

# 432 ZX JCB Wheel Loader Specification

## LOADER

Heavy duty three ram geometry (Z bar linkage) providing high breakout forces with excellent loading characteristics. The pin, bush and sealing design on all pivot pins provide extended maintenance intervals.

## ENGINE

Six cylinder-turbo charged and after cooler, water cooled diesel engine.

Type	: 4 stroke, direct injection
Make & Model	: Cummins 6 BTA 5.9 I50C
Bore	: 102mm
Stroke	: 120mm
Displacement	: 5.9 litres
Gross Power	: 150 hp (112 kw) @ 2200 rpm
Max Torque	: 659 Nm @ 1600 rpm
Emission	: Conforms to CMVR norms.

## TRANSMISSION

4 wheel drive, automatic smooth shift transmission electrically operated selector and gear change incorporating a speed inhibitor and modulation for smooth, responsive on-the-move direction and ratio changes. Single stage integral torque converter, 4 forward and 3 reverse gears.

Type	: Smooth shift powershift
Make & Model	: ZF 4WG160

## SPEEDS

Max Speeds in Each Gears	Forward	Reverse
1 <sup>st</sup> Gear	7.05 kph	7.36 kph
2 <sup>nd</sup> Gear	12.72 kph	13.39 kph
3 <sup>rd</sup> Gear	24.20 kph	25.39 kph
4 <sup>th</sup> Gear	39.24 kph	-

## AXLES

Type	: Epicyclic hub reduction
Make & Model	: Graziano PR10 front / PR10 rear
Overall axle ratio	: 20.197:1
Rear axle oscillation	: ±21 degree

## BRAKES

Service: Hydraulic power braking on all wheels, operating pressure 65 bar. Dual circuit with accumulator backup provides maximum safety under all conditions. Out-board mounted, oil immersed, multi-plate disc brakes with organic brake linings are environmentally acceptable.

Parking: Mechanical disc type operating on transmission output shaft.

## STEERING

Priority steer hydraulic system with priority valve operating at 170-180 bar to provide smooth low effort response. Steering angle ± 40 degrees. Steer rams located high in the chassis to provide protection from damage. Adjustable steering column.

## TYRES

Standard	: 17.5-25,(20 PR) E3 / L3 (Heavy duty)
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## ELECTRICALS

24 volt negative ground system, 45 amp alternator with 2x100 AH low maintenance batteries. Ignition key start/stop. Other electrical equipments includes 4 front and 2 rear work lights, registration plate lights front and rear, parking lights, direction indicators, reverse lights and alarm. Connectors to IP67 standard. Relays and fuses are well identified and conveniently located on side console.

## HYDRAULICS

Single gear pump directly mounted on transmission. Twin spool remote mounted valve block with bucket float. Main services are servo actuated from a hydraulic remote lever (joystick) loader control through accumulator backup hydraulic supply unit.

Pump Displacement	: 88.5 cc/rev
System pressure	: 210 bar
Pump Flow	: 182 Lpm

## SERVICE CAPACITIES

Hydraulic System	: 210 Litres
Fuel Tank	: 210 Litres
Engine Coolant	: 37 Litres
Engine Oil	: 15 Litres
Transmission	: 30 Litres
Rear Axle	: 26 Litres
Front Axle	: 26 Litres

## CAB

- Resiliently mounted ROPS/FOPS Structure.
- De-luxe operator environment combines ergonomically located controls with a high level of appointment and low internal noise levels.
- Entry/Exit via large rear hinged door and anti slip steps.
- Excellent forward visibility is provided by 3 section curved laminated windscreens.
- Extensive instrumentation includes electronic monitoring display unit for transmission functions and speedometer.
- Audible/visual monitoring includes engine oil pressure, transmission oil temperature and pressure, engine coolant temperature and blocked air filter warning.
- The unitary construction allows easy sealing and prevents ingress of dust.
- Electric speed range selector (with integrated kick down button) for gear shift and direction change. Hand lever for parking brake.

## OPTIONS

- Shovels
- 1.8 cu.m
  - 2.1 cu.m
  - 2.3 cu.m
  - 2.7 cu.m
  - 3.1 cu.m
  - Dozer Blade