



#### New leader of deep hole drilling machine!

#### Eco-Friendly KR5000

- I Tier 4 Final Cummins engine installation.
- Turn-Table system for dust suppression.

#### Improved Structural Stability KR5000

- Structural stability by low position.
- Strong frame withstanding extreme working condition.
- Deep hole drilling carousel system(Automatic rods-exchanging).
- Tsubaki's super-chain & doubled-chain installed.
- Independent drive outrigger.
- Outrigger safety valve(Pilot check valve).



Down The Hole Drilling Specialist CS KR5000

## **Eco-Friendly**

#### **KR**5000

#### Low-Noise · Eco-friendly Tier-4 Final Engine

Approximately 250HP.

High-powered capacity is operated by qualified performance after strict process and high-tech Tier-4 engine.



#### Cummins Engine System.

- Exhaust gas regulation satisfied by aftertreatment.
- Durability enhancement by robust sash mount structure.
- Vibration reduction and aftertreatment protection by bellows pipe.
- I High Torque despite low RPM by engine optimization.
- Remarkerble fuel reduction effect.
- Automatic shut-down/Automatic idling function.
- DPF-Free gas treatment system.

#### Turn-Table system for dust suppression.

Due to preventing rising dust during drilling, No need additional set up for dust suppression.





Down The Hole Drilling Specialist

## **CS KR**5000

## Improved Structural Stability

#### **KR**5000



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## Tsubaki's super-chain & doubled-chain installed.

Super-chain is double-chain installed and which has about 30% more improved allowable tension and tensile strength than the previous one. Reliable drilling is operated by high durability and transmission of power ability.



## Deep hole drilling carousel system (Automatic rods-exchanging)

Deep hole drilling capacity is due to 5pcs of additional extention tubes to the max, and each of which is 7meter-height.

Hydraulic cylinder and lower gear make carousel installation so that rods are exchanged conveniently, quickly and securely.



## Independent drive outrigger

As per conducting situation, the outtrigger operates in every direction independently, so that horizontal operation could be conducted at any lays of area.



## Outrigger safety valve (Pilot check valve)

Reliable operation is performed even when abmormality on hydraulic system, in virtue of well-balanced equipment by pilot check valve installed to 4 outriggers independently. Down The Hole Drilling Specialist

## **CS KR**5000

## Field Requirements-Satiesfied

#### **KR5000**



#### DTH Hammers & Three-cone bitting are available for Rotary head

High-powered rotary head is mounted and which is 80% higher than before. Shift gears from 1st to 2nd, DTH hammers & three-cone bitting are all available.

#### **Parker Motor**

- A long output of power.
- Durability improvement of outside axle and radial shaft with high-load roller bearing.
- Inertia by structural analysis and high durability on twisting.



#### Verticality of drilling within 1/300

Fastened method with not hexagonal joints but solid screws retains sylindricity among rods so that duration of verticality.



### Running and redirection performance improved track.

Powerful motor makes running performance much advanced, and free change of direction lets the operation highly perform at various kinds of sites.



#### Multi-line level installed

Horizontal or vertical operation is performed even on the rough area due to multi-line level covering horizontal and vertical.

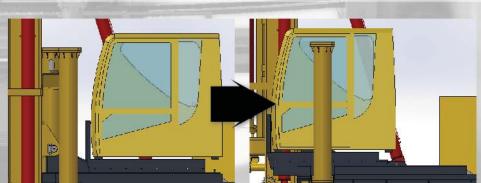


#### 303mm height drill rods

Drill rod installation availability is 303mm which has been improved about 30mm than before. Broken rock bits are drained easily so that qualified drilling is available.

## 65mm height air passage (Various compressor available)

Connecting various compressor is available by using 65 air-passage.





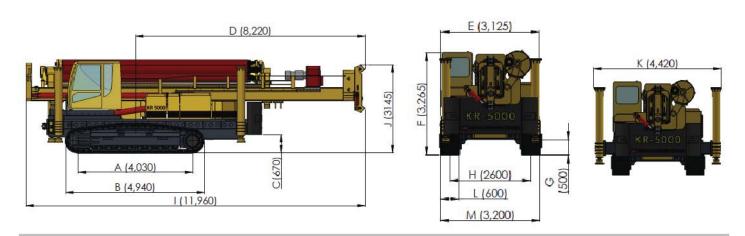
#### Position controllable pilot driver cab

For driver's convenience and expanded view, transports are inatalled at the front and the rear. Operation is well-performed conveniently in the driver cab, even at any position.

## Down The Hole Drilling Specialist

## **DIMENSIONS & WORKING RANGE**

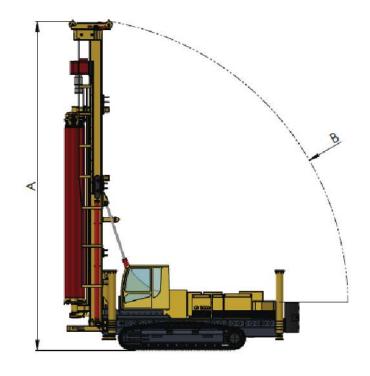
#### **KR5000 Appearance chart**



Item		Unit	Specifications	
Weight (Including rod)		Kg	48,500	
	Brand/Model	_	Cummins Engine QSB 6.7	
	Fuel type/Cylinder	_	Diesel/Six-cylinder	
Engine	Rated power	ps/rpm	252,8/2000	
	Maximum torque kgf·m/rpm	98.9/1500		
	Fuel tank capacity	l	500	
	Working pressure	bar	350(Max)	
Hydraulic	Pump model	cc	Main: 140x2/secondary: 26.4, 46	
	Flow rate	l	190, 320	
	Traveling speed	Km/hr	Max 3.3	
	Climbing capacity		20	
	Ground pressure	kg/cm²	0.93	
Crawler base	Winch capacity	ton	3	
&	Pull-back speed	m/min	34.28 @ 1500rpm	
Feed system	Pull-back capacity	ton	24.5 @ 200bar	
	Pull-down speed	m/min	20.88 @ 1500rpm	
	Pull-down capacity	ton	40.2 @ 200bar	
	Power head torque	kg·m∕rpm	4,200 @ 200bar (1st, 2nd shift)	

## **KR5000**

	Item	Unit	Specifications
	A Tumbler distance(center)	mm	4,030
	B Track length	mm	4,940
	C Counterweight Height	mm	670
	<b>D</b> Backend length	mm	8,220
	E Upper Width	mm	3,125
Dimension	F Cabin height	mm	3,265
	<b>G</b> Minimum ground clearance	mm	500
	H Track width(center)	mm	2,600
	I Whole length	mm	11,960
	J Whole height	mm	3,145
	K Outrigger extended	mm	4,420
	L Shoe width	mm	600
Traveling machine	M Overall width	mm	3,200
	Roller quantity(Up/Down)	ea	2/9



#### KR5000 Work Range

	Item	Unit	Data
Dimension	A Maximum mast length	mm	12,680
	<b>B</b> Maximum mast angle	0	90
Drilling capacity	Standard drilling depth (Based on standard rod)	m	42

\*It will be changeable up to rock formation & working condition.

\*Standard Rod: 303x7,135



