32	44	61	60	145			
	30032-11	30.0	32	44	63	60	150			
	30532-11	30.5	32	44	63	60	150			
	31032-11	31.0	32	44	65	60	152	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	31532-11	31.5	32	44	65	60	152			
	32032-11	32.0	32	44	67	60	154			
	32532-11	32.5	32	44	67	60	154			
	33032-11	33.0	32	44	69	60	157			
	33532-11	33.5	32	44	69	60	157			
	34032-11	34.0	32	44	71	60	159	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	34532-11	34.5	32	44	71	60	159			
	35032-11	35.0	32	44	73	60	161			
	35532-11	35.5	32	44	73	60	161			

Applicable inserts G04-05



King Drill-2D

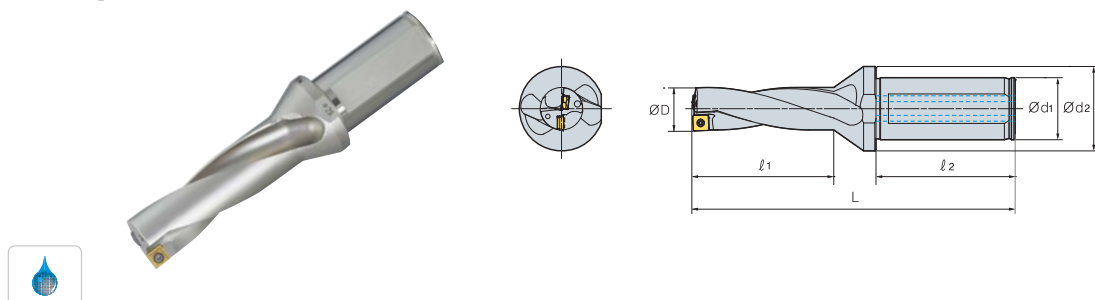


(mm)

Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K2D	36040-13	36.0	40	48	76	70	176	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	36.5	40	48	76	70	176			
	37040-13	37.0	40	48	78	70	178			
	37540-13	37.5	40	48	78	70	178			
	38040-13	38.0	40	48	80	70	181			
	38540-13	38.5	40	48	80	70	181			
	39040-13	39.0	40	48	82	70	183			
	39540-13	39.5	40	48	82	70	183			
	40040-13	40.0	40	48	84	70	186			
	40540-13	40.5	40	48	84	70	186			
	41040-13	41.0	40	48	86	70	188			
	41540-13	41.5	40	48	86	70	188			
	42040-13	42.0	40	48	88	70	191	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	42540-13	42.5	40	48	88	70	191			
	43040-15	43.0	40	58	91	70	196			
	43540-15	43.5	40	58	91	70	196			
	44040-15	44.0	40	58	93	70	198			
	44540-15	44.5	40	58	93	70	198			
	45040-15	45.0	40	58	95	70	201			
	45540-15	45.5	40	58	95	70	201			
	46040-15	46.0	40	58	97	70	203			
	46540-15	46.5	40	58	97	70	203			
	47040-15	47.0	40	58	99	70	206			
	47540-15	47.5	40	58	99	70	206			
	48040-15	48.0	40	58	101	70	208	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	48540-15	48.5	40	58	101	70	208			
	49040-15	49.0	40	58	103	70	210			
	49540-15	49.5	40	58	103	70	210			
	50040-15	50.0	40	58	105	70	212			
	50540-15	50.5	40	58	105	70	212			
	51040-18	51.0	40	68	108	70	218			
	51540-18	51.5	40	68	108	70	218			
	52040-18	52.0	40	68	110	70	220			
	52540-18	52.5	40	68	110	70	220			
	53040-18	53.0	40	68	112	70	222			
	53540-18	53.5	40	68	112	70	222			
	54040-18	54.0	40	68	114	70	224			
	54540-18	54.5	40	68	114	70	224			
	55040-18	55.0	40	68	116	70	226			
	55540-18	55.5	40	68	116	70	226			
	56040-18	56.0	40	68	118	70	230			
	56540-18	56.5	40	68	118	70	230			
	57040-18	57.0	40	68	121	70	233			
	57540-18	57.5	40	68	121	70	233			
	58040-18	58.0	40	68	124	70	236			
	58540-18	58.5	40	68	124	70	236			
	59040-18	59.0	40	68	127	70	239			
	59540-18	59.5	40	68	127	70	239			
	60040-18	60.0	40	68	130	70	242			
	60540-18	60.5	40	68	130	70	242			

Applicable inserts G04~05

King Drill-3D



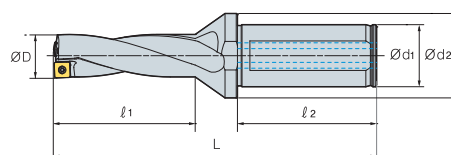
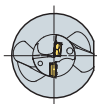
								(mm)		
Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K3D	12020-04 *	12.0	20	25	39	50	103	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12220-04	12.2	20	25	39	50	103			
	12520-04	12.5	20	25	39	50	103			
	12920-04	12.9	20	25	42	50	106			
	13020-04	13.0	20	25	42	50	106			
	13520-04	13.5	20	25	42	50	106			
	14020-05 *	14.0	20	25	45	50	110	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	14520-05	14.5	20	25	45	50	110			
	15020-05	15.0	20	25	48	50	114			
	15520-05 *	15.5	20	25	48	50	114			
	16020-05	16.0	20	25	51	50	117	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	16525-06	16.5	25	34	51	56	123			
	17025-06	17.0	25	34	54	56	126			
	17525-06 *	17.5	25	34	54	56	126			
	18025-06	18.0	25	34	57	56	130			
	18525-06	18.5	25	34	57	56	130			
	19025-06	19.0	25	34	60	56	133	SP□T07T208-□□ XO□T07T205-□□	FTKA0256S	TW07S
	19525-06 *	19.5	25	34	60	56	133			
	20025-07	20.0	25	34	63	56	138			
	20525-07	20.5	25	34	63	56	138			
	21025-07 *	21.0	25	34	66	56	141			
	21525-07	21.5	25	34	66	56	141			
	22025-07	22.0	25	34	69	56	144			
	22525-07	22.5	25	34	69	56	144			
	23025-07	23	25	34	72	56	149	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	23525-07	23.5	25	34	72	56	149			
	24032-09 *	24.0	32	44	75	60	157			
	24532-09	24.5	32	44	75	60	157			
	25032-09	25.0	32	44	78	60	160			
	25532-09	25.5	32	44	78	60	160			
	26032-09	26.0	32	44	81	60	163			
	26532-09 *	26.5	32	44	81	60	163			
	27032-09	27.0	32	44	84	60	167			
	27532-09	27.5	32	44	84	60	167			
	28032-09	28.0	32	44	87	60	171			
	28532-09	28.5	32	44	87	60	171			
	29032-09 *	29.0	32	44	90	60	174			
	29532-09	29.5	32	44	90	60	174			

Applicable inserts G04~05

The items marked * can machine a tap foundation hole



King Drill-3D



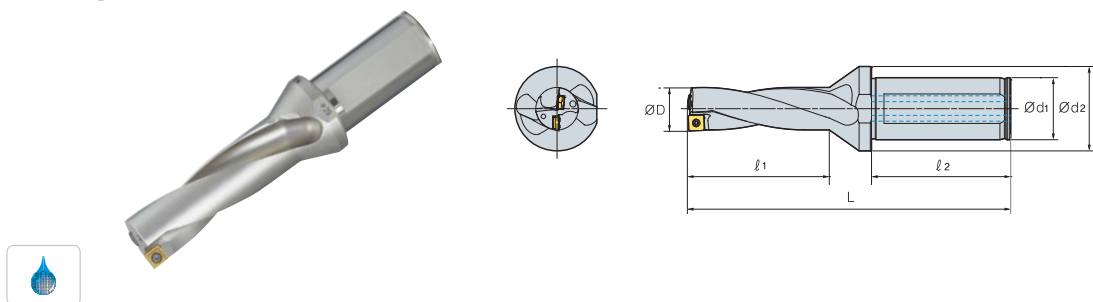
(mm)

Designation		ØD	Ød ₁	Ød ₂	ℓ ₁	ℓ ₂	L	Insert	Screw 	Wrench 
K3D	30032-11 *	30.0	32	44	93	60	180	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	30.5	32	44	93	60	180			
	31032-11	31.0	32	44	96	60	183			
	31532-11	31.5	32	44	96	60	183			
	32032-11	32.0	32	44	99	60	186			
	32532-11	32.5	32	44	99	60	186			
	33032-11	33.0	32	44	102	60	190			
	33532-11	33.5	32	44	102	60	190			
	34032-11	34.0	32	44	105	60	193			
	34532-11	34.5	32	44	105	60	193			
	35032-11 *	35.0	32	44	108	60	196			
	35532-11	35.5	32	44	108	60	196			
	36040-13	36.0	40	48	112	70	212	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	36540-13	36.5	40	48	112	70	212			
	37040-13	37.0	40	48	115	70	215			
	37540-13	37.5	40	48	115	70	215			
	38040-13	38.0	40	48	118	70	219			
	38540-13	38.5	40	48	118	70	219			
	39040-13	39.0	40	48	121	70	222			
	39540-13	39.5	40	48	121	70	222			
	40040-13	40.0	40	48	124	70	226			
	40540-13	40.5	40	48	124	70	226			
	41040-13	41.0	40	48	127	70	229			
	41540-13	41.5	40	48	127	70	229			
	42040-13	42.0	40	48	130	70	233			
	42540-13	42.5	40	48	130	70	233			
	43040-15	43.0	40	58	134	70	239	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	43540-15	43.5	40	58	134	70	239			
	44040-15	44.0	40	58	137	70	242			
	44540-15	44.5	40	58	137	70	242			
	45040-15	45.0	40	58	140	70	246			
	45540-15	45.5	40	58	140	70	246			
	46040-15	46.0	40	58	143	70	249			
	46540-15	46.5	40	58	143	70	249			
	47040-15	47.0	40	58	146	70	253			
	47540-15	47.5	40	58	146	70	253			
	48040-15	48.0	40	58	149	70	256			
	48540-15	48.5	40	58	149	70	256			
	49040-15	49.0	40	58	152	70	259			
	49540-15	49.5	40	58	152	70	259			
	50040-15	50.0	40	58	155	70	262			
	50540-15	50.5	40	58	155	70	262			

 Applicable inserts G04-05

The items marked * can machine a tap foundation hole

King Drill-3D

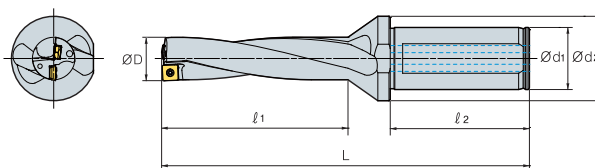


										(mm)
Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K3D	51040-18	51.0	40	68	159	70	269	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	51540-18	51.5	40	68	159	70	269			
	52040-18	52.0	40	68	162	70	272			
	52540-18	52.5	40	68	162	70	272			
	53040-18	53.0	40	68	165	70	275			
	53540-18	53.5	40	68	165	70	275			
	54040-18	54.0	40	68	168	70	278			
	54540-18	54.5	40	68	168	70	278			
	55040-18	55.0	40	68	171	70	281			
	55540-18	55.5	40	68	171	70	281			
	56040-18	56.0	40	68	174	70	286			
	56540-18	56.5	40	68	174	70	286			
	57040-18	57.0	40	68	178	70	290			
	57540-18	57.5	40	68	178	70	290			
	58040-18	58.0	40	68	182	70	294			
	58540-18	58.5	40	68	182	70	294			
	59040-18	59.0	40	68	186	70	298			
	59540-18	59.5	40	68	186	70	298			
	60040-18	60.0	40	68	190	70	302			
	60540-18	60.5	40	68	190	70	302			

Applicable inserts G04~05



King Drill-4D

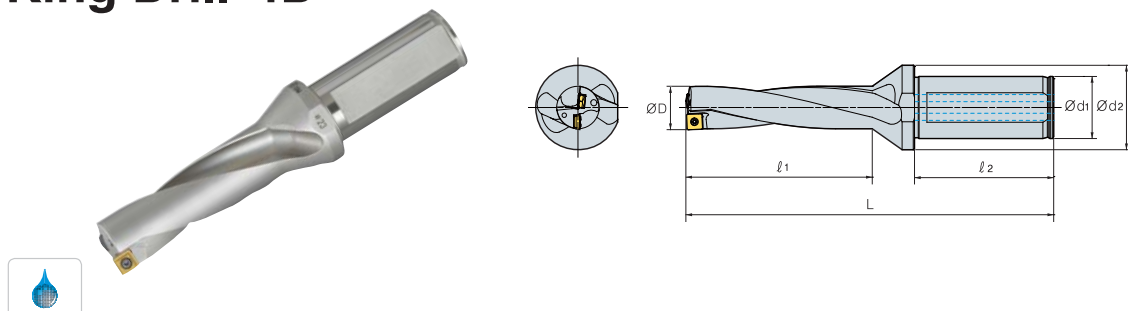


(mm)

Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw 	Wrench 
K4D	12020-04	12.0	20	25	51	50	115	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	12.5	20	25	51	50	115			
	13020-04	13.0	20	25	55	50	119	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	13520-04	13.5	20	25	55	50	119			
	14020-05	14.0	20	25	59	50	124	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	14520-05	14.5	20	25	59	50	124			
	15020-05	15.0	20	25	63	50	129	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	15520-05	15.5	20	25	63	50	129			
	16020-05	16.0	20	25	67	50	133	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	16525-06	16.5	25	34	67	56	139			
	17025-06	17.0	25	34	71	56	143	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	17525-06	17.5	25	34	71	56	143			
	18025-06	18.0	25	34	75	56	148	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	18525-06	18.5	25	34	75	56	148			
	19025-06	19.0	25	34	79	56	152	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	19525-06	19.5	25	34	79	56	152			
	20025-07	20.0	25	34	83	56	158	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	20525-07	20.5	25	34	83	56	158			
	21025-07	21.0	25	34	87	56	162	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	21525-07	21.5	25	34	87	56	162			
	22025-07	22.0	25	34	91	56	166	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	22525-07	22.5	25	34	91	56	166			
	23025-07	23.0	25	34	95	56	172	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	23525-07	23.5	25	34	95	56	172			
	24032-09	24.0	32	44	99	60	181	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	24532-09	24.5	32	44	99	60	181			
	25032-09	25.0	32	44	103	60	185	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	25532-09	25.5	32	44	103	60	185			
	26032-09	26.0	32	44	107	60	189	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	26532-09	26.5	32	44	107	60	189			
	27032-09	27.0	32	44	111	60	194	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	27532-09	27.5	32	44	111	60	194			
	28032-09	28.0	32	44	115	60	199	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	28532-09	28.5	32	44	115	60	199			
	29032-09	29.0	32	44	119	60	203	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	29532-09	29.5	32	44	119	60	203			
	30032-11	30.0	32	44	123	60	210	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	30532-11	30.5	32	44	123	60	210			
	31032-11	31.0	32	44	127	60	214	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	31532-11	31.5	32	44	127	60	214			
	32032-11	32.0	32	44	131	60	218	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	32532-11	32.5	32	44	131	60	218			
	33032-11	33.0	32	44	135	60	223	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	33532-11	33.5	32	44	135	60	223			
	34032-11	34.0	32	44	139	60	227	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	34532-11	34.5	32	44	139	60	227			
	35032-11	35.0	32	44	143	60	231	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	35532-11	35.5	32	44	143	60	231			

 Applicable inserts G04~05

King Drill-4D



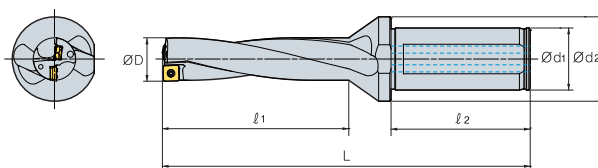
(mm)

Designation	ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K4D									
36040-13	36.0	40	48	148	70	248	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
36540-13	36.5	40	48	148	70	248			
37040-13	37.0	40	48	152	70	252			
37540-13	37.5	40	48	152	70	252			
38040-13	38.0	40	48	156	70	257			
38540-13	38.5	40	48	156	70	257			
39040-13	39.0	40	48	160	70	261			
39540-13	39.5	40	48	160	70	261			
40040-13	40.0	40	48	164	70	266			
40540-13	40.5	40	48	164	70	266			
41040-13	41.0	40	48	168	70	270			
41540-13	41.5	40	48	168	70	270			
42040-13	42.0	40	48	172	70	275	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
42540-13	42.5	40	48	172	70	275			
43040-15	43.0	40	58	177	70	282			
43540-15	43.5	40	58	177	70	282			
44040-15	44.0	40	58	181	70	286			
44540-15	44.5	40	58	181	70	286			
45040-15	45.0	40	58	185	70	291			
45540-15	45.5	40	58	185	70	291			
46040-15	46.0	40	58	189	70	295			
46540-15	46.5	40	58	189	70	295			
47040-15	47.0	40	58	193	70	300			
47540-15	47.5	40	58	193	70	300			
48040-15	48.0	40	58	197	70	304	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
48540-15	48.5	40	58	197	70	304			
49040-15	49.0	40	58	201	70	308			
49540-15	49.5	40	58	201	70	308			
50040-15	50.0	40	58	205	70	312			
50540-15	50.5	40	58	205	70	312			
51040-18	51.0	40	68	210	70	320			
51540-18	51.5	40	68	210	70	320			
52040-18	52.0	40	68	214	70	324			
52540-18	52.5	40	68	214	70	324			
53040-18	53.0	40	68	218	70	328			
53540-18	53.5	40	68	218	70	328			
54040-18	54.0	40	68	222	70	332	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
54540-18	54.5	40	68	222	70	332			
55040-18	55.0	40	68	226	70	336			
55540-18	55.5	40	68	226	70	336			
56040-18	56.0	40	68	230	70	342			
56540-18	56.5	40	68	230	70	342			
57040-18	57.0	40	68	235	70	347			
57540-18	57.5	40	68	235	70	347			
58040-18	58.0	40	68	240	70	352			
58540-18	58.5	40	68	240	70	352			
59040-18	59.0	40	68	245	70	357			
59540-18	59.5	40	68	245	70	357			
60040-18	60.0	40	68	250	70	362	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
60540-18	60.5	40	68	250	70	362			

Applicable inserts G04-05



King Drill-5D

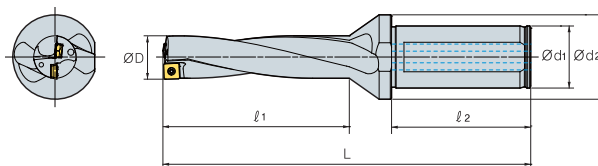


(mm)

Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K5D	12020-04	12.0	20	25	63	50	127	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	12520-04	12.5	20	25	63	50	127			
	13020-04	13.0	20	25	68	50	132	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	13520-04	13.5	20	25	68	50	132			
	14020-05	14.0	20	25	73	50	138			
	14520-05	14.5	20	25	73	50	138			
	15020-05	15.0	20	25	78	50	144			
	15520-05	15.5	20	25	78	50	144			
	16020-05	16.0	20	25	83	50	149			
	16525-06	16.5	25	34	83	56	155	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	17025-06	17.0	25	34	88	56	160			
	17525-06	17.5	25	34	88	56	160			
	18025-06	18.0	25	34	93	56	166			
	18525-06	18.5	25	34	93	56	166			
	19025-06	19.0	25	34	98	56	171			
	19525-06	19.5	25	34	98	56	171	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	20025-07	20.0	25	34	103	56	178			
	20525-07	20.5	25	34	103	56	178			
	21025-07	21.0	25	34	108	56	183			
	21525-07	21.5	25	34	108	56	183			
	22025-07	22.0	25	34	113	56	188			
	22525-07	22.5	25	34	113	56	188	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	23025-07	23.0	25	34	118	56	195			
	23525-07	23.5	25	34	118	56	195			
	24032-09	24.0	32	44	123	60	205			
	24532-09	24.5	32	44	123	60	205			
	25032-09	25.0	32	44	128	60	210			
	25532-09	25.5	32	44	128	60	210			
	26032-09	26.0	32	44	133	60	215			
	26532-09	26.5	32	44	133	60	215			
	27032-09	27.0	32	44	138	60	221			
	27532-09	27.5	32	44	138	60	221	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	28032-09	28.0	32	44	143	60	227			
	28532-09	28.5	32	44	143	60	227			
	29032-09	29.0	32	44	148	60	232			
	29532-09	29.5	32	44	148	60	232			
	30032-11	30.0	32	44	153	60	240			
	30532-11	30.5	32	44	153	60	240			
	31032-11	31.0	32	44	158	60	245			
	31532-11	31.5	32	44	158	60	245			
	32032-11	32.0	32	44	163	60	250			
	32532-11	32.5	32	44	163	60	250			
	33032-11	33.0	32	44	168	60	256			
	33532-11	33.5	32	44	168	60	256			
	34032-11	34.0	32	44	173	60	261			
	34532-11	34.5	32	44	173	60	261			
	35032-11	35.0	32	44	178	60	266			
	35532-11	35.5	32	44	178	60	266			

Applicable inserts G04~05

King Drill-5D



(mm)

Designation	ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K5D									
36040-13	36.0	40	48	184	70	284	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
36540-13	36.5	40	48	184	70	284			
37040-13	37.0	40	48	189	70	289			
37540-13	37.5	40	48	189	70	289			
38040-13	38.0	40	48	194	70	295			
38540-13	38.5	40	48	194	70	295			
39040-13	39.0	40	48	199	70	300			
39540-13	39.5	40	48	199	70	300			
40040-13	40.0	40	48	204	70	306			
40540-13	40.5	40	48	204	70	306			
41040-13	41.0	40	48	209	70	311			
41540-13	41.5	40	48	209	70	311			
42040-13	42.0	40	48	214	70	317	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
42540-13	42.5	40	48	214	70	317			
43040-15	43.0	40	58	220	70	325			
43540-15	43.5	40	58	221	70	326			
44040-15	44.0	40	58	225	70	330			
44540-15	44.5	40	58	225	70	330			
45040-15	45.0	40	58	230	70	336			
45540-15	45.5	40	58	230	70	336			
46040-15	46.0	40	58	235	70	341			
46540-15	46.5	40	58	235	70	341			
47040-15	47.0	40	58	240	70	347			
47540-15	47.5	40	58	240	70	347			
48040-15	48.0	40	58	245	70	352	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
48540-15	48.5	40	58	245	70	352			
49040-15	49.0	40	58	250	70	357			
49540-15	49.5	40	58	250	70	357			
50040-15	50.0	40	58	255	70	362			
50540-15	50.5	40	58	255	70	362			
51040-18	51.0	40	68	261	70	371			
51540-18	51.5	40	68	261	70	371			
52040-18	52.0	40	68	266	70	376			
52540-18	52.5	40	68	266	70	376			
53040-18	53.0	40	68	271	70	381			
53540-18	53.5	40	68	271	70	381			
54040-18	54.0	40	68	276	70	386			
54540-18	54.5	40	68	276	70	386			
55040-18	55.0	40	68	281	70	391			
55540-18	55.5	40	68	281	70	391			
56040-18	56.0	40	68	286	70	398			
56540-18	56.5	40	68	286	70	398			
57040-18	57.0	40	68	292	70	404			
57540-18	57.5	40	68	292	70	404			
58040-18	58.0	40	68	298	70	410			
58540-18	58.5	40	68	298	70	410			
59040-18	59.0	40	68	304	70	416			
59540-18	59.5	40	68	304	70	416			
60040-18	60.0	40	68	310	70	422			
60540-18	60.5	40	68	310	70	422			

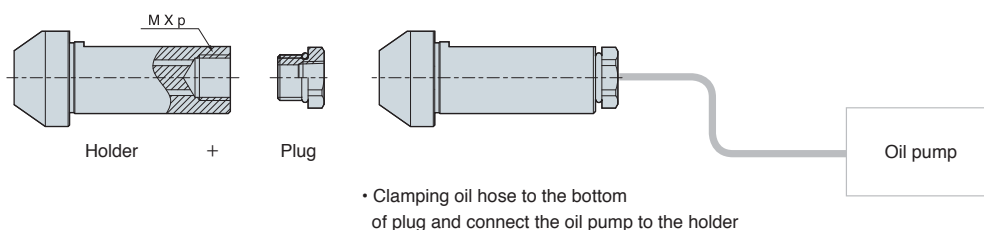
Applicable inserts G04-05



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

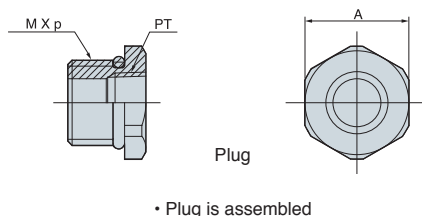
King Drill (For through coolant system with a lathe)

- 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



(mm)

Tap type	Diameter	Shank dia.	M x p	Plug
K□D120~16020HP-□□	Ø12.0~Ø16.0	Ø20	M12x1.5	PLG12PT18
K□D161~23525HP-□□	Ø16.1~Ø23.5	Ø25	M16x1.5	PLG16PT18
K□D236~35532HP-□□	Ø23.6~Ø35.5	Ø32	M20x2.0	PLG20PT14
K□D356~60940HP-□□	Ø35.6~Ø60.5	Ø40	M27x2.0	PLG27PT38

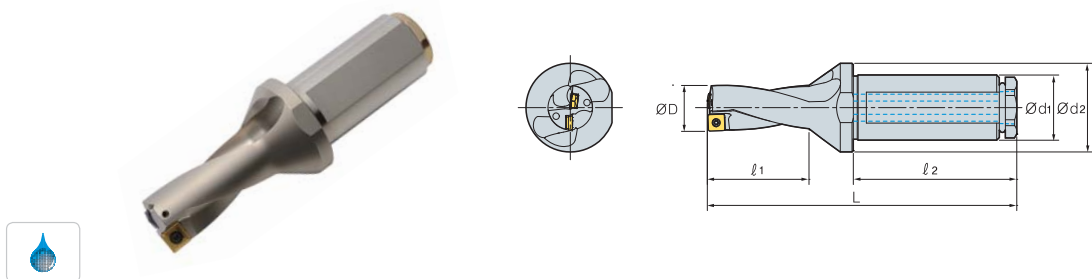


Plug type	M x p	PT tap	A
PLG12PT18	M12x1.5	1/8	16
PLG16PT18	M16x1.5	1/8	19
PLG20PT14	M20x2.0	1/4	26
PLG27PT38	M27x2.0	3/8	35

G King Drill (For through coolant system with a lathe)

King Drill-2D

For through coolant system with a lathe



Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K2D	13020HP-04	13.0	20	25	29	50	93	SP□T040204-□□	FTNA0204	TW06P
	13520HP-04	13.5	20	25	29	50	93	XO□T040204-□□		
	14020HP-05	14.0	20	25	31	50	96	SP□T050204-□□	FTNA0204	TW06P
	15020HP-05	15.0	20	25	33	50	99	XO□T050204-□□		
	16020HP-05	16.0	20	25	35	50	101		FTKA02206S	TW07P
	17025HP-06	17.0	25	34	37	56	109	SP□T060205-□□		
	18025HP-06	18.0	25	34	39	56	112	XO□T060204-□□	FTKA0256S	TW07S
	19025HP-06	19.0	25	34	41	56	114			
	20025HP-07	20.0	25	34	43	56	118	SP□T07T208-□□	FTKA0256S	TW07S
	21025HP-07	21.0	25	34	45	56	120	XO□T07T205-□□		
	22025HP-07	22.0	25	34	47	56	122		FTKA0307	TW09S
	23025HP-07	23.0	25	34	49	56	126			
	24032HP-09	24.0	32	44	51	60	133	SP□T090308-□□		
	25032HP-09	25.0	32	44	53	60	135	XO□T090305-□□		
	26032HP-09	26.0	32	44	55	60	137			
	27032HP-09	27.0	32	44	57	60	140			
	28032HP-09	28.0	32	44	59	60	143			
	29032HP-09	29.0	32	44	61	60	145			

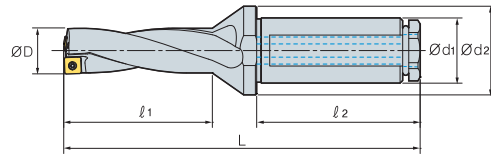
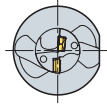
Applicable inserts G04~05



G Drills

King Drill-3D

For through coolant system with a lathe



(mm)

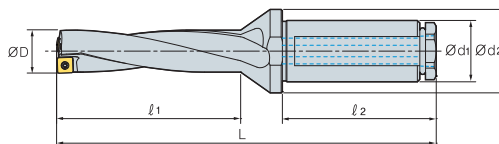
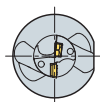
Designation		ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K3D	13020HP-04	13.0	20	25	42	50	106	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	13520HP-04	13.5	20	25	42	50	106			
	14020HP-05	14.0	20	25	45	50	110			
	14520HP-05	14.5	20	25	45	50	110	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	15020HP-05	15.0	20	25	48	50	114			
	15520HP-05	15.5	20	25	48	50	114			
	16020HP-05	16.0	20	25	51	50	117			
	16525HP-06	16.5	25	34	51	56	123			
	17025HP-06	17.0	25	34	54	56	126			
	17525HP-06	17.5	25	34	54	56	126	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	18025HP-06	18.0	25	34	57	56	130			
	18525HP-06	18.5	25	34	57	56	130			
	19025HP-06	19.0	25	34	60	56	133			
	19525HP-06	19.5	25	34	60	56	133			
	20025HP-07	20.0	25	34	63	56	138			
	20525HP-07	20.5	25	34	63	56	138			
	21025HP-07	21.0	25	34	66	56	141			
	21525HP-07	21.5	25	34	66	56	141	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	22025HP-07	22.0	25	34	69	56	144			
	22525HP-07	22.5	25	34	69	56	144			
	23025HP-07	23.0	25	34	72	56	149			
	23525HP-07	23.5	25	34	72	56	149			
	24032HP-09	24.0	32	44	75	60	157			
	24532HP-09	24.5	32	44	75	60	157			
	25032HP-09	25.0	32	44	78	60	160			
	25532HP-09	25.5	32	44	78	60	160			
	26032HP-09	26.0	32	44	81	60	163			
	26532HP-09	26.5	32	44	81	60	163	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	27032HP-09	27.0	32	44	84	60	167			
	27532HP-09	27.5	32	44	84	60	167			
	28032HP-09	28.0	32	44	87	60	171			
	28532HP-09	28.5	32	44	87	60	171			
	29032HP-09	29.0	32	44	90	60	174			
	29532HP-09	29.5	32	44	90	60	174			

Applicable inserts G04~05

G King Drill (For through coolant system with a lathe)

King Drill-4D

For through coolant system with a lathe



(mm)

Designation	ØD	Ød ₁	Ød ₂	l ₁	l ₂	L	Insert	Screw	Wrench
K4D 13020HP-04	13.0	20	25	29	50	93	SP□T040204-□□	FTNA0204	TW06P
13520HP-04	13.5	20	25	29	50	93	XO□T040204-□□		
14020HP-05	14.0	20	25	59	50	124	SP□T050204-□□	FTNA0204	TW06P
15020HP-05	15.0	20	25	63	50	129	XO□T050204-□□		
16020HP-05	16.0	20	25	67	50	133		FTKA02206S	TW07P
17025HP-06	17.0	25	34	71	56	143	SP□T060205-□□		
18025HP-06	18.0	25	34	75	56	148	XO□T060204-□□	FTKA0256S	TW07S
19025HP-06	19.0	25	34	79	56	152			
20025HP-07	20.0	25	34	83	56	158	SP□T07T208-□□	FTKA0256S	TW07S
21025HP-07	21.0	25	34	87	56	162	XO□T07T205-□□		
22025HP-07	22.0	25	34	91	56	166		FTKA0307	TW09S
23025HP-07	23.0	25	34	95	56	172			
24032HP-09	24.0	32	44	99	60	181	SP□T090308-□□	FTKA0307	TW09S
25032HP-09	25.0	32	44	103	60	185	XO□T090305-□□		
26032HP-09	26.0	32	44	107	60	189		FTKA0307	TW09S
27032HP-09	27.0	32	44	111	60	194			
28032HP-09	28.0	32	44	115	60	199		FTKA0307	TW09S
29032HP-09	29.0	32	44	119	60	203			

Applicable inserts G04-05

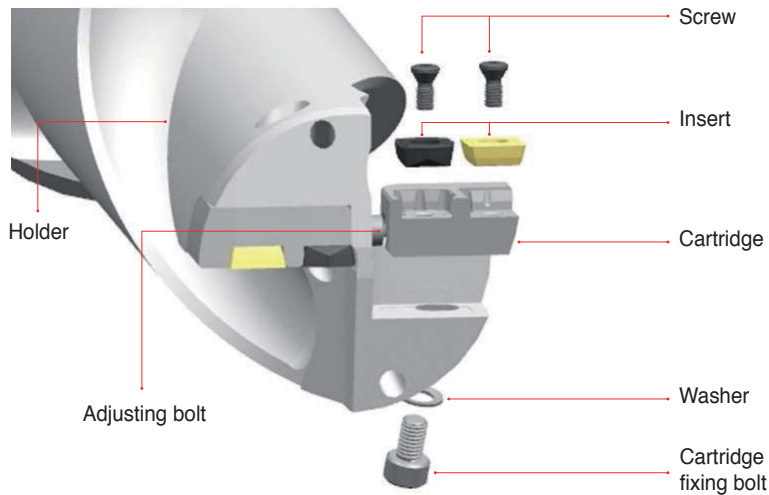


G Drills

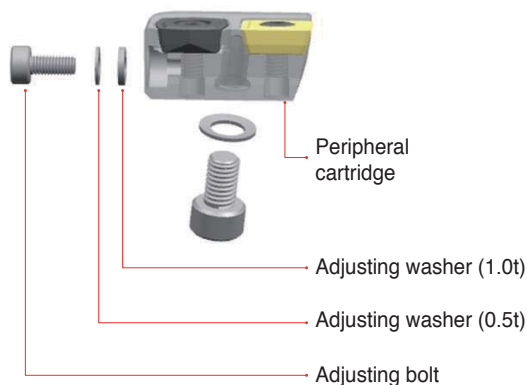
High rigidity drill produces cost efficiency due to cartridge replacement

King Drill (For large diameter drilling)

- Cartridge type for $\varnothing 61 \sim \varnothing 100$ drilling
- Peripheral cartridge can adjust the drilling diameter within 5mm
- Easy to adjust drilling diameter with adjusting bolt



Adjustment of drill diameter



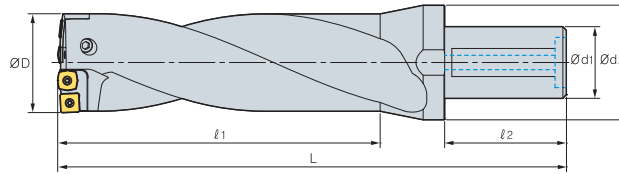
Adjustment Ø (mm)	Adjusting washer	
	Designation	Width (mm)
1	WA0305	0.5
2	WA0310	1.0
3	WA0305+WA0310	1.5
4	WA0310x2	2.0
5	WA0305+WA0310x2	2.5

※ Adjusting washer adjusts the drilling diameter within 5 mm

G King Drill (For large diameter drilling)

King Drill

For large diameter drilling



(mm)

Designation		ØD	Ød ₁	Ød ₂	ℓ ₁	ℓ ₂	L	Cartridge		 Screw	 Wrench
								Internal	External		
K2D	616550-11	61~65	50	80	130	80	255	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	65~70	50	88	140	80	265	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	70~75	50	88	150	80	275	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	75~80	50	88	160	80	285	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	80~85	50	88	170	80	295	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	85~90	50	95	180	80	305	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	90~95	50	95	190	80	315	KDC9095C	KDC9095P	FTNC04511	TW20S
	9510050-18	95~100	50	95	200	80	325	KDC95100C	KDC95100P	FTNA0511	TW20-100
K3D	616550-11	61~65	50	80	195	80	320	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	65~70	50	88	210	80	335	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	70~75	50	88	225	80	350	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	75~80	50	88	240	80	365	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	80~85	50	88	255	80	380	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	85~90	50	95	270	80	395	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	90~95	50	95	285	80	410	KDC9095C	KDC9095P	FTNC04511	TW20S
	9510050-18	95~100	50	95	300	80	425	KDC95100C	KDC95100P	FTNA0511	TW20-100
K4D	616550-11	61~65	50	80	260	80	385	KDC6165C	KDC6165P	FTKA03508	TW15S
	657050-13	65~70	50	88	280	80	405	KDC6570C	KDC6570P	FTKA0410	TW15S
	707550-13	70~75	50	88	300	80	425	KDC7075C	KDC7075P	FTKA0410	TW15S
	758050-13	75~80	50	88	320	80	445	KDC7580C	KDC7580P	FTKA0410	TW15S
	808550-15	80~85	50	88	340	80	465	KDC8085C	KDC8085P	FTNC04511	TW20S
	859050-15	85~90	50	95	360	80	485	KDC8590C	KDC8590P	FTNC04511	TW20S
	909550-15	90~95	50	95	380	80	505	KDC9095C	KDC9095P	FTNC04511	TW20S
	9510050-18	95~100	50	95	400	80	525	KDC95100C	KDC95100P	FTNA0511	TW20-100

Applicable inserts G04~05

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



G Drills