

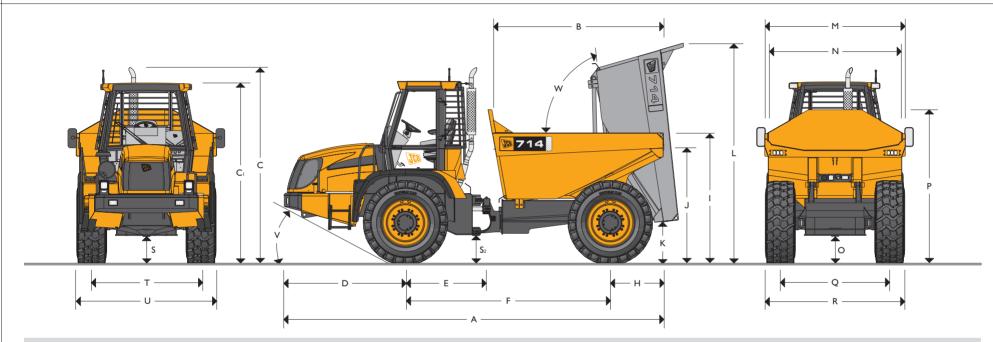


MAX. OPERATING WEIGHT:

23.14 tonnes (51015lb)

MAX. HORSEPOWER:

116 kW (156hp)



STATIC DIMENSIONS

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

			mm (ft-in)
N	Max. internal body width		2370 (7-8)
0	Max. ground clearance (rear diff)		490 (1-6)
Р	Max. body height to spill guard		2682 (8-8)
Q	Wheel track (rear)		1955 (6-4)
R	Overall width (rear)		2500 (8-2)
S	Max. ground clearance (front diff)		460 (1-5)
S ₂	Ground clearance		430 (1-4)
Т	Wheel track (front)		1955 (6-4)
U	Overall width		2500 (8-2)
٧	Departure angle (front)	degrees	30
W	Body tip angle	degrees	84
	Load capacity	tonnes/lb	13.14 (28969)
	Body – heaped	m³ (yd³)	7.35 (9.6)

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





ENGINE			
Туре		4 stroke direct injection	
Model		6BTAA	
Capacity	litres (in³)	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 J1995/ISO 14396	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	Туре	Single stage			
	Torque converter ratio	1.91:1			

AXLES		
Туре	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)				
First	6.2 (3.8)			
Second	9.4 (5.8)			
Third	14.1 (8.7)			
Fourth	20.6 (12.8)			
Fifth	27.4 (17.0)			
Sixth	40.0 (24.8)			
First	6.5 (4.0)			
Second	14.6 (9.0)			
Third	27.7 (17.2)			
	of Michelin 20.5 R25 tyres First Second Third Fourth Fifth Sixth First Second			

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	200 (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 115	

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/mm² (psi)	1000 (145000)		
Tensile strength	N/mm² (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 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 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. 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

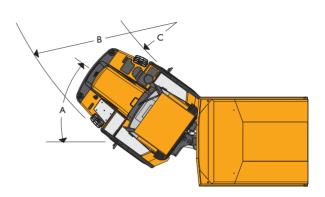
Reversing camera; Heated seat and mirrors; Biodegradable hydraulic oil; Smart reverse alarm; 3" seat belt; Mechanical tail gate; Greedy boards; Window etching; Spacetrac.

OPERATING	WEIGHTS

		Laden	Unladen
Front	tonnes (lb)	8.97 (19775)	6.37 (14043)
Rear	tonnes (lb)	14.17 (31240)	3.77 (8311)
Total	tonnes (lb)	23.14 (51015)	10.14 (22355)
Payload	tonnes (lb)	13.00 (28660)	_

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

TURNING CIRCLE



			mm (ft-in)
Α	Articulation angle	degrees	36
В	Clearance radius		7100 (23-3)
С	Turning radius		4175 (13-7)

CHANGES TO GROUND BEARING PRESSURES

Manufacturer	Tyre Size Typ	Type	Lac	den	Unladen		Tyre Pressure	
r ianulacturei		Type	Front	Rear	Front	Rear	Front	Rear
			kPa (PSI)	kPa (PSI)				
Michelin	20.5 R25	XADN	110 (16)	179 (26)	83 (12)	48 (7)	214 (31)	345 (50)
Bridgestone	20.5 R25	VLT	110 (16)	179 (26)	83 (12)	48 (7)	207 (30)	407 (59)
Michelin	650/65 R25	XAD	97 (14)	152 (22)	69 (10)	41 (6)	214 (31)	345 (50)
Nokian	750/55 R25	TRS LS-2	83 (12)	124 (18)	55 (8)	34 (5)	152 (22)	276 (40)

Ground bearing pressure @ 15% sinkage.

CHANGES TO OPERATING DIMENSIONS

Manufacturer	Tyre Size	Туре		Operating			
rianulacturer			U	Т	R	Q	weight
			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 and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in Europe.

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.



JCB cares for the environment. This paper has been produced without the use of elemental chlorine chemicals in the bleaching process.

JCB Sales Limited, Rocester, Staffordshire ST I4 5JP. Tel: 01889 590312. Fax: 01889 590588. Web: http://www.jcb.co.uk

JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories. The JCB logo is a registered trademark of JC Bamford Excavators Ltd.

Œ

9999/4965 10/03