

ROTARY & DOWN THE HOLE DRILL

DCR45

Drill hole range : $\phi 203\text{mm}$ - $\phi 251\text{mm}$



Great Mobility
User-friendliness
Durability
Drilling capacity Fully
Powered!



Rotary & Down The Hole drill

DCR45

- Great drilling performance, comfortable cabin with easy operation
- Reliable drilling performance & almighty works



Comfortable wide cabin

Air conditioning keeps the cab climate controlled and clean. All-directional wide view can be secured with large safety glass windows. Wide cabin and revolving seat ensure comfortable working environment. Backward surveillance color camera is available to assure safety to the rear, which allow the operator to work safely.

Drilling condition – Real-time display

Drilling angle, drilling length and rod rotation speed are displayed on the monitor panel in real time.

Easy lever control

Optimum working positions are assured with tilt-type control panel and revolving & reclining seat.

Safe drilling works

Newly developed anti-jamming system reduces jamming. Rotation torque, feed force, and speed are greatly enhanced.



Tilt-type control panel



Monitor panel

High-output compressor

High-output compressor provides faster drilling and decreases bit wear. It also prevents re-drilling of cuttings, and jamming.

High-performance dust collector with large air capacity

With high-performance dust collector, and with large air capacity (100m³/min) and pre-cleaner, cuttings are efficiently collected.

Slide type suction cap

Slide type suction cap is effective for confirmation of collaring and the drilling conditions.

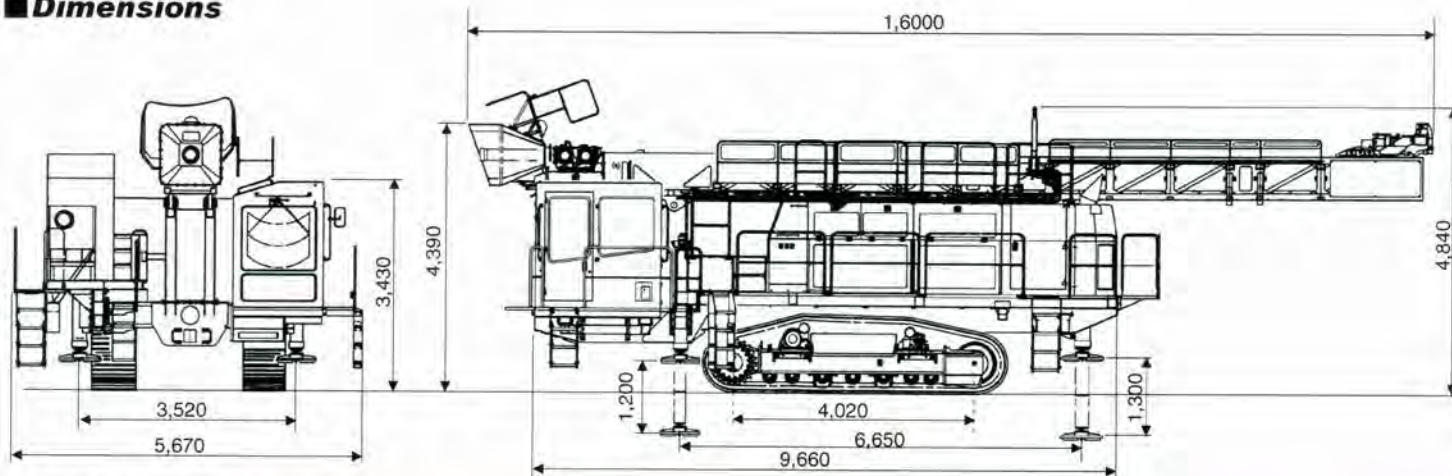
Mobility

Low and high speed traveling control is available.

Easy maintenance

Automatic greasing system enables the operator to grease up from cabin.

■ Dimensions



■ Specifications

Model DCR45	
Overall dimension	
Mass	48,000kg
Overall length (at drilling)	10,900mm
Overall length (at transportation)	16,000mm
Overall width	5,670mm
Overall height	4,840mm
Track unit	
Track length	5,020mm
Ground contact length	4,020mm
Width of grousers	700mm
Ground clearance	640mm
Traveling speed	2.0 km/h (low) 3.5km/h (high)
Grade ability	40.5 deg.
Number of outrigger	3 (Front x 2, Rear x 1)
Drill motor	
Maximum torque	12.5kN-m
Maximum rotation speed	60min ⁻¹
Engine	
Model	CATERPILLAR 3412E or C27
Type	Water-cooled, 12 cylinder, direct injection, diesel engine
Rated output	567kW / 1,900min ⁻¹
Fuel tank capacity	1,400 lit.
Hydraulic pumps	
For main line (traveling, feed, rotation)	Variable displacement, double pump
For cooling and pilot line	Double gear pump
For boom, outrigger, magazine, centralizer, dust collector and feed line	Double gear pump

Model DCR45	
Compressor	
Model	Hokuetsu PDSK1200
Type	Screw, double stage, oil-cooled compressor
Maximum delivery pressure	2.5 MPa
Maximum free air delivery	35.7m ³ /min
Mast	
Length	16,000mm
Feed length	11,500mm
Feed force, max.	225kN
Tractive pull, max.	127kN
Feed system	Hydraulic cylinder
Drill angle	70° ~ 90°
Drill tube magazine	
Length	10,100mm
Diameter	178mm.
Thread	4 1/2 inch (BECO)
Greasing	Automatic
Tube capacity	2
Dust collector	
Suction air volume	100m ³ /min
Number of filter elements	14
Dust removal system	Air-pulse jet
Suction cap	Slide type
Pre-cleaner	Standard equipment
Hammer (recommendation)	
Thread (A.P.I Reg.)	4 1/2
Air consumption	32.6m ³ /min (at 2.41MPa)
Bit range	203mm~251mm

Other principal equipment

Receiver tank (the second class pressure vessel), Air conditioner, Radio, Electric angle digital meter, Engine and compressor meter, Feed, rotation and blow pressure gauge, Drill motor position indication lamp, Outrigger enter indication lamp, Element and air cleaner blocking indication lamp / indicator, Warning horn, Large-size spirit level, Side view mirror, Revolving light (front:yellow, rear:red), Fire extinguisher, Backward surveillance camera, Heat wired tempered glass.

FRD Furukawa reserves right to change specifications without prior notice.

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Certified Management System



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