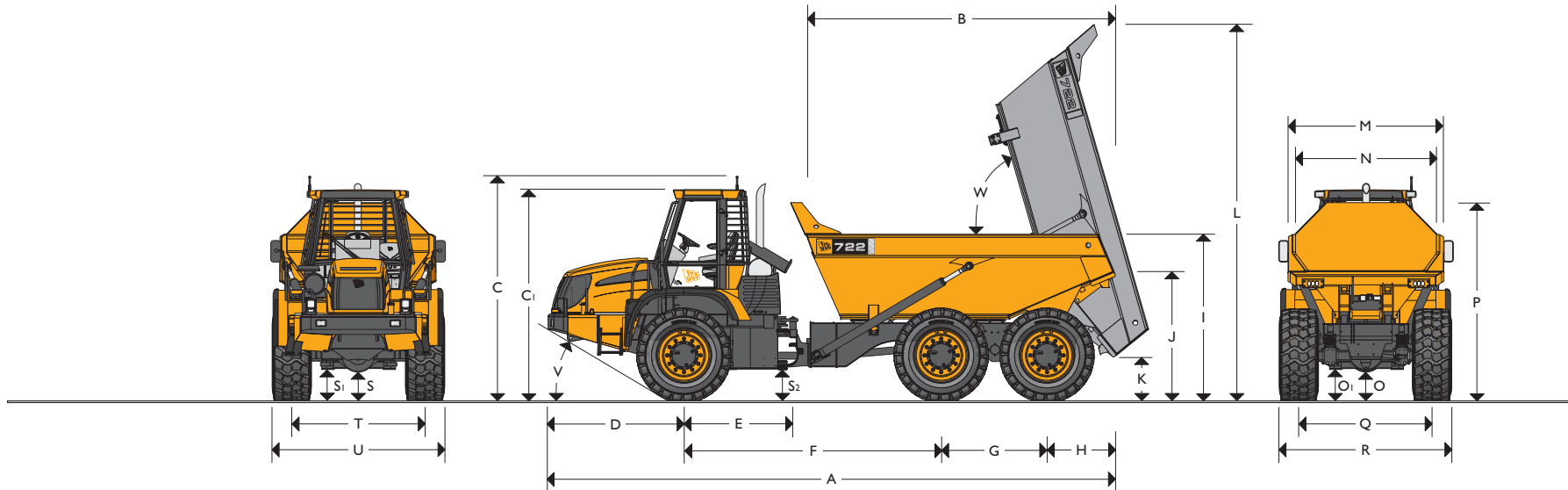




# JCB ARTICULATED DUMP TRUCK | 722



MAX. OPERATING WEIGHT: 78705lb (35.7 tons)  
 MAX. HORSEPOWER: 270hp (201 kW)



## STATIC DIMENSIONS

	ft-in (mm)		ft-in (mm)
A Overall length	30-2 (9199)	N Max. internal body width	7-7 (2342)
B Body length	12-10 (3690)	O Max. ground clearance (rear diff)	1-4 (433)
C Max. height	11-3 (3446)	O1 Max. ground clearance (rear axle)	1-7 (512)
C1 Height to top of cab	10-9 (3310)	P Height to top of spill guard	10-2 (3097)
D Front axle to front bumper	7-1 (2174)	Q Wheel track (rear)	6-10 (2122)
E Front axle to pivot point	5-2 (1575)	R Overall width	8-7 (2652)
F Wheelbase (front axle to intermediate axle)	13-9 (4245)	S Max. ground clearance (front diff)	1-4 (433)
G Wheelbase (intermediate axle to rear axle)	5-5 (1675)	S1 Max. ground clearance (front suspension arm)	1-2 (373)
H Rear axle to rear of body	3-6 (1105)	S2 Ground clearance (pivot point)	1-4 (420)
I Height to top of body	8-6 (2609)	T Wheel track (front)	6-10 (2122)
J Height to lip of body	6-7 (2033)	U Overall width	8-7 (2652)
K Min. height to body when tipped	2-0 (635)	V Departure angle (front)	degrees 30°
L Max. height to body when tipped	19-5 (5947)	W Body tip angle	degrees 74°
M Max. external body width	8-2 (2492)	Load capacity	lb (tons) 44092 (20)
		Body – heaped	yd <sup>3</sup> (m <sup>3</sup> ) 15.7 (12.0)

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

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Helping You Get the Job Done!



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## ENGINE

Type	6 cylinder direct injection diesel	
Model	QSB 6	
Capacity	in <sup>3</sup> (liters)	408 (6.7)
Bore	in (mm)	4.2 (107)
Stroke	in (mm)	4.9 (124)
Aspiration	Turbo/charge cooled	
Cylinders	6	
<b>Power rating</b>		
Max power	HP (kW) @ 2200rpm	270 (201)
Gross power to SAE J1995/ISO 14396	HP (kW) @ 2400rpm	260 (194)
Net power to SAE J1995/ISO 14396	HP (kW) @ 2400rpm	242 (182)
<b>Torque rating</b>		
Max. torque	lbf ft (Nm) @ 1500rpm	730 (990)
Net torque	lbf ft (Nm) @ 1500rpm	634 (860)

\* Emissions Relevant standards US EPA Tier3 carb Tier 3, EU Stage I I I A (complies with EU / EPA "off highway" Construction Equipment Regulation Stage 2.)

## TRANSMISSION

<b>Transmission</b>	Type	Smoothshift
	Make	ZF
	Model	6WG210
<b>Torque converter</b>	Type	Single stage
	Torque converter ratio	1.773:1

## AXLES

Type	Epicyclic hub reduction
Make	ZF
Model	AP9
Overall axle ratio	21.85

## TRAVEL SPEEDS

Assumes fitment of Michelin 20.5 R25 XADN		mph (kph)
<b>Forward</b>	First	3.75 (6.03)
	Second	5.79 (9.31)
	Third	8.89 (14.30)
	Fourth	13.61 (21.9)
	Fifth	20.07 (32.3)
	Sixth	31.07 (50)
<b>Reverse</b>	First	3.73 (6.0)
	Second	9.32 (15.0)
	Third	19.86 (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	42.3 (160)
Fuel tank	55.5 (210)
Engine oil sump	4.3 (16.3)
Transmission system	10.8 (41)
Axle oil (front)	7.7 (29)
Axle oil (intermediate)	7.7 (29)
Axle oil (rear)	7.7 (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)	0-03 (8)
Body plate thickness (side)	ft-in (mm)	0-03 (10)
Body plate thickness (bottom/chute)	ft-in (mm)	0-03 (10)
Yield strength	psi (N/mm <sup>2</sup> )	145000 (1000)
Tensile strength	psi (N/mm <sup>2</sup> )	181000 (1250)
Hardness (min)	HB	400
Body raise (laden)	seconds	13
Body lower (unladen)	seconds	11
Scow angle	degrees	25°



# JCB ARTICULATED DUMP TRUCK | 722



JCB ARTICULATED DUMP TRUCK | 722

## STANDARD EQUIPMENT

**Engine:** 6 cylinder, direct injection diesel engine. Wastegated turbocharger with charge 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 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 / 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 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 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

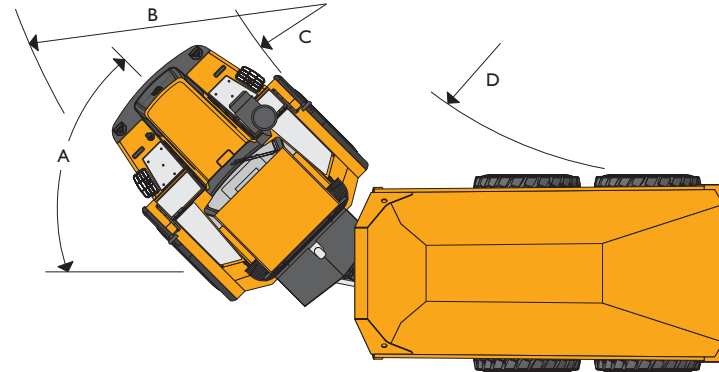
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; Smart reverse alarm; 3" seat belt; Heated body.

## OPERATING WEIGHTS

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

Includes operator (176lb. - 80kg) and a full fuel tank.

## TURNING CIRCLE



		mm (ft-in)
A	Articulation angle	degrees 45°
B	Clearance radius	34-6 (10542)
C	Turning radius (front unit)	25-9 (7890)
D	Turning radius (rear unit)	17-5 (5340)

## 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 (bar)	PSI (bar)
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	650/65R25	GP-3D	17 (118)	18 (125)	11 (78)	6 (49)	41 (2.8)	45 (3.1)
Nokian	750/55R265	TRS LS-2	15 (105)	16 (110)	10 (70)	6 (40)	29 (2.0)	33 (2.25)
Trelleborg	850/45R305	Twin 423 TL	13 (90)	14 (95)	9 (60)	5 (35)	34 (2.4)	32 (2.2)

Ground bearing pressure @ 15% sinkage.

## 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	+4 (100)	0	+4 (100)	0	+1980 (900)
Goodyear	650/65R25	GP-3D	+6.5 (164)	+1 (26)	+6.5 (164)	+1 (26)	+1565 (710)
Nokian	750/55 R26.5		+12-9 (328)	+4-25 (108)	+12-9 (328)	+4.25 (108)	-770 (350)
Trelleborg	850/45 R30.5		+20-8 (528)	+8-2 (208)	+20-8 (528)	+8-2 (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 the World's 5th largest manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheel 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 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.



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