



Engine	Cummins L9
Rated Power	170 kW (228 hp / 231 ps) @ 2,000 rpm
Operating Weight	19,060 kg
Standard Bucket Size	3.5 m ³
Standard Breakout Force	185 kN
Standard Dump Clearance	2,929 mm

856T WHEEL LOADER

ENGINE

Emission Regulation	Tier 3 / Stage III
Manufacturer	Cummins
Model	L9
Rated Power	170 kW (228 hp / 231 ps) @ 2,000 rpm
Peak Torque	1,187 N·m @ 1,200 rpm
Displacement	8.9 L
Number of Cylinders	6
Aspiration	Turbocharged & Air-to-air intercooled

TRANSMISSION

Transmission Type	Countershaft, power shift
Torque Converter	Single stage, three elements
Maximum Travel Speed, fwd	39 km/h
Maximum Travel Speed, rev	24 km/h
Number of Speed, fwd	4
Number of Speed, rev	3

AXLES

Differential Front Type	Limited slip
Differential Rear Type	Limited slip
Axle Oscillation	±10°

STEERING

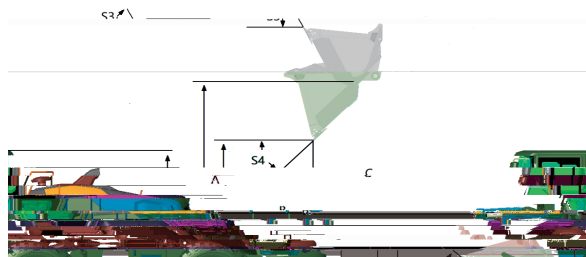
Steering Hydraulic System	Flow amplifying
Steering Relief Pressure	20.7 MPa

BRAKES

Service Brake Type	Wet discs brake
Service Brake Actuation	Full hydraulic
Parking Brake Type	Drum
Parking Brake Actuation	Electro-hydraulic release

HYDRAULIC SYSTEM

Main Pump Type	Piston
Main Relief Pressure	Bucket tilt joint: 26 MPa Boom joint: 30 MPa
Raise	5.1 s
Dump Time	1.5 s
Float Down Time	3.0 s
Hydraulic Cycle Time	9.6 s



LOADER ARM PERFORMANCE WITH STANDARD BUCKET 3.5 m³

Tipping Load - Straight (ISO 14397-1:2007)	15,000 kg
Tipping Load - Full Turn (ISO 14397-1:2007)	13,300 kg
Bucket Breakout Force	185 kN
A Maximum Hinge Pin Height	4,108 mm
B Dump Clearance at Full Height Discharge	2,929 mm
C Dump Reach at Full Height Discharge	1,342 mm
D Maximum Digging Depth, Bucket Level	158 mm
S ₁ Rollback at Ground Level	42.7 °
S ₂ Bucket Rollback at Carry	48 °
S ₃ Bucket Rollback at Maximum Height	59 °
S ₄ Maximum Dump Angle at Full Height	45 °

BUCKET PERFORMANCE

Reference Bucket	2.7-5.6 m ³
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DIMENSIONS

E Ground Clearance	431 mm
G Wheelbase	3,370 mm
H Cab Height	3,400 mm
J Wheel Tread	2,150 mm
K Width over Tires	2,750 mm
L Length with Bucket Down	8,552 mm
M Turn Angle, Either Side	38 °
P Rear Angle of Departure	33 °
R ₁ Turning Radius, Bucket Carry	7,077 mm
R ₂ Turning Radius, Outside of Tire	6,260 mm
W Width over Bucket	2,970 mm

TIRES

Tire Size	23.5R25* L-3
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OPERATING WEIGHTS

Operating Weight	19,060 kg
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SERVICE CAPACITY

Fuel Tank	270 L
Engine Oil	26 L
Cooling System	36 L
Hydraulic System	205 L
Transmission and Torque Converter	35 L
Axles, Front/Rear	50 L / 48 L