



<b>Engine</b>	Cummins B4.5
<b>Rated Power</b>	115 kW (154 hp / 156 ps) @ 2,200 rpm
<b>Operating Weight</b>	13,500 kg (29,762 lbs)
<b>Standard Bucket Size</b>	1.9 m <sup>3</sup> (2.5 yd <sup>3</sup> )
<b>Standard Breakout Force</b>	118 kN (26,527 lbf)
<b>Standard Dump Clearance</b>	2,840 mm (9'4")

# 838T WHEEL LOADER

## ENGINE

Emission Regulation	Stage V
Manufacturer	Cummins
Model	B4.5
Rated Power	115 kW (154 hp / 156 ps) @ 2,200 rpm
Peak Torque	712 N·m (525 lbf·ft) @ 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 (24.7 mph)
Maximum Travel Speed, rev	27.8 km/h (17.3 mph)
Number of Speed, fwd	4
Number of Speed, Rev	3

## AXLES

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

## STEERING

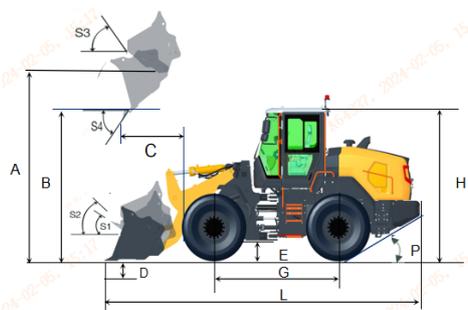
Steering Hydraulic System	Large displacement steering
Steering Relief Pressure	18 MPa (2,611 psi)

## 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 (3,771 psi)
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 (2.5 yd³)

Tipping Load - Straight (ISO 14397-1:2007)	8,600 kg (18,960 lbs)
Tipping Load - Full Turn (ISO 14397-1:2007)	7,400 kg (16,314 lbs)
Bucket Breakout Force	118 kN (26,527 lbf)
A Maximum Hinge Pin Height	3,870 mm (12'8")
B Dump Clearance at Full Height Discharge	2,840 mm (9'4")
C Dump Reach at Full Height Discharge	1,117 mm (3'8")
D Maximum Digging Depth, Bucket Level	90 mm (4")
S <sub>1</sub> Rollback at Ground Level	43°
S <sub>2</sub> Bucket Rollback at Carry	48°
S <sub>3</sub> Bucket Rollback at Maximum Height	54.5°
S <sub>4</sub> Maximum Dump Angle at Full Height	45°

## BUCKET PERFORMANCE

Reference Bucket	1.8-4.0 m³ (2.4-5.2 yd³)
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## DIMENSIONS

E Ground Clearance	400 mm (1'4")
G Wheelbase	2,870 mm (9'5")
H Cab Height	3,352 mm (11')
J Wheel Tread	1,950 mm (6'5")
K Width over Tires	2,420 mm (7'11")
L Length with Bucket Down	7,350 mm (24'1")
M Turn Angle, Either Side	40°
P Rear Angle of Departure	28°
R <sub>1</sub> Turning Radius, Bucket Carry	5,959 mm (19'7")
R <sub>2</sub> Turning Radius, Outside of Tire	5,213 mm (17'1")
W Width over Bucket	2,700 mm (8'10")

## TIRES

Tire Size	20.5R25
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## OPERATING WEIGHTS

Operating Weight	13,500 kg (29,762 lbs)
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## SERVICE CAPACITY

Fuel Tank	190 L (50.2 gal)
Engine Oil	12 L (3.2 gal)
Cooling System	34 L (9.0 gal)
Aftertreatment DEF	25 L (6.6 gal)
Hydraulic System	160 L (42.3 gal)
Transmission and Torque Converter	40 L (10.6 gal)
Axles, each	33 L (8.7 gal)

