



FURUKAWA ROCK DRILL USA
Rock Drill Division

HCR1100-ED



HCR1100-ED Equipped with Cummins® Tier-IV EPA Compliant Engine.

Innovative Features For Higher Performance

HCR1100-ED



Cab designed for increased visibility.

Combining performance and economy.

Combining performance and economy, the HCR1100-ED is the perfect drill for quarries or construction sites. Simple, durable and efficient, the HCR1100-ED 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 HCR1100-ED continuously adapts to the changing rock conditions, increasing drilling performance and the life of drill tools while decreasing fuel consumption.



Sliding suction cup minimizes dust for better visibility.

Drill straighter with the HD818 drifter.

The Furukawa HD818 drifter (patent applied for) is designed to minimize drill noise and vibration, while increasing percussion frequency by 24% versus the HD709 drifter, its predecessor.

Dual dampening system stabilizes the bit against the rock, ensuring efficient energy transfer and straighter holes. The system automatically adjusts the drifter for maximum performance regardless of the rock condition.



Maximize operator performance with the ultimate in ergonomic cab designs.

HCR1100-ED ROPS cabs are ergonomically friendly with features that reduce operator fatigue. In addition, all cabs are air-conditioned and continuously pressurized with filtered air to maintain a comfortable operating environment.

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.



The monitoring system incorporates gauges in the cabin, allowing the operator a quick visual of engine temperature, hydraulic oil temperature and fluid levels.

Added features bring versatility.

- Low emission, Tier-IV Cummins® engine meets strict North American exhaust emissions regulations.
- Rod changer with proven design allows for the install of five drill steels plus one 13' starter rod.
- Heavy-duty undercarriage – featuring a pentagonal section design to reduce dirt build-up and track wear – ensures strength and durability.

- High-output compressor provides faster drilling and decreases bit wear.
- Reliable dust control system provides effective pre-cleaner to reduce escape of drilling dust.
- Single-lever drilling control for easy operation.
- Walk-around ground level maintenance provides fast, easy upkeep or repair.



Right access cover

- Easy access to filters and battery.

Left access cover

- Easy access to fluid level, gauges and engine maintenance points.

- Options available:
 - 2D/3D angle indicator.
 - Dust suppression.
 - Heavy-duty rear-mounted bumper.
 - Cold-start kit.
 - Rear camera.
 - Water.

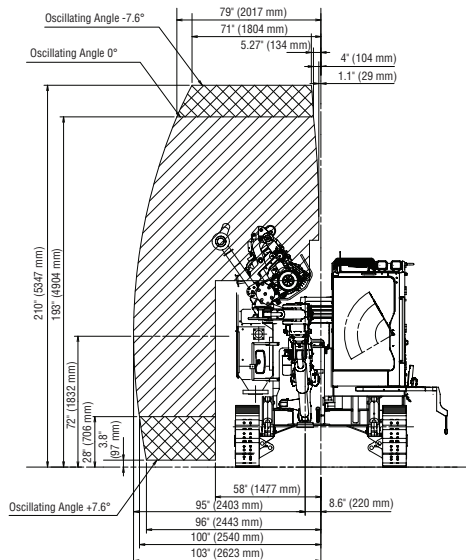
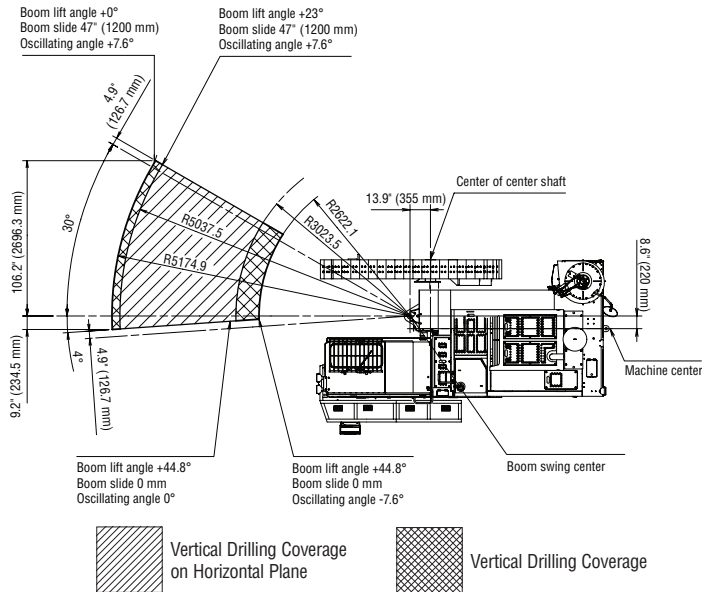
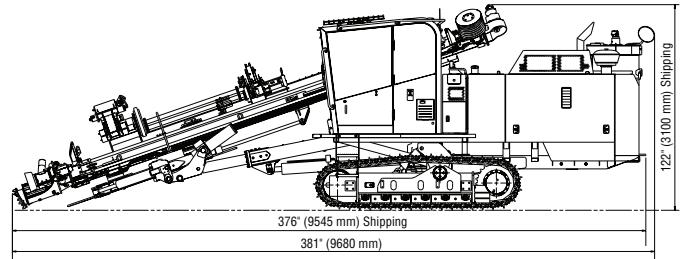
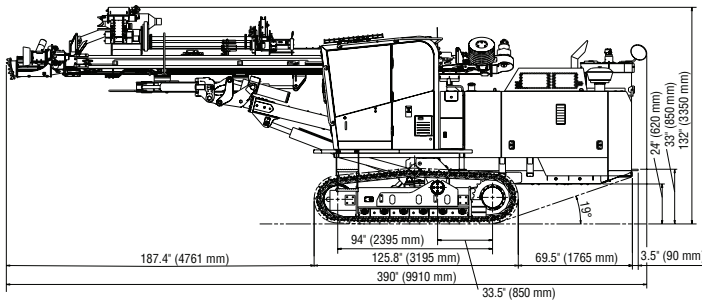
Rear panel

- Cooling systems located in the rear, providing quieter work environment for the operator.

Enhanced undercarriage design

- Increases traction up to 19,700 16-force.





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HCR1100		ED	
		US Standard	Metric
General	Overall Weight (A) *1	28,991 lbs.	13,150 kg.
	Overall Weight (B) *2	29,784 lbs.	13,510 kg.
	Overall Length	390"	9,910 mm
	Overall Width	129.7"	3,295 mm
	Overall Height	131.8"	3,350 mm
Drifter	Model	HD 818	
	Weight	445 lbs.	202 kg.
	Number of Blows	2,800 ~ 3,400 bpm	2,800 ~ 3,400 min ⁻¹
	Number of Rotations	0 ~ 200 rpm	0 ~ 200 min ⁻¹
Undercarriage	Track Length	124"	3,159 mm
	Track Length on Ground	94"	2,395 mm
	Track Width	12.9"	330 mm
	Ground Clearance	23"	585 mm
	Frame Oscillation Angle	± 7.6°	
	Tramming Speed	0 to 2.17 mph	0 ~ 3.5 km/h
	Gradeability	57.7% (30°)	
Engine	Make & Model	Cummins® QSB6.7	
	Type	Diesel Water-cooled, 6 Cylinders	
	Power Output	226 HP/2200 rpm	168 kW/2200 min ⁻¹
	Fuel Capacity	84 US Gal	HYDRAULIC E
Hydraulic Equipment	Variable Displacement PV Pump	PV Pump x 2	
	Fixed Displacement Pump	Gear Pump x 3	
	Hydraulic Oil Reservoir Capacity	45 US Gal	170 L
Boom	Model	JE326	
	Type	Extension Boom	
	Boom Lift Angle	Up 45°, Down 15°	
	Boom Swing Angle	Right 30°, Left 4°	
	Boom Slide Length	3' 11"	1,200 mm
Guide Shell	Model	GH831	
	Length	25' 7"	7,845 mm
	Feed Length	15' 4"	4,704 mm
	Guide Slide Length	3' 11"	1,200 mm
	Guide Swing Angle	Right 30°, Left 90°	
	Guide Tilt Angle	180°	
	Max. Rod Pull-out Force	5,507.8 lb-force	24.5 kN
Compressor	Feed Type	Hydraulically Operated Chain Driven	
	Model	Airman® PDS265-S37B	
	Type	1 Stage Screw Compressor	
	Free Air Delivery	215 cfm	6.1 m³/min
Dust Collector	Discharge Pressure	149 psi	1.03 Mpa
	Suction Capacity	706 cfm	20 m³/min
Bits and Rods	Number of Filter Element	4	
	Rod Length	10' or 12'	3,050 mm or 3,660 mm
	Bit Range	2.5" to 3.5"	64 ~ 89 mm
	Rod Diameter	32H, 38R, 45R, (38H)	
	Max. Starter Rod Length	13'	4,000 mm
Operating Environment	Number of Storage in Rod Changer	5	
	Ambient Temperature Range	5° to 113° F	-15° C ~ +45° C
	Maximum Altitude	9,842 ft.	Max. 3,000 m

The contents of this chart are subject to change without notice in the future.

Note:

*1 "Overall Weight (A)" includes weights of Fuel and Oils (full).

*2 "Overall Weight (B)" includes weights of Operator and Full Rod Rock with Starter Rod.

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