



FURUKAWA ROCK DRILL USA  
*Rock Drill Division*

# *HCR 1450* **LED II**



This Drill is Equipped with Tier IV EPA Compliant Engine



# Innovative Features For Higher Performance

HCR 1450 **LED II**

## Drill faster and straighter with the HD828S drifter.

The Furukawa HD828S drifter combines powerful penetration with agility and easy operation. Equipped with features that maximize efficiency, the HD828S drifter sets the standard in high-performance drilling:

- Dual damper system maximizes energy transfer to produce straighter holes. The system automatically tunes the drifter for maximum performance regardless of the rock condition.
- Integrated drilling system is comprised of all-hydraulic controls and a reactive damper control system, which work together to accommodate changing rock conditions. The hydraulic controls automatically adjust impact and feed force, while the damper control system regulates pressure based on rock hardness.



## Maximize operator performance with the ultimate in ergonomic cab designs.

HCR1450-EDII cabs are ergonomically friendly with features that reduce operator fatigue. Cabs are 43" (1,100mm) with ROPS/FOPS standard. In addition, all cabs are air-conditioned and continuously pressurized with filtered air to maintain a comfortable operating environment. Other features include:

- Rubber-mounted engine frame isolates cab from engine vibrations.
- Single-lever drilling control for easy operation.
- Large windows maximize operator visibility.
- Walk-around ground level maintenance provides fast, easy upkeep or repair.
- All-In-One display allows operator to monitor machine functions while remaining focused on the drilling.



## Combining performance and economy.

Combining performance and economy, the HCR1450-EDII is the perfect drill for quarries or construction sites. Simple, durable and efficient, the HCR1450-EDII with extendable boom incorporates a self-adjusting drill system that ensures high productivity no matter what the drilling situation. By automatically controlling the impact force, feed force, rotation force and dual damper pressure, the HCR1450-EDII continuously adapts to the changing rock conditions, increasing drilling performance and the life of drill tools while decreasing fuel consumption.

## Manage fuel savings.

With FRD's TFSS (total fuel savings system), the operator selects the optimum engine speed for the application, allowing all fuel savings functions to be automatically managed during drilling operation.



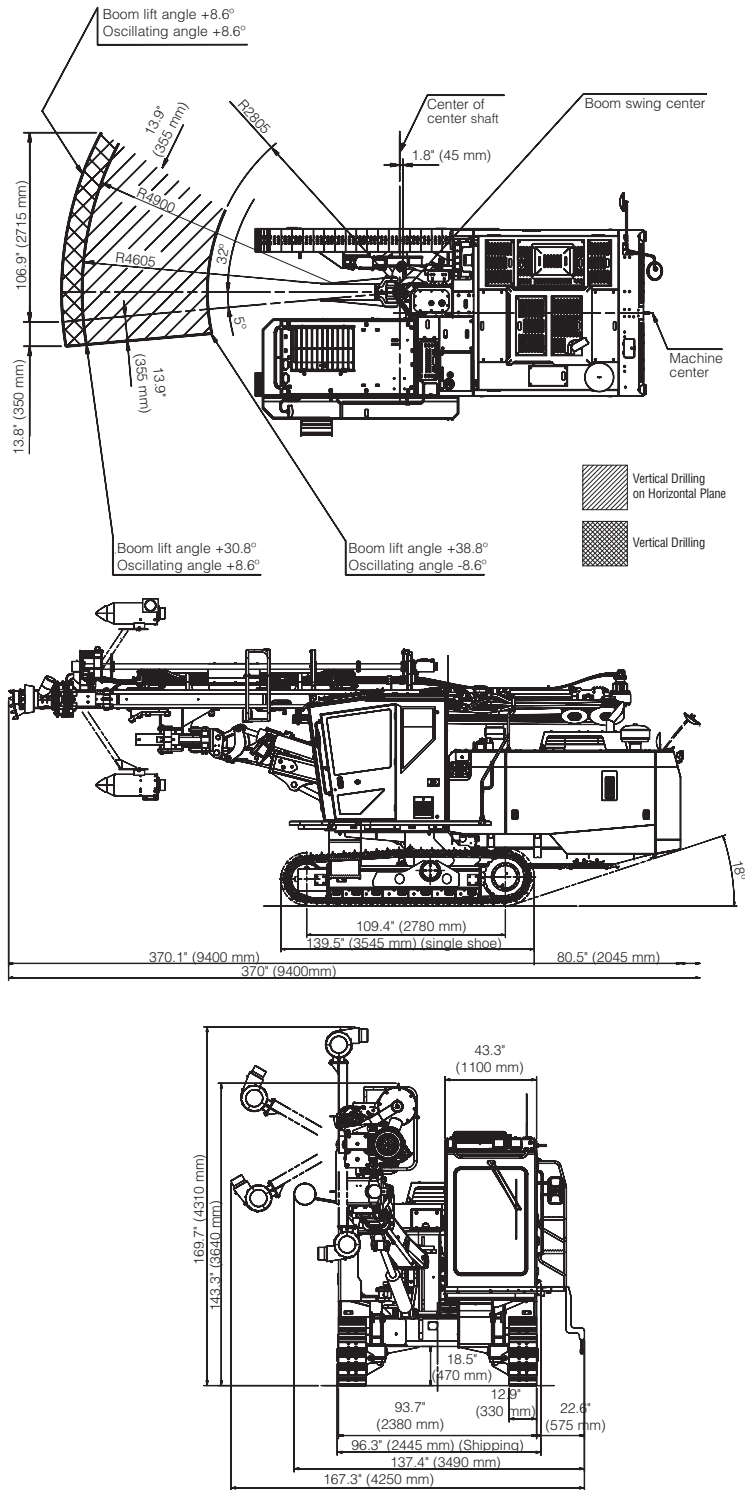
## Added features bring versatility.

- Low-emission Tier IV engines offer low fuel consumption and meets US exhaust emissions regulations.
  - Advanced rotary rod changer allows easy drill rod changes. Operators can add and remove rods using a single lever.
  - HCR1450-EDII features 12' rods with extendable boom for increased drill pattern.
  - Heavy-duty undercarriage – featuring a pentagonal section design to reduce dirt build-up and track wear – ensures strength and durability.
  - High-output compressor increases flushing air, provides faster drilling and decreases bit wear.
  - Reliable dust control system increases suction capacity and provides effective pre-cleaner to reduce escape of drilling dust. An optional dust suppression system is available for difficult drilling conditions.
- Options available:
    - 2D/3D angle indicator.
    - Water dust suppression.
    - Heavy-duty rear-mounted bumper.
    - Cold-start kit.
    - Rear camera.



Reliable dust control system.





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HCR1450 Series II		ED	
		US Standard	Metric
Performances	Overall Weight (A) *1	36,288 lb	16,460 kg
	Overall Weight (B) *2	37,633 lb	17,070 kg
	Travel Speed	0-2.3 mph	0-3.7 km/h
	Maximum Traction Force	22,144 lb-force	98.5 kN
	Maximum Grade of Hill Climb	57.7% (30 deg)	
	Oscillating Angle	+8.5 deg	
	Ground Contact Pressure	12.8 psi	87.9 kPa
Drifter	Model	HD828S	
	Mass	597 lb	271 kg
	Overall Length	3'10"	1,158 mm
	Overall Width	1'4"	387.4 mm
	Overall Height	1'1"	327.5 mm
	Number of Blows	2,500-3,000 bpm	2,500-3,000 min <sup>-1</sup>
	Number of Revolutions	0-190 rpm	0-190 min <sup>-1</sup>
Engine	Make & Model	Cummins QSB6.7 (Tier4 Final, Stage IV)	
	Type	Water-cooled Direct Fuel Injection Turbo Charged Diesel Engine	
Hydraulic Equipment	Rated Output	260 hp/2,500 rpm	194 kw/2,500 min <sup>-1</sup>
	Variable Displacement Pump	Axial Piston Pump X2	
	Fix Displacement Pump	Gear Pump X3	
	Drive Motor	Hydraulic Motor with Reduction Gear	
Boom	Model	JE326-134	
	Type	Extension Boom	
	Boom Lifting Angle:Up/Down	41/20 degree	
	Boom Swing Angle: Right/Left	32/5 degree	
Guide Shell	Model	GH832-33	
	Overall Length	28'6"	8,700 mm
	Feed Length	15'1"	4,595 mm
	Guide Slide Length	4'11"	1,500 mm
Compressor	Guide Swing Angle:Right/Left	25/90 degree	
	Guide Tilt Angle	170 degree	
	Maximum Pulling Force	7,644 lb-force	34 kN
	Feed system	Hydraulic Motor Drive	
Dust Collector	Make & Model	AIR MAN, PDS265-S37F	
	Type	Screw 1 Stage	
	Discharge Airflow	353 CFM	10.0 m <sup>3</sup> /min
	Discharge Pressure	149 psi	1.03 MPa
Rod Changer	Model	A885-44	
	Airflow	1,413 CFM	40 m <sup>3</sup> /min
	Number of Elements	6	
	Dust Removal System	Automatic Pulse Air Jet	
Electrical Equipment	Suction Cap	Slide Type	
	Number of Rods	7	
	Rod length	12'	3,660 mm
	Battery	12V; 108Ah/5Hr	
Oil Capacity	Voltage	DC24V	
	Fuel Tank	112 gal	425 L
DEF	Hydraulic Tank	57 gal	215 L
	DEF Capacity	5 gal	19 L
Bit and Rod	Bit Diameter	3" - 5"	76 - 127 mm
	Bit Profile	Button, Cross and Spike	
	Rod Size	45R, 51R	
	Rod length	12'	3,660 mm
Circumstance	First Rod Length	14'	4,265 mm
	Working Temperature	5° - 113° F	-15° - +45° C
	Maximum Altitude	Max. 8,202 ft	Max. 2,500 m

Note:

\*1 "Overall Weight (A)" includes weights of fuel and oils (full).

\*2 "Overall Weight (B)" includes weights of "Overall Weight (A)", operator and rod bit.

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Furukawa's policy is one of continual improvement. Specifications may change between printing.