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 damping 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 ergonomic cab designs.
HCR1100-ED ROPS/FOPS cabs are ergonomically friendly with features that reduce operator fatigue. In addition, all cabs are air-conditioned and continuously pressurized with filtered air to maintain a comfortable operating environment.

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.

The monitoring system incorporates gauges in the cabin, allowing the operator a quick visual of engine temperature, hydraulic oil temperature and fluid levels.

Enhanced undercarriage design
- Increases traction up to 19,700 lb-force.

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 a quieter work environment for the operator.
- Options available:
  - 2D/3D angle indicator
  - Dust suppression
  - Heavy-duty rear-mounted bumper
  - Cold-start kit
  - Rear camera
  - Water

Innovative Features For Higher Performance

Added features bring versatility.
- High-output compressor provides faster drilling and decreases bit wear.
- Reliable dust control system provides effective pre-cleaner to reduce escape of drilling dust.
- Single-lever drilling control for easy operation.
- Walk-around ground level maintenance provides fast, easy upkeep or repair.

Combining performance and economy.
Combining performance and economy, the HCR1100-ED is the perfect drill for quarries or construction sites. Simple, durable and efficient, the HCR1100-ED 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 HCR1100-ED continuously adapts to the changing rock conditions, increasing drilling performance and the life of drill tools while decreasing fuel consumption.

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**HCR1100**

<table>
<thead>
<tr>
<th>US Standard</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall Weight (A)</strong></td>
<td>28,991 lb / 13,150 kg</td>
</tr>
<tr>
<td><strong>Overall Weight (B)</strong></td>
<td>29,784 lb / 13,150 kg</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td>32’6” / 9,890 mm</td>
</tr>
<tr>
<td><strong>Shipping Length</strong></td>
<td>31’4” / 9,545 mm</td>
</tr>
<tr>
<td><strong>Overall Width</strong></td>
<td>10’6” / 3,200 mm</td>
</tr>
<tr>
<td><strong>Shipping Width</strong></td>
<td>7’10” / 2,400 mm</td>
</tr>
<tr>
<td><strong>Overall Height</strong></td>
<td>10’12” / 3,350 mm</td>
</tr>
<tr>
<td><strong>Shipping Height</strong></td>
<td>10’2” / 3,100 mm</td>
</tr>
</tbody>
</table>

**Driller**

- **Model**: HD318
- **Weight**: 445 lb / 202 kg
- **Length**: 3’7” / 1,100 mm
- **Width**: 1’2” / 355 mm
- **Height**: 0’11” / 275 mm
- **Number of Blows**: 2,800 ~ 3,400 bpm
- **Rotating Speed**: 0 ~ 200 rpm / 0 ~ 3.5 min⁻¹
- **Track Length**: 10’6” / 3,200 mm
- **Track Length on Ground**: 7’10” / 2,400 mm
- **Track Width**: 1’1” / 330 mm
- **Ground Contact Pressure**: 11.8 psi / 81.6 kPa
- **Ground Clearance**: 1’11” / 585 mm

**Engine**

- **Type**: Diesel, Water-Cooled, 6 Cylinders
- **Make & Model**: Cummins® M11 (Tier-4 Final, Stage IV)
- **Power Output**: 225 hp / 2,200 rpm / 168 kW / 2,200 min⁻¹
- **Fuel Capacity**: 84 gal / 320 L
- **DEF Capacity**: 5.0 gal / 19 L

**Undercarriage**

- **Track Length**: 10’4” / 3,159 mm
- **Track Length on Ground**: 7’10” / 2,395 mm
- **Track Width**: 1’1” / 330 mm
- **Ground Contact Pressure**: 11.8 psi / 81.6 kPa
- **Ground Clearance**: 1’11” / 585 mm
- **Frame Oscillation Angle**: ±7.6°
- **Tramming Speed**: 0 ~ 2.2 mph / 0 ~ 3.5 km/h
- **Gradeability**: 57.7% (30°)
- **Maximum Traction Force**: 19,783 lb-force / 88 kN

**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**: 45 gal / 170 L

**Boom**

- **Model**: JF326
- **Type**: Extension
- **Boom Lift Angle (Up / Down)**: 45° / 15°
- **Boom Swing Angle (Right / Left)**: 30° / 4°
- **Boom Slide Length**: 3’11” / 1,200 mm

**Guide Shell**

- **Model**: GH831
- **Overall Length**: 25’7” / 7,845 mm
- **Feed Length**: 15’5” / 4,704 mm
- **Feed Type**: Hydraulic Motor Driven Chain
- **Guide Sling Length**: 3’11” / 1,200 mm
- **Guide Sling Angle (Right / Left)**: 30° / 90°
- **Guide Tilt Angle**: 180°
- **Maximum Pulling Force**: 5,508 lb-force / 24.5 kN

**Compressor**

- **Type**: 1-Stage Screw Compressor
- **Discharge Airflow**: 215 cfm / 6.1 m³/min
- **Discharge Pressure**: 149 psi / 1.03 MPa

**Dust Collector**

- **Model**: AIRMAN POS265-537B
- **Suction Capacity**: 706 cfm / 20 m³/min
- **Number of Filter Elements**: 4
- **Dust Removal System**: Automatic Air Pulse Jet
- **Suction Cap**: Slide Type

**Bit and Rod**

- **Bit Range**: 2.5” - 3.5” / 64 mm - 89 mm
- **Rod Type**: 32H, 38R, 45R [186]
- **Rod Length**: 10’ or 12’ / 3,050 mm or 3,660 mm
- **Starter Rod Length**: 13’ / 4,000 mm
- **Number of Control Levers**: 1

**Electrics**

- **Battery**: 12V, 108Ah/5hr
- **Light**: 24V, 70W x4
- **Voltage**: DC 24V

**Operating Environment**

- **Working Temperature**: 5° - 113° F / -15° - 45° C
- **Maximum Altitude**: 9,842’ / 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)”. Cummins is a registered trademark of Cummins, Inc.
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