



**FURUKAWA ROCK DRILL USA**  
*Rock Drill Division*

# HCR900

**Series II**



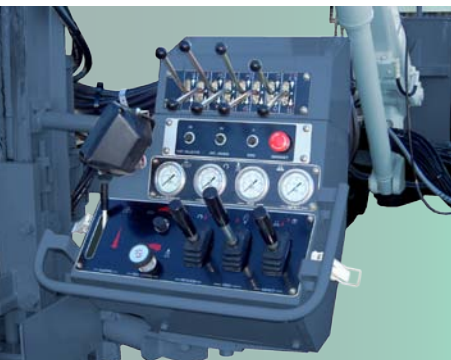
Series II Rock Drills Equipped with Tier III EPA Compliant Engines.



## Drill faster and straighter with the patented HD 709 drifter.

The Furukawa HD 709 Series drifter is designed to minimize drill noise and vibration without sacrificing performance. Incorporating a new piston design, the HD 709 drifter maximizes energy transmission and drills effectively in a variety of rock types.

- Dual dampening system consistently keeps the bit against the rock, ensuring efficient energy transfer and straighter holes. The system automatically tunes the drifter for maximum performance regardless of the rock condition.
- Integrated Drilling System incorporates all-hydraulic controls for automatic adjustment of impact and feed force to accommodate changing rock conditions. A reactive dampening control system regulates pressure based on rock hardness, providing superior drilling performance.
- Compact valve design, positioned close to the piston, provides rapid valve and piston response for enhanced efficiency.



## Maximize operator performance with the ultimate in drilling technology.

- Ergonomically designed to minimize operator fatigue.
- Stable chassis – combining a low center of gravity, high ground clearance and protected undercarriage – enhances stability and confidence when tramming and drilling on rough terrain.
- Single-lever drilling controls allow easy operation of the drifter.
- Sliding suction cap can be raised to allow a fast visual check of operation.
- Walk-around, ground-level maintenance provides fast, easy upkeep or repair. Hinged service doors provide easy access to required areas.
- Engine, compressor and hydraulic oil temperature gauges are highly visible, allowing the operator to monitor machine functions while remaining focused on the drilling.



## Combining performance and economy.

The HCR 900 is ideal for demanding site preparation applications. Simple, durable and efficient, the HCR 900 ES and the HCR 900 ES20 incorporate a self-adjusting drill system designed to maximize drilling efficiency through to the bottom of the hole. By automatically controlling the impact force, feed force, rotation force and dual dampener pressure, the HCR 900 continuously adapts to the changing rock conditions. As a result, drilling performance and the life of the drill tools are increased, while lowering fuel consumption.

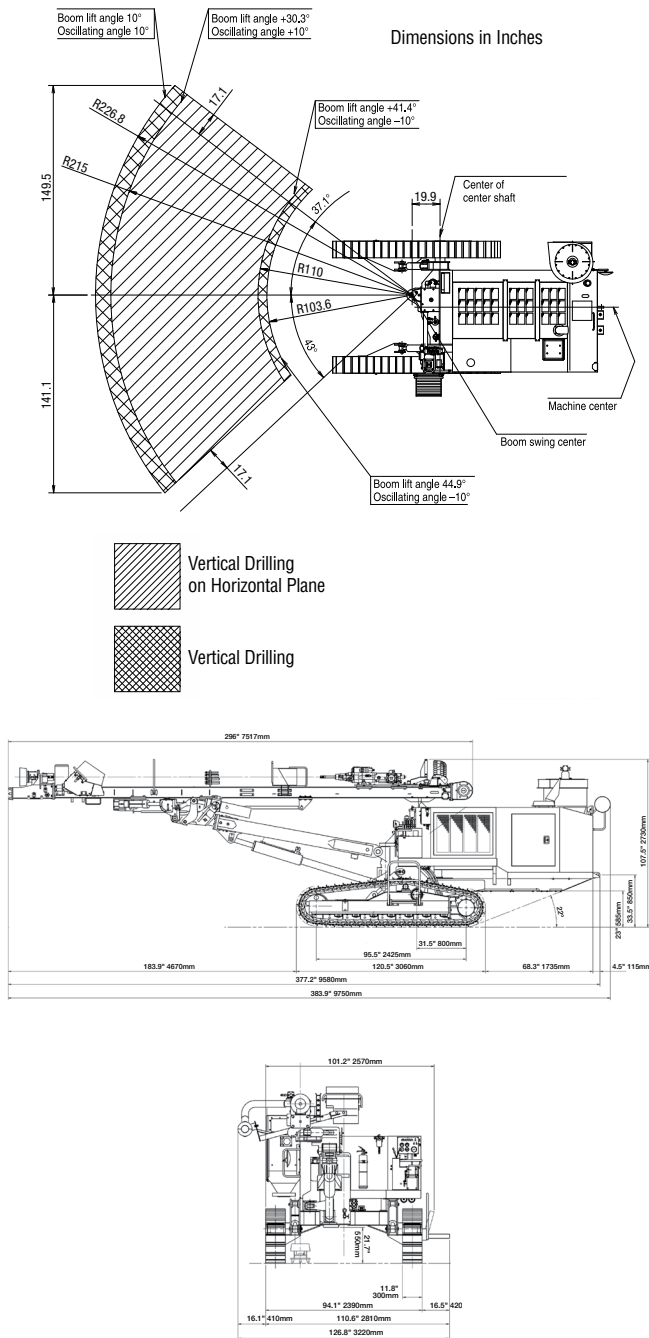


# HCR900

## Series II

- Extension boom increases drilling pattern flexibility.
- Design versatility allows for drilling either horizontally or vertically.
- High-output compressor increases flushing air, provides faster drilling and decreases bit wear.
- Upgraded dust collector has higher suction capacity than previous models. Dust collector includes an effective pre-cleaner to reduce escape of drilling dust. An optional dust suppression system is available for difficult drilling conditions.
- Low-emission, Tier III Caterpillar® engine offers low fuel consumption and meets major exhaust emissions regulations in Europe and the United States.
- Heavy-duty Furukawa undercarriage – featuring a pentagonal section design to reduce dirt build-up and track wear – ensures strength and durability.
- HCR 900 ES20 is ideal when drilling requirements exceed 12'. Depths up to 18" can be drilled without changing rods.
- Angle indicator for quick and easy drilling alignment.





## FURUKAWA ROCK DRILL USA

### Rock Drill Division

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HCR900 Series II		ES		ES 20	
		US Standard	Metric	US Standard	Metric
Performances	Overall Weight (A) *1	22,645 lb	10,270 kg	24,101 lb	10,930 kg
	Overall Weight (B) *2	23,285 lb	10,560 kg	24,740 lb	11,220 kg
	Travel Speed	0-2.2 mile/h	0-3.5 km/h	0-2.2 mile/h	0-3.5 km/h
	Maximum Traction Force	16,636 lb-force	74 kN	16,636 lb-force	74 kN
	Maximum Grade of Hill Climb	57.7%(30 deg)		57.7%(30 deg)	
	Oscillating Angle	+10 deg		+10 deg	
	Ground Contact Pressure *3	10.0 psi	69.2 kPa	10.7 psi	73.6 kPa
Drifter	Model	HD709		HD709	
	Mass	408 lb	185 kg	408 lb	185 kg
	Overall Length	3'7"	1,103 mm	3'7"	1,103 mm
	Overall Width	1'2"	352 mm	1'2"	352 mm
	Overall Height	0'10"	263 mm	0'10"	263 mm
	Number of Blows	2,250-2,500 bpm	2,250-2,500 min <sup>-1</sup>	2,250-2,500 bpm	2,250-2,500 min <sup>-1</sup>
	Number of Revolutions	0-250 rpm	0-250 min <sup>-1</sup>	0-250 rpm	0-250 min <sup>-1</sup>
Engine	Make & Model	CATERPILLAR, C7		CATERPILLAR, C7	
	Type	Water-cooled Direct Fuel Injection Turbo Charged Diesel Engine		Water-cooled Direct Fuel Injection Turbo Charged Diesel Engine	
	Rated Output	225hp/2,200rpm	168 kW/2,200 min <sup>-1</sup>	225hp/2,200rpm	168 kW/2,200 min <sup>-1</sup>
Hydraulic Equipment	Variable Displacement Pump	Axial Piston Pump X2		Axial Piston Pump X2	
	Fix Displacement Pump	Gear Pump X3		Gear Pump X3	
	Drive Motor	Hydraulic Motor with Reduction Gear		Hydraulic Motor with Reduction Gear	
Boom	Model	JE326		JE326	
	Type	Extension Boom		Extension Boom	
	Boom Lifting Angle:Up/Down	45/15 degree		45/15 degree	
	Boom Swing Angle: Right/Left	37/43 degree		37/43 degree	
	Boom Slide Length	4'11"	1,500 mm	4'11"	1,500 mm
Guide Shell	Model	GH831		GH831	
	Overall Length	24'8"	7,518 mm	29'4"	8,944 mm
	Feed Length	14'8"	4,480 mm	18'11"	5,786 mm
	Feed Length(with RP)	14'1"	4,305 mm	18'4"	5,611 mm
	Guide Slide Length	3'11"	1,200 mm	3'11"	1,200 mm
	Guide Swing Angle:Right/Left	40/40 degree		40/40 degree	
	Guide Tilt Angle	180 degree		180 degree	
Compressor	Maximum Pulling Force	6,407 lb-force	28.5 kN	6,407 lb-force	28.5 kN
	Feed system	Hydraulic Motor Drive		Hydraulic Motor Drive	
	Make & Model	AIR MAN, PDS265-S35B		AIR MAN, PDS265-S35B	
	Type	Screw 1 Stage		Screw 1 Stage	
	Discharge Airflow	215 CFM	6.1 m <sup>3</sup> /min	215 CFM	6.1 m <sup>3</sup> /min
	Discharge Pressure	149 psi	1.03 MPa	149 psi	1.03 MPa
	Unload Type	Intake Confinement		Intake Confinement	
Dust Collector	Model	A884-221		A884-221	
	Airflow	706 CFM	20 m <sup>3</sup> /min	706 CFM	20 m <sup>3</sup> /min
	Number of Elements	4		4	
	Dust Removal System	Automatic Pulse Air Jet		Automatic Pulse Air Jet	
Rod Rack	Scution Cap	Slide Type		Slide Type	
	Number of Rods	4		4	
Electrical Equipment	Rod length	10 or 12 ft	3,050 or 3,660 mm	10 or 12 ft	3,050 or 3,660 mm
	Battery	12V; 108Ah/5Hr		12V; 108Ah/5Hr	
Oil Capacity	Voltage	24V; 70Wx4		24V; 70Wx4	
	Fuel Tank	87 gal	330 L	87 gal	330 L
Bit and Rod	Hydraulic Tank	45 gal	170 L	45 gal	170 L
	Bit Diameter	2.5" - 3.5"	65-90 mm	2.5" - 3.5"	65-90 mm
	Bit Profile	Button, Cross and Spike		Button, Cross and Spike	
	Rod Size	32H, 38R, 45R, (38H)		32H, 38R, 45R, (38H)	
	Rod length	10 or 12'	3,050 or 3,660 mm	10 or 12'	3,050 or 3,660 mm
Circumstance	First Rod Length	12 or 13'	3,660 or 4,000 mm	20'	6,100 mm
	Working Temperature	5° - 113° F	-15° - +45° C	5° - 113° F	-15° - +45° C

#### 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.

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

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