



FURUKAWA ROCK DRILL USA
Rock Drill Division

Choose Your
HCR1800 **LED II**
With HD828 or HD836 Drifter



HCR1800-EDII Equipped with Tier IV EPA Compliant Engine

Two Drifter Options for Increased Versatility

HCR1800^{EDII}

Choose the best drifter for your job.

The HCR1800 allows you to choose from two different drifters, depending on your specific application needs.

The HD828 drifter:

- Hole diameters from 3.5" to 5"
- Operates at up to 190 rpms
- Blow speed of 2,700 - 3,300 bpm.

The HD836 drifter:

- Hole diameters from 4" to 6"
- Operates at up to 150 rpms
- Blow speed of 2,600 - 3,100 bpm.

Use the HD828 drifter to drill holes from 3.5" to 5", or step up to the HD836 drifter for holes from 4" to 6" (using GT60 drill steel)

Whether you choose the HD828 drifter or step-up to the HD836, you will benefit from dependable performance and easy operation.



Maximize operator performance with the ultimate in ergonomic cab designs.

HCR1800 cabs are ergonomically friendly with features that reduce operator fatigue. Cabs are 51" (1,300mm) 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.
- Joy stick 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 HCR1800-ED is the perfect drill for quarries or construction sites. Simple, durable and efficient, the HCR1800 series 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 HCR1800 continuously adapts to the changing rock conditions, increasing drilling performance and the life of drill tools while decreasing fuel consumption.

Manage fuel savings.

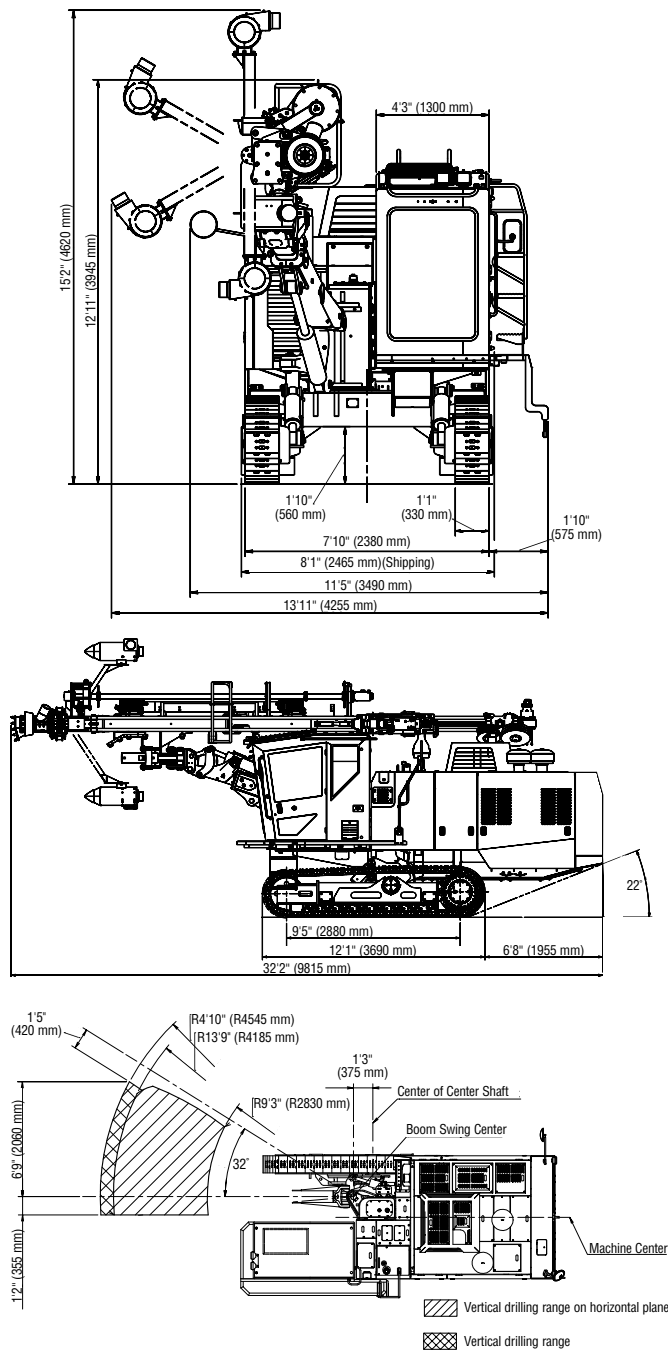
With FRD's TFSS (total fuel savings system), the operator selects the optimum engine speed for the application, allowing all fuel savings functions to be automatically managed during drilling operation.

Added features bring versatility.

- Low-emission Tier IV CAT® engine offers 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.
- HCR1800-EDII features 12' or 14' 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 with increased suction capacity provides effective pre-cleaning to reduce the escape of rock dust. An optional dust suppression system is available for difficult drilling conditions.
- Choose from an HD828 or HD836 drifter to meet your specific application needs.
- Options available, but not limited to:
 - 2D/3D angle indicator.
 - Water dust suppression.
 - Heavy-duty rear-mounted bumper.
 - Cold-start kit.
 - Rear camera.



Reliable dust control system.



The drilling coverage shown above is for the HCR1800-ED with HD836 drifter.

Note:

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

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

*3 "Ground Contact Pressure" is calculated based on "Overall Weight (A)".

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



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	HCR1800	ED-828		ED-836	
		US Standard	Metric	US Standard	Metric
Dimensions and Weight	Overall Weight (A) *1	43,938 lb	19,930 kg	43,938 lb	19,930 kg
	Overall Weight (B) *2	45,768 lb	20,760 kg	45,768 lb	20,760 kg
	Overall Length	32'10"	10,015 mm	32'10"	10,015 mm
	Shipping Length	36'7"	11,160 mm	36'7"	11,160 mm
	Overall Width	11'5"	3,490 mm	11'5"	3,490 mm
	Shipping Width	8'1"	2,465 mm	8'1"	2,465 mm
	Overall Height	15'2"	4,620 mm	15'2"	4,620 mm
	Shipping Height	11'1"	3,375 mm	11'1"	3,375 mm
Drifter	Model	HD828		HD836	
	Weight	597 lb	271 kg	772 lb	350 kg
	Length	3'9"	1,148 mm	3'10"	1,171 mm
	Width	1'3"	387 mm	1'4"	418 mm
	Height	1'1"	328 mm	1'3"	375 mm
	Number of Blows	2,700 ~ 3,300 bpm		2,600 ~ 3,100 bpm	
	Rotating Speed	0 - 190 rpm	0 - 190 min ⁻¹	0 - 120 rpm	0 - 120 min ⁻¹
	Track Length	12'1"	3,690 mm	12'1"	3,690 mm
Undercarriage	Track Length on Ground	9'5"	2,880 mm	9'5"	2,880 mm
	Track Width	1'1"	330 mm	1'1"	330 mm
	Ground Contact Pressure *3	14.9 psi	102.8 kPa	14.9 psi	102.8 kPa
	Ground Clearance	1'10"	560 mm	1'10"	560 mm
	Frame Oscillation Angle	±7.5°			
	Tramming Speed	0 - 2.3 mph	0 - 3.7 km/h	0 - 2.3 mph	0 - 3.7 km/h
	Gradeability	57.4% (30°)			
	Maximum Traction Force	28,551 lb-force	127 kN	28,551 lb-force	127 kN
Engine	Make & Model	CAT® C9.3 (Tier4 Final, Stage IV)			
	Type	Diesel, Water-Cooled, 6 Cylinders			
	Piston Displacement	567 cu in	9.3 L	567 cu in	9.3 L
	Power Output	350 hp / 2,200 rpm	261 kW / 2,200 min ⁻¹	350 hp / 2,200 rpm	261 kW / 2,200 min ⁻¹
	Fuel Capacity	158.5 gal	600 L	158.5 gal	600 L
	DEF Capacity	9.0 gal	34 L	9.0 gal	34 L
	Variable Displacement Pump	Axial Piston Pump x2			
Hydraulic Equipment	Fixed Displacement Pump	Gear Pump x3			
	Drive Motor	Hydraulic Motor with Reduction Gear			
	Hydraulic Oil Reservoir Capacity	63.4 gal	240 L	63.4 gal	240 L
	Model	JE326-134			
Boom	Type	Extension			
	Boom Lifting Angle (Up / Down)	41° / 20°			
	Boom Swing Angle (Right / Left)	32° / 0°			
	Boom Slide Length	2'11"	900 mm	1'11"	600 mm
	Guide Rotary Angle	-			
Guide Shell	Model	GH832-33			
	Overall Length	28'6"	8,700 mm	28'6"	8,700 mm
	Feed Length	For 12': 15'1" For 14': 17'2"	For 3,660 mm: 4,595 mm For 4,265 mm: 5,225 mm	17'2"	5,225 mm
	Feed Type	Hydraulic Motor Driven Chain			
	Guide Slide Length	4'11"	1,500 mm	4'11"	1,500 mm
	Guide Swing Angle (Right / Left)	25° / 90°			
	Guide Tilt Angle	170°			
Compressor	Maximum Pulling Force	7,644 lb-force	34 kN	7,644 lb-force	34 kN
	Make & Model	AIRMAN PDSF290-S16			
	Type	1-Stage Screw Compressor			
	Discharge Airflow	477 cfm	13.5 m³/min	477 cfm	13.5 m³/min
Dust Collector	Discharge Pressure	149 psi	1.03 MPa	149 psi	1.03 MPa
	Model	A885-44			
	Suction Capacity	1,413 cfm	40 m³/min	1,413 cfm	40 m³/min
	Number of Filter Elements	6			
Dust Removal System	Dust Removal System	Automatic Air Pulse Jet			
	Suction Cap	Slide Type			
	Model	GR803-31			
Rod Changer	Number of Rods	7 (For T51 and GT60) or 6 (For GT60-TUBE)			
	Rod Diameter	2"	51 mm	2.36", 2.52", 3.42"	60 mm, 64 mm, 87 mm
	Number of Control Levers	1			
Bit and Rod	Bit Range	3.5" - 5"	89 - 127 mm	4" - 5.5" (6")	102 - 140 mm (152 mm)
	Rod Type	T51		GT60 GT60 Tube (Dia. 87 mm / 3.42")	
	Rod Length	12' or 14'	3,660 mm or 4,265 mm	14'	4,265 mm
	Starter Rod Length	14'	4,265 mm	18'	5,490 mm
Electrics	Battery	12V; 160Ah/5hr x2			
	Light	24V; 70W x4			
	Voltage	DC 24V			
Operating Environment	Working Temperature	5° - 113° F	-15° - 45° C	5° - 113° F	-15° - 45° C
	Maximum Altitude	8,202'	2,500 m	8,202'	2,500 m