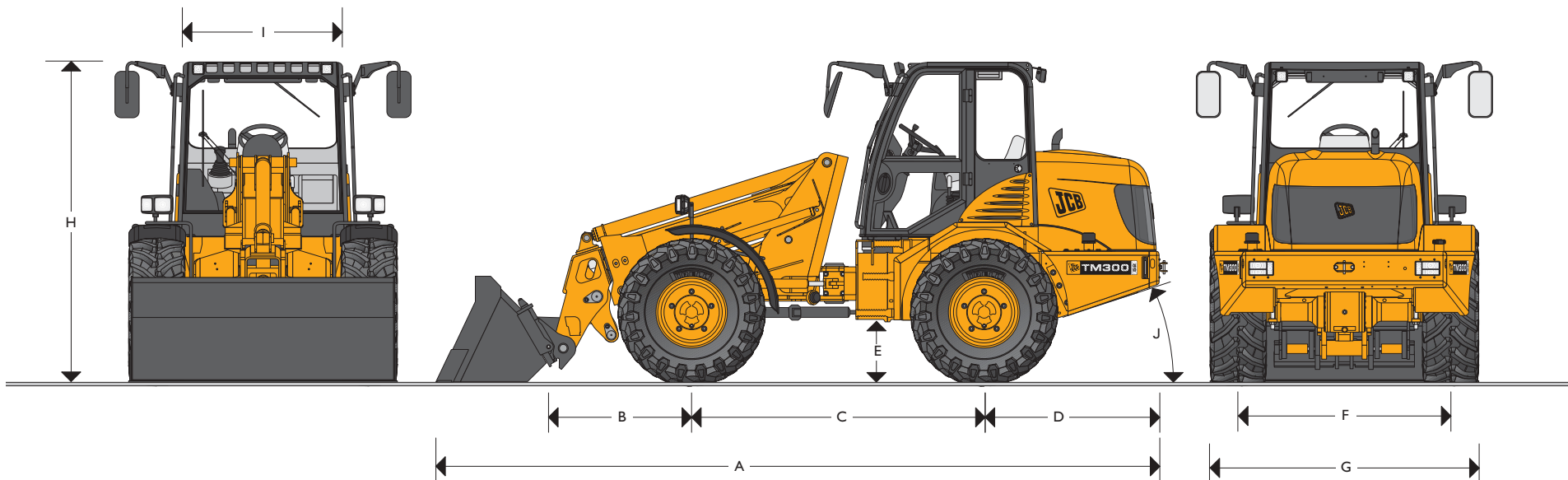




JCB FARM MASTER LOADER | TM300-52



MAX. ENGINE POWER: 90.5kW (121hp)
MAX. LIFT HEIGHT: 5215mm (17ft-1in)
MAX. CAPACITY: 3000kg (6615lb)



STATIC DIMENSIONS

		mm (ft-in)
A	Overall length with standard shovel	6630 (21-8)
B	Front axle to quick hitch at ground	1280 (4-2)
C	Wheelbase	2500 (8-2)
D	Rear axle to counterweight face	1490 (4-9)
E	Ground clearance	440 (1-4)
F	Track width	1840 (6-0)
G	Width over tyres	2280 (7-5)
H	Height over cab	2690 (8-8)
I	Cab width	1400 (4-6)
J	Departure angle	degrees 34
	Front axle weight	kg (lb) 2930 (6461)
	Rear axle weight	kg (lb) 5130 (11311)
	Operating weight*	kg (lb) 8060 (17772)

Maximum radius over tyres	mm (ft-in)	4430 (14-5)
Minimum radius	mm (ft-in)	2150 (7-1)
Articulation angle	degrees	± 43°
Bucket mounting		Quickhitch (Pin & Cone)
Bucket type		General purpose
Bucket capacity (heaped)	m³ (yd³)	1.0 (1.3)
Bucket equipment		Teeth or toeplate
Bucket width	mm (ft-in)	2310 (7-6)
Bucket weight without wear parts	kg (lb)	320 (705)
Max. material density	kg/m³ (lb/yd³)	1800 (3035)
Straight tipping load – boom retracted	kg (lb)	4230 (9325)
Full turn tipping load – boom retracted	kg (lb)	3260 (7187)
Max. tearout force	kN (lbf)	33.94 (7630)

Loader dimensions: assumes fitment of 17.5x24 XM27 Michelin tyres and a standard GP 1.0m³ shovel.

*Includes 80kg operator, full fuel tank, aux tank, air conditioning and SRS.



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ENGINE

Type	4 cylinder diesel	
Make	JCB	
Model	1104C-44TA	
Capacity	ltr (in³)	4.4 (269)
Bore	mm (in)	105 (4.13)
Stroke	mm (in)	127 (5)
Aspiration	Turbocharged/charge cooled	
Cylinders	4	
Power rating		
Gross power to SAE J1995/ISO 14396	kW (HP) @ 2200rpm	90.5 (121.4)
Nett power to SAE J1349/EEC 80/1269	kW (HP) @ 2000rpm	82.5 (110)
Torque rating		
Gross torque	Nm (lbf ft) @ 1400rpm	434 (320)
Nett torque	Nm (lbf ft) @ 1400rpm	390 (288)
Noise (external)	LpW dB	107

TRANSMISSION

Type	4 speed powershift		
Make	JCB		
Model	PS750		
		F	R
1 Gear	kph (mph)	6 (3.8)	6 (3.8)
2 Gear	kph (mph)	10.8 (6.8)	10.8 (6.8)
3 Gear	kph (mph)	19.7 (12.3)	19.7 (12.3)
4 Gear	kph (mph)	34.8 (21.8)	34.8 (21.8)

AXLES

Type	Epicyclic, Max-trac	
Make	JCB	
Model	PD70	
Overall axle ratio / Drop box ratio	1.37:1	

ELECTRICAL SYSTEM

System voltage	Volt	12
Alternator output	Amp hour	100
Battery capacity	Amp hour	115

WHEELS AND TYRES

Options available: Goodyear 15.5/80 24 10 ply, Goodyear 460/70 24 10 ply, Michelin XM27 17.5LR24, Michelin XM27 19.5LR24, Michelin XM37 500/70 R24.

LOADER HYDRAULICS

Pump type	Twin gear	
Pump max. flow @ 2350rpm	l/min (UK gal/min)	120 (26.4)
Pump max. pressure	bar (lb/in²)	230 (3336)

SERVICE FILL CAPACITIES

Transmission system	litres (UK gal)	19 (4.18)
Hydraulic system	litres (UK gal)	110 (24)
Fuel tank	litres (UK gal)	100 (22)
Engine oil sump	litres (UK gal)	10.7 (2.35)
Axle oil (front and rear)	litres (UK gal)	20 (4.4)
Engine coolant system	litres (UK gal)	20 (4.4)
Optional fuel tank	litres (UK gal)	50 (11)

STANDARD EQUIPMENT

Engine: 4 cylinder, 4.4 litre, direct injection water-cooled Perkins Vista Stage II compliant diesel engine.

Transmission: JCB Powershift transmission with integral torque converter.

Axles: Pad mounted JCB epicycle hub reduction drive axle with Max-Trac torque proportioning differentials.

Steering: 45 degree articulation steering with double acting hydrostatic system. Priority steer valve. Emergency steering via internal hydraulic system in case of power failure.

Brakes: Service Brake: Dual circuit, Servo assisted hydraulic activated, self adjusting, oil immersed in board multi disc type in the front axle. Providing braking on all wheels.

Parking Brake: Hand operated disc brake on output shaft of gearbox.

Hydraulics: Twin fixed displacement gear pump. A load sensing valve block is fitted as standard. Single lift ram incorporating hose burst check vales with twin compensation rams. Single external extension ram.

Cab: Rear centrally mounted ROPS and FOPS safety structure. Fully adjustable mechanical suspension seat. Adjustable steering column. Full analogue instrumentation including engine & transmission temperature, fuel and speedo. Audible /visual warning panel. Tinted laminated safety glass. Front & rear screen wash / wipe. 3 speed heater with replaceable air filter. LH & RH opening doors. Adjustable single lever hydraulic boom control console. Column mounted single lever transmission selector. Combination stalk controls for lights, wipers, horn, direction indicators. Separate side console for auxiliary switches. Cigar lighter, ashtray, interior light, external rear view mirrors, and operator's storage facilities. Fire extinguisher as standard.

Electrical: IP67 & IP69 electrical fittings as appropriate.

Boom: Centrally mounted single stage boom constructed from high tensile steel incorporating low maintenance hard wearing pads and waxoil lubricant. Boom extension is a single U shape pressing for maximum strength incorporating Z-bar linkage.

Bodywork: Axle brake guard, diesel and hydraulic tanks mounted to the rear chassis. Recovery hitch, lifting lugs, engine access cover. Easily accesible cooling pack.

OPTIONAL EQUIPMENT

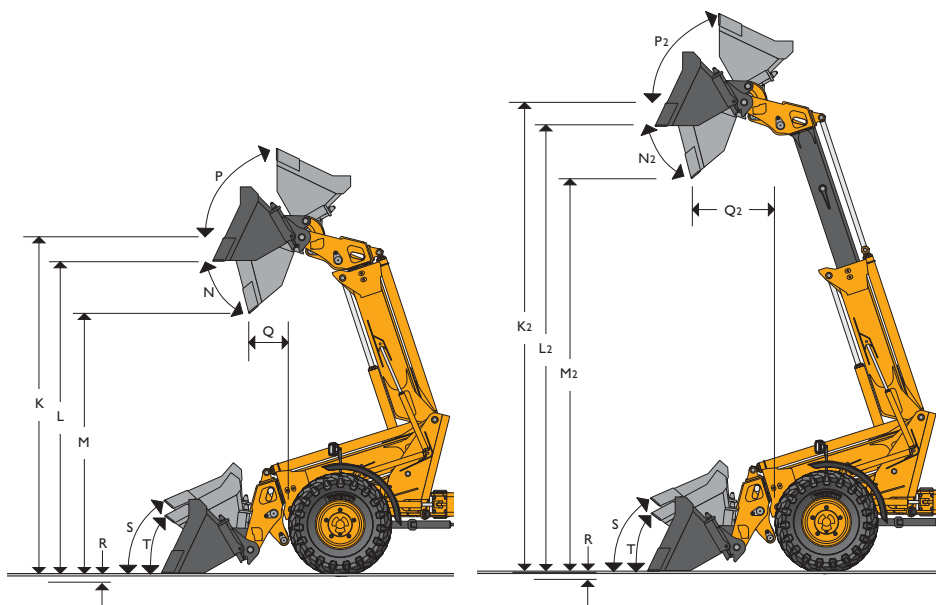
Limited slip differential axles front/rear; Air conditioning; Pre cleaner; Smooth ride system; Air suspension seat; Auxiliary circuit; Additional front and rear working lights; Loader boom light; Face level fan; Reverse alarm; Sun visor; Biodegradable oil; Sliding door window (LH & RH); Range of shovel and fork options; Battery isolator; Quickhitch isolator; Servo cut off (outside of cab); Hydraulic tow hitch with electrics and hydraulics; Servo mounted F/R selector.



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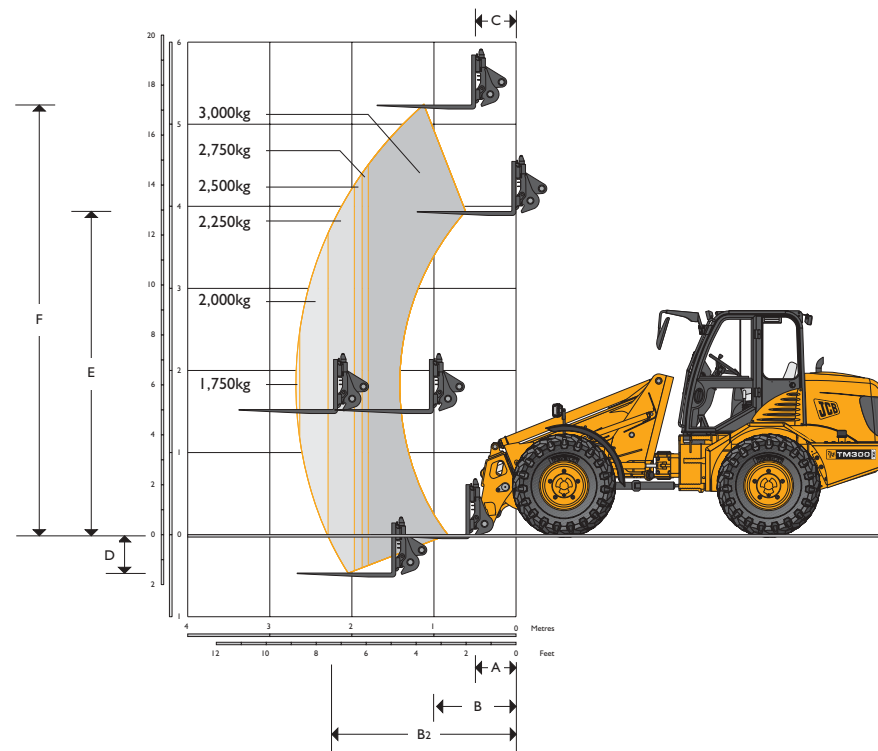
LOADER DIMENSIONS



Loader dimensions: assumes fitment of 17.5x24 XM27 Michelin tyres and a standard GP 1.0m³ shovel.

		Quickhitch (Pin & Cone)
K	Max. pin height (retracted)	mm (ft-in) 4102 (13-5)
L	Load over height (retracted)	mm (ft-in) 3905 (12-8)
M	Dump height (40° dump retracted)	mm (ft-in) 2795 (9-2)
N	Max. dump angle (retracted)	degrees 40
P	Roll back angle at full height (retracted)	degrees 130
Q	Max. reach (40° dump retracted)	mm (ft-in) 546 (1-8)
K2	Max. pin height @ max extension	mm (ft-in) 5440 (17-8)
L2	Load over height @ max extension	mm (ft-in) 5215 (17-1)
M2	Dump height (40° dump) @ max extension	mm (ft-in) 4105 (13-5)
N2	Max. dump angle @ max extension	degrees 40
P2	Roll back angle at full height @ max extension	degrees 130
Q2	Max. reach (40° dump) max extension	mm (ft-in) 1092 (3-6)
R	Dig depth	mm (ft-in) 87 (0-3.5)
S	Roll back at carry	degrees 41
T	Roll back at ground level	degrees 36.5

FORK DIMENSIONS



Loader dimensions: assumes fitment of 17.5x24 XM27 Michelin tyres and standard industrial fork frame and forks.

	Quickhitch (Pin & Cone)
	mm (ft-in)
Fork carriage width	1120 (3-7)
Length of tines	1200 (3-9)
A	Reach at ground level (retracted)
B	Max. forward reach (retracted)
B2	Max. forward reach (extended)
C	Reach at max. height (extended)
D	Below ground level (extended)
E	Height – boom retracted
F	Max. height

*All reach measurements to quickhitch face. Forks at 500mm centres.



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.

