

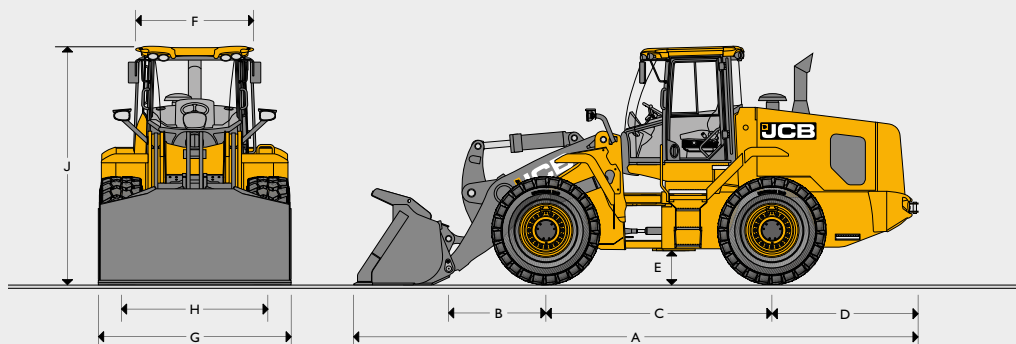


WHEELED LOADING SHOVEL | 455ZX

Operating weight: 17880kg Gross engine power: 165kW (221hp) Standard shovel capacity: 3.1m³



STATIC DIMENSIONS



		With shovel fitted	With forks fitted
A	Overall length	mm 7984	7984
B	Axle to pivot pin	mm 1622	1622
C	Wheel base	mm 3300	3300
D	Axle to counterweight face	mm 1994	1994
E	Minimum ground clearance	mm 470	470
F	Width over cab	mm 1400	1400
G	Width over tyres	mm 2702	2702
H	Wheel track	mm 2100	2100
J	Height over cab	mm 3370	3370
	Front axle weight	kg 8204	8204
	Rear axle weight	kg 9596	9596
	Total weight	kg 17800	17800
	Inside turn radius	mm 3211	3211
	Maximum turn radius over shovel	mm 6554	6554
	Articulation angle	deg ±40	±40

Data based on machine equipped with direct mounted 3.1 m³ bucket with toe plates and bolt on teeth and 23.5- 25 R25 BKT L3.

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 SAE J1995/ISO 14396	kW (hp)	165 (221)
Max torque	Nm @ 1500rpm	1000
Emissions	Tier III	

TRANSMISSION

Type	ZF		
Model	4WG190		
		Forward	Reverse
1	kph	6.5	6.85
2	kph	12.8	13.49
3	kph	23.77	24.85
4	kph	36.04	

AXLES

Type	Limited slip differential		
Make and model	ZF MTL 3095 II Front ZF MTL 3085 II Rear		
Overall axle ratio	23.333		
Rear axle oscillation	± 12.5°		
Bias Ratio	30%		

STEERING

Hydraulic power steering.

BRAKES

Hydraulic power braking on all wheels. In-board mounted, oil immersed, multi-plate disc brakes.
Parking brake, electro-hydraulic disc type operating on transmission output shaft.

TYRE SIZE

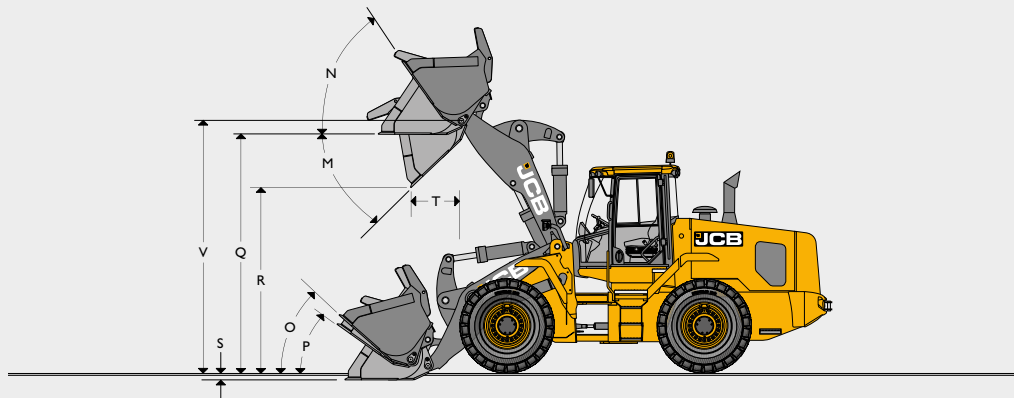
				Dimensions	
Tyre size	Manufacturer	Type	Operating weight (kg)	Vertical (mm)	Width (mm)
23.5x25-20PR (bias) (standard fit)	BKT	L3	17800	0	0
23.5R25 (radial) (optional fit)	BKT	E3/L3	17954	12	0

ELECTRICAL SYSTEM

System voltage	Amps	24	
Alternator output	Amps	100	
Battery capacity	Amp hour	110	

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

**LOADER DIMENSION - SHOVEL**

Shovel mounting		Direct
Shovel type		General purpose
Shovel equipment		Tipped teeth penetration
Shovel capacity (sae heaped)	m ³	3.1
Shovel capacity (struck)	m ³	2,791
Shovel width	mm	2800
Shovel weight	kg	1613
Maximum material density	kg/m ³	1790
Tipping load straight	kg	12276
Tipping load full turn	kg	11100
Payload	kg	5550
Maximum breakout force	kN	164
M Dump angle maximum	degrees	45
N Roll back angle full height	degrees	67
O Roll back at carry	degrees	45
P Roll back at ground level	degrees	39
Q Load over height	mm	3822
R Dump height (45 deg dump)	mm	2741
S Dig depth	mm	74
T Reach at dump height	mm	1183
V Pin height	mm	4107
Reach maximum (45 deg dump) horizontal arm	mm	2140
Operating weight (includes 80kg operator and full fuel tank (includes aux tank))	kg	17880

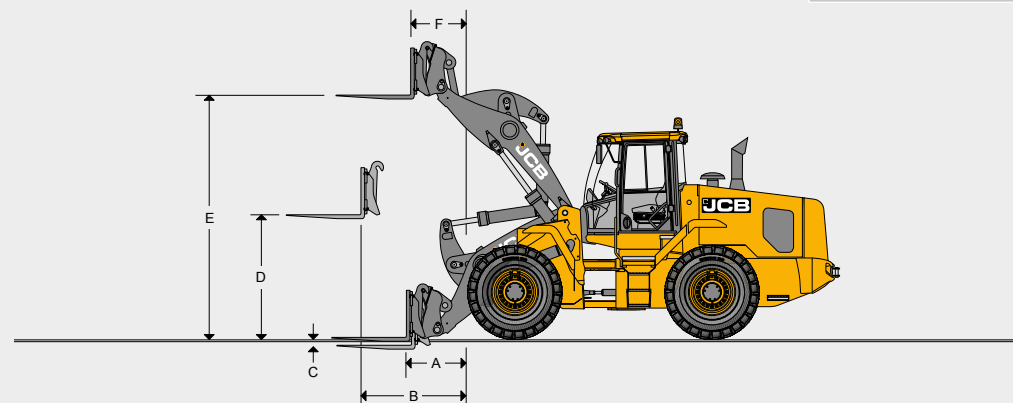
Model (loader dimensions quoted on 23.5- 25 R25 BKT L3)

STANDARD EQUIPMENT

3.1m³ bucket, 2 spool hydraulics, proportional fan control, 23.5-25 - 20PR L3 tyres, 4 speed transmission, AC cabin, return to dig, boom kickout, 24V socket in cabin, sun visor, interior mirror, heated LH+RH rear view mirror, front light guard, tail lamp guard, LiveLink (territory dependent), beacon, 12 V converter, cigarette lighter, emergency steering, emergency braking system, engine cold start kit.

OPTIONAL EQUIPMENT

Automatically reversing cooling fan, hydraulic quickhitch with in-cab hydraulic pin isolation, reversing camera (colour), 3 spool hydraulics with auxiliary hydraulic control on separate lever, cab screen guards, additional front and rear work lights, heated air suspension seat, engine block heater, hydraulic quickhitch, additional counterweight, fork-frame with forks.

**LOADER DIMENSIONS - PALLET FORKS**

		Standard arm
Fork carriage width	mm	1500
Length of tines	mm	1220
A Reach at ground level	mm	1031
B Reach at arms horizontal	mm	1711
C Below ground level	mm	16
D Arms, horizontal height	mm	2086
E Arms, maximum height	mm	4000
F Reach at maximum height	mm	850
Payload*	kg	7000
Tipping load straight	kg	9907
Tipping load full turn (40°) (Tier 4)	kg	8750
Attachment weight	kg	604

* At the centre of gravity distance 600mm. Based on 80% of FTTL as defined in ISO 14397 with additional counterweight

Manual fork spacing's at 50mm increments. Class 4A Fork section 150mm x 60mm

Assumes the fitment of 23.5 - 25 L3 BKT tyres

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

CAB

In-cab noise level – 74dB(A).



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Wheeled Loading Shovel 455ZX

Operating weight: 17880kg Gross engine power: 165kW (221hp)

Full turn tipping load: 11100kg Standard shovel capacity: 3.1m³

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