856H
WHEEL LOADER

Engine
Cummins QSB6.7 Tier 4 Final

Gross Power
225 hp (168 kW)

Operating Weight
42,540 lb (19,296 kg)

Bucket Size
4.2 yd³ (3.2 m³)
### 856H Specifications

**Engine**
- Emissions regulation: Tier 4 Final / Stage IV
- Make: Cummins
- Model: QSB6.7
- Max gross power: 225 hp (168 kW) @ 2,100 rpm
- Max net power: 215 hp (160 kW) @ 2,100 rpm
- Peak torque: 1,106 lb-ft (1,500 N-m) @ 1,400 rpm
- Displacement: 409 in³ (6.7 L)
- Number of cylinders: 6
- Aspiration: Turbocharged & air-to-air intercooled

**Transmission Standard**
- Transmission type: Countershaft, power shift
- Torque converter: Single-stage, three-element
- Maximum travel speed, fwd: 23.7 mph (38.1 km/h)
- Maximum travel speed, rev: 14.9 mph (23.9 km/h)
- Number of speeds, fwd: 4
- Number of speeds, rev: 3

**Axles**
- Differential front type: Limited slip
- Differential rear type: Limited slip
- Axle oscillation: ±12°

**Steering**
- Steering configuration: Articulated
- Steering pressure: 2,756 psi (19 MPa)

**Brakes**
- Service brake type: Wet discs, two independent circuits
- Service brake actuation: Hydraulic
- Parking brake type: Manual electronic control
- Parking brake actuation: Hydraulic

**Hydraulic System**
- Main pump type: Piston
- System pressure: 3,191 psi (22 MPa)
- Raise: 5.7 s
- Dump time: 1.3 s
- Float down time: 3.0 s
- Total cycle time: 10.0 s

**Loader Arm Performance with Attachment**
- Tipping load - straight: 28,219 lb (12,700 kg)
- Tipping load - full turn: 24,250 lb (11,000 kg)
- Bucket breakout force: 40,275 lbf (179 kN)
- Maximum hinge pin height: 13 ft 2 in (4,028 mm)
- Dump clearance at full height discharge: 9 ft 8 in (2,948 mm)
- Dump reach at full height discharge: 3 ft 8 in (1,129 mm)
- Maximum digging depth, bucket level: 3 in (85 mm)
- Bucket rollback at ground level: 43°
- Bucket rollback at carry: 48°
- Bucket rollback at maximum height: 58°
- Maximum dump angle at full height: 45°

**Bucket Performance**
- Bucket capacity: 4.2 yd³ (3.2 m³)

**Dimensions**
- Ground clearance: 17 in (431 mm)
- Wheelbase: 10 ft 10 in (3,320 mm)
- Cab height: 11 ft 3 in (3,450 mm)
- Wheel tread: 7 ft 0 in (2,150 mm)
- Width over tires: 9 ft 0 in (2,750 mm)
- Length with bucket down: 27 ft 3 in (8,318 mm)
- Turn angle, either side: 38°
- Rear angle of departure: 27°
- Turning radius, bucket carry: 22 ft 9 in (6,954 mm)
- Turning radius, outside of tire: 20 ft 4 in (6,205 mm)
- Width over bucket: 9 ft 10 in (2,976 mm)

**Tires**
- Tire size: 23.5R25 L3 tire

**Operating Weights**
- Operating weight: 42,540 lb (19,296 kg)

**Service Capacity**
- Fuel tank: 79.2 (300 L)
- Engine oil: 4.7 gal (18 L)
- Cooling system: 11.6 gal (44 L)
- Hydraulic system: 62.3 gal (236 L)
- Transmission: 11.8 gal (45 L)
- Axles, each: 11.6 gal (44 L)
- DEF tank: 5.0 gal (19 L)