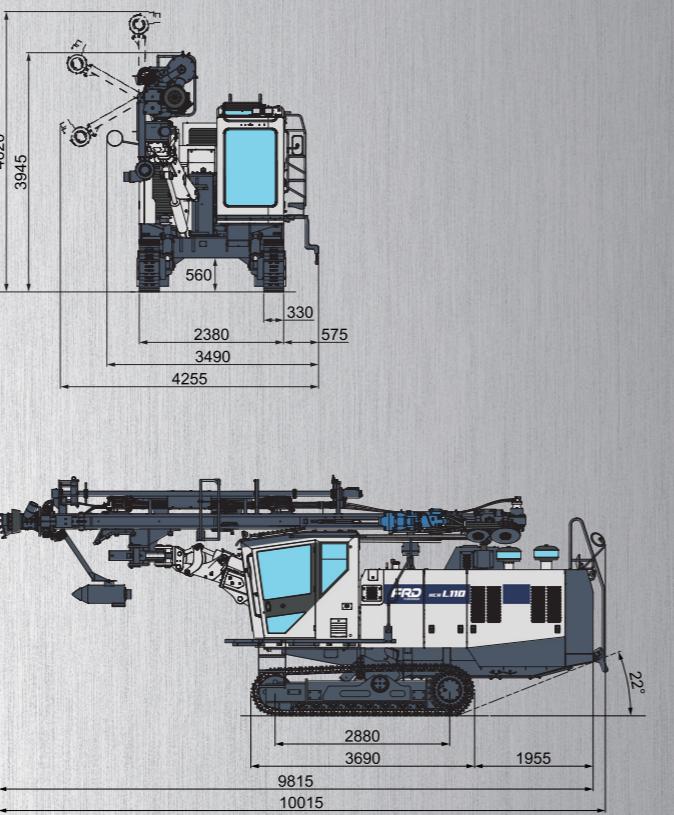


■ Specifications

HCR L110	HD828 type	HD836 type
Dimensions & Weight		
Operating Weight *	19,860 kg	19,930 kg
ROPS/FOPS Cab (1100mm Wide)		
Operating Weight *	19,960 kg	20,030 kg
ROPS/FOPS Cab (1300mm Wide)		
Overall Length (Shipping)	10,015 mm (11,160 mm)	
Overall Width (Shipping)	3,490 mm (2,465 mm)	
Overall Height (Shipping)	4,620 mm (3,520 mm)	
Drifter		
Model	HD828	HD836
Weight (with Reverse Percussion)	271 kg (312 kg)	350 kg (403 kg)
Impact Rate	2,700 - 3,300 min ⁻¹	2,600 - 3,100 min ⁻¹
Rotating Speed	0 ~ 190 min ⁻¹	0 ~ 120 min ⁻¹
Undercarriage		
Track Length	3,690 mm	
Track Length on Ground	2,880 mm	
Track Width	330 mm	
Ground Pressure	102.4 kPa (1100mm Wide) 102.9 kPa (1300mm Wide)	
Ground Clearance	560 mm	
Frame Oscillation Angle	±7.5°	
Tramming Speed	0 ~ 3.3 km/h	
Gradeability	57.4 % (30°)	
Maximum Traction Force	127.0 kN	
Engine		
Model	C9.3B (Tier4 Final, Stage V)	
Type	Diesel, Water-cooled, 6 Cylinders	
Make	CATERPILLAR	
Power Output	280 kW / 2,200 min ⁻¹	
Fuel Capacity	600 L	
DEF Capacity	44.7 L	
Hydraulic Equipment		
Variable Displacement PV Pump	PV Pump x 2	
Fixed Displacement Pump	Gear Pump x 3	
Hydraulic Oil Reservoir Capacity	240 L	
Boom		
Model	JE326	
Type	Extension Boom	
Boom Lift Angle	Up 41°, Down 20°	
Boom Swing Angle	Right 32°, Left 5° (1100mm Wide) Right 32°, Left 0° (1300mm Wide)	
Boom Slide Length	900 mm	600 mm
Guide Shell		
Model	GH832	
Length	8,700 mm	
For 14 Feet		
Feed Length (with Reverse Percussion)	5,225 mm (5,050 mm)	
For 12 Feet		
Feed Length (with Reverse Percussion)	4,595 mm (4,420 mm)	—
Feed Type	Hydraulic Motor Driven Chain	
Guide Slide Length	1,500 mm	
Guide Swing Angle	Right 25°, Left 90°	
Guide Tilt Angle	170°	
Maximum Rod Pull-Out Force	34 kN	
Compressor		
Model *	PDSF290-S16	
Type	1 Stage Screw Compressor	
Free Air Delivery	13.5 m ³ /min	
Discharge Pressure	1.03 MPa	
Dust Collector		
Model	A885	
Suction Capacity	40 m ³ /min	
Number of Filter Element	6	
Type of Dust Ejection	Automatic Air Pulse Jet	
Rod Changer		
Model	GR803	
Rod Diameter	T51	ST58, GT60
Number of Rod Storage	7	7
Rod Length	3,660 mm	4,270 mm
Rod Diameter	ST58, GT60	GT60 Tube (φ87)
Number of Rod Storage	7	6
Rod Length	4,270 mm	4,270 mm
Bit and Rod		
Bit Range	102 ~ 127 mm	102 ~ 140 (152) mm
Rod Diameter	T51, ST58, GT60	ST58, GT60, GT60 Tube (φ87)
Rod Length	T51 3,660 mm (12 Feet) ST58, GT60 4,270 mm (14 Feet)	4,270 mm (14 Feet)
Maximum Starter Rod Length	T51 4,270 mm (14 Feet) ST58, GT60 5,490 mm (18 Feet)	5,490 mm (18 Feet)
Electrics		
Battery	12V; 160 Ah / 5 h x 2	
Light	24V; 70 W x 4	
Voltage	DC24V	
Operating Environment		
Ambient Temperature Range	-15 °C ~ +45 °C	
Maximum Altitude	Max. 2,500 m	

Note: * "Operating Weight" includes weight of fuel and oils (full).

■ Dimensions (mm)



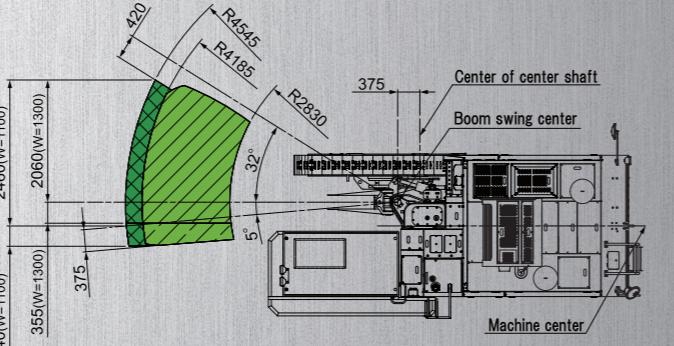
FRD
FURUKAWA

HCR L110

EU Stage V / EPA Tier 4 Final



■ Drilling Coverage (mm)



The drilling coverage shown above is for the L110 with HD836 drifter.

- The colors in the photos may be different from the actual colors due to photographing and printing factors.
- The machine and equipment in this catalog may differ from the products delivered due to ongoing improvements.
- FRD Furukawa Rock Drill reserves the right to change specifications without prior notice.
- The photos shown include optional equipment. There may be some differences to the sales specifications.

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HCR L110-E2309-F3

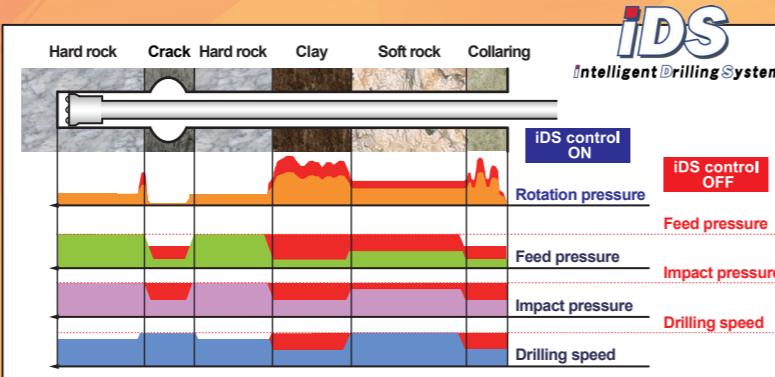
FRD
FURUKAWA ROCK DRILL

Eco-friendly cutting-edge machine

EU Stage V / U.S. EPA Tier 4 Final emission control

Intelligent Drilling System (IDS)

IDS is equipped as standard. It helps with drilling in various kinds of rock formations. In addition to conventional function which is auto-stop and auto-back at abnormal rotation pressure due to a bit jamming, IDS controls drilling automatically by balancing the 3-key elements, such as feed, rotation and percussion.



Comfort and convenience to keep operator productive



A wide cab has ROPS/FOPS as standard. The cab interior is designed using shades of gray from floor to ceiling to prevent glare. It comes with an automotive air conditioning system as standard, with air ducts on the left side and right to provide temperature-controlled air. The traditional FRD forward-cab roof design provides greater head space and large doorways allow the operator to get in and out even

All-In-One display

The 5-inch color LCD touch screen displays machine information, maintenance information and various settings.



- Engine info
- Machine condition
- Pressure gauge
- Angle indicator
- Camera (optional)

IMS (Intelligent Monitoring System)

When the engine is started, the machine conditions and operating troubles are indicated on the All-In-One display.

Total Fuel Saving (TFS) System

FRD enabled reduction of fuel usage per meter drilled with integration of the fuel saving functions.

Super Economy PLUS (SEP)
Automatic Throttle Control (ATC)

Automatic Idle Control (AIC)

Compressor Low-pressure Standby (CLS)

Fuel saving functions are automatically managed using just the Drilling Control Lever once the operator has selected the optimum engine speed for the job.



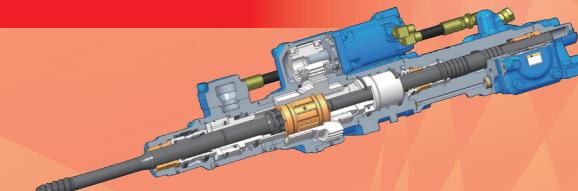
EU Stage V / U.S. EPA Tier 4 Final certified

We have adopted a EU Stage V / U.S. EPA Tier 4 Final certified engine with an extremely-high-pressure common rail fuel injection system as well as the Cooled EGR System, the DOC System and the Urea SCR System.

Evolutional High-Beat Drifter (HBD)

FRD originated and field proven Dual-Damper System (DDS) is tuned for the HD800 series.

For maximum energy transfer, DDS minimizes the return of shock waves by keeping the bit firmly against the rock at all the times during drilling. DDS minimizes percussion energy loss.



Optional reverse percussion system (pictured).

Reliable smart-operating rod changer

Simply moving the hand-operated control lever in one direction causes a combination of actions to add or remove a rod to take place in sequence. Rapid rod change ensures reduction of the cycle time. The carousel rod holder allows free selection of the rods, enabling equalization of rod wear and life. A manual override switch is provided for manual operation.



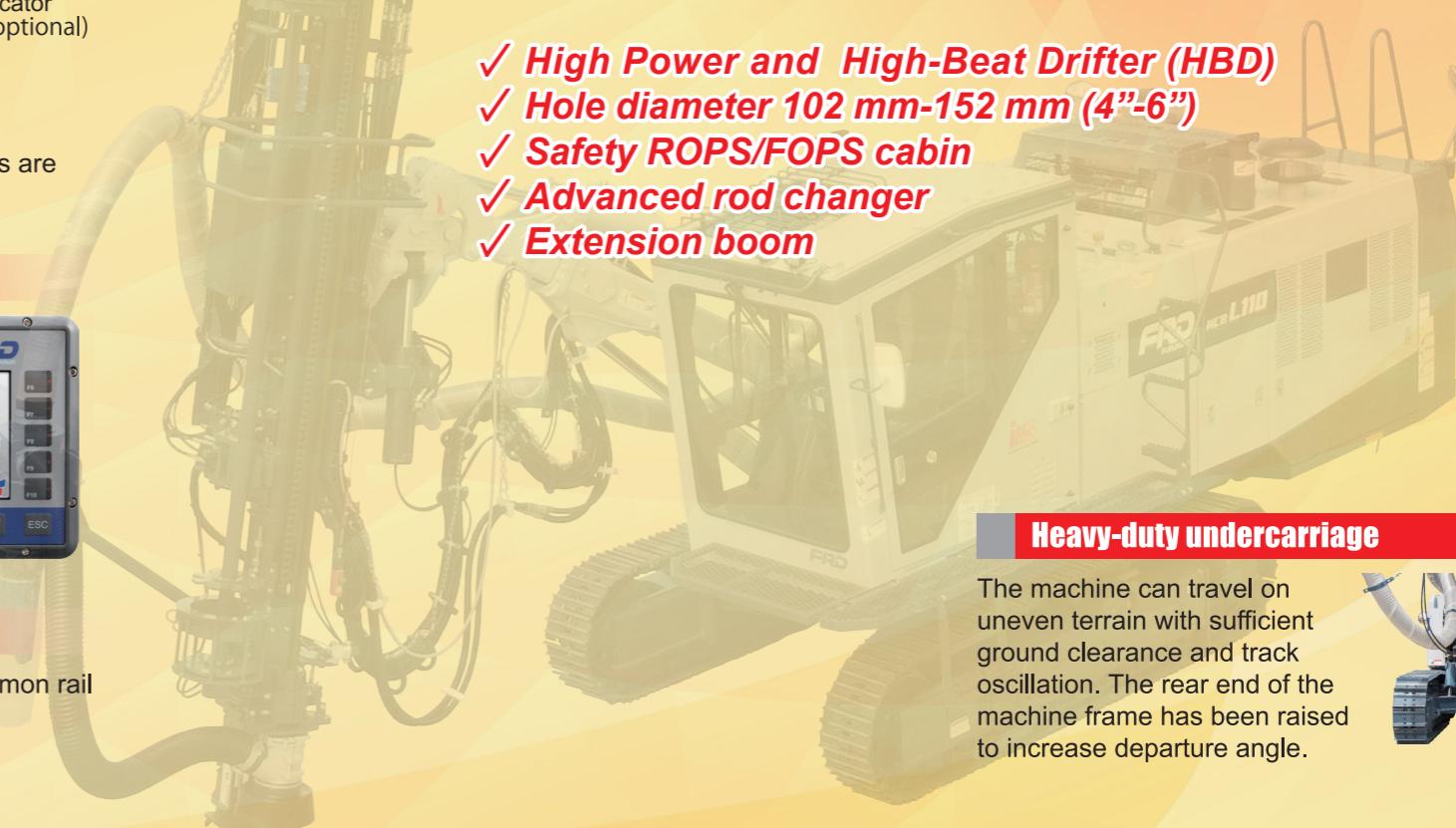
Large flushing volume and large dust collector capacity

Suction hood slides on the chrome-plated rods for longer life. The visibility of the hole opening is improved together with longer suction hood travel and offset foot pad.

10 m³ free air delivery air compressor and 40 m³ capacity dust collector. Optional pre-cleaner removes large drilling cuts and shorten cycle time while extending service intervals of dust collector filters.



- ✓ **High Power and High-Beat Drifter (HBD)**
- ✓ **Hole diameter 102 mm-152 mm (4"-6")**
- ✓ **Safety ROPS/FOPS cabin**
- ✓ **Advanced rod changer**
- ✓ **Extension boom**



Heavy-duty undercarriage

The machine can travel on uneven terrain with sufficient ground clearance and track oscillation. The rear end of the machine frame has been raised to increase departure angle.

