The HCR 1800-D20 is equipped with longer guide shell to accommodate a longer starter rod. As a result, you’ll have less rod changing time, faster drilling and a lower overall cost per hole.

- Longer guide shell accommodates a 20' starter rod
- Field proven rod changer holds four 20' extension rods
- Travelling centralizer keeps rod from warping
- Equipped with the newly developed HD828 drifter, offering a blow range of 2700-3300 bpm
- High-efficiency 477 cfm air compressor, capable of cleaning up to a 5" hole diameter
- Ergonomically designed wide cabin offers comfortable work environment
HCR1800-D20

Dimensions and Weight

- Overall Weight (A) *1: 45,062 lb (20,440 kg)
- Overall Length: 33.12' (10,355 mm)
- Shipping Length: 36.11' (11,245 mm)
- Overall Width: 12.9' (3,875 mm)
- Shipping Width: 8.1' (2,465 mm)
- Overall Height: 11.8' (3,550 mm)
- Shipping Height: 10.11' (3,325 mm)

- Drifter Model HD828: Weight 597 lb (271 kg), Length 3.9' (1,148 mm), Width 1.3' (387 mm), Height 1.1' (328 mm)
- Number of Blows: 2,700 ~ 3,300 bpm
- Rotating Speed: 0 - 190 rpm

Undercarriage

- Track Length: 33.12' (10,355 mm)
- Track Length on Ground: 9.5' (2,880 mm)
- Track Width: 1.1' (330 mm)
- Ground Contact Pressure *3: 15.3 psi (105.4 kPa)
- Ground Clearance: 1.1' (330 mm)
- Frame Oscillation Angle: ±7.5°
- Tramming Speed: 0 - 2.2 mph (0 - 3.5 km/h)
- Gradeability: 57.4% (30°)
- Maximum Traction Force: 28,551 lb-force (127 kN)

Engine

- Make & Model: CAT® C9.3 (Tier4 Final, Stage IV)
- Type: Diesel, Water-Cooled; 6 Cylinders
- Piston Displacement: 567 cu in (9.3 L)
- Power Output: 350 hp / 2,200 rpm (261 kW / 2,200 min-1)
- Fuel Capacity: 158.5 gal (600 L)
- DEF Capacity: 9.0 gal (34 L)

Hydraulic Equipment

- Variable Displacement Pump: Axial Piston Pump x2
- Fixed Displacement Pump: Gear Pump x3
- Drive Motor: Hydraulic Motor with Reduction Gear
- Hydraulic Oil Reservoir Capacity: 63.4 gal (240 L)

Boom

- Model: JF325-142
- Type: Fixed
- Boom Lift Angle (Up / Down): ±40° / ±25°
- Boom Swing Angle (Right / Left): ±35° / ±1°
- Guide Rotary Angle: ±90°

Guide Shell

- Model: GH830-52
- Overall Length: 33.12' (10,355 mm)
- Feed Length: 22.6' (6,860 mm)
- Feed Type: Hydraulic Motor Driven Chain
- Guide Slide Length: 4.11' (1,300 mm)
- Guide Swing Angle (Right / Left): ±25° / ±90°
- Guide Tilt Angle: ±70°
- Maximum Pulling Force: 6,969 lb-force (31 kN)

Compressor

- Make & Model: AIRMAN PDSF290-S16
- Type: 1-Stage Screw Compressor
- Discharge Airflow: 477 cfm (13.5 m³/min)
- Discharge Pressure: 149 psi (1.03 MPa)

Dust Collector

- Model: A885-44
- Suction Capacity: 1,413 cfm (40 m³/min)
- Number of Filter Elements: 6
- Dust Removal System: Automatic Air Pulse Jet

Bit and Rod

- Bit Range: 3.5" - 5" (89 - 127 mm)
- Rod Type: T51
- Rod Length: 20' (6,100 mm)
- Starter Rod Length: 20' (6,100 mm)
- Battery: 12V, 160Ah/5hr
- Light: 24V, 70W x4
- Voltage: DC 24V

Operating Environment

- Working Temperature: 5° - 113°F (-15° - 45°C)
- Maximum Altitude: 8,202' (2,500 m)

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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