

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)



TOUGH WORLD. TOUGH EQUIPMENT.

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 in ³ (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 yd ³ (3.2 m ³)
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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 in 4 in (6,205 mm)
Width over bucket	9 ft 10 in (2,976 mm)

TIRES

Tire size	23.5R25 L3 tire
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OPERATING WEIGHTS

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

