HCR900-ESV Equipped with Cummins® Tier-IV EPA Compliant Engine.
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.
Innovative Features for Higher Performance

**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.

**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).
**Dimensions and Weight**

- **Overall Weight (A)**: 24,317 lb (11,030 kg)
- **Overall Weight (B)**: 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 - 3,600 rpm)

**Undercarriage**

- **Track Length**: 10'0" (3,060 mm)
- **Track Length on Ground**: 7'11" (2,425 mm)
- **Track Width**: 0'12" (300 mm)
- **Ground Contact Pressure**: 16.839 lb/in² (116 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® QSB6.7 (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**: GH31
- **Overall Length**: 25'3" (7,685 mm)
- **Feed Length**: 14'8" (4,480 mm)
- **Guide Type**: Hydraulic Motor Driven Chain
- **Guide Slide Length**: 3'11" (1,200 mm)
- **Guide Swing Angle (Right/Left)**: 40° / 40°
- **Guide Tilt Angle**: 180°
- **Maximum Pulling Force**: 6,407 lb-force (28.5 kN)
- **Make & Model**: ARMAN PDS265-S37B
- **Type**: 1-Stage Screw Compressor
- **Discharge Airflow**: 215 cfm (6.1 m³/min)
- **Discharge Pressure**: 149 psi (1.03 MPa)
<table>
<thead>
<tr>
<th>Model</th>
<th>A884-221</th>
</tr>
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<tbody>
<tr>
<td>Motion Capacity</td>
<td>706 cfm</td>
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<tr>
<td>Number of Filter Elements</td>
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<tr>
<td>Dust Removal System</td>
<td>Automatic Air Pulse Jet</td>
</tr>
</tbody>
</table>

**Electrics**

- **Battery**: 12V; 108Ah/5hr
- **Light**: 24V, 70W x4
- **Voltage**: DC 24V
- **Working Temperature**: 5° - 113° F (-15° - 45° C)
- **Maximum Altitude**: 9,493 (3,000 m)

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**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.