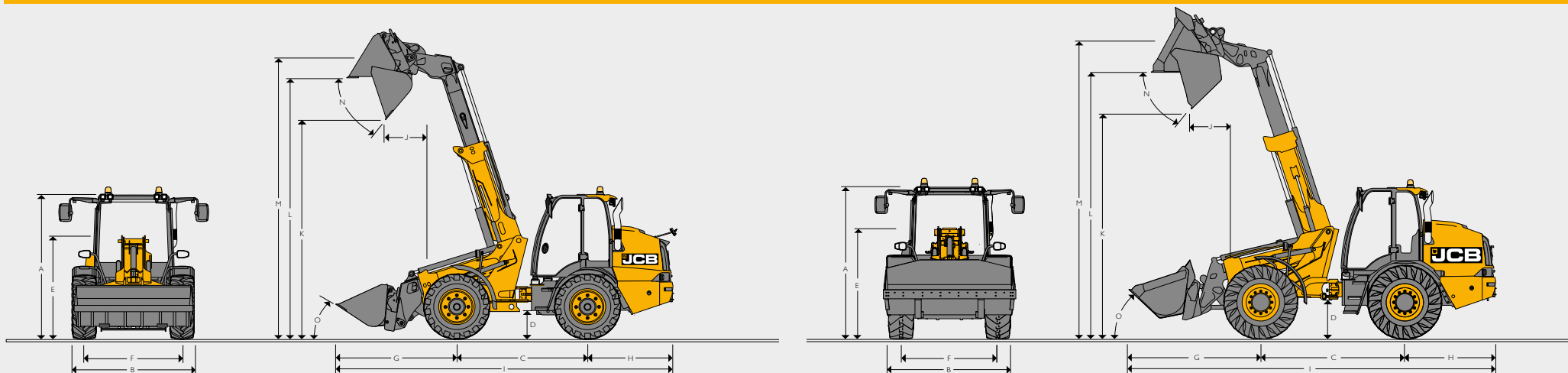


STATIC DIMENSIONS



Machine model		TM320	TM320S	TM420	TM420S
A	Height over cab (no wiper)	mm	2721	2856	2856
A	Height over cab (inc wiper)	mm	2791	2926	2926
B	Overall width (over tyres)	mm	2350	2350	2350
C	Wheelbase	mm	2550	2758	2758
D	Ground clearance to bottom of axle	mm	420	466	466
E	Height to top of boom pivot	mm	1835	1975	1975
F	Wheel track	mm	1870	1860	1860
G	Front axle to shovel toe plate	mm	1627	2532	2532
H	Rear axle to counterweight face	mm	2143	1721	1721
I	Total length (GP shovel at carry)*	mm	6322	7011	7011
J	Dump reach at full height	mm	933	735	735
K	Dump height	mm	4511	4411	4411
L	Load over height	mm	5182	5064	5064
M	Pin height	mm	5367	5661	5661
N	Max dump angle at full height	degrees	39	39	39
O	Roll back angle at carry	degrees	41	43	43
	Total length to front of hitch	mm	5886	5829	5829
	Inside turning radius to tyres	mm	2001	3880	3880
	Outside turning radius over tyres	mm	4350	5060	5060
	Outside turning radius over shovel	mm	4633	5680	5680
	Articulation angle	deg	+/- 43	+/- 40	+/- 40
	Operating weight (Ref tyre, hitch)	kg	8142	9779	9779
	Front axle weight	kg	2352	3048	3048
	Rear axle weight	kg	5790	6731	6731
	Tyres used for specifications	XMCL 460/70R24		XMCL 480/80R26	
	Shovel used for specifications	1.0m3 Q-Fit		1.6m3 Q-Fit	
	Hitch used for specifications	Q-Fit		Q-Fit	

*Please note total length: machine fitted with standard bucket – boom fully down, shovel crowded fully back.

ENGINE					
Machine model		TM320	TM320S	TM420	TM420S
Manufacturer		JCB	JCB	JCB	JCB
Model		Dieselmax	Dieselmax	Dieselmax	Dieselmax
Capacity	litres	4.8	4.8	4.8	4.8
Aspiration		Turbocharged, Intercooled	Turbocharged, Intercooled	Turbocharged, Intercooled	Turbocharged, Intercooled
Number of cylinders		4	4	4	4
Power rating					
Gross power	kW (hp)	97 (130)	112 (150)	112 (150)	129 (173)
Torque rating vvv					
Gross torque	Nm	550	600	600	690

TRANSMISSION							
Machine model		TM320 (40kph)	TM320S (40kph)	TM320S (50kph)	TM420 (40kph)	TM420S (40kph)	TM420S (50kph)
Type		Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
Manufacturer		JCB	JCB	JCB	JCB	JCB	JCB
Model		PS900	PS900	PS900	PS900	PS900	PS900
Fwd / rev ratios		8 / 4	8 / 4	8 / 4	8 / 4	8 / 4	8 / 4
Torque lock		Fwd gears 5 - 8	Fwd gears 1 - 8, Rev gears 1 - 4	Fwd gears 1 - 8, Rev gears 1 - 4	Fwd gears 5 - 8	Fwd gears 1 - 8, Rev gears 1 - 4	Fwd gears 1 - 8, Rev gears 1 - 4
Max. travel speed	kph	40	40	50	40	40	50
Engine rpm at max travel speed	rpm	1900	1900	2380	1900	1900	2380

AXLES & BRAKES						
Machine model	TM320 (40kph)	TM320S (40kph)	TM320S (50kph)	TM420 (40kph)	TM420S (40kph)	TM420S (50kph)
Type	Epicyclic hub reduction	Epicyclic hub reduction	Epicyclic hub reduction	Epicyclic hub reduction	Epicyclic hub reduction	Epicyclic hub reduction
Manufacturer	JCB	JCB	JCB	JCB	JCB	JCB
Model	PD70	PD70	PD70	PD87	PD87	PD87
Overall axle ratio	12.49	12.49	12.49	13.875	13.875	13.875
Chassis oscillation angle	degrees ± 10°	± 10°	± 10°	± 10°	± 10°	± 10°
Inboard oil immersed brakes	Front axle	Front axle	Front & rear axle	Front & rear axle	Front & rear axle	Front & rear axle
Brake system	Single circuit	Single circuit	Dual circuit	Single circuit	Single circuit	Dual circuit
Park brake	Mechanical lever	Mechanical lever	Electrical switch	Mechanical lever	Mechanical lever	Electrical switch

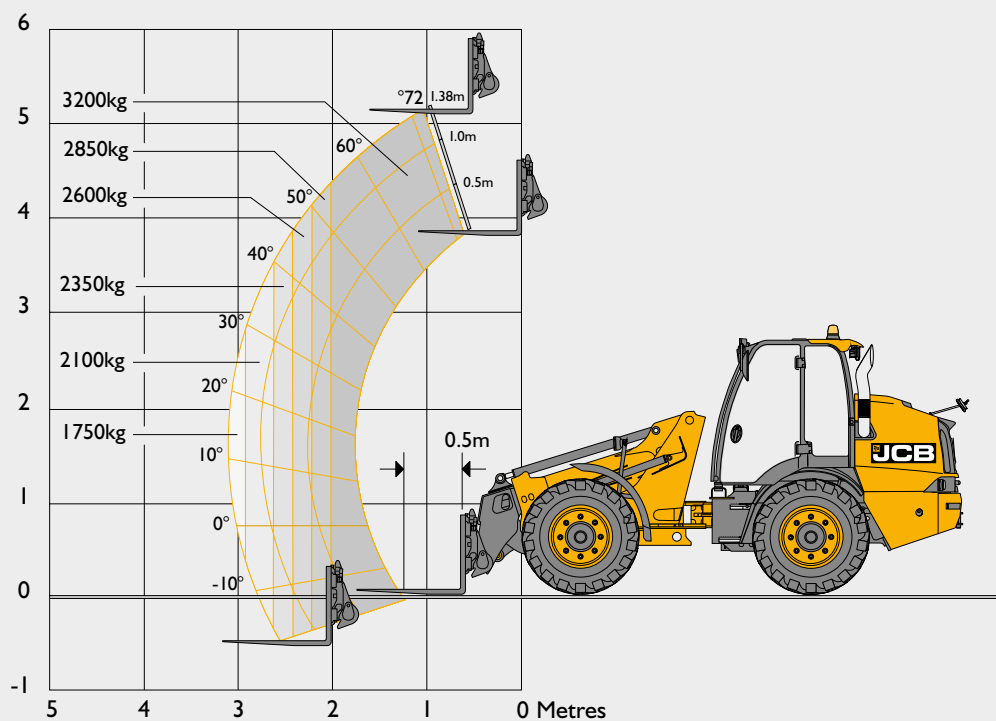
NOISE AND VIBRATION				
			Uncertainty	Measurement conditions
Noise at the operator station	LpA	73 dB	+/- 1 dB	Determined in accordance with the test method defined in ISO 6396 and the dynamic test condition defined on 2000/14/EC.
Noise emission from the machine	LWA	104 dB	+/- 1 dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.
Whole body vibration	m/s²	0.39	+/- 0.11 dB	ISO 2631-1:1997 normalised to an 8h reference period and based upon a test cycle comprising of loader work (soil).
Hand-arm vibration	m/s²	<2.5	N/A	ISO 5349-2:2001 dynamic test conditions.

LOADER PERFORMANCE - FORK FRAME WITH FORKS

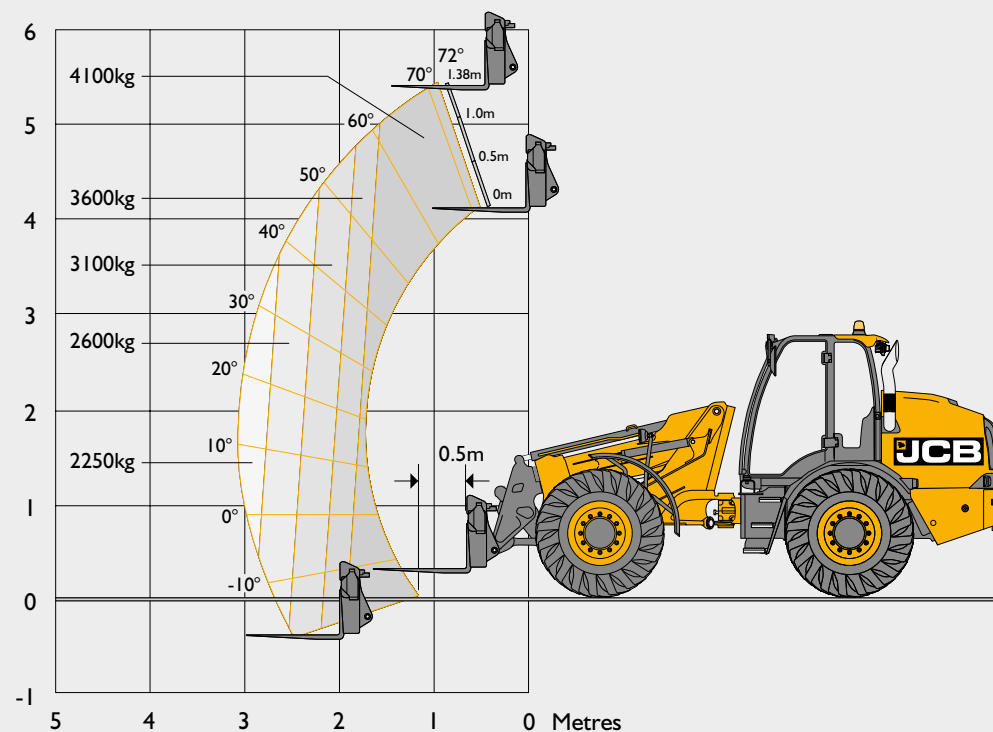
Machine model		TM320	TM320S	TM420	TM420S
Lift capacity to full height forks	kg	3200	3200	4100	4100
Lift capacity at full reach	kg	1750	1750	2250	2250
Lift height - forks	mm	5200	5200	5450	5450
Max forward reach - forks at 500mm	mm	2950	2950	3050	3050
Straight tipping load forks at 500mm load centre*	kg	5262	5262	6670	6670
FTTL forks at 500mm load centre*	kg	4052**	4052**	5200**	5200**
FTTL payload forks at 80% of FTTL	kg	3242**	3242**	4160**	4160**
FTTL payload forks at 60% of FTTL	kg	2431**	2431**	3120**	3120**
Breakout force - Shovel	kg	6260	6260	7200	7200

** Straight and Full Turn Tipping Load with forks and direct mount to Pin and Cone carriage to EN474 (ISO 14397)

TM320 / TM320S



TM420 / TM420S



HYDRAULICS					
Machine model		TM320	TM320S	TM420	TM420S
Pump type		Variable displacement piston pump		Variable displacement piston pump	
Pump capacity	l/min	63cc/rev	72cc/rev	72cc/rev	100cc/rev
Max flow	l/min	140	160	160	160
Engine rpm req. for max flow	rpm	2380	2380	2380	1700
max pressure	bar	230	230	260	260
Aux circuit rated flow	l/min	90	90	100	100
Engine rpm req. for Aux rated flow	rpm	1600	1600	1700	1200
Hydraulic cycle times					
Raise	seconds	5.9	5.5	5.1	5.1
Lower	seconds	6	6	4.7	4.7
Extend	seconds	3.4	3.4	3.6	3.6
Retract	seconds	2.6	2.6	3.5	3.5
Dump	seconds	2.8	2.8	2.9	2.9
Crowd	seconds	2.8	2.8	3.4	3.4

ELECTRICAL SYSTEM					
Machine model		TM320	TM320S	TM420	TM420S
System voltage	Volt	12	12	12	12
Alternator output	Amp Hour	170	170	170	170
Battery type		Twin batteries		Twin batteries	
Battery capacity	Amp Hour	2 x 610CCA, 62Ah		2 x 610CCA, 62Ah	

FLUID CAPACITIES			
Machine model		TM320 / TM320S	TM420 / TM420S
Hydraulic tank	litres	97	97
Fuel tank	litres	160	160
Engine sump	litres	14	14
Front axle	litres	20	25
Rear Axle	litres	20	25
Drop box	litres	1.3	1.3
DEF	litres	29	29
Transmission	litres	19	19

TM420 / TM420S TYRE OPTIONS					
Manufacturer	Size	Type	Application	Dimensional changes	
				Overall height (mm)	Width over tyres (mm)
Michelin	480/80R26	XMCL	AG	0	0
Michelin	480/80R26	BIBLOAD	AG/EM	+8	0
Michelin	620/70R26	CEREXBIB	AG	+7	+201
Michelin	17.5R25	XHA	EM	-54	-19
Michelin	17.5R25	XSNOPLUS	EM	-60	-19
Nokian	17.5R25	LOADER GRIP TL	EM	-42	-20
JCB	17.5R25	EARTHMOVER	EM	-23	-22

TM320 / TM320S TYRE OPTIONS					
Manufacturer	Size	Type	Application	Dimensional changes	
				Overall height (mm)	Width over tyres (mm)
Mitas	445/70R24	AC70G MPT	AG	-1	-22
Michelin	440/80R24	XMCL	AG	+30	-82
Michelin	460/70R24	XMCL	AG	0	0
Michelin	500/70R24	XMCL	AG	+24	+38
Michelin	15.5R25	XHA	EM	-5	-86
Michelin	15.5R25	XTLA	EM	-9	-86
Michelin	460/70R24	BIBLOAD	AG/EM	-4	0
Michelin	500/70R24	BIBLOAD	AG/EM	+19	+54
Alliance	460/70R24	AGRO-INDUSTRIAL R-4	AG	+5	-61
Alliance	500/70R24	AGRO-INDUSTRIAL R-4	AG	+32	+48

STANDARD/OPTIONAL EQUIPMENT

Machine model	TM320	TM320S	TM420	TM420S	Machine model	TM320	TM320S	TM420	TM420S
ENGINE AND COOLING					CAB				
130hp JCB DieselMax Engine	•	×	×	×	ROPS/FOPS safety structure	•	•	•	•
150hp JCB DieselMax Engine	×	•	•	×	B-post mounted membrane switches	•	•	•	•
173hp JCB DieselMax Engine	×	×	×	•	Fully adjustable mechanical seat	•	•	•	•
Cyclonic air filter	•	•	•	•	Air suspension seat	+	+	+	+
Air intake scavenge system	•	•	•	•	Super deluxe heated air suspension half leather seat	+	+	+	+
Widecore cooling pack	•	•	•	•	LED Interior lights	•	•	•	•
Auto reversing fan	+	+	+	+	Tilt and telescopic steering column	•	•	•	•
					Adjustable joystick control console and armrest	•	•	•	•
TRANSMISSION / AXLES					Front and rear wash / wipe	•	•	•	•
8 speed Powershift transmission	•	•	•	•	3 speed heater fan	•	•	•	•
Lock-up torque converter in gears 1 - 8	×	•	×	•	Air conditioning	+	+	+	+
Lock-up torque converter in gears 5 - 8	•	×	•	×	RH opening window with lock back	•	•	•	•
40kph travel speed	•	•	•	•	LH opening door with door lock back	•	•	•	•
50kph travel speed	×	+	×	+	LH Sliding window	+	+	+	+
Transmissions disconnect on footbrake	•	•	•	•	Single lever joystick controls	•	•	•	•
Forward / reverse controls on joystick	•	•	•	•	Loader control isolator	•	•	•	•
Column mounted transmission selector	•	•	•	•	External rear view mirrors	•	•	•	•
In board oil immersed disc brakes	•	•	•	•	Front and roof screen blinds	•	•	•	•
Limited slip differentials front and rear	•	•	•	•	Fire extinguisher	+	+	+	+
					Additional storage box	+	+	+	+
HYDRAULICS					Toolbox	+	+	+	+
Servo controls	•	•	•	•	Mechanical park brake	•	•	•	•
Flow sharing hydraulics	•	•	•	•	Electric park brake	×	+	×	+
Proportional boom and auxiliary controls	•	•	•	•	Mobile phone cradle	+	+	+	+
Adjustable constant flow hydraulics	•	•	•	•					
Variable displacement piston pump	•	•	•	•	CHASSIS AND BODYWORK				
Priority steer valve	•	•	•	•	Articulated steering	•	•	•	•
Hose burst check valves	•	•	•	•	Centre pivot oscillation	•	•	•	•
JCB Adaptive Load Control	•	•	•	•	Plastic front and rear fenders	•	•	•	•
JCB Smoothride system	+	+	+	+	Fixed bottom step	•	•	•	•
Biodegradable hydraulic oil	+	+	+	+	Full width rear counterweight	•	•	•	•
					Recovery hitch	•	•	•	•
					Prop shaft guard	•	•	•	•
					Grease gun and cartridge	+	+	+	+
					Deluxe exterior mirrors	+	•	•	•
					Hydraulic tow hitch (8000kg)	+	+	+	+
					Rockinger hitch (15000kg)	+	+	+	+
					Rear electrics	+	+	+	+
					Trailer braking single line	+	+	+	+
					Trailer braking twin line	+	+	+	+
					Rear auxiliary	+	+	+	+
					Rear belly guards	+	+	+	+

STANDARD/OPTIONAL EQUIPMENT									
Machine model	TM320	TM320S	TM420	TM420S	Machine model	TM320	TM320S	TM420	TM420S
ELECTRICAL					LOADER				
LED road lights rear	•	•	•	•	Centre mounted single stage telescopic boom	•	•	•	•
LED road lights front	+	+	+	+	Parallel lift	•	•	•	•
Reverse lights	•	•	•	•	End damping on boom lower, extend and retract	•	•	•	•
Battery isolator	•	•	•	•	Pin and Cone carriage	+	+	+	+
Direction indicators	•	•	•	•	JCB Q-fit carriage	+	+	+	+
Rotating beacon	+	+	+	+	Industrial carriage	+	+	+	+
Twin beacons	+	+	+	+	Electrical in cab quickhitch pin isolation	•	•	•	•
LED front and rear worklights	+	+	+	+	3/4" Auxiliary couplers	X	X	+	+
LED boom worklights	+	+	+	+					
Twin reverse light kit	+	+	+	+	ATTACHMENTS				
Reverse foglight kit*	+	+	+	+	Grain shovel 4.0m ³	X	X	+	+
LiveLink telematics	•	•	•	•	Grain shovel 2.7m ³	+	+	+	+
LED 360 degree worklights	+	+	+	+	Muck grab 2.4m ³	X	X	+	+
LED tow hitch light	+	+	+	+	GP shovel 1.0m ³	+	+	X	X
12v in-cab power socket	•	•	•	•	GP shovel 1.6m ³	X	X	+	+
Reverse camera with colour screen	•	•	•	•	Pallet forks 1067mm	+	+	+	+
Auxiliary venting	•	•	•	•	Pallet forks 1200mm	+	+	+	+
Reverse alarm	•	•	•	•					
White noise reverse alarm	+	+	+	+					
Multi-media port (USB and 3.5mm)	•	•	•	•					
Bluetooth radio	+	+	+	+					
Roof wiper	+	+	+	+					
Step lighting	•	•	•	•					
Walk-me-home lighting	•	•	•	•					
Heated front screen*	+	+	+	+					
Programmable smart key	•	•	•	•					
Automatic boom worklights	+	+	+	+					
Automatic rear worklights	•	•	•	•					
Automatic tow hitch light	+	+	+	+					
*Not Tractor Homologated									

STANDARD •

OPTIONAL +

NOT AVAILABLE X

NB. Regional variations may apply to standard and optional equipment