

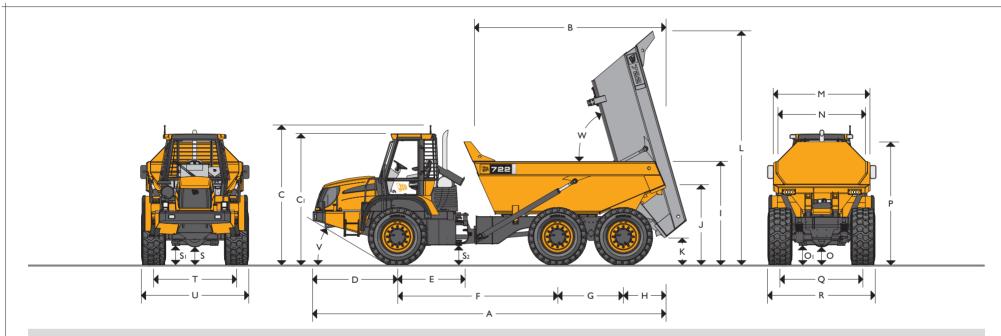


MAX. OPERATING WEIGHT:

35.7 tonnes (78705lb)

MAX. HORSEPOWER:

186 kW (249hp)



### STATIC DIMENSIONS

		mm (ft-in)
Α	Overall length	9199 (30-2)
В	Body length	3690 (12-10)
С	Max. height	3446 (11-3)
Cı	Height to top of cab	3310 (10-9)
D	Front axle to front bumper	2174 (7-1)
Е	Front axle to rear of front unit	1575 (5-2)
F	Wheelbase (front axle to intermediate axle)	4245 (13-9)
G	Wheelbase (intermediate axle to rear axle)	1675 (5-5)
Н	Rear axle to rear bumper	1105 (3-6)
1	Height to top of body	2609 (8-6)
J	Height to lip of body	2033 (6-7)
K	Min. height to body when tipped	635 (2-0)
L	Max. height to body when tipped	5947 (19-5)
М	Max. external body width	2492 (8-2)

Overall dimensions based on an unladen machine equipped with Michelin 20.5 R25 XADN tyres.

		mm (ft-in)
N Max. internal body width		2342 (7-7)
O Max. ground clearance (rear diff)		433 (1-4)
O1 Max. ground clearance (rear axle)		512 (1-7)
P Max. body to spill guard		3097 (10-2)
Q Wheel track (rear)		2122 (6-10)
R Overall width		2652 (8-7)
S Max. ground clearance (front diff)		433 (1-4)
Sı Max. ground clearance (front suspension arm)		373 (1-2)
S2 Ground clearance		420 (1-4)
T Wheel track (front)		2122 (6-10)
U Overall width		2652 (8-7)
V Departure angle (front)	degrees	30
W Body tip angle	degrees	74
Load capacity	tonnes/lb	20 (44092)
Body – heaped	m³ (yd³)	12.0 (15.7)

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ENGINE				
Туре		6 cylinder direct injection diesel		
Model		QSB 44		
Capacity	litres (in³)	5.9 (360)		
Bore	mm (in)	102 (4)		
Stroke	mm (in)	120 (4.75)		
Aspiration		Turbo/charge cooled		
Cylinders		6		
Power rating				
Max power	kW (HP) @ 2200rpm	186 (249)		
Gross power to SAE J 1995/ISO 14396	kW (HP) @ 2400rpm	179 (240)		
Net power to SAE J1995/ISO 14396	kW (HP) @ 2400rpm	167 (224)		
Torque rating				
Max. torque	Nm (lbf ft) @ 1450rpm	938 (692)		
Net torque	Nm (lbf ft) @ 1450rpm	840 (620)		

TRANSMISSION					
Transmission Type Smoothshift					
	Make	ZF			
	Model	6WG210			
Torque converter	Туре	Single stage			
	Torque converter ratio	1.773:1			

AXLES	
Туре	Epicyclic hub reduction
Make	ZF
Model	AP9
Overall axle ratio	21.85

TRAVEL SPEEDS  Assumes fitment of Michelin 20.5 R25 XADN kph (mph)				
	Second	9.31 (5.79)		
	Third	14.30 (8.89)		
	Fourth	21.9 (13.61)		
	Fifth	32.3 (20.07)		
	Sixth	50 (31.07)		
Reverse	First	6.0 (3.73)		
	Second	15.0 (9.32)		
	Third	32.0 (19.86)		

SUSPENSION		
Type (front)	4-bar parallel link	
Make	JCB	
Type (rear)	Bogie beam suspension	
Make	JCB	

HYDRAULICS			
Pump type Variable displacement			
Pump: max flow @ 2200rpm	l/min (UK gal/min)	198 (43.6)	
Pump: max pressure	bar (psi)	210 (3046)	

SERVICE FILL CAPACITIES		
	litres (UK gal)	
Hydraulic system	160 (35.20)	
Fuel tank	210 (46.20)	
Engine oil sump	16.3 (3.58)	
Transmission system	41 (9.02)	
Axle oil (front)	29 (6.38)	
Axle oil (intermediate)	29 (6.38)	
Axle oil (rear)	29 (6.38)	
Engine coolant system	33 (7.26)	

ELECTRICAL SYSTEM			
System voltage	Volt	24	
Alternator output	Amp hour	70	
Battery capacity	Amp hour	2 x 115	

BODY			
Tipping angle	degrees	74	
Body plate thickness (front)	mm (ft-in)	8 (0-03)	
Body plate thickness (side)	mm (ft-in)	10 (0-03)	
Body plate thickness (bottom/chute)	mm (ft-in)	10 (0-03)	
Yield strength	N/mm² (psi)	1000 (145000)	
Tensile strength	N/mm² (psi)	1250 (181000)	
Hardness (min)	HB	400	
Body raise (laden)	seconds	13	
Body lower (unladen)	seconds	П	
Scow angle	degrees	25	

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#### STANDARD EQUIPMENT

Engine: 6 cylinder, direct injection diesel engine. Wastegated turbocharger charged cooler for maximum torque and minimum exhaust smoke 3 stage dry type-cyclonic air cleaner with primary and safety elements. Stainless steel exhaust system, fuel sedimenter, single bowl fuel filters.

Suspension: Front suspension is a four bar parallel link mechanism connected via a gas strut to a pre charged accumulator that dampens the vibration. The system is self-levelling whether laden or un-laden. The rear axles are pad mounted to a rocking beam mechanical suspension system.

**Transmission:** 6 forward and 3 reverse speed remote mount smoothshift transmission with integral lock up torque converter. Manual or automatic selection.

Axles: Pad mounted to the suspension. Limited Slip Differential in all axles. Planetary wheel hub reduction.

Steering: Double acting hydrostatic system. Priority steer valve. Emergency steering via a ground driven pump.

**Brakes:** Dual circuit, hydraulic power dry disc type with braking on all six wheels. Electrically operated dry disc parking brakes on the driveline spring applied and hydraulically released. Brake disc guards fitted as standard.

**Hydraulics**: System comprising single varialbe displacement pump for pnority steer, body tip and braking. Emergency steer via a ground driven pump.

Cab: ROPS and FOPS safety structure. Fully adjustable air suspension seat. Adjustable steering column. Air conditioning Laminated safety glass. Electronic monitoring panel with LCD message display to include body up warning light. Front & rear screen wash / wipe. 3 speed heater / demisting with replaceable air filter. LH & RH opening doors. Single lever transmission selector. Single lever hydraulic tip control. Combination stalk controls for lights, wipers, horn, direction indicators. Separate side consul for auxiliary switches. Cigar lighter, ashtrays, interior light, sun visor, external rear view mirrors, and operator's storage facilities.

**Electrical:** Road lights front and rear, front working lights, reversing alarm and light, rear fog lights, horn, battery isolator, beacon, radio fittings, 70 amp alternator, 24-12 volt in cab converter.

**Bodywork:** Flexible front steps, non-slip walkways, recovery hitch, lifting lugs (rear body), engine access cover. Rear cab mounted spill guard. Cast 360 deg centre hitch.

**Body:** Constructed from high strength steel with large box section stiffeners and a high tensile steel floor. Large target area and load retention. Two single stage double acting cylinders located externally to the body.

### **OPTIONAL EQUIPMENT**

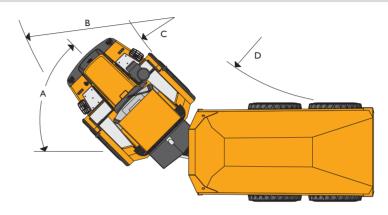
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; Smart reverse alarm; 3" seat belt; Greedy boards; Window etching; Spacetrac; Heated body.

#### **OPERATING WEIGHTS**

		Laden	Unladen
Front	tonnes (lb)	11.47 (25287)	7.5 (16535)
Rear	tonnes (lb)	24.3 (53572)	8.2 (18078)
Total	tonnes (lb)	35.7 (78705)	15.7 (34613)
Payload	tonnes (lb)	20.0 (44092)	_

Includes operator (80kg) and a full fuel tank.

#### **TURNING CIRCLE**



		mm (ft-in)
Α	Articulation angle degrees	45
В	Clearance radius	10542 (34-6)
С	Turning radius (front unit)	7890 (25-9)
D	Turning radius (rear unit)	5340 (17-5)

#### CHANGES TO GROUND BEARING PRESSURES

Manufacturer	Tyre Size	Туре	Laden		Unladen		Tyre Pressure	
i iai uiactui ei			Front	Rear	Front	Rear	Front	Rear
			kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)	bar (PSI)	bar (PSI)
Michelin	20.5 R25	XADN	154 (22)	161 (23)	98 (14)	55 (8)	3.3 (48)	3.73 (54)
Bridgestone	20.5 R25	VLT	154 (22)	161 (23)	98 (14)	55 (8)	3.3 (48)	3.73 (54)
Michelin	650/65 R25	XAD	125 (18)	130 (19)	80 (12)	45 (7)	2.5 (36)	2.76 (40)
Bridgestone	650/65 R25	VTS	125 (18)	130 (19)	80 (12)	45 (7)	3.25 (47)	3.75 (54)

Ground bearing pressure @ 15% sinkage.

#### CHANGES TO OPERATING DIMENSIONS

Manufacturer	Tyre Size	Туре		Operating			
i idilulacturei			U	Т	R	Q	weight
			mm (ft-in)	mm (ft-in)	mm (ft-in)	mm (ft-in)	kg (lb)
Michelin	20.5 R25	XADN	0	0	0	0	0
Bridgestone	20.5 R25	VLT	0	0	0	0	+200 (440)
Bridgestone	650/65 R25	VTS	+ 112 (0-44)	0	+ 112 (0-44)	0	+600 (1320)
Michelin	650/65 R25	XAD	+100 (0-4)	0	+ 100 (0-4)	0	+900 (1980)

Hard Working by Design



### A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in Europe.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of over 400 distributors and agents, the company exports over 70% of its production to all five continents.

Through setting the standards by which others are judged, JCB has become one of Britain's most impressive success stories.

