

TELESCOPIC WHEEL LOADER | TM320/TM320S

Gross power: TM320: 93kW (125hp); TM320S: 108kW (145hp), Lift capacity: 2,900kg, Lift height: 5,200mm





STRENGTH YOU CAN RELY ON.

THE TM320 AND TM320S
HAVE BEEN DESIGNED AND
BUILT FROM SCRATCH TO
DELIVER THE STRENGTH
AND POWER YOU'RE
LOOKING FOR IN AN
ARTICULATED MACHINE.
NO COMPROMISE.

Proven reliability.

- 1 We stress test across a lifetime of cycles to emulate the most arduous digging and dump situations. It's your guarantee of performance over thousands of hours.
- The centrally mounted lift, tilt and extension rams eliminate boom twisting, and are held in place by centrally-mounted keyhole castings for even greater structural integrity.
- At JCB, we make our own hydraulic cylinders, cabs, axles, transmissions and engines all designed to work in perfect harmony for optimum reliability.
- 4 To provide long-term protection, we dip every cab and various bodywork panels in electrophoretic alloy before painting it.









Designed to work hard.

- A heavy-duty centre joint takes both vertical and horizontal loadings for maximum durability and rigidity.
- The TM320 and TM320S tough, inverted U-shaped boom pressing features fully welded closing plates for ultimate strength, and is mounted into a heavy-duty loader tower.
- The cast rear counterweight helps prevent impact damage. Recessed rear lights mounted above the counterweight are well protected.
- The hydraulic hoses are routed within the main boom structure to guard against damage.

Widecore cooling pack with optional hydraulic reversing fan removes built-up debris. The reverse fan can be set to manual or automatic at the flick of a switch.









THE **POWER** TO PERFORM.

THE CLASS LEADER WHEN IT COMES TO LIFT CAPACITY AND TEAROUT FORCE, COMBINED WITH 5.2M LIFT HEIGHT, 2.9M FORWARD REACH AND THE SUPERB JCB ECOMAX ENGINE. THERE'S NOTHING THE TM320 AND TM320S CAN'T HANDLE.

JCB EcoMAX engine.

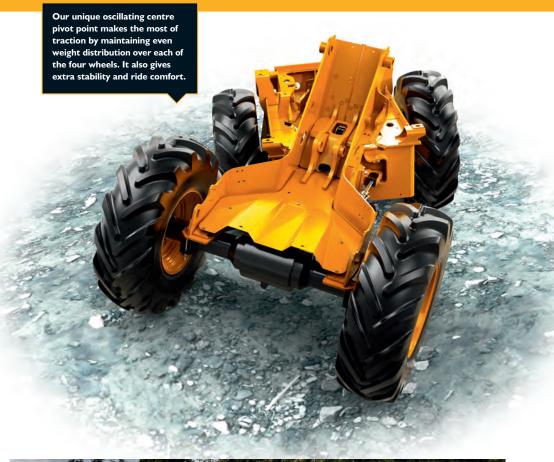
These machines feature our EcoMAX Tier 4 Final/Stage IV engine with variable geometry turbo, giving increased performance at low engine speed for improved cycle times and tractive effort. This 4.4 litre engine delivers a massive 550 Nm torque at low engine speeds for optimum response. For even greater performance, the TM320S is fitted with a 4.8 litre 108kW (145hp) EcoMAX Tier 4 Final/Stage IV engine.

Traction and travel.

- The JCB TM320 and TM320S gives you ultimate traction and performance in soft, muddy ground, thanks to optional limited slip differentials and 4WD as standard.
- Auto Smoothride System (SRS) engages at speeds of over 4mph/6kph. This improves load retention and comfort (and, in turn, productivity) when travelling at speed on roads and fields. The system can be manually engaged with the boom in any position. The SRS system is easily operated via a rocker switch. It can be auto-engaged by travel speed or constantly activated.





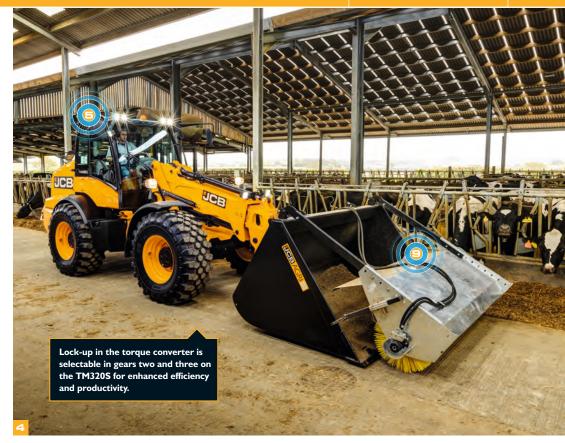




Hydraulics and versatility.

- ☐ The ability to change flow rate on-the-go is perfect for straw spreader or sweeper use, while the second boom auxiliary option caters for a wide range of twin auxiliary attachments.
- 360 degree cab mounted and boom LED worklight options optimise visibility at night or in other darkened operating areas such as outbuildings, making 3am look like 3pm. There is also a useful optional LED hitch light available to maximise productivity in limited visibility.
- an additional benefit of the TM's articulated steering is the built-in sideshift which makes it easier to position attachments and place loads accurately.

- Our optional hydraulic rear tow hitch further increases machine versatility whilst its fold-up design prevents impact damage and grounding when working on gradients or uneven ground.
- The foot brake features a selectable transmission dump for superb multi-functioning control and increased engine speeds during loading or rehandling.
- The TM320's variable flow auxiliary hydraulics are easy to use, designed to maximise productivity and efficiency. This flow sharing system with a variable flow piston pump also allows for multiple functions to be performed at the same time, reducing cycle times.







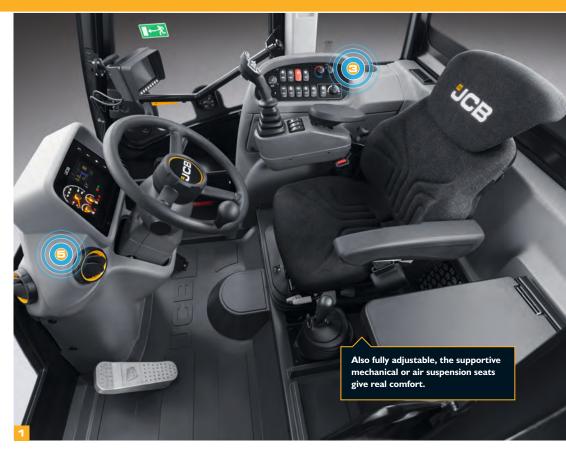


IN CONTROL, IN COMFORT.

THE TM320 AND TM320S MAKE LIFE EASIER. FIRST OF ALL, THEY'RE EASY TO OPERATE THANKS TO ERGONOMIC, INTUITIVE CONTROLS AND INTELLIGENT FEATURES. SECONDLY, THEY PROVIDE A COMFORTABLE ENVIRONMENT TO WORK IN, MAKING OPERATORS MORE PRODUCTIVE.

At your command.

- 1 From the high, centrally mounted driving position you're in complete control, with a low boom pivot and large glass areas giving an unhampered 360° view.
- Constant flow hydraulics are intuitive to use, with an in-cab display of the flow rate which can be adjusted on the go.
- Manual and Automatic transmission modes put the operator in control of increased transmission performance.
- For ergonomic, fast and precise control, the TM320 and TM320s are fitted with a fully proportional single lever mounted servo joystick controls. Joystick-mounted manual gear changes means you can shift gears, speed and direction quickly and easily with one ergonomic control. The TM320 and TM320S also benefit from automatic gear change.
- Our new HVAC system keeps operators comfortable and focused for longer, the 3-speed fan heater can help create the perfect working temperature all year round. The optional air conditioning makes it even easier to find the best working temperature.







Sitting comfortably.

- 6 The cab is large and roomy with plenty of storage for home comforts and work essentials.
- Boom end damping on lower and extend/retract reduces shock to the operator and the machine itself.
- An LED colour dashboard relays useful information such as efficient running and fuel consumption figures, as well as displaying Diesel Exhaust Fluid (DEF) levels as well as in-cab daily checks. Constant flow hydraulics are intuitive to use, with the in-cab display of the flow rate, which can be adjusted on the go.
- Backlit switches ensure quick and accurate control recognition, even in the dark.













SERVICING MADE EASY.

THE TM320 AND TM320S ARE LOW MAINTENANCE AND EASY TO SERVICE, WHICH MEANS LESS DOWNTIME, AND MORE WORKING AND EARNING TIME. THEY'RE ALSO DESIGNED FOR CONSUMMATE SAFETY, PROTECTING BOTH YOU AND YOUR INVESTMENT.

Maintenance made easy.

1 Many competitor machines require a diesel particulate filter (DPF) to meet Tier 4 Final legislation. Instead, our machines use a sealed-for-life SCR system. The diesel & DEF (Diesel Exhaust Fluid) tanks are easily accessible as well as all daily check points which can all be carried out from ground level.

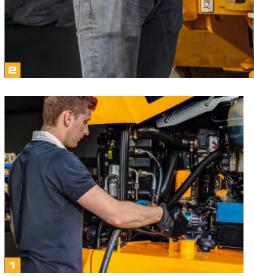
The wide-core single-faced cooling pack delivers maximum performance and lets small materials pass through. An optional reversing fan is available to allow simple and easy cleaning of the cooling pack.

A cyclonic air cleaner reduces debris build up in the air filter while an air intake scavenge system removes debris, extending service intervals.

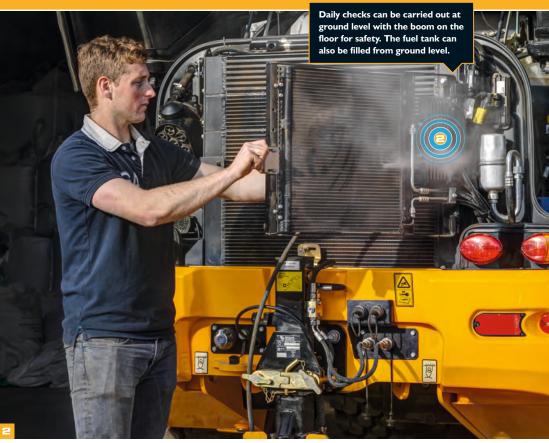
The TM320's wide-opening rear bonnet gives clear access to service points, grease points are easily accessible and no tools are required to access the battery.

The TM320's self-lubricating boom wear pads and dry boom lubrication provides virtually maintenance-free operation. All greasing points have been extended to 500 hour intervals, courtesy of our graphite impregnated bronze bushes.









Keeping you safe.

- Access steps are inclined and equally spaced, complemented by well positioned grab handles for three points of contact at all times.
- Hose burst check valves on the rams prevent collapse if a hose fails.
- The low boom profile and low boom pivot make for superb forward visibility.
- Adaptive Load Control technology automatically controls hydraulic operation, helping to maintain the longitudinal stability of these machines.
- Our in-cab, electronic 2-stage quickhitch isolation protects against accidental release of attachments.

- In order to protect your investment, the TM320 and TM320s are available with JCB LiveLink telematics for real time vehicle tracking as standard.
- Our optional rear-view camera displays an unobstructed rearward view on the in-cab colour monitor onboard your TM320 or TM320S.









A SMART INVESTMENT.

WHEN YOU OWN A JCB, YOU OWN A MACHINE THAT'S RENOWNED FOR HAVING HIGH RESIDUAL VALUES AROUND THE WORLD. COMBINED WITH EFFICIENT DESIGN THAT SAVES YOU MONEY, IT'S A REAL BUSINESS ASSET.

EcoMAX saves you money.

1 JCB's innovative Clean Burn technology helps our engines to meet Tier 4 Final/Stage IV regulations without exhaust after- treatments like DPFs. This means, of course, that costly DPF regeneration or costly replacement is never a worry.

Instead, the TM320 and TM320S uses a sealed-for life Selective Catalytic Reduction (SCR) system. Among the numerous benefits of this setup is the fact that there's no loss of productivity due to DPF regeneration.

The TM320 and TM320s are fitted with Torquelock in 4th, 5th and 6th gears for greater speed, quicker journey times between the farm and field and reduced fuel consumption when roading.







EcoMAX saves you money (cont.)

- 3 By producing high levels of power and torque even at engine speeds as low as 1300-1400rpm, EcoMAX can provide fuel-efficient matching of transmission and hydraulics.
- 4 Both the 93kW (125hp) and 108kW (145hp) JCB EcoMAX engines are fitted with a variable speed cooling fan that automatically reacts to ambient temperatures, adjusting fan speed to maximise fuel efficiency and in-cab noise.
- High back-off power brakes reduce viscous drag during roading and rehandling, which improves fuel economy.
- ☐ The TM320's load-sensing hydraulics only consume power on demand, conserving fuel.











LIVELINK, WORK SMARTER.

JCB LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MONITOR AND MANAGE YOUR MACHINES REMOTELY — ONLINE, BY EMAIL OR BY MOBILE PHONE.

Productivity and cost benefits -

Machine location information can improve fleet efficiency and you may even enjoy reduced insurance costs courtesy of the added security that LiveLink brings.

* Note: Please consult your local dealer for Livelink availability



Maintenance benefits – Accurate hours monitoring, maintenance history records, critical machine alerts and service alerts improve maintenance planning.

Security benefits – Real-time geofencing lets you set operating zones and curfew alerts that tell you when your machinery outside of pre-determined times. Location information helps you store machines safely.

VALUE ADDED.

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



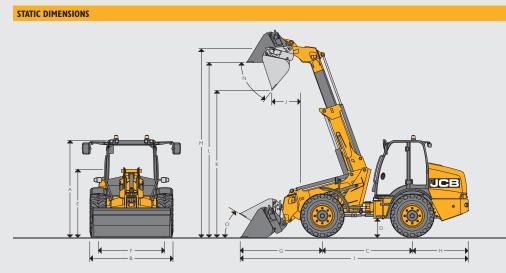


Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.

Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.



CTA.	TIC DIMENSIONS		
A	Overall height	mm	2703
В	Overall width (over tyres)	mm	2350
С	Wheelbase	mm	2550
	Ground clearance		472
D		mm	1835
E	Height to top of boom pivot	mm	
F	Wheel track	mm	1870
G	Axle to shovel toe plate	mm	1627
Н	Axle to counterweight face	mm	2143
-	Total length*	mm	6322
J	Dump reach	mm	933
K	Dump height	mm	4511
L	Load over height	mm	5182
Μ	Pin height	mm	5367
Ν	Maximum dump angle	degrees	39
0	Roll back at carry	degrees	41
	Total length to front of hitch	mm	5886
	Inside radius	mm	2001
	Outside radius (edge of tyre)	mm	4350
	Outside radius (over shovel)	mm	4633
	Articulation angle	degrees	±43°
	Operating weight	kg	8160
	Front axle weight	kg	2730
	Rear axle weight	kg	5470
	Tyres used for specifications		Michelin XMCL 460/70R24
	Bucket used for specification		I m³ GP
	Hitch used for specification		Pin & Cone

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

ENGINE			
Machine model		TM320	TM320S
Manufacturer		JCB	JCB
Model		EcoMAX	EcoMAX
Capacity	ltr	4.4	4.8
Bore	mm	103	106
Stroke	mm	132	135
Aspiration		Turbocharged/charge cooled	Turbocharged/charge cooled
Number of cylinders		4	4
Power rating			
Gross power to SAE J 1995/ISO 14396	kW (hp)	93 (125) @ 2200 rpm	108 (145) @ 2200 rpm
Net power to J1349/EEC 80/12	kW (hp)	86 (115) @ 2200rpm	101 (135) @ 2200 rpm
Torque rating			
Gross torque	Nm	550 @ 1500 rpm	560 @ 1500 rpm

TRANSMISSION					
Machine model	TM320	TM320S			
Туре	Powershift	Powershift			
Make	JCB	JCB			
Model	PS760 - 6 Speed	PS760 - 6 Speed			
Max travel speed kph	40	40			

AXLES					
Machine model		TM320	TM320S		
Туре		Epicyclic hub reduction	Epicyclic hub reduction		
Make		JCB	JCB		
Model		Max-Trac	Max-Trac		
Overall axle ratio/ drop box ratio		13.71	13.71		
Chassis angle oscillation	degrees	±10°	±10°		
Maximum travel speed	kph	40	40		

BRAKES		
Machine model	TM320	TM320S
Service brakes	In board oil immersed brakes	In board oil immersed brakes
Parking brake	Cable operated disc brake on transmissions output shaft	Cable operated disc brake on transmissions output shaft

NOISE AND VIBRATION					
			Uncertainty	Measurement conditions.	
Noise at the operator station	LpA	73 dB	+/- I 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	107 dB	+/- I dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.	
Whole body vibration	m/s ²	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/s ²	< 2.5	N/A	ISO 5349-2:2001 dynamic test conditions.	

SERVICE FILL CAPACITIES			
Machine model		TM320	TM320S
Hydraulic tank & transmission	litres	97	97
Fuel tank	litres	160	160
Engine oil sump	litres	14	14
Axle oil (front) including hubs	litres	20	20
Axle oil (rear) including hubs	litres	20	20
Drop box	litres	1.3	1.3
DEF	litres	29	29

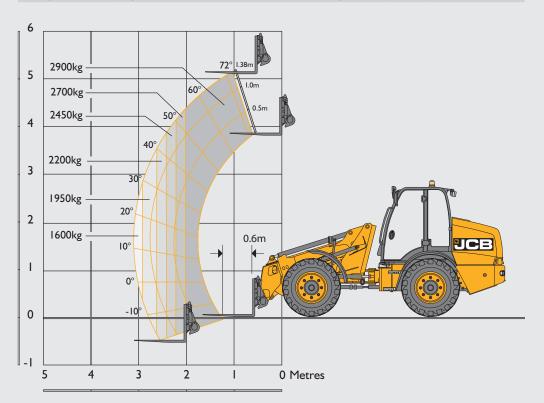
HYDRAULICS			
Machine model		TM320	TM320S
Pump type		Variable displacement piston pump	Variable displacement piston pump
Pump maximum flow	l/min	140	160
Pump maximum pressure	bar	230	230
Hydraulic cycle times			
Boom raise	seconds	5.8	5.2
Boom lower	seconds	6.7	5.6
Extend	seconds	4.1	3.5
Retract	seconds	3.1	2.8
Bucket dump	seconds	3.1	2.6
Bucket crowd	seconds	3.3	2.7
Total cycle time	seconds	26.1	22.4

ELECTRICAL SYSTEM			
Machine model		TM320	TM320S
System voltage	Volt	12	12
Alternator output	Amp Hour	150	150
Battery capacity	Amp Hour	120	120

TYRE OPTIONS	TYRE OPTIONS					
Manufacturer	c.	Туре	Application	Dimensional changes		
Manufacturer	Size			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	

LOADER PERFORMANCE					
Machine model		TM320	TM320S		
Maximum lift capacity to full height with forks	kg	2900	2900		
Lift capacity at full reach	kg	1600	1600		
Lift height	mm	5200	5200		
Maximum forward reach		2950	2950		
Straight tipping load - forks with 500mm load centre*		5262	5262		
Full turn tipping load - forks with 500mm load centre*	kg	4052 **	4052 **		
Full turn tipping load - forks calculated @ 80% load factor*	kg	3242 **	3242 **		
Full turn tipping load - forks calculated @ 60% load factor*	kg	243 **	243 **		
Breakout force - tearout	kg	6260	6260		

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



STANDARD/OPTIONAL EQUIPMENT		
	50	205
	TM320	TM3208
ENGINE AND COOLING		
125hp JCB engine	•	Х
145hp JCB engine	X	•
Cyclonic air filter	•	•
Air intake scavenge system	•	•
Widecore cooling pack	•	•
Auto reversing fan	+	+
TRANSMISSION / AXLES		
6 speed Powershift transmission	•	•
Lock-up torque converter in gears 2 - 6	X	•
Lock-up torque converter in gears 4 - 6	•	X
40kph travel speed	•	•
Transmissions disconnect on footbrake	•	•
Forward / reverse controls on joystick	•	•
Column mounted transmission selector	•	•
In board oil immersed disc brakes	•	•
Limited slip differentials front and rear	+	+
HYDRAULICS		
Servo controls	•	•
Flow sharing hydraulics	•	•
Proportional boom and auxiliary controls	•	•
Adjustable constant flow hydraulics	•	•
Variable displacement piston pump	•	•
Priority steer valve	•	•
Hose burst check valves	•	•
JCB Adaptive Load Control	•	•
JCB Smoothride system	+	+
Biodegradable hydraulic oil	+	+

CAB ROPS/FOPS safety structure Laminated screen Fully adjustable mechanical seat Air suspension seat Interior light Tilt and telescopic steering column Adjustable joystick control console and armrest Front and rear wash / wipe 3 speed heater fan Air conditioning H H- P RH opening window with lock back LH Opening door with door lock back LH Sliding window H Single lever joystick controls Loader control isolator External rear view mirrors Front and roof screen blinds Fire extinguisher Additional storage box Tool box ELECTRICAL Road lights front and rear Reverse lights Battery isolator Botton indicators Rotating beacon Twin beacons Front and rear worklights Front and rear worklights Boom worklights Twin reverse light kit Reverse foglight kit LiveLink telematics LED 360 degree worklights Frow hitch light Tow hitch			
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Additional storage box + + Tool box + + ELECTRICAL - - Road lights front and rear • • Reverse lights • • Battery isolator • • Direction indicators • • Rotating beacon + + Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Twin reverse foglight kit + + LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Front and roof screen blinds	•	•
ELECTRICAL Road lights front and rear • • Reverse lights • • Battery isolator • • Direction indicators • • Rotating beacon + + Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Fire extinguisher	+	+
ELECTRICAL Road lights front and rear Reverse lights Battery isolator Direction indicators Rotating beacon + + Twin beacons Front and rear worklights Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics LED 360 degree worklights Tow hitch light + + 12v in-cab power socket	Additional storage box	+	+
Road lights front and rear Reverse lights Battery isolator Direction indicators Rotating beacon + + Twin beacons + + Front and rear worklights Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics LED 360 degree worklights + + 12v in-cab power socket	Tool box	+	+
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Reverse lights Battery isolator Direction indicators Rotating beacon + + Twin beacons + + Front and rear worklights Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket	ELECTRICAL		
Battery isolator • • Direction indicators • • Rotating beacon + + Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Road lights front and rear	•	•
Direction indicators • • Rotating beacon + + Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Reverse lights	•	•
Rotating beacon + + Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Battery isolator	•	•
Twin beacons + + Front and rear worklights + + Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Direction indicators	•	•
Front and rear worklights Boom worklights + + Twin reverse light kit Reverse foglight kit + + LiveLink telematics LED 360 degree worklights Tow hitch light 12v in-cab power socket	Rotating beacon	+	+
Boom worklights + + Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket	Twin beacons	+	+
Twin reverse light kit + + Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Front and rear worklights	+	+
Reverse foglight kit + + LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Boom worklights	+	+
LiveLink telematics • • LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Twin reverse light kit	+	+
LED 360 degree worklights + + Tow hitch light + + 12v in-cab power socket • •	Reverse foglight kit	+	+
Tow hitch light + + + 12v in-cab power socket	LiveLink telematics	•	•
12v in-cab power socket • •	LED 360 degree worklights	+	+
	Tow hitch light	+	+
Reverse camera with colour screen + +	12v in-cab power socket	•	•
	Reverse camera with colour screen	+	+

	TM320	TM320S
CHASSIS AND BODYWORK		
Articulated steering	•	•
Centre pivot oscillation	•	•
Plastic front and rear fenders	•	•
Fixed bottom step	•	•
Full width rear counterweight	•	•
Recovery hitch	•	•
Prop shaft guard	•	•
Front chassis cover plate	+	+
Rear chassis cover plate	+	+
Grease gun and cartridge	+	+
Deluxe exterior mirrors	•	•
Hydraulic tow hitch	+	+
Rear electrics	+	+
Trailer braking	+	+
Rear auxiliary	+	+
LOADER		
Centre mounted single stage telescopic boom	•	•
Parallel lift	•	•
End damping on boom lower, extend and retract	•	•
Pin and Cone carriage (CAT III)	+	+
JCB Q-fit carriage	+	+
Industrial carriage	+	+
Electrical in cab quickhitch pin isolation	•	•

STANDARD OPTIONAL

NB. Regional variations may apply to standard and optional equipment Complies with Australian Standard 1418.19



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Telescopic Wheel Loader TM320/TM320S

Gross power: TM320: 93kW (125hp) TM320S: 108kW (145hp)

Lift capacity: 2,900kg Lift height: 5,200mm

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