



FURUKAWA ROCK DRILL USA
Rock Drill Division

HCR900-ESV



HCR900-ESV Equipped with Cummins® Tier-IV EPA Compliant Engine.

Innovative Features for Hi

Combining Performance and Economy.

Combining performance and economy, the HCR900-ESV is the perfect drill for quarries or construction sites. Simple, durable and efficient, the HCR900-ESV 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 HCR900-ESV continuously adapts to the changing rock conditions, increasing drilling performance and the life of drill tools while decreasing fuel consumption.



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 drilling technology.

Ergonomically designed to minimize operator fatigue. The engine, compressor and hydraulic oil temperature gauges are highly visible, allowing the operator to monitor machine functions while remaining focused on the drilling.

High output compressor & dust collector.

The dust collector is equipped with an effective pre-cleaner that has the same suction capacity as previous models and reduces drilling dust leakage. An optional water/dust suppression system is available for difficult drilling conditions.



Reliable dust control system.



Higher Performance

HCR900-ESV

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 four drill steels plus one starter rod.
 - Winch-ready frame adds application versatility.
- Also increases:
 - Impact rates up to 3,400 blows per minute.
 - Free air delivery up to 215 cfm (6.1 m³/min).
 - Traction up to 16,636 lb-force (74.0 kN).
 - Shoe width up to 12" (300 mm).
 - Dust collector capacity up to 706 cfm (20 m³/min.).
 - Suction hose size up to 4" (100 mm).



Right access cover

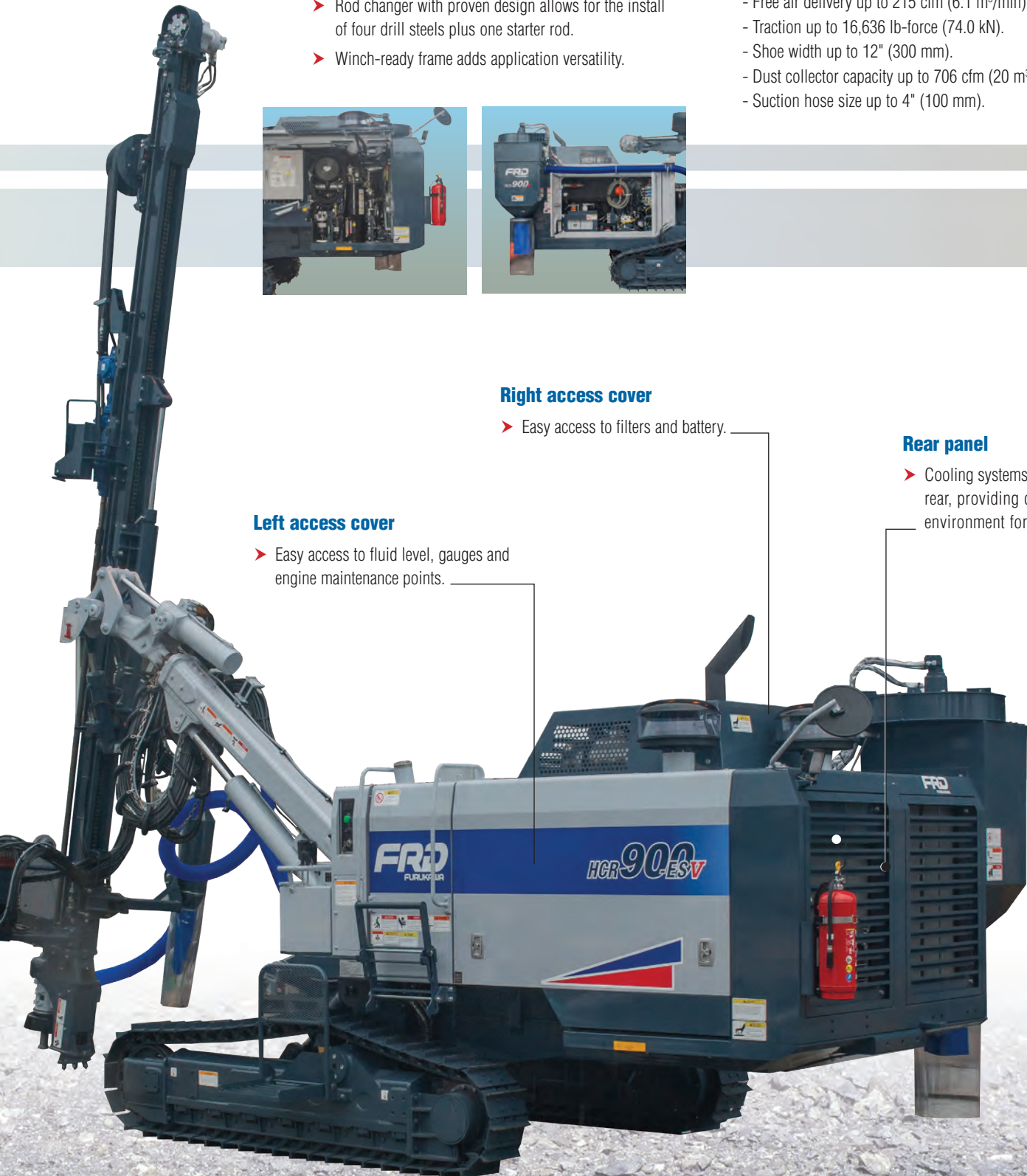
- Easy access to filters and battery.

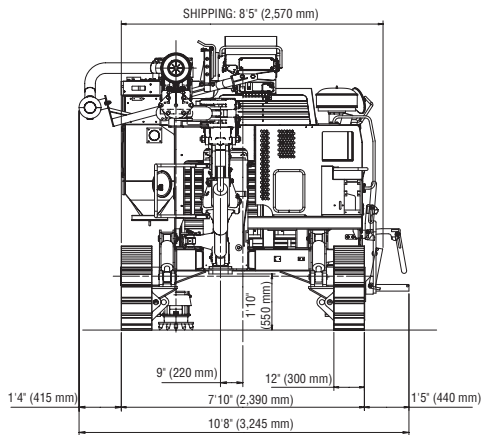
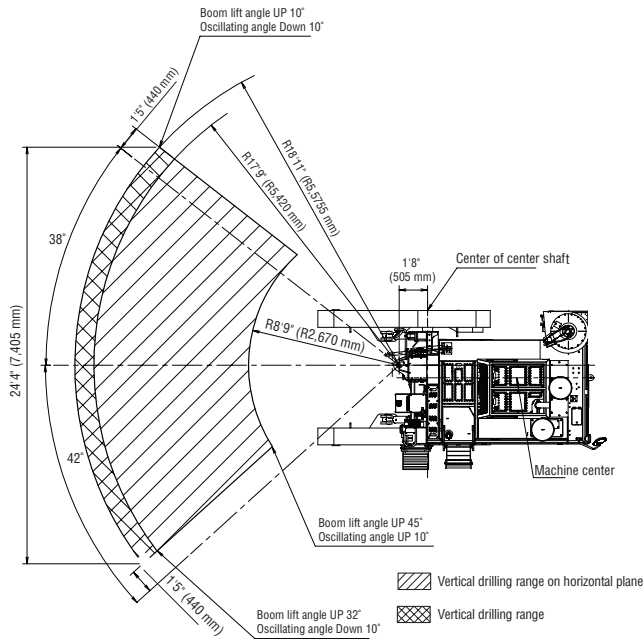
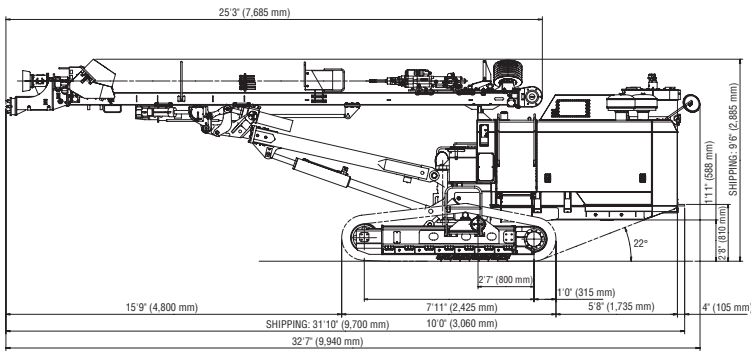
Left access cover

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

Rear panel

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





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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	HCR900	ESV	
		US Standard	Metric
Dimensions and Weight	Overall Weight (A) *1	24,317 lb	11,030 kg
	Overall Weight (B) *2	24,978 lb	11,330 kg
	Overall Length	32'7"	9,940 mm
	Shipping Length	31'10"	9,700 mm
	Overall Width	10'8"	3,245 mm
	Shipping Width	8'5"	2,570 mm
	Overall Height	9'6"	2,885 mm
	Shipping Height	9'6"	2,885 mm
Drifter	Model	HD818	
	Weight	445 lb	202 kg
	Length	3'7"	1,100 mm
	Width	1'2"	352 mm
	Height	0'11"	275 mm
	Number of Blows	2,800 ~ 3,400 bpm	
	Rotating Speed	0 - 200 rpm	0 - 200 min ⁻¹
	Undercarriage	Track Length	10'0"
Track Length on Ground		7'11"	2,425 mm
Track Width		0'12"	300 mm
Ground Contact Pressure *3		10.8 psi	74.3 kPa
Ground Clearance		1'10"	550 mm
Frame Oscillation Angle		±10°	
Tramming Speed		0 - 2.2 mph	0 - 3.5 km/h
Gradeability		57.7% (30°)	
Maximum Traction Force		16,636 lb-force	74 kN
Engine		Make & Model	Cummins® QS6.7 (Tier4 Final, Stage IV)
	Type	Diesel, Water-Cooled, 6 Cylinders	
	Piston Displacement	408.9 cu in	6.7 L
	Power Output	225.3 hp / 2,200 rpm	168 kW / 2,200 min ⁻¹
	Fuel Capacity	84.5 gal	320 L
	DEF Capacity	5.0 gal	19 L
Hydraulic Equipment	Variable Displacement Pump	PV Pump x2	
	Fixed Displacement Pump	Gear Pump x3	
	Drive Motor	Hydraulic Motor with Reduction Gear	
	Hydraulic Oil Reservoir Capacity	44.9 gal	170 L
Boom	Model	JF326	
	Type	Extension	
	Boom Lift Angle (Up / Down)	45° / 15°	
	Boom Swing Angle (Right / Left)	37° / 43°	
	Boom Slide Length	4'11"	1,500 mm
Guide Shell	Model	GH831	
	Overall Length	25'3"	7,685 mm
	Feed Length	14'8"	4,480 mm
	Feed Type	Hydraulic Motor Driven Chain	
	Guide Slide Length	3'11"	1,200 mm
	Guide Swing Angle (Right / Left)	40° / 40°	
	Guide Tilt Angle	180°	
Compressor	Maximum Pulling Force	6,407 lb-force	28.5 kN
	Make & Model	AIRMAN PDS265-S37B	
	Type	1-Stage Screw Compressor	
	Discharge Airflow	215 cfm	6.1 m ³ /min
Dust Collector	Discharge Pressure	149 psi	1.03 MPa
	Model	A884-221	
	Suction Capacity	706 cfm	20 m ³ /min
Dust Removal System	Number of Filter Elements	4	
	Dust Removal System	Automatic Air Pulse Jet	
	Suction Cap	Slide Type	
Rod Arrangement	Model	-	
	Type	Rack	
	Number of Rods	4 + 1 (Starter Rod)	
	Rod Diameter	1.3", 1.5", 1.8"	32 mm, 38 mm, 45 mm
	Number of Control Levers	-	
Bit and Rod	Bit Range	2.5" - 3.5"	64 mm - 89 mm
	Rod Diameter	32H, 38R, 45R, (38H)	
	Rod Length	10' or 12'	3,050 mm or 3,660 mm
	Starter Rod Length	14'	4,270 mm
Electrics	Battery	12V; 108Ah/5hr	
	Light	24V; 70W x4	
	Voltage	DC 24V	
Operating Environment	Working Temperature	5° - 113° F	-15° - 45° C
	Maximum Altitude	9,843'	3,000 m