

# 455 ZX JCB Loader Specification

## ENGINE

Type	Common Rail Direct Injection (CRDi), Water cooled diesel engine	
Model	JCB DIESELMAX 672	
Capacity	litres	7.2
Aspiration	Turbocharged and after cooler	
Cylinders	6	
Max gross power to (SAEJ 1995/ISO 14396)	kW (hp)	165 (221)
Max torque	Nm @ 1500rpm	1000
Emissions	BSIII	

## CAB

Resiliently mounted ROPS/FOPS structure (tested in accordance with EN347:2008/EN3449: 2008 (Level 2)). Entry/exit is via large rear hinged door, grab handles giving 3 points of contact and anti-slip inclined steps. Forward visibility through a curved, laminated windscreen with lower glazed quarter panels, two mirror and non heated exterior mirrors. Instrumentation analogue/digital display gauges along with full colour LCD screen including selectable machine and operator menus along with service and diagnostic screens. Heating/ventilation provides balanced and filtered air distribution throughout the cab via powerful 8 kW capacity heater, with air conditioning and climate control system as options. Provision of speakers and antenna for radio fitment (radio/CD not included). The cab environment is positively pressurised preventing the ingress of dust including in-cab recirculation filter. Fabric mechanical suspension seat as standard with various options including vinyl material, air suspension, heating and deluxe grammer actimo XXL air suspension seat with headrest, twin armrests, lumbar support, backrest extension, heating and full adjustment. Coat hook, cup holder and additional stowage space. Fuse box positioned at rear for access to fuses, relays and diagnostic connectors.

## TRANSMISSION

Type	4 Wheel drive, Automatic 4 speed transmission		
Make	ZF		
Model	4WG190		
Speed		Forward	Reverse
1 <sup>st</sup> gear	kph	6.5	6.85
2 <sup>nd</sup> gear	kph	12.8	13.49
3 <sup>rd</sup> gear	kph	23.77	24.85
4 <sup>th</sup> gear	kph	36.04	

## AXLES

Type	Limited slip differential	
Make and model	Front- ZF MTL 3095 II / Rear - ZF MTL 3085 II	
Overall axle ratio	23.33	
Rear axle oscillation	±12.5°	
Bias ratio	30%	

## STEERING

Q-Amp hydraulic system with steer priority valve operating at 190 bar to provide smooth, low effort response. Steer ram located high in chassis to provide protection from damage. Adjustable steering column. Steering angle ±40°

## BRAKES

Hydraulic power braking on all wheels, operating pressure 80 bar (1160psi). Dual circuit with accumulator back-up provides maximum safety under all conditions. In board mounted, oil immersed, multi-plate disc brakes with sintered linings reduce heat build up. Wheel speed braking improves performance and reduce wear. Parking brake, electro-hydraulic disc type operating on transmission output shaft.

## ELECTRICAL SYSTEM

System voltage	Volt	24V
Alternator output	Amp hour	28V 100A
Battery capacity	Amp hour	2 x 12V 900CCA

## TYRE SIZE

Tyre size	Manufacturer	Type	Rating	Dimensions		
				Operating weight (kg)	Vertical mm	Width mm
23.5x25-20PR	BKT	L3	20PR	17,880		
23.5x25 (crossply)	BKT (XL GRIP)	E3/L3	20PR	18000	+26	0
23.5R25 (radial)	BKT	E3/L3	1*	18020	+12	0

## HYDRAULICS

Pump type	Variable displacement piston pump-load sensing	
Pump 1, max. flow	l/min	132
Pump 1, max. pressure	bar	250
Pump 2, max. flow	l/min	94
Pump 2, max. pressure	bar	310
Hydraulic cycle times at full engine rpm		
- Arms raise (full bucket)	seconds	6.0
- Bucket dump (full bucket)	seconds	1.9
- Arms lower (empty bucket)	seconds	3.7
- Total cycle	seconds	11.6

## SERVICE FILL CAPACITIES

Hydraulic tank	litres	180
Fuel tank	litres	310
Engine oil sump	litres	28
Transmission oil system	litres	36
Axle oil (front)	litres	35
Axle oil (rear)	litres	35
Engine coolant system	litres	37

## STANDARD EQUIPMENT

Return to dig, boom kickout, 12V converter, sun visor, interior mirror, left hand and right hand rear view mirror, front light guard, tail lamp guard, livelink, front screen guard, cabin fan, FM radio with speakers, beacon

## OPTIONAL EQUIPMENT

3.5 cum bucket, 2.8 cum bucket, 4.8 cum bucket, reversible fan, 3 spool option valve, quick hitch (3 spool), 24V socket in cabin, heated mirror, cold start kit, emergency steer pump, rear view camera, rear view mirror, cigarette lighter, additional worklight, white noise horn, air suspension+ heated seat, radial tyre