

Specifications

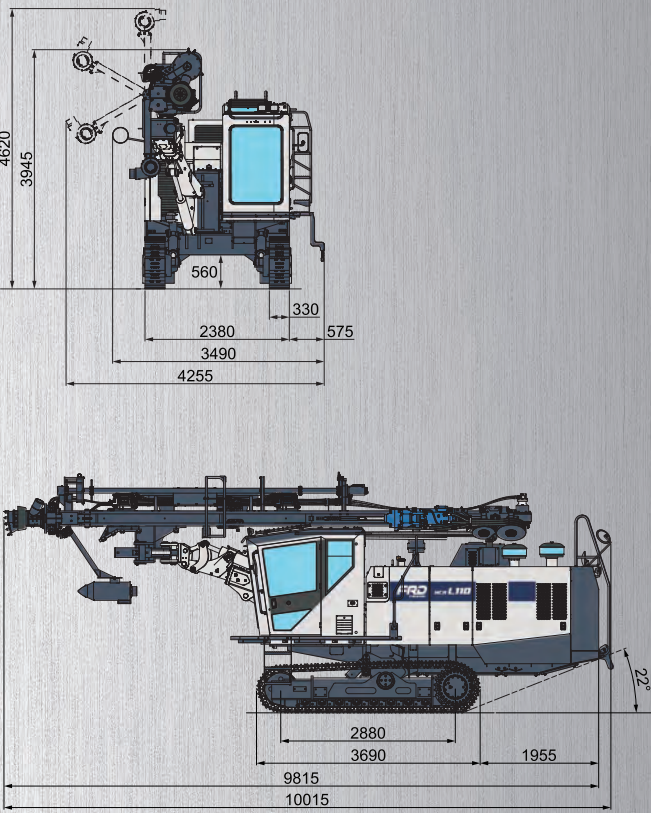
HCR L110		HD828 type	HD836 type
Dimensions & Weight			
Operating Weight (A) *1 (1100mm wide)	ROPS/FOPS Cab	19,860 kg	19,930 kg
Operating Weight (A) *1 (1300mm wide)	ROPS/FOPS Cab	19,960 kg	20,030 kg
Overall Length (Shipping)		10,015 mm (11,160 mm)	
Overall Width (Shipping)		3,490 mm (2,465 mm)	
Overall 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 *2		102.4 kPa (1100mm wide) 102.9 kPa (1300mm wide)	
Ground Clearance		560 mm	
Frame Oscillation Angle		± 7.5°	
Tramming Speed		0 ~ 3.5 km/h	
Gradeability		57.4 % (30°)	
Maximum Traction Force		127.0 kN	
Engine			
Model		C9.3 (Tier4 Final, Stage V)	
Type		Diesel, Water-cooled, 6cylinders	
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 m³/min	
Discharge Pressure		1.03 MPa	
Dust Collector			
Model		A885	
Suction Capacity		40 m³/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 (ø87)	
Number of Rod Storage	7	6	
Rod Length	4,270 mm	4,270 mm	
Bit and Rod			
Bit Range	102 ~ 127	102 ~ 140 (152)	
Rod Diameter	T51, ST58, GT60	ST58, GT60, GT60 Tube (ø87)	
Rod Length	T51	4,270 mm (14 feet)	
	3,660 mm (12 feet)		
	ST58, GT60 4,270 mm (14 feet)		
Maximum Starter Rod Length	T51	5,490 mm (18 feet)	
	4,270 mm (14 feet)		
	ST58, GT60 5,490 mm (18 feet)		
Electrics			
Battery		12V; 160 Ah / 5 h × 2	
Light		24V; 70 W × 4	
Voltage		DC24V	
Operating Environment			
Ambient Temperature Range		-15 °C ~ +45 °C	
Maximum Altitude		Max.2,500 m	

Note: *1 "Overall weight (A)" includes weight of fuel and oils (full)
*2 "Ground Contact Pressure" is calculated on "Overall Weight (A)".

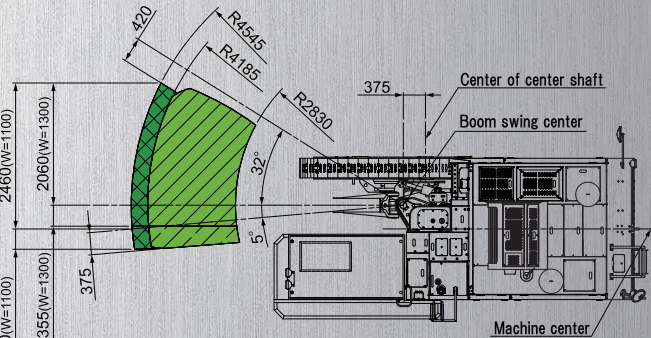


2-6-4, Otemachi, Chiyoda-ku, Tokyo 100-8370, Japan
Tel +81-3-6636-9521 Fax +81-3-6636-9555
<https://www.furukawa-rockdrill.com/>

Dimensions (mm)



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.



HCR L110

EU Stage V / EPA Tier 4 Final

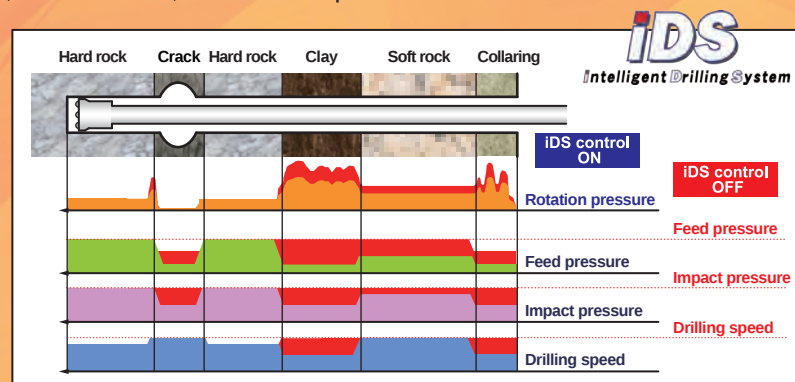


Eco-friendly cutting-edge machine

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.



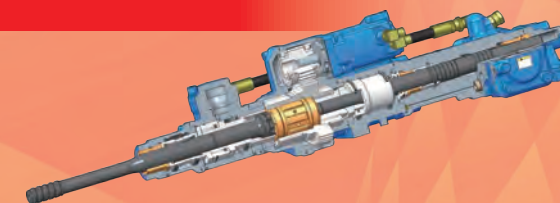
EU Stage V / U.S. EPA Tier 4 Final certified

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.



Rod changer control lever



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.

