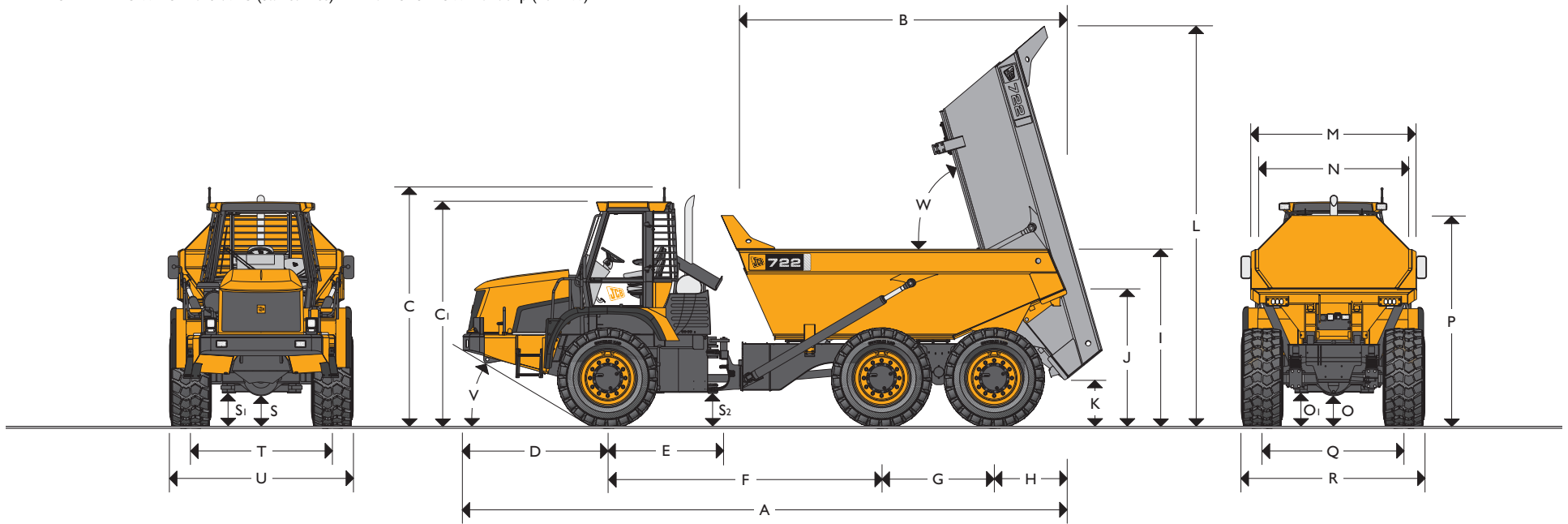


MAX OPERATING WEIGHT: 81791 lb (37.1 tonnes) MAX. HORSEPOWER: 270hp (201 kW)



STATIC DIMENSIONS

	ft-in (mm)
A Overall length	30-2 (9199)
B Body length	16-6 (5030)
C Max. height	11-3 (3446)
Ci Height to top of cab	10-9 (3310)
D Front axle to front fender	7-1 (2174)
E Front axle to pivot point	5-2 (1575)
F Wheelbase (front axle to intermediate axle)	13-9 (4145)
G Wheelbase (intermediate axle to rear axle)	5-5 (1675)
H Rear axle to rear of body	3-6 (1105)
I Height to top of body	8-6 (2609)
J Height to lip of body	6-7 (2033)
K Min. height to body when tipped	2-0 (635)
L Max. height to body when tipped	19-5 (5947)
M Max. external body width	8-2 (2492)

	ft-in (mm)
N Max. internal body width	7-7 (2342)
O Max. ground clearance (rear diff)	1-4 (433)
O1 Max. ground clearance (rear axle)	1-7 (512)
P Height to top of spill guard	10-2 (3097)
Q Wheel track (rear)	6-10 (2122)
R Overall width	8-7 (2652)
S Max. ground clearance (front diff)	1-4 (433)
S1 Max. ground clearance (front suspension arm)	1-2 (373)
S2 Ground clearance (pivot point)	1-4 (420)
T Wheel track (front)	6-10 (2122)
U Overall width	8-7 (2652)
V Departure angle (front)	degrees 30°
W Body tip angle	degrees 74°
Load capacity	lb (tonnes) 44092 (20)
Body – heaped	yd ³ (m ³) 15.7 (12.0)
Body – struck	yd ³ (m ³) 12.3 (9.4)

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



ENGINE

Type	6 cylinder direct injection diesel	
Model	QSB 6.7	
Capacity	in ³ (liters)	409 (6.7)
Bore	in (mm)	4.25 (107)
Stroke	in (mm)	4.75 (124)
Aspiration	Turbo/charge cooled	
Cylinders	6	
Power rating		
Max power	HP (kW) @ 2200rpm	270 (201)
Gross power to SAE J1995/ISO 14396	HP (kW) @ 2400rpm	260 (194)
Net power to SAE J1349/EEC80/1269	HP (kW) @ 2400rpm	242 (182)
Torque rating		
Max. torque	lbf ft (Nm) @ 1500rpm	730 (990)
Net torque	lbf ft (Nm) @ 1500rpm	634 (860)

* Emissions Relevant standards US EPA Tier 3 carb Tier 3, EU Stage IIIA (complies with EU / EPA "off highway" Construction Equipment Regulation Stage 2.)

TRANSMISSION

Transmission	Type	Smoothshift
	Make and model	ZF 6WG210
Torque converter	Type	Single stage
	Torque converter ratio	1.773:1

AXLES

Type	Epicyclic hub reduction
Make and model	ZF AP9
Overall axle ratio	21.85

TRAVEL SPEEDS

Assumes fitment of Michelin 20.5 R25 XADN		mph (kph)
Forward	First	3.42 (5.51)
	Second	5.33 (8.58)
	Third	8.51 (13.69)
	Fourth	13.27 (21.36)
	Fifth	20.16 (32.45)
	Sixth	28.58 (46.0)
Reverse	First	3.65 (5.88)
	Second	8.97 (14.44)
	Third	19.88 (32.0)

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	gal/min (l/min)	52.3 (198)
Pump: max pressure	psi (bar)	3046 (210)

SERVICE FILL CAPACITIES

	gal (liters)
Hydraulic system	46.0 (174)
Fuel tank	71.3 (270)
Engine oil sump	4.3 (16.3)
Transmission system	10.8 (41)
Axle oil (front)	7.6 (29)
Axle oil (intermediate)	7.6 (29)
Axle oil (rear)	7.6 (29)
Engine coolant system	8.7 (33)

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)	ft-in (mm)	.3 (8)
Body plate thickness (side)	ft-in (mm)	.4 (10)
Body plate thickness (bottom/chute)	ft-in (mm)	.4 (10)
Yield strength	psi (N/mm ²)	145000 (1000)
Tensile strength	psi (N/mm ²)	181000 (1250)
Hardness (min)	HB	400
Body raise (laden)	seconds	13
Body lower (unladen)	seconds	6
Scow angle	degrees	25

STANDARD EQUIPMENT

Engine: 6 cylinder, common rail 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, single bowl fuel filters. Complies to US EPA Tier 3, EU Stage 3 legislation.

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 hydraulic 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.

Hydraulics: System comprising single variable displacement pump for priority 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 / defroster 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 console 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 center 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

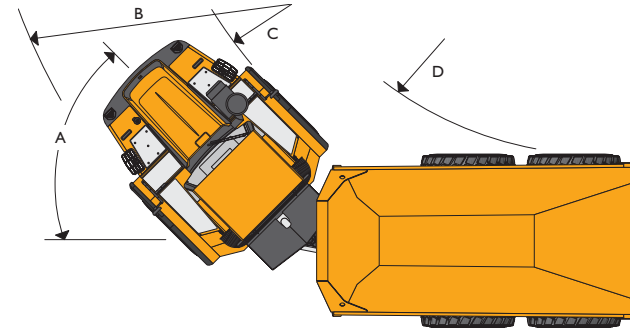
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; 3" seat belt; Heated body; Brake disc guards.

OPERATING WEIGHTS

		Laden	Unladen
Front	lb (tonnes)	27998 (12.7)	19180 (8.7)
Rear	lb (tonnes)	53791 (24.4)	18517 (8.4)
Total	lb (tonnes)	81791 (37.1)	37699 (17.1)
Payload	lb (tonnes)	44092 (20.0)	-

Includes operator 175lb (80kg) and a full fuel tank.

TURNING CIRCLE



		ft-in (mm)
A	Articulation angle	degrees 45°
B	Clearance radius – over front tires	29-7 (9045)
C	Turning radius (front unit)	25-9 (7890)
D	Turning radius (rear unit)	17-5 (5340)

CHANGES TO GROUND BEARING PRESSURES

Manufacturer	Tire Size	Type	Laden		Unladen		Tire Pressure	
			Front	Rear	Front	Rear	Front	Rear
			PSI (kPa)	PSI (kPa)	PSI (kPa)	PSI (kPa)	PSI (kPa)	PSI (kPa)
Michelin	20.5 R25	XADN	22 (154)	23 (161)	14 (98)	8 (55)	48 (3.3)	54 (3.73)
Michelin	650/65 R25	XAD	18 (125)	19 (130)	12 (80)	7 (45)	36 (2.5)	40 (2.76)
Goodyear	650/65 R25	GP-3D	17 (118)	18 (125)	11 (78)	6 (49)	41 (2.8)	45 (3.1)
Nokian	750/55-26.5	TRS LS-2	15 (105)	16 (110)	10 (70)	6 (40)	29 (2.0)	33 (2.25)
Trelleborg	850/45 B30.5	Twin 423 TL	13 (90)	14 (95)	9 (60)	5 (35)	34 (2.4)	32 (2.2)

Ground bearing pressure @ 15% sinkage.

CHANGES TO OPERATING DIMENSIONS

Manufacturer	Tire Size	Type	Dimensional changes				Operating weight
			U	T	R	Q	
			ft-in (mm)	ft-in (mm)	ft-in (mm)	ft-in (mm)	lb (kg)
Michelin	20.5 R25	XADN	0	0	0	0	0
Michelin	650/65 R25	XAD	+0-5 (126)	+0-1 (26)	+0-5 (126)	+0-1 (26)	+1980 (900)
Goodyear	650/65 R25	GP-3D	+0-6½ (164)	+0-1 (26)	+0-6½ (164)	+0-1 (26)	+1565 (710)
Nokian	750/55-26.5	TRS LS-2	+1-1 (328)	+4¼ (108)	+1-1 (328)	+4¼ (108)	-770 (350)
Trelleborg	850/45 B30.5	Twin 423 TL	+1-9 (528)	+0-8 (208)	+1-9 (528)	+0-8 (208)	-1235 (560)

A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into one of the world's largest manufacturers 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 the world.

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 an extensive dealer sales and service network in over 150 countries, we aim to deliver the best customer support in the industry.

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



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