



Engine	Cummins B4.5
Max. Gross	115 kW (154 hp / 156 ps) @ 2,200 rpm
Max. Net	106 kW (142 hp / 144 ps) @ 2,200 rpm
Operating Weight	13,378 kg
Standard Bucket Size	1.9 m ³
Standard Breakout Force	113 kN
Standard Dump Clearance	2,804 mm

838T WHEEL LOADER

ENGINE	
Emission Regulation	EU Stage V
Manufacturer	Cummins
Model	B4.5
Max. Gross	115 kW (154 hp / 156 ps) @ 2,200 rpm
Max. Net	106 kW (142 hp / 144 ps) @ 2,200 rpm
Peak Torque	712 N·m @ 1,200 rpm
Displacement	4.5 L
Number of Cylinders	4
Aspiration	Turbocharged & Air-to-air intercooled

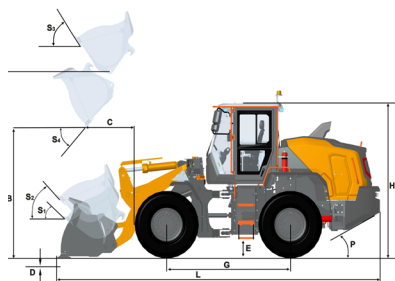
TRANSMISSION	
Transmission Type	Countershaft, power shift
Torque Converter	Single stage, three elements
Maximum Travel Speed, fwd	39.8 km/h
Maximum Travel Speed, rev	27.8 km/h
Number of Speed, fwd	4
Number of Speed, Rev	3

AXLES	
Differential Front Type	Differential lock
Differential Rear Type	Conventional
Axle Oscillation	±9°

STEERING	
Steering Hydraulic System	Large displacement steering
Steering Relief Pressure	18 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	26 MPa
Raise	4.8 s
Dump Time	1.9 s
Float Down Time	3.1 s
Hydraulic Cycle Time	9.8 s



LOADER ARM PERFORMANCE WITH STANDARD BUCKET 1.9 m³	
Tipping Load - Straight (ISO 14397-1:2007)	8,732 kg
Tipping Load - Full Turn (ISO 14397-1:2007)	7,487 kg
Bucket Breakout Force	113 kN
A Maximum Hinge Pin Height	3,870 mm
B Dump Clearance at Full Height Discharge	2,804 mm
C Dump Reach at Full Height Discharge	1,154 mm
D Maximum Digging Depth, Bucket Level	83 mm
S ₁ Rollback at Ground Level	43°
S ₂ Bucket Rollback at Carry	48°
S ₃ Bucket Rollback at Maximum Height	54.5°
S ₄ Maximum Dump Angle at Full Height	45°

BUCKET PERFORMANCE	
Reference Bucket	1.8-4.0 m³

DIMENSIONS	
E Ground Clearance	400 mm
G Wheelbase	2,870 mm
H Cab Height	3,352 mm
J Wheel Tread	1,950 mm
K Width over Tires	2,420 mm
L Length with Bucket Down	7,404 mm
M Turn Angle, Either Side	40°
P Rear Angle of Departure	28°
R ₁ Turning Radius, Bucket Carry	5,772 mm
R ₂ Turning Radius, Outside of Tire	5,213 mm
W Width over Bucket	2,470 mm

TIRES	
Tire Size	20.5R25

OPERATING WEIGHTS	
Operating Weight	13,378 kg

SERVICE CAPACITY	
Fuel Tank	190 L
Engine Oil	12 L
Cooling System	34 L
DEF Tank	25 L
Hydraulic System	160 L
Transmission and Torque Converter	40 L
Axles, Front/Rear	33 L / 33 L

