



FURUKAWA ROCK DRILL USA
Rock Drill Division

Choose Your
HCR1800LED II

With HD828 or HD836 Drifter



This Drill is Equipped with Tier IV EPA Compliant Engine

Two Drifters for Increased

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, or step up to the HD836 drifter for larger

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.

Versatility

HCR1800^{LED II}



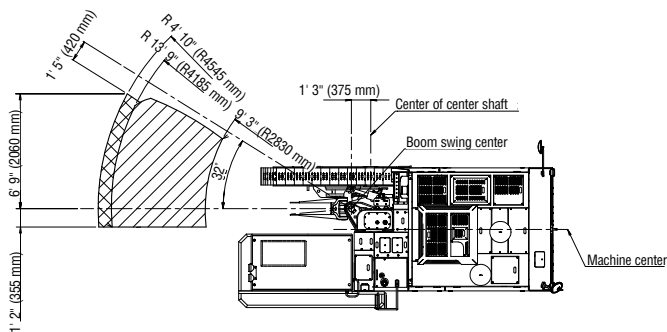
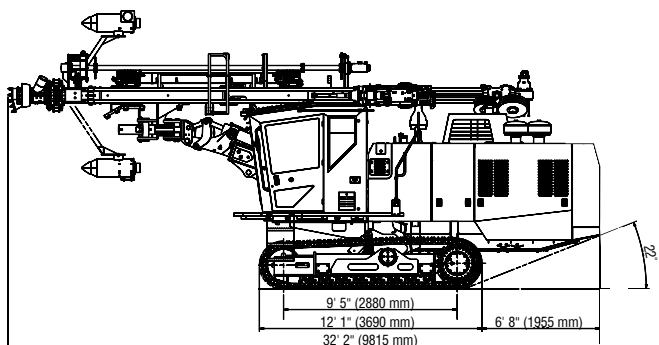
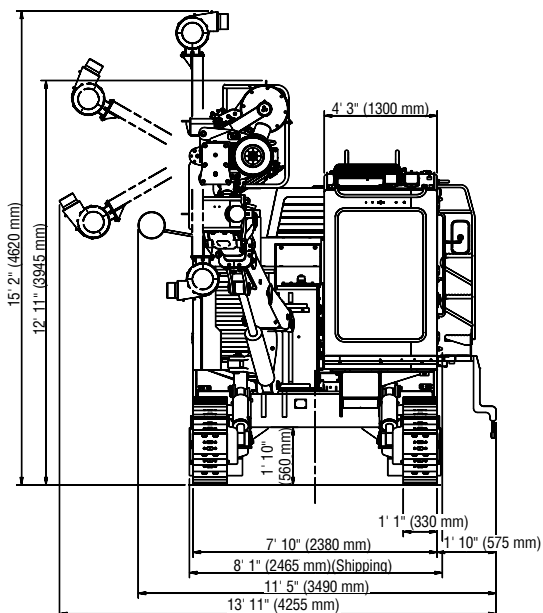
Added features bring versatility.

- Low-emission Tier IV CAT® engine 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.
 - 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 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.
 - 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.



FURUKAWA ROCK DRILL USA

Rock Drill Division

805 Lake Street
 Kent, Ohio 44240-0017
 Phone: 800.358.4476
 Fax: 330.673.8504

www.furukawarockdrill.com



HCR1800	ED-828		ED-836		
	US Standard	Metric	US Standard	Metric	
Performances	Overall Weight (A) *1	45,080 lb	20,450 kg	45,080 lb	20,450 kg
	Overall Weight (B) *2	46,960 lb	21,300 kg	46,960 lb	21,300 kg
	Shipping Length	36'4"	11,090 mm	36'4"	11,090 mm
	Shipping Width	8'1"	2,465 mm	8'1"	2,465 mm
	Shipping Height	11'3"	3,420 mm	11'3"	3,420 mm
	Travel Speed	0 - 2.1 mph	0 - 3.5 km/h	0 - 2.1 mph	0 - 3.5 km/h
	Maximum Traction Force	28,550 lb-f	127 kN	28,550 lb-f	127 kN
	Maximum Grade of Hill Climb	57.4% (30°)			
	Oscillating Angle	±7.5°			
	Ground Contact Pressure *3	15.3 psi	105.4 kPa	15.3 psi	105.4 kPa
Drifter	Model	HD828		HD836	
	Mass	728 lb	330 kg	904 lb	410 kg
	Overall Length	5'3"	1,590 mm	5'5"	1,650 mm
	Overall Width	1'3"	390 mm	1'4"	418 mm
	Overall Height	1'1"	327 mm	1'3"	371 mm
	Number of Blows	2,700 - 3,300 bpm		2,600 - 3,100 bpm	
Engine	Number of Rotations	0 - 190 rpm	0-190 min ⁻¹	0 - 150 rpm	0 - 150 min ⁻¹
	Make & Model	CAT® C9.3 (Tier4 Final, Stage IV)			
	Type	Diesel, Water Cooled, 6 Cylinders			
Hydraulic Equipment	Rated Output	350 hp/2,200 rpm		261 kw/2,200 min ⁻¹	
	Variable Displacement Pump	Axial Piston Pump x 2			
	Fix Displacement Pump	Gear Pump x 3			
Boom	Drive Motor	Hydraulic Motor with Reduction Gear			
	Model	JE326-14			
	Type	Extension Boom			
	Boom Lifting Angle:Up/Down	40°/20°			
	Boom Swing Angle: Right/Left	30°/0°			
	Boom Slide Length	2'11"	900 mm	1'11"	600 mm
Guide Shell	Guide Rotary	-			
	Model	GH832-4			
	Overall Length	28'6"	8,700 mm	28'6"	8,700 mm
	Feed Length	17'2"	5,225 mm	17'2"	5,225 mm
	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	7,640 lb-f	34 kN	7,640 lb-f	34 kN
	Feed System	Chain Driven by Hydraulic Motor			
	Make & Model	Airman PDSF290-S16			
	Type	Screw, 1 Stage			
Dust Collector	Discharge Airflow	477 cfm / 13.5 m³/min			
	Discharge Pressure	149 psi / 1.03 MPa			
	Model	A885-44			
	Airflow	1,413 cfm / 40m³/min			
Rod Changer	Number of Elements	6			
	Dust Removal System	Automatic Air Pulse Jet			
	Suction Cap	Slide Type			
Electrical Equipment	Model	GR803-1			
	Number of Rods	7 or 6 (GT60 - 87 mm/4.5" Tube)			
Fluid Capacity	Rod length	12' (14' for ST58 and GT60)			
	Battery	12V; 160Ah/5h x 2			
	Voltage	DC 24V			
Bit and Rod	Diesel Fuel	158 gal / 600 Litter			
	Hydraulic Oil	63 gal / 240 Litter			
	DEF	9 gal / 34 Litter			
	Bit Diameter	3.5" - 5"	89-127 mm	4" - 5.5" (6")	102-140 mm (152 mm)
Circumstance	Rod Size	T51, ST58		ST58, T60, GT60 GT60 Tube (Dia. 87 mm/3.5")	
	Rod length	12' (or 14' for ST58)		14'	
	First Rod Length	14'		18'	
Circumstance	Ambient Temperature Range	5° - 113° F / -15° - 45° C			
	Maximum Altitude	8,200' / 2,500 m			

Note:
 *1 "Overall weight (A)" includes weight 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 on "Overall Weight (A)".

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