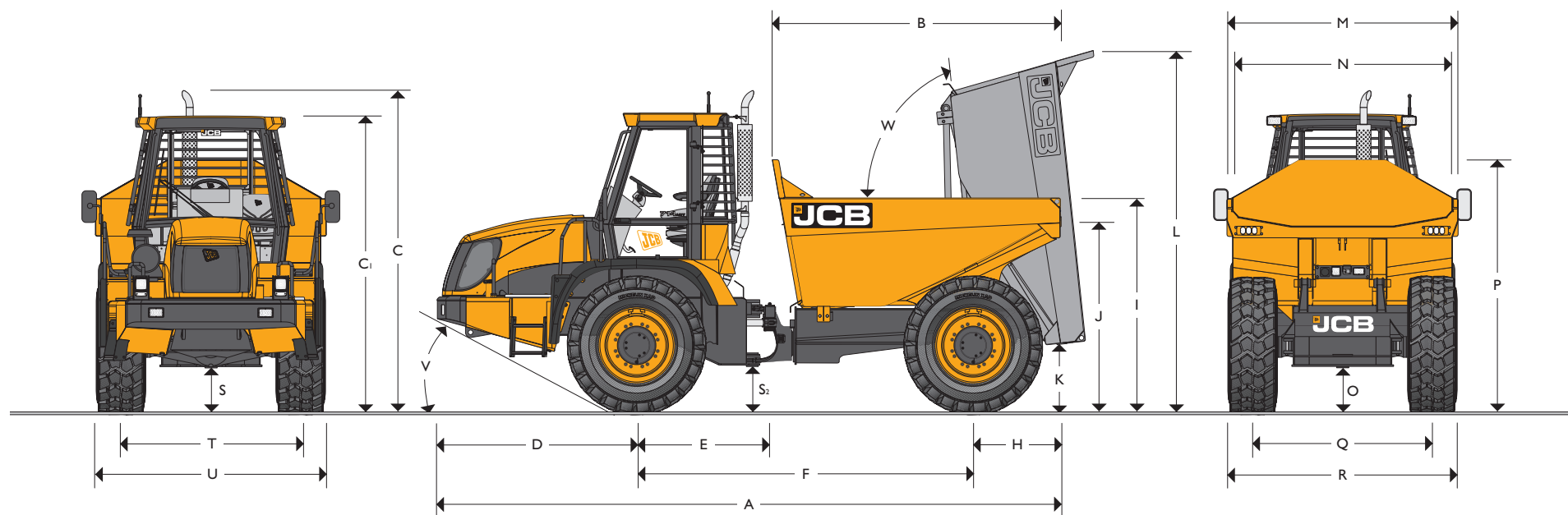


MAX. OPERATING WEIGHT: 23.14 tonnes (51015lb)    MAX. HORSEPOWER: 116 kW (156hp)



### STATIC DIMENSIONS

	mm (ft-in)
A Overall length	6780 (22-3)
B Body length	3122 (10-2)
C Max. height	3425 (11-2)
C <sub>i</sub> Height to top of cab	3180 (10-5)
D Front axle to front bumper	2167 (7-1)
E Front axle to rear of front unit	1250 (4-1)
F Wheelbase (front axle to rear axle)	3653 (12-0)
H Rear axle to rear of body	960 (3-2)
I Height to top of body	2276 (7-5)
J Height to lip of body	1988 (6-6)
K Min. height to body when tipped	700 (2-4)
L Max. height to body when tipped	3887 (12-9)
M Max. external body width	2502 (8-2)

		mm (ft-in)
N Max. internal body width		2370 (7-8)
O Max. ground clearance (rear diff)		457 (1-6)
P Max. body height to spill guard		2688 (8-9)
Q Wheel track (rear)		1955 (6-4)
R Overall width (rear)		2500 (8-2)
S Max. ground clearance (front diff)		457 (1-6)
S <sub>2</sub> Ground clearance		425 (1-5)
T Wheel track (front)		1955 (6-4)
U Overall width (front)		2500 (8-2)
V Departure angle (front)	degrees	26.5
W Body tip angle	degrees	84
Load capacity	tonnes/lb	13.14 (28969)
Body – heaped	m <sup>3</sup> (yd <sup>3</sup> )	7.35 (9.6)
Body – struck	m <sup>3</sup> (yd <sup>3</sup> )	5.7 (7.5)

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

## ENGINE

Type	6 cylinder direct injection diesel	
Model	QSB 6.7	
Capacity	litres (in³)	6.7 (409)
Bore	mm (in)	107 (4.25)
Stroke	mm (in)	124 (4.75)
Aspiration	Turbo charged/charge cooled	
Cylinders	6	
<b>Power rating</b>		
Max. power	kW (HP) @ 2000 rpm	123 (165)
Gross power to SAE J1995/ISO 14396	kW (HP) @ 2200 rpm	119 (160)
Net power to SAE J1349/EEC80/1269	kW (HP) @ 2200 rpm	114 (153)
<b>Torque rating</b>		
Max. torque	Nm (lbf ft) @ 1400 rpm	732 (540)
Net torque	Nm (lbf ft) @ 1400 rpm	710 (524)

## TRANSMISSION

<b>Transmission</b>	Type	Smoothshift
	Make	ZF
	Model	6WG160
<b>Torque converter</b>	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		<b>kph (mph)</b>
<b>Forward</b>	First	5.5 (3.4)
	Second	8.5 (5.3)
	Third	12.9 (8.0)
	Fourth	19.6 (12.2)
	Fifth	28.6 (17.8)
	Sixth	41.5 (25.8)
<b>Reverse</b>	First	5.8 (3.6)
	Second	13.6 (8.5)
	Third	30.0 (18.6)

## HYDRAULICS

<b>Steering and tipping</b>	Pump type	Gear	
	Pump: max flow @ 2200rpm	l/min (UK gal/min)	114 (25)
	Pump: max pressure	bar (psi)	207 (3000)
<b>Braking</b>	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

	<b>litres (UK gal)</b>
Hydraulic system	150 (33)
Fuel tank	211 (46)
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)

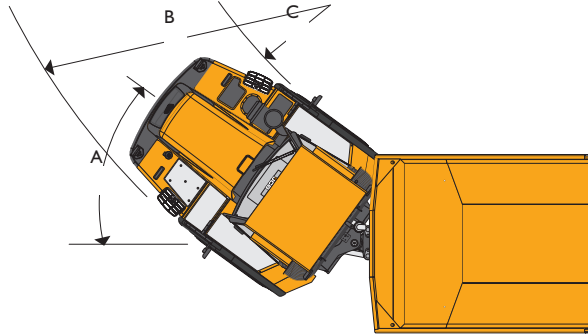
## ELECTRICAL SYSTEM

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/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

### TURNING CIRCLE



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

### OPERATING WEIGHTS

		Unladen	Laden
Front Axle	tonnes (lb)	7.26 (16012)	10 (22079)
Rear Axle	tonnes (lb)	3.67 (8088)	13.7 (30199)
Total	tonnes (lb)	10.91 (24100)	23.7 (52278)

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

### CHANGES TO GROUND BEARING PRESSURES

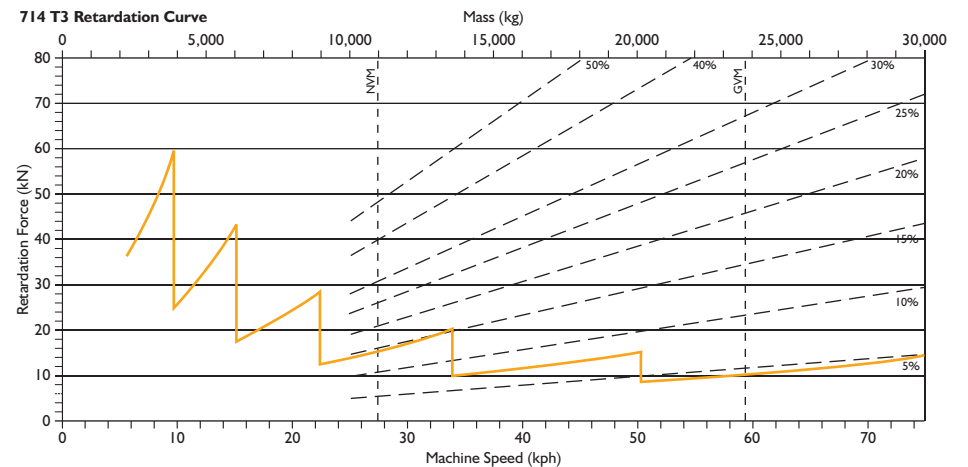
Manufacturer	Tyre Size	Type	Unladen		Laden		Tyre Pressure	
			Front	Rear	Front	Rear	Front	Rear
			kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)	kPa (PSI)
Michelin	20.5 R25	XADN	91 (13)	46 (7)	126 (18)	172 (25)	214 (31)	345 (50)
Michelin	650/65 R25	XAD	76 (11)	39 (6)	105 (15)	144 (21)	215 (31)	346 (50)
Goodyear	650/65 R25	GP-3D	72 (10)	36 (5)	99 (14)	136 (20)	240 (35)	350 (48)
Nokian	750/55 R25	TRSL5-2	65 (9)	33 (5)	89 (13)	122 (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
Goodyear	650/65 R25	GP-3D	+83 (3.3)	-40 (1.6)	+83 (3.3)	-40 (1.6)	+600 (1323)
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)

### RETARDATION CURVE



## 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.

**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. 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.

