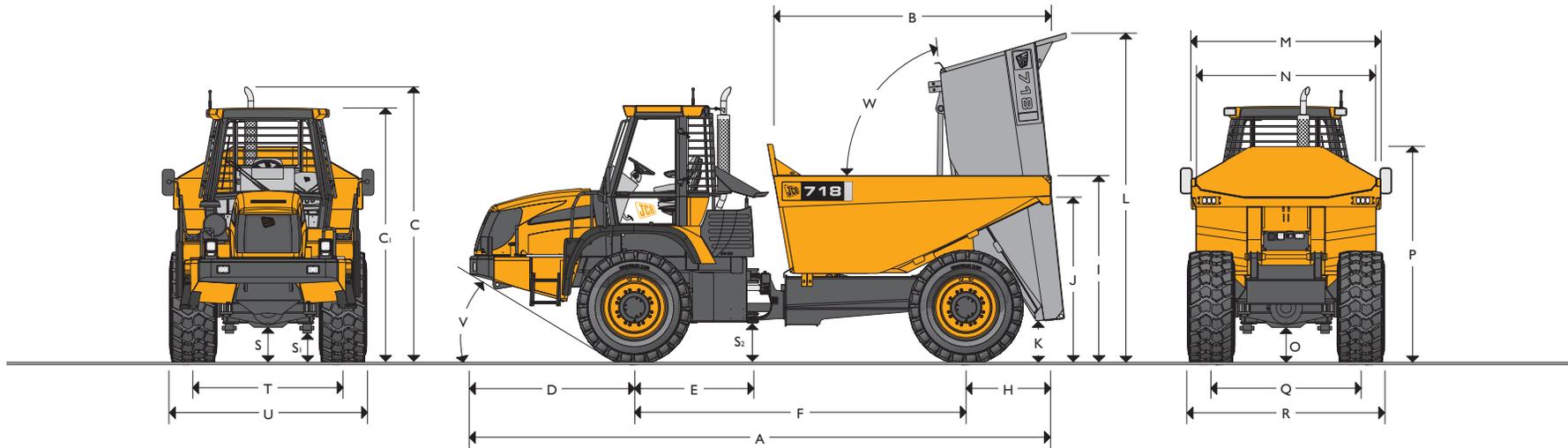




JCB ARTICULATED DUMP TRUCK | 718



MAX. OPERATING WEIGHT: 63445lb (28780kg)
 MAX. HORSEPOWER: 177hp (132kW)



STATIC DIMENSIONS

	ft-in (mm)
A Overall length	24-7 (7524)
B Body length	12-3 (3745)
C Max. height	11-7 (3560)
C ₁ Height to top of cab	10-6 (3240)
D Front axle to front bumper	7-1 (2174)
E Front axle to rear of front unit	5-1 (1575)
F Wheelbase (front axle to rear axle)	13-8 (4220)
H Rear axle to rear bumper	3-7 (1130)
I Height to top of body	7-8 (2380)
J Height to lip of body	7-0 (2130)
K Min. height to body when tipped	1-5 (470)
L Max. height to body when tipped	14-8 (4505)
M Max. external body width	8-2 (2502)
N Max. internal body width	7-8 (2370)

		ft-in (mm)
O Max. ground clearance (rear diff)		1-4 (430)
P Max. body height to spill guard		9-2 (2790)
Q Wheel track (rear)		6-4 (1948)
R Overall width (rear)		8-6 (2607)
S Max. ground clearance (front diff)		1-4 (430)
S ₁ Max. ground clearance (front suspension arm)		1-0 (310)
S ₂ Ground clearance		1-4 (420)
T Wheel track (front)		6-4 (1948)
U Overall width		8-5 (2607)
V Departure angle (front)	degrees	30
W Body tip angle	degrees	84
Load capacity	lb/tonnes	36000 (16.33)
Body – heaped	yd ³ (m ³)	12.56 (9.6)

Overall dimensions based on an unladen machine equipped with Michelin 650/65 R25 XAD tires.

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ENGINE

Type	4 stroke, direct injection	
Model	Cummins 6BTAA	
Capacity	in ³ (litres)	360 (5.9)
Bore	in (mm)	4 (102)
Stroke	in (mm)	4.75 (120)
Aspiration	Turbocharged/charge cooled	
Cylinders	6	
Power rating		
Max. power	HP (kW) @ 2000rpm	177 (132)
Gross power to SAE J1995/ISO 14396 (Rated)	HP (kW) @ 2200rpm	173 (129)
Net power to SAE J1995/ISO 14396 (Rated)	HP (kW) @ 2200rpm	168 (125)
Torque rating		
Max. torque	lbf ft (Nm) @ 1300rpm	580 (786)
Net torque	lbf ft (Nm) @ 1300rpm	551 (748)

TRANSMISSION

Transmission	Type	Smoothshift
	Make	ZF
	Model	6WG160
Torque converter	Type	Single stage
	Torque converter ratio	1.792:1

AXLES

Type	Epicyclic hub reduction	
Make	Graziano	
Model	PRI5	
Overall axle ratio	23.538:1	
Rear axle oscillation	Fixed	

TRAVEL SPEEDS

Assumes fitment of Michelin 650/65 R25 tires		mph (kph)
Forward	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 (50.0)
Reverse	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)	Fixed	
Make	n/a	

HYDRAULICS

Steering and tipping	Pump type	Gear	
	Pump: max flow @ 2200rpm	gal/min (l/min)	30.1 (114)
	Pump: max pressure (MRV)	psi (bar)	3000 (207)
Braking	Pump type	Gear	
	Pump: max flow @ 2200rpm	gal/min (l/min)	4.6 (17.6)
	Pump: max pressure	psi (bar)	2500 (175)

SERVICE FILL CAPACITIES

	gal (liters)
Hydraulic system	42.3 (160)
Fuel tank	55.5 (210)
Engine oil sump	4.3 (16.3)
Transmission system	9.2 (35)
Axle oil (front)	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

Dump angle	degrees	84
Body plate thickness (front)	in (mm)	.02 (6)
Body plate thickness (side)	in (mm)	.02 (6)
Body plate thickness (bottom/chute)	in (mm)	.02 (6)
Yield strength	psi (N/mm ²)	145000 (1000)
Tensile strength	psi (N/mm ²)	181000 (1245)
Hardness (min)	HB	400
Body raise (laden)	seconds	12
Body lower (laden)	seconds	8
Scow angle	degrees	25



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STANDARD EQUIPMENT

Engine: 6 cylinder, direct injection diesel engine. Wastegated turbocharger, charged-air 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, twin 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.

Transmission: 6 forward and 3 reverse speed remote mount smoothshift transmission with integral lock up torque converter. Manual or automatic selection. Electrical 2/4 wheel drive selection.

Axles: Pad mounted to the front suspension and the rear chassis. Limited Slip Differential in both 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 four wheels. Electrically operated dry disc parking brakes on the driveline spring applied and hydraulically released. Brake disc guards fitted as standard.

Hydraulics: Twin gear pump system comprising main pump for priority steer and body tip, and a second pump for 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 windshield wiper. 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 panel for auxiliary switches. Cigar lighter, ashtray, 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 Hardox floor. Large target area and load retention. Two single stage double acting cylinders located within rear chassis.

OPTIONAL EQUIPMENT

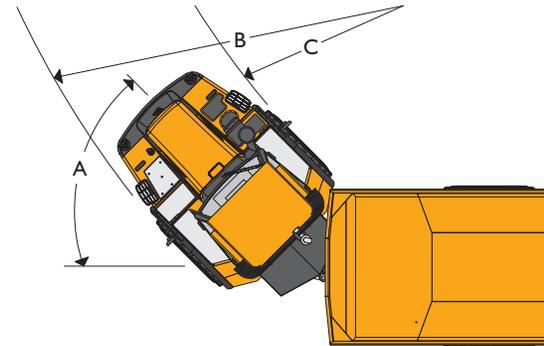
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; Smart reverse alarm; 3" seat belt; Mechanical tail gate.

OPERATING WEIGHTS

		Laden	Unladen
Front	lb (kg)	24361 (11050)	16799 (7620)
Rear	lb (kg)	39088 (17730)	10648 (4830)
Total	lb (kg)	63449 (28780)	27448 (12450)
Payload	lb (kg)	36000 (16330)	-

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

TURNING CIRCLE



		ft-in (mm)
A	Articulation angle	degrees 45
B	Clearance radius	22-6 (6900)
C	Turning radius	12-4 (3770)

CHANGES TO GROUND BEARING PRESSURES

Manufacturer	Tire Size	Type	Laden		Unladen		Tire Pressure	
			Front	Rear	Front	Rear	Front	Rear
			PSI (kPa)	PSI (kPa)				
Michelin	650/65 R25	XAD	17 (117)	27 (187)	12 (82)	7 (48)	36 (248)	58 (400)
Nokian	750/55 26.5	TRS LS-2	14 (96)	23 (158)	10 (68)	6 (41)	32.5 (224)	65 (448)
Trelleborg	850/45 B30.5	423TL	12 (83)	20 (137)	8 (55)	5 (34)	29 (200)	50 (345)
Goodyear	650/65 R25	GP-3D	16 (110)	26 (176)	11 (76)	7 (48)	32 (2.2)	54 (3.7)

Ground bearing pressure @ 15% sinkage.

CHANGES TO OPERATING DIMENSIONS

Manufacturer	Tire Size	Type	Dimensional changes				Operating weight
			U	T	R	Q	
			in (mm)	in (mm)	in (mm)	in (mm)	lb (kg)
Michelin	650/65 R25	XAD	0	0	0	0	0
Nokian	750/55 26.5	TRS LS-2	7.0 (+180)	3.5 (+90)	7.0 (+180)	3.5 (+90)	-1698 (-772)
Trelleborg	850/45 B30.5	423TL	14.5 (+380)	7.5 (+190)	14.9 (+380)	7.5 (+190)	-2156 (-980)
Goodyear	650/65 R25	GP-3D	+1.5 (37)	+0.3 (8)	+1.5 (37)	+0.3 (8)	1045 (474)



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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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JCB Headquarters Savannah, 2000 Bamford Blvd., Pooler, GA 31322. Tel: 912.447.2000. Fax: 912.447.2299. www.jcb.com

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