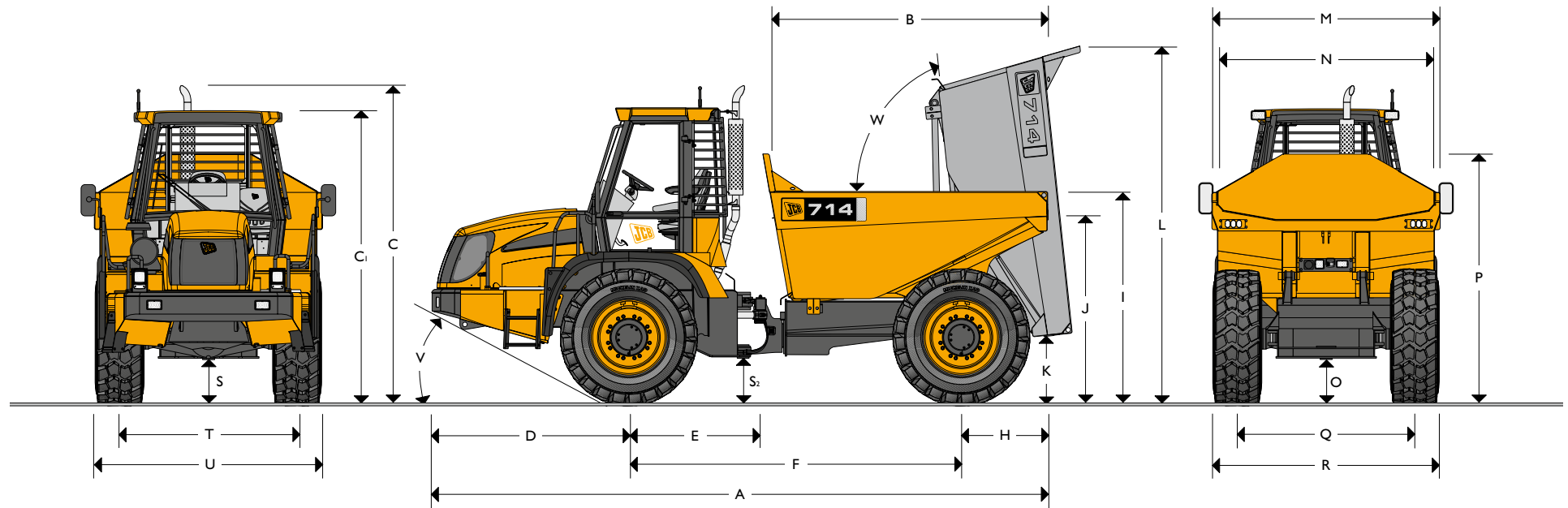


MAX. OPERATING WEIGHT: 23.14 tonnes (51015lb) MAX. HORSEPOWER: 116 kW (156hp)



STATIC DIMENSIONS

	mm (ft-in)		mm (ft-in)
A Overall length	6784 (22-3)	N Max. internal body width	2370 (7-8)
B Body length	3122 (10-2)	O Max. ground clearance (rear diff)	490 (1-6)
C Max. height	3425 (11-2)	P Max. body height to spill guard	2682 (8-8)
C _i Height to top of cab	3180 (10-5)	Q Wheel track (rear)	1955 (6-4)
D Front axle to front bumper	2174 (7-1)	R Overall width (rear)	2500 (8-2)
E Front axle to rear of front unit	1250 (4-1)	S Max. ground clearance (front diff)	460 (1-5)
F Wheelbase (front axle to rear axle)	3650 (12-0)	S ₂ Ground clearance	430 (1-4)
H Rear axle to rear bumper	960 (3-2)	T Wheel track (front)	1955 (6-4)
I Height to top of body	2270 (7-5)	U Overall width	2500 (8-2)
J Height to lip of body	1965 (6-5)	V Departure angle (front)	degrees 30
K Min. height to body when tipped	680 (2-2)	W Body tip angle	degrees 84
L Max. height to body when tipped	3862 (12-7)	Load capacity	tonnes/lb 13.14 (28969)
M Max. external body width	2502 (8-2)	Body – heaped	m ³ (yd ³) 7.35 (9.6)
		Body – struck	m ³ (yd ³) 5.7 (7.5)

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



ENGINE

Type	4 stroke direct injection	
Model	6BTAA	
Capacity	litres (in ³)	5.9 (360)
Bore	mm (in)	102 (4)
Stroke	mm (in)	120 (4.75)
Aspiration	Turbo charged/charge cooled	
Cylinders	6	
Power rating		
Max. power	kW (HP) @ 1900rpm	116 (156)
Gross power to SAE J1995/ISO 14396	kW (HP) @ 2200rpm	112 (150)
Net power to SAE J1349/EEC80/1269	kW (HP) @ 2200rpm	107.3 (143.5)
Torque rating		
Max. torque	Nm (lbf ft) @ 1500rpm	630 (465)
Net torque	Nm (lbf ft) @ 1500rpm	611 (451)

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 tyres		kph (mph)
Forward	First	5.7 (3.5)
	Second	8.8 (5.5)
	Third	13.5 (8.4)
	Fourth	20.9 (13.0)
	Fifth	31.4 (19.5)
	Sixth	48.0 (29.8)
Reverse	First	6.5 (4.0)
	Second	14.6 (9.0)
	Third	27.7 (17.2)

HYDRAULICS

Steering and tipping	Pump type		Gear
	Pump: max flow @ 2200rpm	l/min (UK gal/min)	114 (25)
	Pump: max pressure	bar (psi)	207 (3000)
Braking	Pump type		Gear
	Pump: max flow @ 2200rpm	l/min (UK gal/min)	17.6 (3.9)
	Pump: max pressure	bar (psi)	175 (2500)

SERVICE FILL CAPACITIES

	litres (UK gal)
Hydraulic system	88 (15.3)
Fuel tank	210 (44)
Engine oil sump	16.3 (3.58)
Transmission system	35 (7.7)
Axle oil (front)	33 (7.26)
Axle oil (rear)	33 (7.26)
Engine coolant system	30 (6.6)

ELECTRICAL SYSTEM

System voltage	Volt	24
Alternator output	Amp hour	70
Battery capacity	Amp hour	2 x 110

BODY

Tipping angle	degrees	84
Body plate thickness (front)	mm (ft-in)	6 (0-2)
Body plate thickness (side)	mm (ft-in)	6 (0-2)
Body plate thickness (bottom/chute)	mm (ft-in)	6 (0-2)
Yield strength	N/mm ² (psi)	1000 (145000)
Tensile strength	N/mm ² (psi)	1245 (181000)
Hardness (min)	HB	400
Body raise (laden)	seconds	9.7
Body lower (laden)	seconds	10.0
Scow angle	degrees	25.0

STANDARD EQUIPMENT

Engine: 6 cylinder, direct injection diesel engine. Wastegate 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, 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.

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 which includes 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. 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.

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

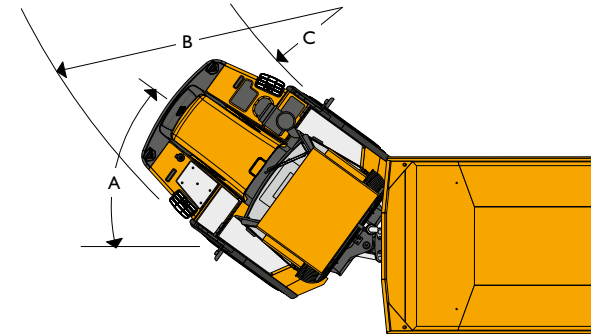
Reversing camera; Biodegradable hydraulic oil; Smart reverse alarm; 3" seat belt; Mechanical tail gate; Fire extinguisher; 24 – 12 volt in cab converter; Air suspension seat with lumbar support; Body front extension plate; Number plate kit; LiveLink telematics.

OPERATING WEIGHTS

		Laden	Unladen
Front Axle	tonnes (lb)	7.1 (15653)	9.9 (21782)
Rear Axle	tonnes (lb)	3.9 (8620)	13.8 (30402)
Total	tonnes (lb)	11.0 (24273)	23.7 (52183)

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

TURNING CIRCLE



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

CHANGES TO GROUND BEARING PRESSURES

Manufacturer	Tyre Size	Type	Unladen		Laden		Tyre Pressure	
			Front	Rear	Front	Rear	Front	Rear
			kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)
Michelin	20.5 R25	XADN	89 (13)	75 (11)	124 (18)	174 (25)	214 (31)	345 (50)
Michelin	650/65 R25	XAD	75 (11)	41 (6)	104 (15)	145 (21)	215 (31)	346 (50)
Bridgestone	650/65 R25	VLT	72 (11)	40 (6)	101 (15)	141 (20)	207 (30)	407 (59)
Nokian	750/55 R25	TRSL5-2	63 (9)	35 (5)	88 (13)	123 (18)	152 (22)	276 (40)

Ground bearing pressure @ 15% sinkage.

CHANGES TO OPERATING DIMENSIONS

Manufacturer	Tyre Size	Type	Dimensional changes				Operating weight
			U	T	R	Q	
			mm (in)	mm (in)	mm (in)	mm (in)	kg (lb)
Michelin	20.5 R25	XADN	0	0	0	0	0
Bridgestone	20.5 R25	VLT	0	0	0	0	+112 (246)
Michelin	650/65 R25	XAD	0	-85 (-3.3)	0	-85 (3.3)	+608 (1338)
Nokian	750/55 R25	TRS LS-2	+245 (9.6)	0	+245 (9.6)	0	-232 (510)

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, tractors and compaction equipment.

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 more than 650 dealers and agents, 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.

