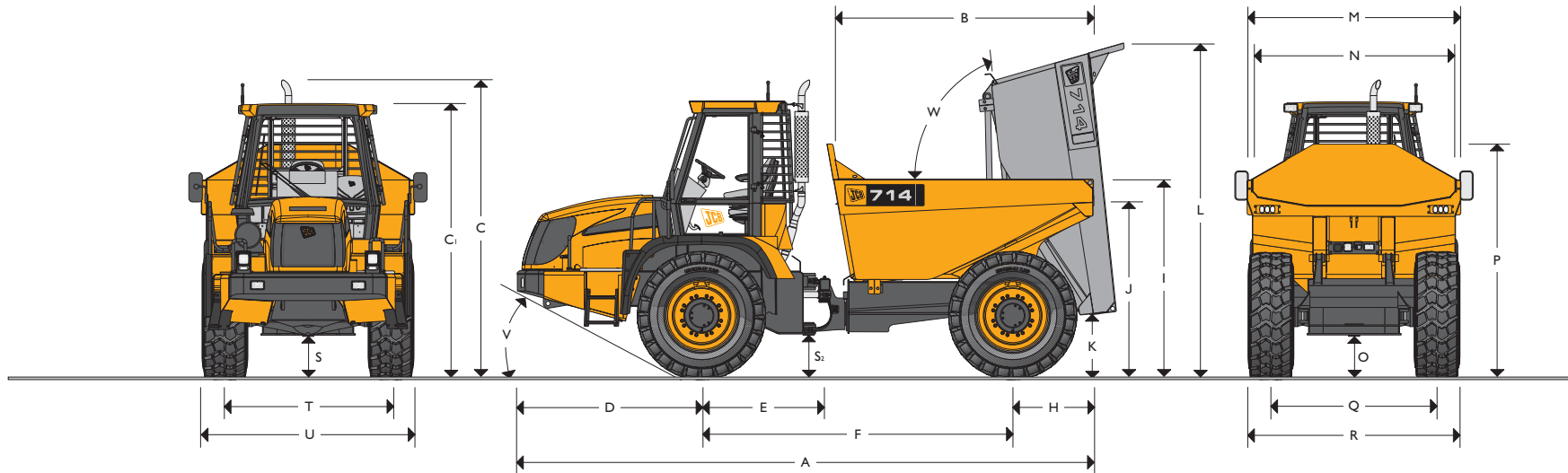




JCB ARTICULATED DUMP TRUCK | 714



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



STATIC DIMENSIONS

	ft-in (mm)
A Overall length	22-3 (6784)
B Body length	10-2 (3122)
C Max. height	11-2 (3425)
C _i Height to top of cab	10-5 (3180)
D Front axle to front bumper	7-1 (2174)
E Front axle to rear of front unit	4-1 (1250)
F Wheelbase	12-0 (3650)
H Rear axle to rear bumper	3-2 (960)
I Height to top of body	7-5 (2270)
J Height to lip of body	6-5 (1965)
K Min. height to body when tipped	2-2 (680)
L Max. height to body when tipped	12-7 (3862)
M Max. external body width	8-2 (2502)

		ft-in (mm)
N Max. internal body width		7-8 (2370)
O Max. ground clearance (rear diff)		1-6 (490)
P Max. body height to spill guard		8-8 (2682)
Q Wheel track (rear)		6-4 (1955)
R Overall width		8-2 (2500)
S Max. ground clearance (front diff)		1-5 (460)
S ₂ Ground clearance		1-4 (430)
T Wheel track (front)		6-4 (1955)
U Overall width		8-2 (2500)
V Departure angle (front)	degrees	30
W Body tip angle	degrees	84
Load capacity	lb/tonnes	28969 (13.14)
Body – heaped	yd ³ (m ³)	9.6 (7.35)

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

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ENGINE

Type	4 stroke direct injection	
Model	Cummins 6BTAA	
Capacity	in ³ (liters)	360 (5.9)
Bore	in (mm)	4 (102)
Stroke	in (mm)	4.75 (120)
Aspiration	Turbo charged/charge cooled	
Cylinders	6	
Power rating		
Gross power to SAE J1995/ISO 14396	HP (kW) @ 2200rpm	150 (112)
Net power to SAE J1995/ISO 14396	HP (kW) @ 2200rpm	143.5 (107.3)
Torque rating		
Max. torque	lbf ft (Nm) @ 1500rpm	465 (630)
Net torque	lbf ft (Nm) @ 1500rpm	451 (611)

TRANSMISSION

Transmission	Type	Smoothshift
	Make	ZF
	Model	6WG160
Torque converter	Type	Single stage
	Torque converter ratio	1.91:1

AXLES

Type	Epicyclic hub reduction
Make	Graziano
Model	PR12
Overall axle ratio	20.197:1

TRAVEL SPEEDS

Assumes fitment of Michelin 20.5 R25 tires		mph (kph)
Forward	First	3.8 (6.2)
	Second	5.8 (9.4)
	Third	8.7 (14.1)
	Fourth	12.8 (20.6)
	Fifth	17.0 (27.4)
	Sixth	24.8 (40.0)
Reverse	First	4.0 (6.5)
	Second	9.0 (14.6)
	Third	17.2 (27.7)

HYDRAULICS

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

SERVICE FILL CAPACITIES

	gal (litres)
Hydraulic system	23.2 (88)
Fuel tank	52.8 (200)
Engine oil sump	4.3 (16.3)
Transmission system	9.2 (35)
Axle oil (front)	8.7 (33)
Axle oil (rear)	8.7 (33)
Engine coolant system	7.9 (30)

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	9.7
Body lower (laden)	seconds	10.0
Scow angle	degrees	25.0



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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.

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

Axles: Pad mounted to the 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 washer. 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, 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, 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

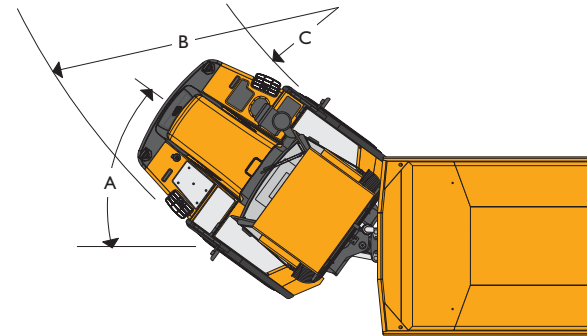
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; Smart reverse alarm; 3rd seat belt.

OPERATING WEIGHTS

		Laden	Unladen
Front	lb (kg)	19775 (8970)	14043 (6370)
Rear	lb (kg)	31240 (14170)	8311 (3770)
Total	lb (kg)	51015 (23140)	22355 (10140)
Payload	lb (kg)	28660 (13000)	-

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

TURNING CIRCLE



		ft-in (mm)
A	Articulation angle degrees	36
B	Clearance radius	23-3 (7100)
C	Turning radius	13-7 (4175)

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	16 (110)	26 (179)	12 (83)	7 (48)	31 (214)	50 (345)
Michelin	650/65 R25	XAD	14 (97)	22 (152)	10 (69)	6 (41)	31 (214)	50 (345)
Nokian	750/55 R25	TRS LS-2	12 (83)	18 (124)	8 (55)	5 (34)	22 (152)	40 (276)
Goodyear	650/65 R25	GP-3D	13 (89)	20 (141)	9 (63)	5 (37)	35 (2.4)	51 (3.5)

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	20.5 R25	XADN	0	0	0	0	0
Michelin	650/65 R25	XAD	0	- 3.3 (- 85)	0	3.3 (-85)	1338 (+608)
Nokian	750/55 R25	TRS LS-2	9.6 (+245)	0	9.6 (+245)	0	510 (-232)
Goodyear	650/65 R25	GP-3D	3.3 (+83)	-1.6 (-40)	3.3 (+83)	-1.6 (-40)	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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