



<b>Engine</b>	Yuchai YC6J140Z
<b>Rated Power</b>	103 kW (138 hp / 140 ps) @ 2,200 rpm
<b>Operating Weight</b>	10,800 kg
<b>Standard Bucket Size</b>	2.0 m <sup>3</sup>
<b>Standard Breakout Force</b>	100 kN
<b>Standard Dump Clearance</b>	2,918 mm

# 838T WHEEL LOADER

TOUGH WORLD. TOUGH EQUIPMENT.

## ENGINE

Emission Regulation	EPA Tier 2 / EU Stage II
Manufacturer	Yuchai
Model	YC6J140Z
Rated Power	103 kW (138 hp / 140 ps) @ 2,200 rpm
Peak Torque	640 N·m @ 1,300-1,500 rpm
Displacement	6.5 L
Number of Cylinders	6
Aspiration	Turbocharged

## TRANSMISSION

Transmission Type	Planetary, power shift
Torque Converter	Double stage, four elements
Maximum Travel Speed, fwd	40 km/h
Maximum Travel Speed, rev	17.8 km/h
Number of Speed, fwd	2
Number of Speed, Rev	1

## AXLES

Differential Front Type	Conventional
Differential Rear Type	Conventional
Axle Oscillation	±10°

## STEERING

Steering Configuration	Large displacement steering
Steering Relief Pressure	17.2 MPa

## BRAKES

Service Brake Type	Caliper disc brake
Service Brake Actuation	Air over hydraulic
Parking Brake Type	Discs
Parking Brake Actuation	Mechanical

## HYDRAULIC SYSTEM

Main Pump Type	Gear
Main Relief Pressure	24 MPa
Raise	5.1 s
Dump Time	1.6 s
Float Down Time	3.0 s
Hydraulic Cycle Time	9.7 s

## LOADER ARM PERFORMANCE WITH STANDARD BUCKET 2.0 m³

Tipping Load - Straight (ISO 14397-1:2007)	8,900 kg
Tipping Load - Full Turn (ISO 14397-1:2007)	7,800 kg
Bucket Breakout Force	100 kN
A Maximum Hinge Pin Height	3,801 mm
B Dump Clearance at Full Height Discharge	2,918 mm
C Dump Reach at Full Height Discharge	1,109 mm
D Maximum Digging Depth, Bucket Level	63 mm
S <sub>1</sub> Rollback at Ground Level	42 °
S <sub>2</sub> Bucket Rollback at Carry	48 °
S <sub>3</sub> Bucket Rollback at Maximum Height	55 °
S <sub>4</sub> Maximum Dump Angle at Full Height	45 °

## BUCKET PERFORMANCE

Reference Bucket	1.5-3.0 m³
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## DIMENSIONS

E Ground Clearance	344 mm
G Wheelbase	2,930 mm
H Cab Height	3,270 mm
J Wheel Tread	1,850 mm
K Width over Tires	2,295 mm
L Length with Bucket Down	7,262 mm
M Turn Angle, Either Side	40 °
P Rear Angle of Departure	28 °
R <sub>1</sub> Turning Radius, Bucket Carry	5,660 mm
R <sub>2</sub> Turning Radius, Outside of Tire	5,113 mm
W Width over Bucket	2,500 mm

## TIRES

Tire Size	17.5-25 PR12
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## OPERATING WEIGHTS

Operating Weight	10,800 kg
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## SERVICE CAPACITY

Fuel Tank	190 L
Engine Oil	17 L
Cooling System	35 L
Hydraulic System	90 L
Transmission and Torque Converter	42 L
Axles, Front/Rear	22 L / 22 L

