

KORLOY Indexable New Generation Drill

KING DRILL



High Speed and High Efficiency Indexable Drill

■ **Excellent Chip Control**

Highly effective chipbreaker design for hole making applications. Excellent chip control and surface finish due to optimized insert geometries

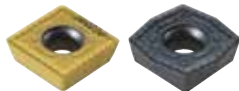
■ **Stable Tool Life**

Optimized balance between cutting edges and grades improves stability of tool life.



KING DRILL

High Speed and High Efficiency Indexable Drill



Insert

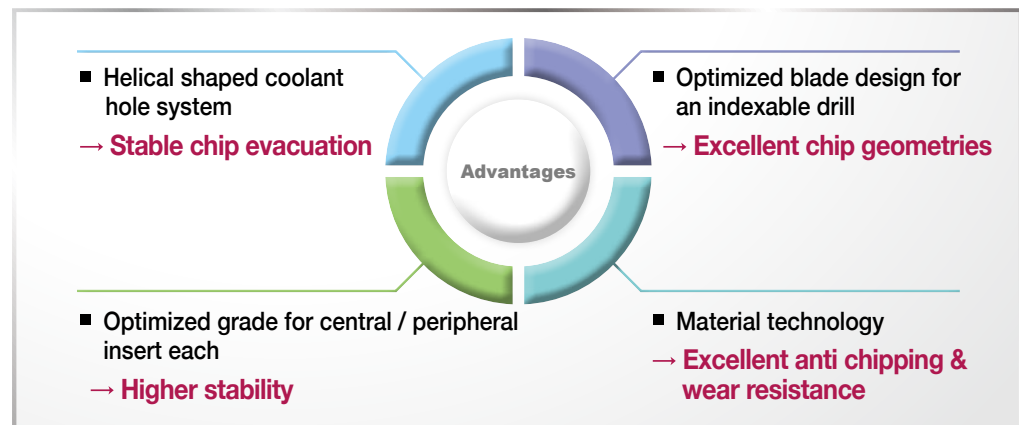
Unlike solid drills, most indexable drills used for general purpose drilling produce poor machining precision and imbalanced hole shape due to the asymmetric geometries of the inserts. This results in difficulties making holes that are deeper than three times the drill diameter (3D).

To solve this problem, both central and peripheral inserts and centering of the KING DRILL were specially designed to balance insert arrangement with grade optimization in order to effectively produce holes at five drill diameters (5D).

Optimized blade and flute design of the KING DRILL enhance effectiveness of drilling mechanisms due to superior chip formation and chip shape. The helical oil holes on the KINGDRILL produce smoother chip evacuation.

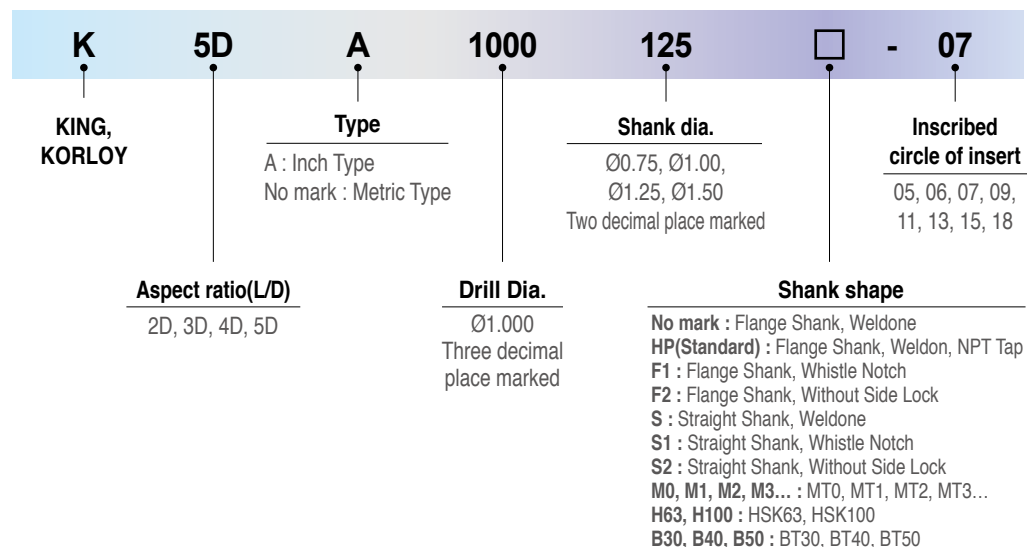
KING DRILL inserts are available in four chip breakers for a wide range of applications : PD for general purpose, LD for mild steel and hard-to-cut materials, ND for aluminum machining, and RD with reinforced central corners. The specialized geometries and grades of the central and peripheral inserts maximize performance and cutting tool life.

As a result, faster and higher stability significantly increase productivity and reduce tool cost.



Code System

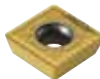


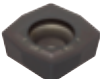



[Holder]



⇒ Features of Insert

■ 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 optimize the insert locations to maximize cutting tool life

Chip breaker	PD		LD		ND		RD
Feature	- Universal - 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		- Improved chipping resistance - Excellent performance in case of frequent fracture and chipping on the cutting edge
Insert type	Peripheral insert	Central insert	Peripheral insert	Central insert	Peripheral insert	Central insert	Central insert
Shape							
Grade : Workpiece range	NC5330 : P, M, K PC3500 : P PC5300 : P, M, K, S PC6510 : K		PC5300 : P, M, K, S		PC5335 : P, M		H01 : N PC5300 : P, M, K, S

⇒ Features of Drill

Optimized Flute System - 2 Coolant Holes Applied

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

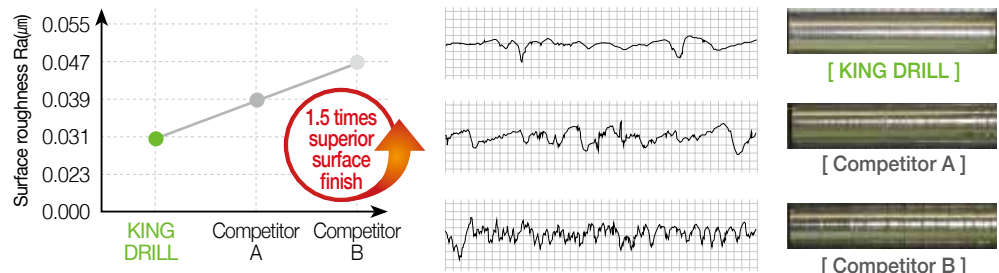


⇒ Cutting Performance

• KING DRILL shows superior surface finish compared to other competitors.

Surface Finish

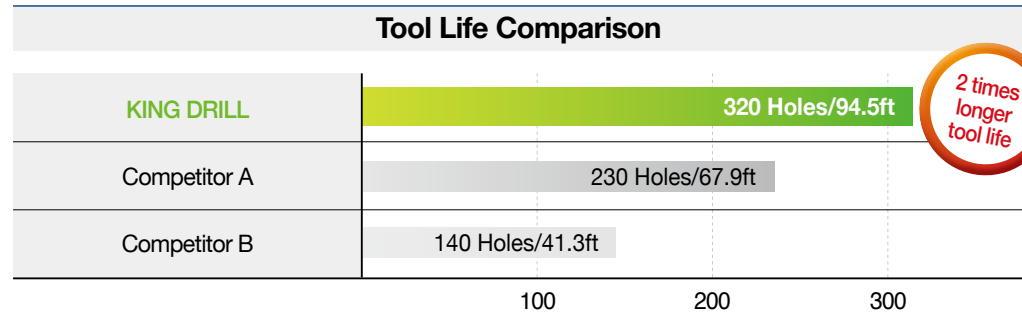
- Workpiece AISI4140
- Cutting conditions $vc(sfm)=492$, $fn(ipr)=0.0031$, Depth of drilling : 2.36inch(pass though), Through coolant system
- Tools
 Insert SPMT050204-PD (PC3500), XOMT050204-PD (PC5300)
 Holder K5DA0562075HP-05



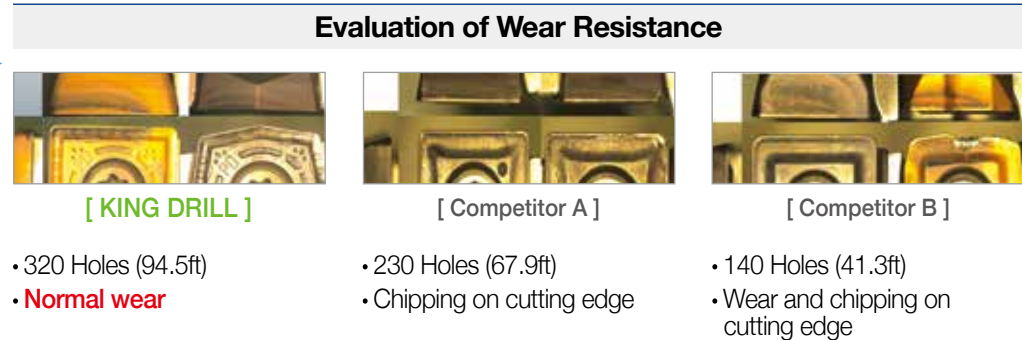
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⇒ Cutting Performance

- **Workpiece** AISI4140
- **Cutting conditions** $vc(sfm)=492$, $fn(ipr)=0.0039$, Depth of drilling : 3.15inch(pass through), Through coolant system
- **Tools** **Insert** SPMT060205-PD (PC3500), XOMT060204-PD (PC5300)
 Holder K5DA0875100HP-07

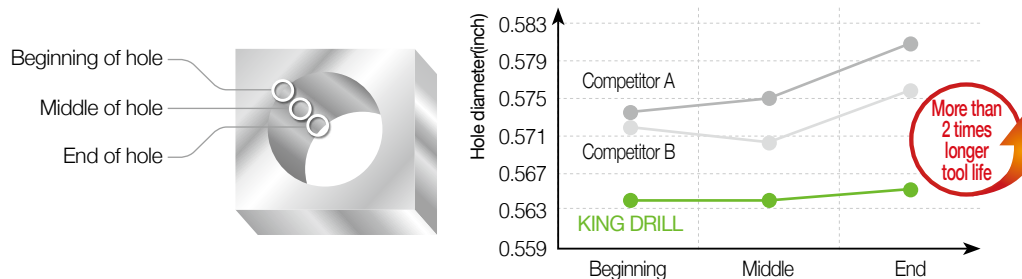


• As the test result shows, KING DRILL has higher wear resistance than competitors and provides the best tool life.



• The diameters of beginning, middle, and end of hole are regular after drilling with KING DRILL.

- ### Precision of Machining
- **Workpiece** AISI4140
 - **Cutting conditions** $vc(sfm)=492$, $fn(ipr)=0.0031$, Depth of drilling : 2.36inch(pass through), Through coolant system
 - **Tools** **Insert** SPMT050204-PD (PC3500), XOMT050204-PD (PC5300)
 Holder K5DA0562075HP-05



- **KING DRILL**
- Regular hole diameters at the beginning, middle and end of hole
- **Competitor A**
- Hole diameter : beginning < middle < end
- **Competitor B**
- Bigger hole diameter at the end of hole

⇒ Cutting Performance

- The test results clearly show that the KING DRILL's cutting performance is far superior to its competitors when it comes to chip evacuation.

Chip Evacuation

■ Workpiece	AISI1045
■ Cutting conditions	vc(sfm)=295~590, fn(ipr)=0.0024~0.0047, t(inch)=3.5, Through coolant system, pass through
■ Tools	Insert SPMT07T208-PD (PC3500), XOMT07T205-PD (PC5300) Holder K5DA0812100HP-07



[KING DRILL]

- Stable chip control



[Competitor A]

- Thin and long chips are coiled around the holder.



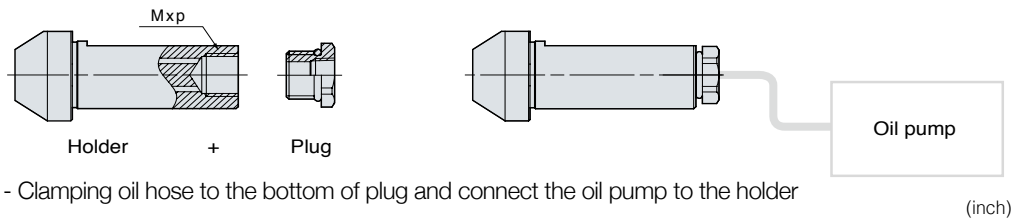
[Competitor B]

- Folded chips under certain cutting condition
- Poor chip evacuation

⇒ KING DRILL- With Through Coolant System for Lathe

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

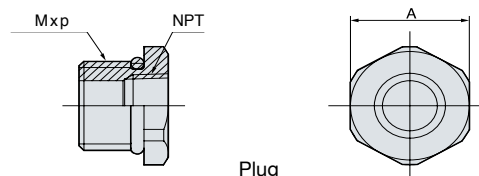
- Through coolant system with drill holder, plug, oil-hole hose and oil-hole pump
- NPT Tap in the plug is combined to NPT Tap connected to oil hose.
- Available to use the drill without a plug in milling machine.



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

Designation	Diameter	Shank Dia.	M x p	Plug
K□DA0484075~0625075HP-□□	Ø0.484 ~ Ø0.625	Ø0.75	M12 x 1.5	PLG12NPT18
K□DA0687100~0875100HP-□□	Ø0.687 ~ Ø0.875	Ø1.00	M16 x 1.5	PLG16NPT18
K□DA0937125~1375125HP-□□	Ø0.937 ~ Ø1.375	Ø1.25	M20 x 2.0	PLG20NPT14
K□DA1437150~2375150HP-□□	Ø1.437 ~ Ø2.375	Ø1.50	M27 x 2.0	PLG27NPT38

- Assembled plug



Plug Type	M x p	NPT Tap	A
PLG12NPT18	M12 x 1.5	1/8	5/8
PLG16NPT18	M16 x 1.5	1/8	7/8
PLG20NPT14	M20 x 2.0	1/4	11/8
PLG27NPT38	M27 x 2.0	3/8	11/8

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Application Examples



Track link bush

- Workpiece: AISI4140
- Cutting conditions: $vc(sfm)=394$, $fn(ipr)=0.0039$, Through coolant system
- Tools: Insert: SPMT07T208-PD (PC3500), XOMT07T205-PD (PC5300)
Holder: K5DA0812100HP-07

KING DRILL

180ea

Competitor

120ea

50%
more

- ➔ Superior surface finish and chip evacuation
50% longer tool life than competitor



Hydraulic oil pump

- Workpiece: AISI4140
- Cutting conditions: $vc(sfm)=449$, $fn(ipr)=0.0051$, $ap(\text{inch})=2.3$ (not pass though), Through coolant system
- Tools: Insert: SPMT090308-PD (PC3500), XOMT090305-PD (PC5300)
Holder: K5DA1000125HP-09

KING DRILL

468 Holes

Competitor

254 Holes

84%
more

- ➔ Superior chip evacuation and surface finish
84% longer tool life than competitor



Track link bush

- Workpiece: AISI4130
- Cutting conditions: $vc(sfm)=459$, $fn(ipr)=0.0039$, Through coolant system
- Tools: Insert: SPMT090308-PD (PC3500), XOMT090305-PD (PC5300)
Holder: K3DA1062125-09

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$vf(\text{inch}/\text{min})=7.8$

Competitor

$vf(\text{inch}/\text{min})=5.8$

35%
more

- ➔ KING DRILL has 35% longer tool life and 35% improved productivity.



Chips from KING DRILL Chips from competitor's

Track link

- Workpiece: AISI4140
- Cutting conditions: $vc(sfm)=360$, $fn(ipr)=0.0039$, Through coolant system
- Tools: Insert: SPMT090308-PD (PC3500), XOMT090305-PD (PC5300)
Holder: K3DA1062125-09

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220 Holes

Competitor

150 Holes

45%
more

- ➔ KING DRILL has 45% longer tool life and 100% improved productivity.
Good surface finish, improved chip control and less chattering

⇒ Recommended Cutting Condition

(inch)

Workpiece			Insert			vc (sfm)	Feed(aspect ratio=2D, 3D, 4D)					
ISO	Workpiece	Hardness(HB)	Chip Breaker	Grade			fn(ipr) depending on drill Dia.					
				Central	Peripheral		0.47~0.63	0.64~0.91	0.92~1.14	1.15~1.65	1.66~2.36	
P	Carbon steel	80~180	LD	PC5335	PC5335	394(197~558)	0.0016~0.0031	0.0016~0.0031	0.0016~0.0031	0.0016~0.0031	0.0016~0.0031	
			PD/ RD	PC5300	PC3500	492(394~591)						
					NC5330	591(459~722)						
	High carbon	180~280	PD	PC5300	PC3500	394(295~492)	0.0016~0.0039	0.0016~0.0047	0.0020~0.0063	0.0024~0.0063	0.0024~0.0071	
					NC5330	492(361~623)	0.0016~0.0024	0.0016~0.0028	0.0016~0.0031	0.0016~0.0031	0.0016~0.0031	
	Alloy steel	Low alloy steel	140~260	LD	PC5335	PC5335	394(197~525)	0.0024~0.0039	0.0024~0.0039	0.0024~0.0047	0.0024~0.0055	0.0024~0.0055
				PD	PC3500	PC3500	492(394~558)	0.0024~0.0047	0.0024~0.0047	0.0024~0.0055	0.0024~0.0063	0.0024~0.0063
						NC5330	591(459~689)	0.0024~0.0031	0.0024~0.0031	0.0024~0.0039	0.0024~0.0047	0.0024~0.0047
		Hardened low alloy steel	200~400	PD	PC5300	PC5300	328(164~492)	0.0016~0.0039	0.0024~0.0039	0.0024~0.0047	0.0024~0.0055	0.0024~0.0055
		High alloy steel	260~320	PD	PC5300	PC3500	328(164~525)	0.0020~0.0043	0.0020~0.0043	0.0020~0.0051	0.0020~0.0059	0.0020~0.0059
Hardened high alloy steel	300~450	PD	PC5300	PC5300	230(98~394)	0.0016~0.0031	0.0024~0.0031	0.0024~0.0039	0.0024~0.0047	0.0024~0.0047		
M	Stainless steel	135~275	LD	PD5335	PC5335	394(262~459)	0.0016~0.0028	0.0016~0.0028	0.0016~0.0028	0.0016~0.0031	0.0016~0.0031	
			PD	PC5300	PC5300	427(328~525)	0.0016~0.0028	0.0016~0.0028	0.0016~0.0028	0.0016~0.0031	0.0016~0.0031	
K	Cast iron	Gray cast iron	150~230	PD	PC5300	PC6510	623(492~820)	0.0016~0.0047	0.0020~0.0055	0.0024~0.0071	0.0039~0.0087	0.0039~0.0102
		Ductile cast iron	150~230	PD	PC5300	PC6510	427(328~525)	0.0016~0.0028	0.0016~0.0031	0.0016~0.0039	0.0020~0.0047	0.0020~0.0047
S	Heat resisting alloy	Ni-heat resisting alloy	130~400	PD	PC5300	PC5300	164(98~328)	0.0016~0.0039	0.0016~0.0039	0.0016~0.0039	0.0016~0.0039	0.0016~0.0039
		Ti-heat resisting alloy	130~400	PD	PC5335	PC5335	197(131~262)	0.0016~0.0031	0.0016~0.0039	0.0024~0.0047	0.0024~0.0055	0.0024~0.0063
				PD	PC5300	PC5300	197(131~262)	0.0016~0.0031	0.0016~0.0039	0.0024~0.0047	0.0024~0.0055	0.0024~0.0063
High hardened steel	400~	PD	PC5300	PC5300	131(66~262)	0.0016~0.0020	0.0016~0.0024	0.0016~0.0031	0.0016~0.0031	0.0016~0.0031		
N	Alloyed aluminum	30~150	ND	H01	H01	984(820~1312)	0.0020~0.0055	0.0024~0.0063	0.0039~0.0079	0.0039~0.0087	0.0047~0.0098	
	Alloyed copper	150~160	ND	H01	H01	820(656~984)	0.0020~0.0055	0.0024~0.0063	0.0039~0.0079	0.0039~0.0087	0.0047~0.0098	

※ The Max. feed of 5D holders is 70%~80% of the max. conditions of 2D/3D/4D holders.

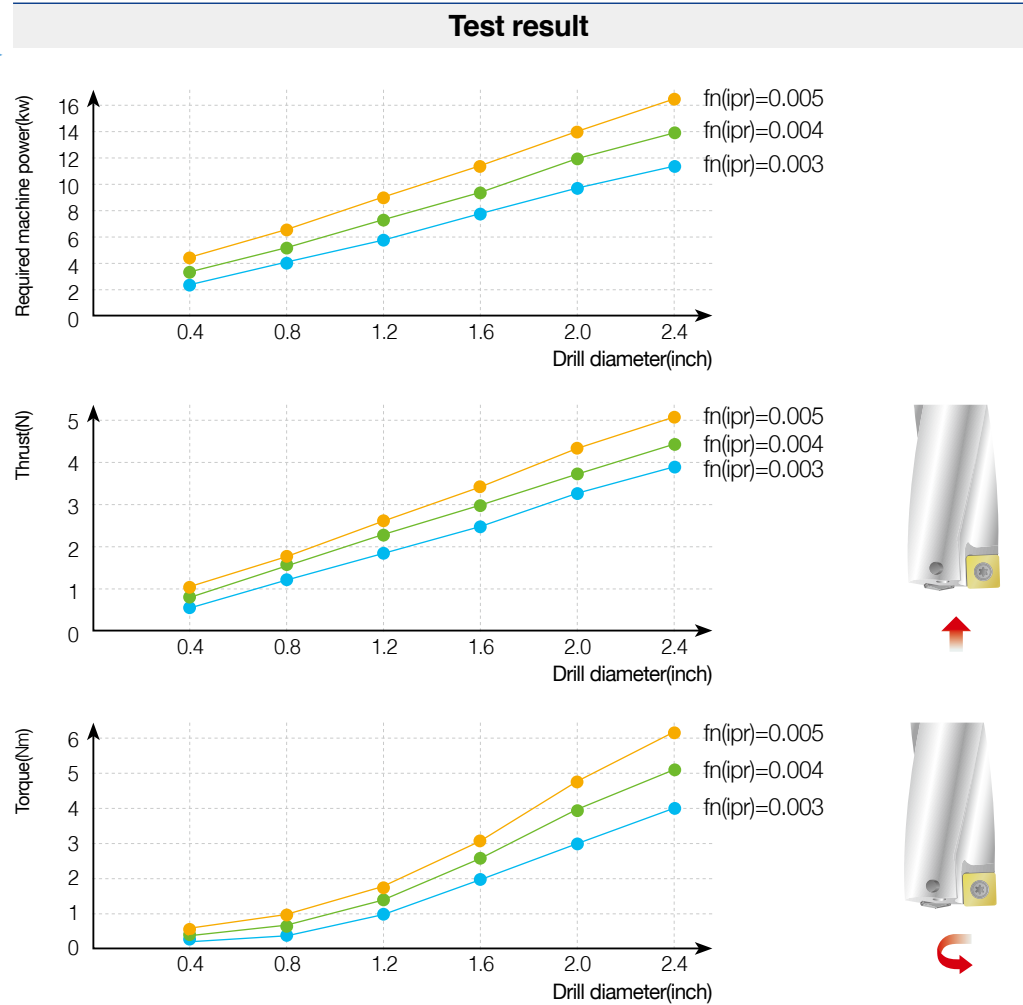
※ In interrupted machining part, reduce 30~50% of feed from the above machining around interrupted part.

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Required Machine Power

- Workpiece: AISI4140(240HB)
- Cutting conditions: $vc(sfm)=328$, Through coolant system

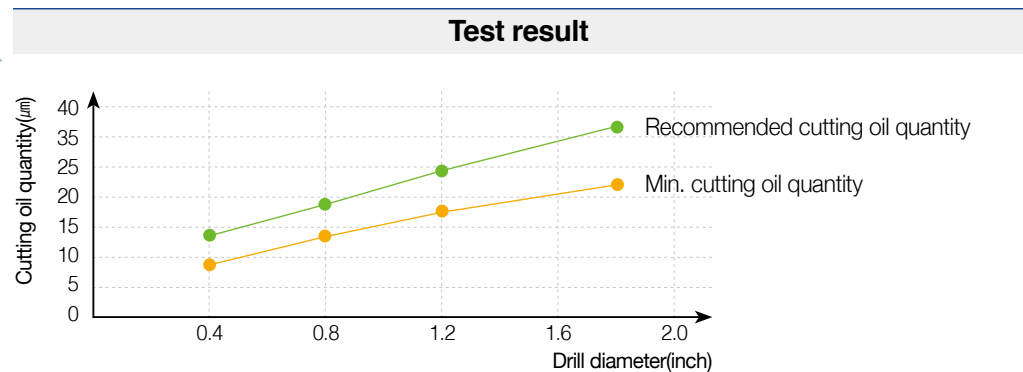
- The graphs below show the cutting force required in drilling.
- Machining with the KING DRILL and a machine with high rigidity and power



Cutting Oil Quantity

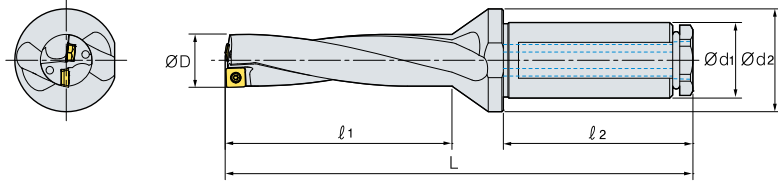
- Workpiece: AISI4140(240HB)
- Cutting conditions: $vc(sfm)=328$, Through coolant system

- Recommended coolant pressure: 5kg/cm^2 above
- Data from the above graph can vary depending on workpiece and cutting condition.



⇒ Drill Tolerance and Hole Tolerance

- The actual hole tolerance of KING DRILL is as shown in the chart above.
- The length of drill, type of workpiece, machine stability, and cutting condition could affect the hole tolerance.



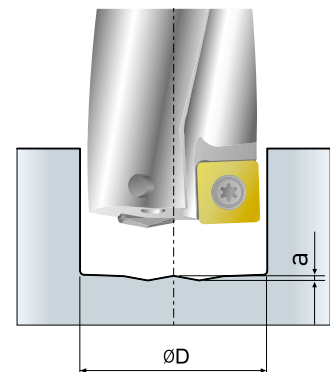
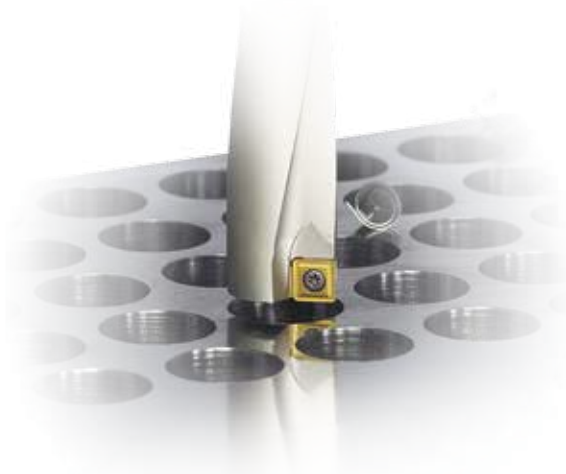
(inch)

Drill diameter		Ø0.484 ~ Ø1.125	Ø1.187 ~ Ø1.750	Ø1.812 ~ Ø2.375
2D ~ 3D	Drill tolerance(ØD)	0 ~ - 0.006	0 ~ - 0.006	0 ~ - 0.006
	Hole tolerance	- 0.016 ~ + 0.008	- 0.004 ~ + 0.010	- 0.004 ~ + 0.011
4D ~ 5D	Drill tolerance(ØD)	0 ~ - 0.006	0 ~ - 0.006	0 ~ - 0.006
	Hole tolerance	- 0.002 ~ + 0.010	- 0.002 ~ + 0.012	- 0.002 ~ + 0.013

⇒ The Shape of the Bottom of Blind Hole

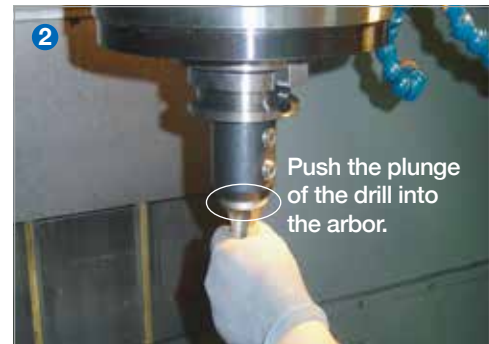
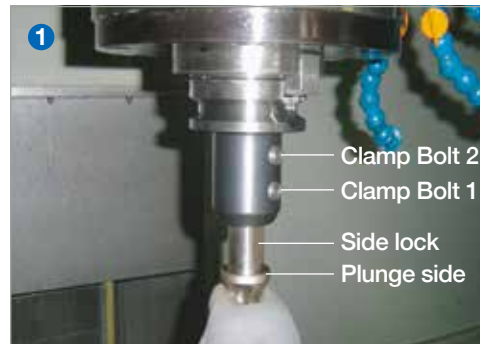
- KING DRILL drills with two inserts, central and peripheral
- Refer to the above chart for remaining insert curve of blind hole bottom

Drill diameter(inch)	Peripheral insert	Central insert	a
Ø0.484 ~ Ø0.531	SP□T040204-□□	XO□T040204-□□	0.016
Ø0.562 ~ Ø0.625	SP□T050204-□□	XO□T050204-□□	0.016
Ø0.687 ~ Ø0.750	SP□T060205-□□	XO□T060204-□□	0.020
Ø0.812 ~ Ø0.875	SP□T07T208-□□	XO□T07T205-□□	0.020
Ø0.937 ~ Ø1.125	SP□T090308-□□	XO□T090305-□□	0.028
Ø1.187 ~ Ø1.375	SP□T11T308-□□	XO□T11T306-□□	0.031
Ø1.437 ~ Ø1.687	SP□T130410-□□	XO□T130406-□□	0.039
Ø1.750 ~ Ø2.000	SP□T15M510-□□	XO□T15M508-□□	0.043
Ø2.062 ~ Ø2.375	SP□T180510-□□	XO□T180508-□□	0.047



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⇒ How to Clamp KING DRILL to Side Lock Arbor



■ Recommendation to use side lock arbor for KING DRILL

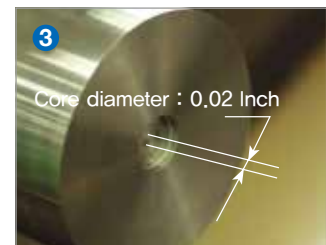
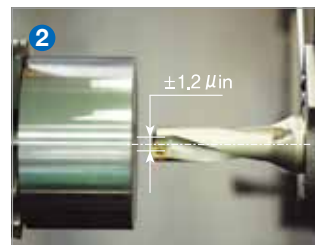
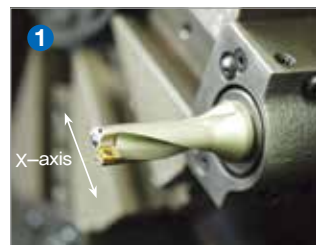
Step ① : Insert the drill with the side lock aligned to the bolts of the arbor.

Step ② : Push the plunger of the drill into the arbor.

Step ③ : Clamp Bolt 1.









Step ④ : Clamp Bolt 2.

⇒ Notice for Setting the Drill in the Lathe.



- Set the peripheral insert parallel to the X axis. (Based on the side lock.)
- To calibrate the drill to its ideal settings, the initial drilling depth should be at 0.2", in order to make the core dia. of 0.02" wide.
 - Note that the location of the side lock may vary depending on the lathe brand.

⇒ Machining Required Attention

Workpiece	Machining	
	Machining irregular face	<ul style="list-style-type: none"> ■ Possible chipping and fracture of the insert. ■ Reduce normal feed 25%.
	Machining convex side	<ul style="list-style-type: none"> ■ Possible initial contact with central insert. ■ Reduce feed 50% until both inserts are engaged.
	Machining concave side	<ul style="list-style-type: none"> ■ Reduce feed 50% until both inserts are engaged.
	Boring	<ul style="list-style-type: none"> ■ Reduce feed 50% from normal conditions.
	Ramping	<ul style="list-style-type: none"> ■ Reduce feed 50% from normal conditions.
	Machining cross holes	<ul style="list-style-type: none"> ■ Reduce feed 50% in the overlapped section.
	Machining overlapped holes	<ul style="list-style-type: none"> ■ Reduce feed 50% from normal conditions.
	Machining overlapped panels	<ul style="list-style-type: none"> ■ Possible chipping and fracture of insert. ■ Reduce normal feed 25%.

KING DRILL

⇒ Solutions for Machining Failure

Failure	Detail	Solution
Different diameters of one machined hole	Different diameters of one machined hole → The end of hole Diameter is bigger	<ul style="list-style-type: none"> ■ Use more coolant and check the coolant evacuation. ■ Change the drill to one with small aspect ratio. ■ Change the cutting condition for better chip control.
Enlarging or reducing hole diameter	Enlarging or reducing hole diameter	<ul style="list-style-type: none"> ■ Milling → Use more coolant → Check the coolant evacuation ■ Turning → Check the center of drill and workpiece → Rotate the drill to 180°
Chattering	Vibration while machining	<ul style="list-style-type: none"> ■ Set the overhang of drill short. ■ Reduce the cutting speed and feed. ■ Stable clamping ■ Check the torque of machine.
Poor chip evacuation	Long chip	<ul style="list-style-type: none"> ■ Mild steel / STS → speed up, feed down. ■ Alloy steel / carbon steel → speed up, feed up.
	Short chip	<ul style="list-style-type: none"> ■ Speed down, feed down, pressure of coolant up.
Poor surface finish	Scratch on the machined side	<ul style="list-style-type: none"> ■ Set the cutting condition for better chip control. ■ Feed down or speed up. ■ Increase the coolant flow and check the coolant evacuation. ■ Set the overhang of drill short and more stable clamping.
Short tool life of insert	Too much wear or chipping on insert	<ul style="list-style-type: none"> ■ Check the cutting condition. ■ Use more coolant and check the coolant evacuation. ■ Set the overhang of drill short and more stable clamping. ■ Change the insert grade.

⇒ Insert and Parts

Diameter of drill	Peripheral insert	Central insert	Screw	Wernch	Torque(Nm)
Ø0.484 ~ Ø0.531	SP□T040204-□□	XO□T040204-□□	FTNA0204	TW06P	0.4
Ø0.562 ~ Ø0.625	SP□T050204-□□	XO□T050204-□□	FTNA0204	TW06P	0.4
Ø0.687 ~ Ø0.750	SP□T060205-□□	XO□T060204-□□	FTKA02206S	TW07P	0.8
Ø0.812 ~ Ø0.875	SP□T07T208-□□	XO□T07T205-□□	FTKA02565	TW07S	0.8
Ø0.937 ~ Ø1.125	SP□T090308-□□	XO□T090305-□□	FTKA0307	TW09S	1.2
Ø1.187 ~ Ø1.375	SP□T11T308-□□	XO□T11T306-□□	FTKA03508	TW15S	3.0
Ø1.437 ~ Ø1.687	SP□T130410-□□	XO□T130406-□□	FTKA0410	TW15S	3.0
Ø1.750 ~ Ø2.000	SP□T15M510-□□	XO□T15M508-□□	FTNC04511	TW20S	5.0
Ø2.062 ~ Ø2.375	SP□T180510-□□	XO□T180508-□□	FTNA0511	TW20-100	5.0

※ In clamping an insert, please clean the tip seat and apply CASMOLY1000 on the screw.

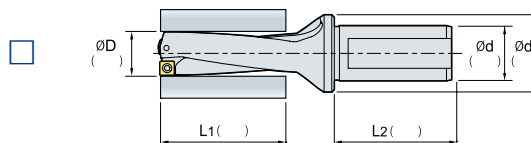
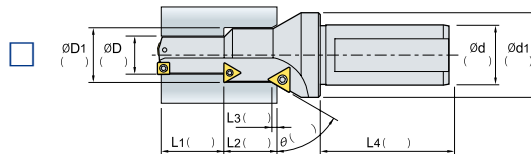
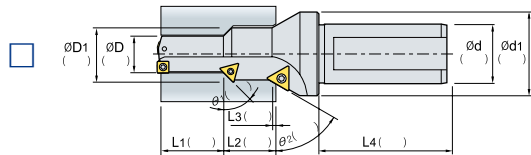
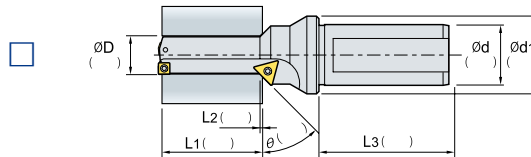
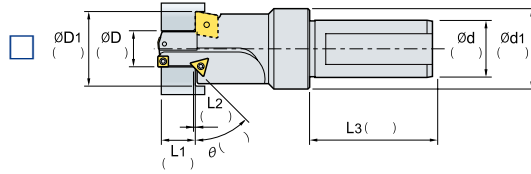
※ Please make sure to use a Korloy-produced wrench and screw only.

➔ Special Drill Order Form

■ Mark 'V' in the box

[Note]

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



■ Coolant type

- Through coolant Plug Type (Standard) NPT
- Through coolant Non Plug Type
- No coolant

■ Hole type

- Blind hole
- Thru hole

■ Types of shank

- Flat Type
- Weldon Type
- Whistle Notch Type


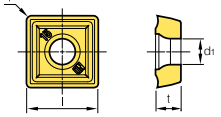

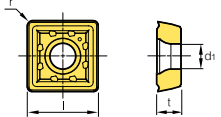
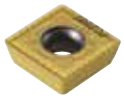

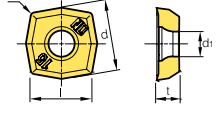

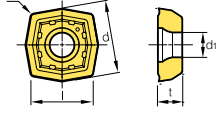


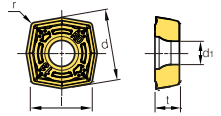
■ Location of side lock

- Parallel to peripheral insert (standard)
- 90° angle to peripheral insert (standard)
- 180° angle to peripheral insert (standard)
- 270° angle to peripheral insert (standard)

KING DRILL

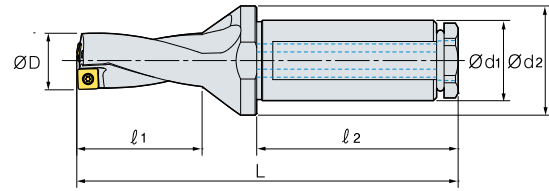
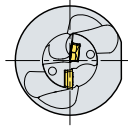
⇒ Inserts

(inch)

Insert shape	Designation	Coated					Uncoated	Drill diameter	l	d	t	r	d ₁	Figure
		NC5330	PC5300	PC5335	PC3500	PC6510	H01							
	SPET	040204-ND					●	Ø0.484 ~ Ø0.531	0.185	-	0.094	0.016	0.091	
		050204-ND					●	Ø0.562 ~ Ø0.625	0.201	-	0.094	0.016	0.091	
		060205-ND					●	Ø0.687 ~ Ø0.750	0.244	-	0.098	0.020	0.098	
		07T208-ND					●	Ø0.812 ~ Ø0.875	0.295	-	0.110	0.028	0.110	
		090308-ND					●	Ø0.937 ~ Ø1.125	0.362	-	0.130	0.031	0.134	
		11T308-ND					●	Ø1.187 ~ Ø1.375	0.433	-	0.157	0.031	0.157	
		130410-ND					●	Ø1.437 ~ Ø1.687	0.512	-	0.177	0.039	0.177	
		15M510-ND					●	Ø1.750 ~ Ø2.000	0.598	-	0.197	0.039	0.217	
	SPMT	060205-LD		●				Ø0.687 ~ Ø0.750	0.244	-	0.098	0.020	0.098	
		07T208-LD		●				Ø0.812 ~ Ø0.875	0.295	-	0.110	0.028	0.110	
		090308-LD		●				Ø0.937 ~ Ø1.125	0.362	-	0.130	0.031	0.134	
		11T308-LD		●				Ø1.187 ~ Ø1.375	0.433	-	0.157	0.031	0.157	
		130410-LD		●				Ø1.437 ~ Ø1.687	0.512	-	0.177	0.039	0.177	
		15M510-LD		●				Ø1.750 ~ Ø2.000	0.598	-	0.197	0.039	0.217	
		180510-LD		●				Ø2.062 ~ Ø2.375	0.717	-	0.217	0.039	0.236	
			SPMT	040204-PD	●	●		●	●	Ø0.484 ~ Ø0.531	0.185	-	0.094	
050204-PD	●			●		●	●	Ø0.562 ~ Ø0.625	0.201	-	0.094	0.016	0.091	
060205-PD	●			●		●	●	Ø0.687 ~ Ø0.750	0.244	-	0.098	0.020	0.098	
07T208-PD	●			●		●	●	Ø0.812 ~ Ø0.875	0.295	-	0.110	0.028	0.110	
090308-PD	●			●		●	●	Ø0.937 ~ Ø1.125	0.362	-	0.130	0.031	0.134	
11T308-PD	●			●		●	●	Ø1.187 ~ Ø1.375	0.433	-	0.157	0.031	0.157	
130410-PD	●			●		●	●	Ø1.437 ~ Ø1.687	0.512	-	0.177	0.039	0.177	
15M510-PD	●			●		●	●	Ø1.750 ~ Ø2.000	0.598	-	0.197	0.039	0.217	
	XOET	040204-ND					●	Ø0.484 ~ Ø0.531	0.169	0.193	0.094	0.016	0.091	
		050204-ND					●	Ø0.562 ~ Ø0.625	0.189	0.213	0.094	0.016	0.091	
		060204-ND					●	Ø0.687 ~ Ø0.750	0.228	0.260	0.098	0.016	0.098	
		07T205-ND					●	Ø0.812 ~ Ø0.875	0.272	0.307	0.110	0.020	0.110	
		090305-ND					●	Ø0.937 ~ Ø1.125	0.331	0.378	0.130	0.020	0.134	
		11T306-ND					●	Ø1.187 ~ Ø1.375	0.394	0.449	0.157	0.024	0.157	
		130406-ND					●	Ø1.437 ~ Ø1.687	0.469	0.535	0.177	0.024	0.177	
		15M508-ND					●	Ø1.750 ~ Ø2.000	0.547	0.626	0.197	0.031	0.217	
	XOMT	060204-LD		●				Ø0.687 ~ Ø0.750	0.228	0.260	0.098	0.016	0.098	
		07T205-LD		●				Ø0.812 ~ Ø0.875	0.272	0.307	0.110	0.020	0.110	
		090305-LD		●				Ø0.937 ~ Ø1.125	0.331	0.378	0.130	0.020	0.134	
		11T306-LD		●				Ø1.187 ~ Ø1.375	0.394	0.449	0.157	0.024	0.157	
		130406-LD		●				Ø1.437 ~ Ø1.687	0.469	0.535	0.177	0.024	0.177	
		15M508-LD		●				Ø1.750 ~ Ø2.000	0.547	0.626	0.197	0.031	0.217	
		180508-LD		●				Ø2.062 ~ Ø2.375	0.650	0.744	0.217	0.031	0.236	
			XOMT	040204-PD	●					Ø0.484 ~ Ø0.531	0.169	0.193	0.094	
050204-PD	●							Ø0.562 ~ Ø0.625	0.189	0.213	0.094	0.016	0.091	
060204-PD	●							Ø0.687 ~ Ø0.750	0.228	0.260	0.098	0.016	0.098	
07T205-PD	●							Ø0.812 ~ Ø0.875	0.272	0.307	0.110	0.020	0.110	
090305-PD	●							Ø0.937 ~ Ø1.125	0.331	0.378	0.130	0.020	0.134	
11T306-PD	●							Ø1.187 ~ Ø1.375	0.394	0.449	0.157	0.024	0.157	
130406-PD	●							Ø1.437 ~ Ø1.687	0.469	0.535	0.177	0.024	0.177	
15M508-PD	●							Ø1.750 ~ Ø2.000	0.547	0.626	0.197	0.031	0.217	
	XOMT	07T207-RD						Ø0.812 ~ Ø0.875	0.272	0.307	0.110	0.028	0.110	
		090308-RD						Ø0.937 ~ Ø1.125	0.331	0.378	0.130	0.031	0.134	
		11T309-RD						Ø1.187 ~ Ø1.375	0.394	0.449	0.157	0.035	0.157	
		130410-RD						Ø1.437 ~ Ø1.687	0.469	0.535	0.177	0.039	0.177	
		15M511-RD						Ø1.750 ~ Ø2.000	0.547	0.626	0.197	0.043	0.217	
		180512-RD						Ø2.062 ~ Ø2.375	0.650	0.744	0.217	0.047	0.236	

● : Stock item

KING DRILL-2D

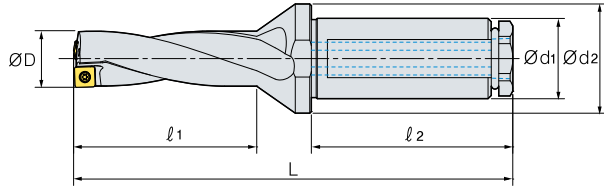
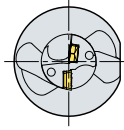


(inch)

Designation	ØD	Ød1	Ød2	l ₁	l ₂	L	Insert	Screw	Wrench	
K2DA	0484075HP-04	0.484 31/64	0.75	0.98	1.06	1.97	3.58	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	0500075HP-04	0.500 1/2	0.75	0.98	1.14	1.97	3.66			
	0531075HP-04	0.531 17/32	0.75	0.98	1.14	1.97	3.66			
	0562075HP-05	0.562 9/16	0.75	0.98	1.22	1.97	3.78	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	0625075HP-05	0.625 5/8	0.75	0.98	1.38	1.97	3.98			
	0687100HP-06	0.687 11/16	1.00	1.34	1.46	2.20	4.29	SP□T07T208-□□ XO□T07T205-□□	FTKA02206S	TW07P
	0750100HP-06	0.750 3/4	1.00	1.34	1.61	2.20	4.49			
	0812100HP-07	0.812 13/16	1.00	1.34	1.77	2.20	4.72	SP□T090308-□□ XO□T090305-□□	FTKA02565	TW07S
	0875100HP-07	0.875 7/8	1.00	1.34	1.85	2.20	4.80			
	0937125HP-09	0.937 15/16	1.25	1.73	2.01	2.36	5.24	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	1000125HP-09	1.000 1	1.25	1.73	2.09	2.36	5.31			
	1031125HP-09	1.031 1 1/32	1.25	1.73	2.17	2.36	5.39			
	1062125HP-09	1.062 1 1/16	1.25	1.73	2.24	2.36	5.51			
	1125125HP-09	1.125 1 1/8	1.25	1.73	2.40	2.36	5.71			
	1187125HP-11	1.187 1 3/16	1.25	1.73	2.48	2.36	5.91	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	1250125HP-11	1.250 1 1/4	1.25	1.73	2.64	2.36	6.06			
	1312125HP-11	1.312 1 5/16	1.25	1.73	2.72	2.36	6.18			
	1375125HP-11	1.375 1 3/8	1.25	1.73	2.87	2.36	6.34	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	1437150HP-13	1.437 1 7/16	1.50	1.89	2.99	2.76	6.93			
	1500150HP-13	1.500 1 1/2	1.50	1.89	3.15	2.76	7.13			
	1562150HP-13	1.562 1 9/16	1.50	1.89	3.31	2.76	7.32			
	1625150HP-13	1.625 1 5/8	1.50	1.89	3.39	2.76	7.40			
	1687150HP-13	1.687 1 11/16	1.50	2.28	3.58	2.76	7.72	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	1750150HP-15	1.750 1 3/4	1.50	2.28	3.66	2.76	7.80			
	1812150HP-15	1.812 1 13/16	1.50	2.28	3.82	2.76	7.99			
	1875150HP-15	1.875 1 7/8	1.50	2.28	3.98	2.76	8.19			
	1937150HP-15	1.937 1 15/16	1.50	2.28	4.06	2.76	8.27	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	2000150HP-15	2.000 2	1.50	2.68	4.25	2.76	8.58			
	2062150HP-18	2.062 2 1/16	1.50	2.68	4.33	2.76	8.66			
	2125150HP-18	2.125 2 1/8	1.50	2.68	4.49	2.76	8.82			
2187150HP-18	2.187 2 3/16	1.50	2.68	4.65	2.76	9.06				
2250150HP-18	2.250 2 1/4	1.50	2.68	4.76	2.76	9.17				
2313150HP-18	2.313 2 5/16	1.50	2.68	5.00	2.76	9.41				
2375150HP-18	2.375 2 3/8	1.50	2.68	5.12	2.76	9.53				

KING DRILL

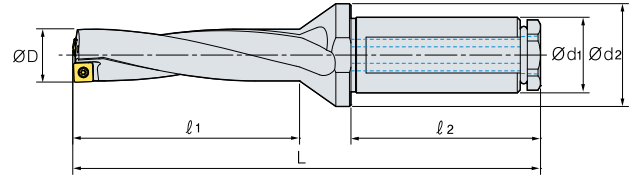
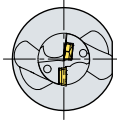
KING DRILL-3D



(inch)

Designation	ØD	Ød1	Ød2	l ₁	l ₂	L	Insert	Screw	Wrench		
K3DA	0484075HP-04	0.484	31/64	0.75	0.98	1.54	1.97	4.06	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	0500075HP-04	0.500	1/2	0.75	0.98	1.65	1.97	4.17			
	0531075HP-04	0.531	17/32	0.75	0.98	1.65	1.97	4.17			
	0562075HP-05	0.562	9/16	0.75	0.98	1.77	1.97	4.33	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	0625075HP-05	0.625	5/8	0.75	0.98	2.01	1.97	4.61			
	0687100HP-06	0.687	11/16	1.00	1.34	2.13	2.20	4.96	SP□T060205-□□ XO□T060204-□□	FTKA02206S	TW07P
	0750100HP-06	0.750	3/4	1.00	1.34	2.36	2.20	5.24			
	0812100HP-07	0.812	13/16	1.00	1.34	2.60	2.20	5.55	SP□T07T208-□□ XO□T07T205-□□	FTKA02565	TW07S
	0875100HP-07	0.875	7/8	1.00	1.34	2.72	2.20	5.67			
	0937125HP-09	0.937	15/16	1.25	1.73	2.95	2.36	6.18	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	1000125HP-09	1.000	1	1.25	1.73	3.07	2.36	6.30			
	1031125HP-09	1.031	1 1/32	1.25	1.73	3.19	2.36	6.42			
	1062125HP-09	1.062	1 1/16	1.25	1.73	3.31	2.36	6.57			
	1125125HP-09	1.125	1 1/8	1.25	1.73	3.54	2.36	6.85			
	1187125HP-11	1.187	1 3/16	1.25	1.73	3.66	2.36	7.09	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	1250125HP-11	1.250	1 1/4	1.25	1.73	3.90	2.36	7.32			
	1312125HP-11	1.312	1 5/16	1.25	1.73	4.02	2.36	7.48			
	1375125HP-11	1.375	1 3/8	1.25	1.73	4.25	2.36	7.72			
	1437150HP-13	1.437	1 7/16	1.50	1.89	4.41	2.76	8.35			
	1500150HP-13	1.500	1 1/2	1.50	1.89	4.65	2.76	8.62	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	1562150HP-13	1.562	1 9/16	1.50	1.89	4.88	2.76	8.90			
	1625150HP-13	1.625	1 5/8	1.50	1.89	5.00	2.76	9.02			
	1687150HP-13	1.687	1 11/16	1.50	2.28	5.28	2.76	9.41			
	1750150HP-15	1.750	1 3/4	1.50	2.28	5.39	2.76	9.53			
	1812150HP-15	1.812	1 13/16	1.50	2.28	5.63	2.76	9.80	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	1875150HP-15	1.875	1 7/8	1.50	2.28	5.87	2.76	10.08			
	1937150HP-15	1.937	1 15/16	1.50	2.28	5.98	2.76	10.20			
	2000150HP-15	2.000	2	1.50	2.68	6.26	2.76	10.59			
	2062150HP-18	2.062	2 1/16	1.50	2.68	6.38	2.76	10.71			
	2125150HP-18	2.125	2 1/8	1.50	2.68	6.61	2.76	10.94	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
2187150HP-18	2.187	2 3/16	1.50	2.68	6.85	2.76	11.26				
2250150HP-18	2.250	2 1/4	1.50	2.68	7.01	2.76	11.42				
2313150HP-18	2.313	2 5/16	1.50	2.68	7.32	2.76	11.73				
2375150HP-18	2.375	2 3/8	1.50	2.68	7.48	2.76	11.89				

KING DRILL-4D

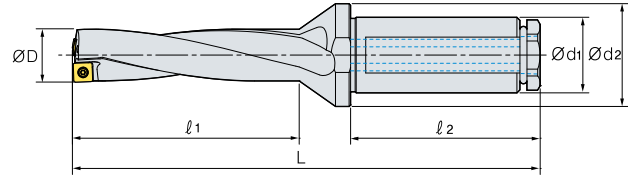
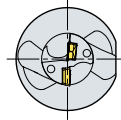


(inch)

Designation	ØD	Ød1	Ød2	l ₁	l ₂	L	Insert	Screw	Wrench		
K4DA	0484075HP-04	0.484	31/64	0.75	0.98	2.01	1.97	4.53	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	0500075HP-04	0.500	1/2	0.75	0.98	2.17	1.97	4.69			
	0531075HP-04	0.531	17/32	0.75	0.98	2.17	1.97	4.69			
	0562075HP-05	0.562	9/16	0.75	0.98	2.32	1.97	4.88	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	0625075HP-05	0.625	5/8	0.75	0.98	2.64	1.97	5.24			
	0687100HP-06	0.687	11/16	1.00	1.34	2.80	2.20	5.63	SP□T07T208-□□ XO□T07T205-□□	FTKA02206S	TW07P
	0750100HP-06	0.750	3/4	1.00	1.34	3.11	2.20	5.98			
	0812100HP-07	0.812	13/16	1.00	1.34	3.43	2.20	6.38	SP□T090308-□□ XO□T090305-□□	FTKA02565	TW07S
	0875100HP-07	0.875	7/8	1.00	1.34	3.58	2.20	6.54			
	0937125HP-09	0.937	15/16	1.25	1.73	3.90	2.36	7.13	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	1000125HP-09	1.000	1	1.25	1.73	4.06	2.36	7.28			
	1031125HP-09	1.031	1 1/32	1.25	1.73	4.21	2.36	7.44			
	1062125HP-09	1.062	1 1/16	1.25	1.73	4.37	2.36	7.64			
	1125125HP-09	1.125	1 1/8	1.25	1.73	4.69	2.36	7.99			
	1187125HP-11	1.187	1 3/16	1.25	1.73	4.84	2.36	8.27	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	1250125HP-11	1.250	1 1/4	1.25	1.73	5.16	2.36	8.58			
	1312125HP-11	1.312	1 5/16	1.25	1.73	5.31	2.36	8.78			
	1375125HP-11	1.375	1 3/8	1.25	1.73	5.63	2.36	9.09	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	1437150HP-13	1.437	1 7/16	1.50	1.89	5.83	2.76	9.76			
	1500150HP-13	1.500	1 1/2	1.50	1.89	6.14	2.76	10.12			
	1562150HP-13	1.562	1 9/16	1.50	1.89	6.46	2.76	10.47			
	1625150HP-13	1.625	1 5/8	1.50	1.89	6.61	2.76	10.63			
	1687150HP-13	1.687	1 11/16	1.50	2.28	6.97	2.76	11.10	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	1750150HP-15	1.750	1 3/4	1.50	2.28	7.13	2.76	11.26			
	1812150HP-15	1.812	1 13/16	1.50	2.28	7.44	2.76	11.61			
	1875150HP-15	1.875	1 7/8	1.50	2.28	7.76	2.76	11.97	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	1937150HP-15	1.937	1 15/16	1.50	2.28	7.91	2.76	12.13			
	2000150HP-15	2.000	2	1.50	2.68	8.27	2.76	12.60			
	2062150HP-18	2.062	2 1/16	1.50	2.68	8.43	2.76	12.76	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
	2125150HP-18	2.125	2 1/8	1.50	2.68	8.74	2.76	13.07			
2187150HP-18	2.187	2 3/16	1.50	2.68	9.06	2.76	13.46				
2250150HP-18	2.250	2 1/4	1.50	2.68	9.25	2.76	13.66				
2313150HP-18	2.313	2 5/16	1.50	2.68	9.65	2.76	14.06				
2375150HP-18	2.375	2 3/8	1.50	2.68	9.84	2.76	14.25				

KING DRILL

KING DRILL-5D

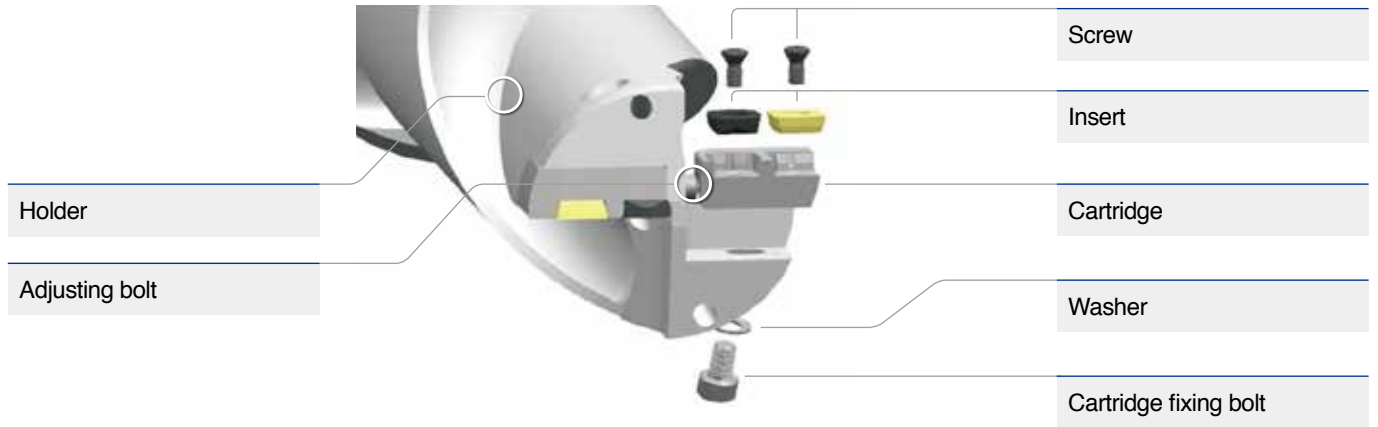


(inch)

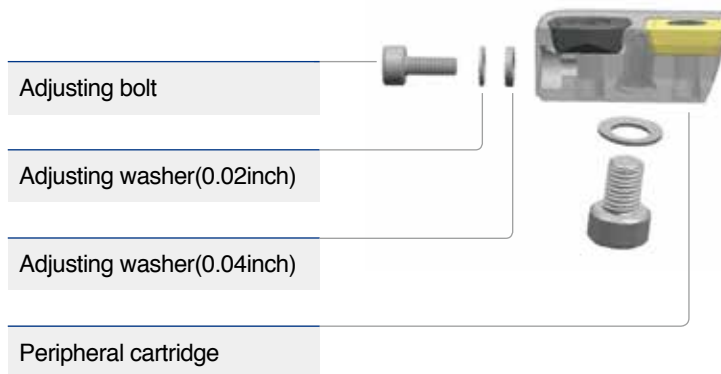
Designation	ØD		Ød1	Ød2	l ₁	l ₂	L	Insert	Screw	Wrench	
K5DA	0484075HP-04	0.484	31/64	0.75	0.98	2.48	1.97	5.00	SP□T040204-□□ XO□T040204-□□	FTNA0204	TW06P
	0500075HP-04	0.500	1/2	0.75	0.98	2.48	1.97	5.00			
	0531075HP-04	0.531	17/32	0.75	0.98	2.68	1.97	5.20			
	0562075HP-05	0.562	9/16	0.75	0.98	2.87	1.97	5.43	SP□T050204-□□ XO□T050204-□□	FTNA0204	TW06P
	0625075HP-05	0.625	5/8	0.75	0.98	3.27	1.97	5.87			
	0687100HP-06	0.687	11/16	1.00	1.34	3.46	2.20	6.30	SP□T07T208-□□ XO□T07T205-□□	FTKA02206S	TW07P
	0750100HP-06	0.750	3/4	1.00	1.34	3.86	2.20	6.73			
	0812100HP-07	0.812	13/16	1.00	1.34	4.25	2.20	7.20	SP□T090308-□□ XO□T090305-□□	FTKA02565	TW07S
	0875100HP-07	0.875	7/8	1.00	1.34	4.45	2.20	7.40			
	0937125HP-09	0.937	15/16	1.25	1.73	4.84	2.36	8.07	SP□T090308-□□ XO□T090305-□□	FTKA0307	TW09S
	1000125HP-09	1.000	1	1.25	1.73	5.04	2.36	8.27			
	1031125HP-09	1.031	1 1/32	1.25	1.73	5.24	2.36	8.46			
	1062125HP-09	1.062	1 1/16	1.25	1.73	5.43	2.36	8.70			
	1125125HP-09	1.125	1 1/8	1.25	1.73	5.83	2.36	9.13			
	1187125HP-11	1.187	1 3/16	1.25	1.73	6.02	2.36	9.45	SP□T11T308-□□ XO□T11T306-□□	FTKA03508	TW15S
	1250125HP-11	1.250	1 1/4	1.25	1.73	6.42	2.36	9.84			
	1312125HP-11	1.312	1 5/16	1.25	1.73	6.61	2.36	10.08			
	1375125HP-11	1.375	1 3/8	1.25	1.73	7.01	2.36	10.47			
	1437150HP-13	1.437	1 7/16	1.50	1.89	7.24	2.76	11.18			
	1500150HP-13	1.500	1 1/2	1.50	1.89	7.64	2.76	11.61	SP□T130410-□□ XO□T130406-□□	FTKA0410	TW15S
	1562150HP-13	1.562	1 9/16	1.50	1.89	8.03	2.76	12.05			
	1625150HP-13	1.625	1 5/8	1.50	1.89	8.23	2.76	12.24			
	1687150HP-13	1.687	1 11/16	1.50	2.28	8.66	2.76	12.80			
	1750150HP-15	1.750	1 3/4	1.50	2.28	8.86	2.76	12.99			
	1812150HP-15	1.812	1 13/16	1.50	2.28	9.25	2.76	13.43	SP□T15M510-□□ XO□T15M508-□□	FTNC04511	TW20S
	1875150HP-15	1.875	1 7/8	1.50	2.28	9.65	2.76	13.86			
	1937150HP-15	1.937	1 15/16	1.50	2.28	9.84	2.76	14.06			
	2000150HP-15	2.000	2	1.50	2.68	10.28	2.76	14.61			
	2062150HP-18	2.062	2 1/16	1.50	2.68	10.47	2.76	14.80			
	2125150HP-18	2.125	2 1/8	1.50	2.68	10.87	2.76	15.20	SP□T180510-□□ XO□T180508-□□	FTNA0511	TW20-100
2187150HP-18	2.187	2 3/16	1.50	2.68	11.26	2.76	15.67				
2250150HP-18	2.250	2 1/4	1.50	2.68	11.50	2.76	15.91				
2313150HP-18	2.313	2 5/16	1.50	2.68	11.97	2.76	16.38				
2375150HP-18	2.375	2 3/8	1.50	2.68	12.20	2.76	16.61				

KING DRILL - For Large Diameter Drilling

- Cartridge type for $\varnothing 2.40 \sim \varnothing 3.94$ drilling.
- Peripheral cartridge can adjust the drilling diameter within 0.197inch.
- Easy to adjust drilling diameter with adjusting bolt.



Adjustment of Drill Diameter



Adjustment \varnothing (inch)	Adjusting Washer	
	Designation	Width(inch)
0.04	WA0305	0.020
0.08	WA0310	0.040
0.12	WA0305 + WA0310	0.059
0.16	WA0310 x 2	0.079
0.20	WA0305 + WA0310 x 2	0.098

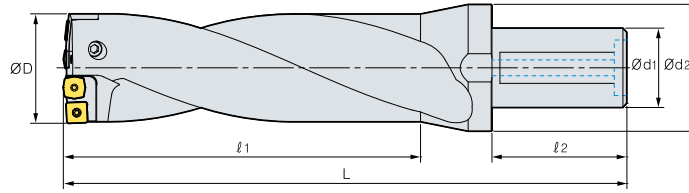
※ Adjusting washer adjusts the drilling diameter within 0.197inch.

► KING DRILL Parts (For large diameter drilling)

Cartridge		Range (\varnothing)	Insert				Screw	Wrench
Internal	External		Designation	Quantity	Designation	Quantity		
KDC240256C	KDC240256P	2.40 ~ 2.56	XO□T11T306-□□	2	SP□T11T308-□□	2	FTKA03508	TW15S
KDC256276C	KDC256276P	2.56 ~ 2.76	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC276295C	KDC276295P	2.76 ~ 2.95	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC295315C	KDC295315P	2.95 ~ 3.15	XO□T130406-□□	2	SP□T130410-□□	2	FTKA0410	TW15S
KDC315335C	KDC315335P	3.15 ~ 3.35	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC335354C	KDC335354P	3.35 ~ 3.54	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC354374C	KDC354374P	3.54 ~ 3.74	XO□T15M508-□□	2	SP□T15M510-□□	2	FTNC04511	TW20S
KDC374394C	KDC374394P	3.74 ~ 3.94	XO□T180508-□□	2	SP□T180510-□□	2	FTNA0511	TW20-100

KING DRILL

⇒ KING DRILL - For large diameter drilling



(inch)

Designation	ØD	Ød1	Ød2	l1	l2	L	Insert		Screw	Wrench	
K2DA	240256200HP-11	2.40 ~ 2.56	2.0	3.15	5.12	3.35	10.24	KDC240256C	KDC240256P	FTKA03508	TW15S
	256276200HP-13	2.56 ~ 2.76	2.0	3.46	5.51	3.35	10.63	KDC256276C	KDC256276P	FTKA0410	TW15S
	276295200HP-13	2.76 ~ 2.95	2.0	3.46	5.91	3.35	11.02	KDC276295C	KDC276295P	FTKA0410	TW15S
	295315200HP-13	2.95 ~ 3.15	2.0	3.46	6.30	3.35	11.42	KDC295315C	KDC295315P	FTKA0410	TW15S
	315335200HP-15	3.15 ~ 3.35	2.0	3.46	6.69	3.35	11.81	KDC315335C	KDC315335P	FTNC04511	TW20S
	335354200HP-15	3.35 ~ 3.54	2.0	3.74	7.09	3.35	12.20	KDC335354C	KDC335354P	FTNC04511	TW20S
	354374200HP-15	3.54 ~ 3.74	2.0	3.74	7.48	3.35	12.60	KDC354374C	KDC354374P	FTNC04511	TW20S
	374394200HP-18	3.74 ~ 3.94	2.0	3.74	7.87	3.35	12.99	KDC374394C	KDC374394P	FTNA0511	TW20-100
K3DA	240256200HP-11	2.40 ~ 2.56	2.0	3.15	7.68	3.35	12.80	KDC240256C	KDC240256P	FTKA03508	TW15S
	256276200HP-13	2.56 ~ 2.76	2.0	3.46	8.27	3.35	13.39	KDC256276C	KDC256276P	FTKA0410	TW15S
	276295200HP-13	2.76 ~ 2.95	2.0	3.46	8.86	3.35	13.98	KDC276295C	KDC276295P	FTKA0410	TW15S
	295315200HP-13	2.95 ~ 3.15	2.0	3.46	9.45	3.35	14.57	KDC295315C	KDC295315P	FTKA0410	TW15S
	315335200HP-15	3.15 ~ 3.35	2.0	3.46	10.04	3.35	15.16	KDC315335C	KDC315335P	FTNC04511	TW20S
	335354200HP-15	3.35 ~ 3.54	2.0	3.74	10.63	3.35	15.75	KDC335354C	KDC335354P	FTNC04511	TW20S
	354374200HP-15	3.54 ~ 3.74	2.0	3.74	11.22	3.35	16.34	KDC354374C	KDC354374P	FTNC04511	TW20S
	374394200HP-18	3.74 ~ 3.94	2.0	3.74	11.81	3.35	16.93	KDC374394C	KDC374394P	FTNA0511	TW20-100
K4DA	240256200HP-11	2.40 ~ 2.56	2.0	3.15	10.24	3.35	15.35	KDC240256C	KDC240256P	FTKA03508	TW15S
	256276200HP-13	2.56 ~ 2.76	2.0	3.46	11.02	3.35	16.14	KDC256276C	KDC256276P	FTKA0410	TW15S
	276295200HP-13	2.76 ~ 2.95	2.0	3.46	11.81	3.35	16.93	KDC276295C	KDC276295P	FTKA0410	TW15S
	295315200HP-13	2.95 ~ 3.15	2.0	3.46	12.60	3.35	17.72	KDC295315C	KDC295315P	FTKA0410	TW15S
	315335200HP-15	3.15 ~ 3.35	2.0	3.46	13.39	3.35	18.50	KDC315335C	KDC315335P	FTNC04511	TW20S
	335354200HP-15	3.35 ~ 3.54	2.0	3.74	14.17	3.35	19.29	KDC335354C	KDC335354P	FTNC04511	TW20S
	354374200HP-15	3.54 ~ 3.74	2.0	3.74	14.96	3.35	20.08	KDC354374C	KDC354374P	FTNC04511	TW20S
	374394200HP-18	3.74 ~ 3.94	2.0	3.74	15.75	3.35	20.87	KDC374394C	KDC374394P	FTNA0511	TW20-100



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