

320 P

Backhoe Loader



JOHN DEERE





READY TO RUN IN THE REAL WORLD

When owners and operators just like you — the people who know what customers need for their operations to succeed — weighed in on our latest backhoe loaders, we heeded the real-world feedback. You asked for one machine that capably completes the work of two. A powerful overachiever with outstanding loader performance, backhoe capability, and multifunction versatility. Featuring streamlined transitions between front loader and rear backhoe functionality. And packed with productivity-elevating options including Heavy Lift (HL) to match the application. The 320 P-Tier Backhoe is a standout multitasker ready to run — and get more done — in any corner of the working world.

Powerful engine technology

Rugged EPA Final Tier 4 (FT4)/EU Stage IV John Deere PowerTech™ EWL engine boosts power, torque, and reliability compared to previous models. Simple two-valve cylinder-head, wet-sleeve design with replaceable cylinder liners provides uniform cooling and aids in reducing oil breakdown and ring wear. Filters have been redesigned and relocated for easier servicing over earlier models.

Elevated experience

Pressure-compensated, load-sensing (PCLS) hydraulics provide excellent multifunctioning, smooth machine control, and up to 15-percent greater craning capacity when Lift Mode is engaged, collectively providing a distinctive operator experience and unmatched machine performance. Trenching operation can be conducted at a lower engine rpm, reducing fuel consumption and jobsite noise.

Forward thinking

When enabled on the 25-button sealed-switch module, AutoShift automatically shifts the PowerShift™ transmission to the appropriate gear. Simply set the control lever to the highest gear desired, and the transmission will optimally shift based on engine rpm and ground speed. Included in the base machine configuration, AutoShift enhances operator ease of use during extended transport or load-and-carry applications.

Always on the move

Limited-slip mechanical-front-wheel drive (MFWD) delivers sure-footed traction in any ground condition. Engage momentary MFWD “on the fly” with a touch of a button on the loader control.

Do some heavy lifting

Heavy Lift (HL) option includes larger rear structures and hydraulic cylinders that increase lifting capacities and breakout forces up to 25 percent.

Get set for a new view

Exclusive to the backhoe industry, our optional rearview camera system with a dedicated eight-inch touchscreen display allows the operator to “overlay the view” to virtually remove the rear machine structure.



EXCLUSIVE
REARVIEW CAMERA

It all looks good from here

Operator station is wider and features an updated HVAC system that outputs 10-percent more airflow compared to the previous model. Rear and side windows have been restyled for clear visibility. Appreciate the standard adjustable mechanical seat, or opt for an air-suspension or new premium heated and vented seat. Sealed-switch module now on the vertical cab post and eye-level fuel and temperature gauges ease operator awareness and navigation.

Control the ride and the load

Auto ride control eliminates the need to manually turn the feature on and off during load-and-carry applications, enhancing the operator's ease of use. When activated, front loader cylinders function as a shock absorber, smoothing the ride over rough terrain and reducing material spillage. On/Off functionality is controlled by ground speed and can be adjusted by the operator in the cab's display monitor.

Save fuel with economy mode

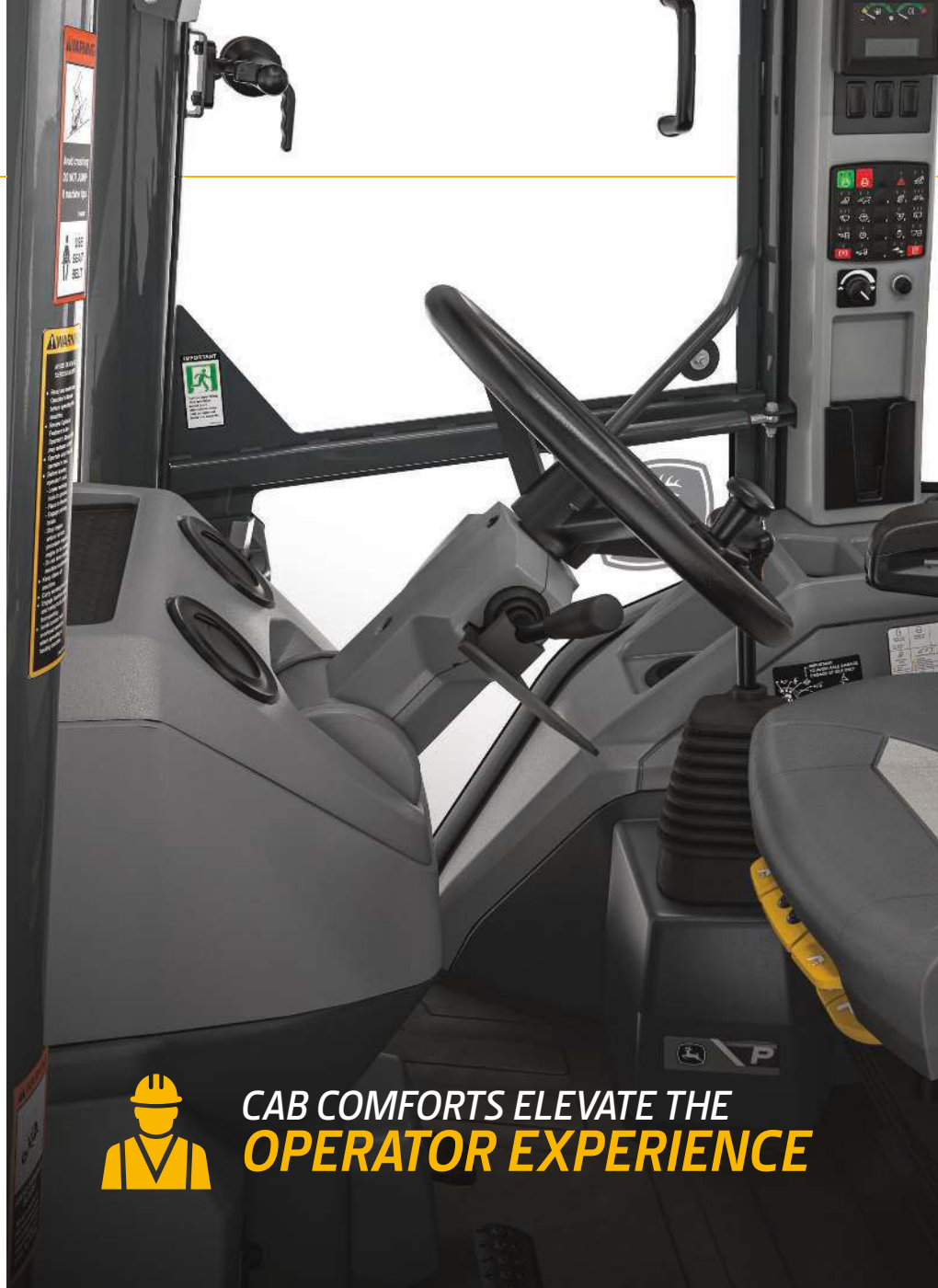
Standard economy mode can be configured separately between loader and backhoe functions. Activate economy mode for backhoe functions while retaining full power for loader functions. This helps maximize fuel usage in lighter-work applications with minimal effect on machine performance.

Take it easy

Highly populated "palm-on-top" loader-control grip is intuitive and easy to use.

Hit the ground running

Same-side ground-level service points speed daily checks and fills. Other commonsense features such as quick-change filters, extended service intervals, simple-to-read sight gauges, and easy-access grease zerks help increase uptime.



**CAB COMFORTS ELEVATE THE
OPERATOR EXPERIENCE**



320 P-TIER BACKHOE LOADER



Let there be (more) light

Optional LED 10-light package brightens darker jobsites. Optional four-corner, low-profile LED beacon system and field-kit boom light boost machine visibility to crew and bystanders.

Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center™**. The Operations Center also enables John Deere Connected Support™, which uses data from thousands of connected machines to proactively address issues before they arise. With your approval, your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

*Availability varies by region and product. Options not available in every country.



320 P-TIER BACKHOE LOADER SPECIFICATIONS

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine		320 P-TIER STANDARD LIFT / HEAVY-LIFT (HL) OPTION	
Manufacturer and Model	John Deere PowerTech™ EWL 4.5L 4045HL052 turbocharged		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Displacement	4.5 L (276 cu. in.)		
Gross Peak Power	86 kW (115 hp) at 1,900 rpm		
Net Peak Power (ISO 9249)	84 kW (113 hp) at 1,900 rpm		
Net Peak Torque (ISO 9249)	459 Nm (338 lb.-ft.) at 1,600 rpm		
Net Torque Rise	30%		
Lubrication	Pressure system with spin-on filter and cooler		
Air Cleaner	Dual-stage dry type with safety element and evacuator valve		
Cooling			
Fan Type	Electronically controlled, variable-rate, suction-type cooling fan standard		
Engine Coolant Rating	−40 deg. C (−40 deg. F)		
Engine Oil Cooler	Oil to water		
Powertrain			
Transmission	5-speed, helical-cut gears, full PowerShift™ transmission with hydraulic reverser standard; electric clutch cutoff on loader lever; AutoShift transmission standard		
Torque Converter	Single stage, dual phase with 2.63:1 stall ratio, 280 mm (11 in.)		
PowerShift Standard Transmission			
Maximum Travel Speeds With Standard Engine and 19.5L-24 Rear Tires	Forward	Reverse	
Gear 1	5.3 km/h (3.3 mph)	6.7 km/h (4.2 mph)	
Gear 2	9.8 km/h (6.1 mph)	12.3 km/h (7.6 mph)	
Gear 3	20.1 km/h (12.5 mph)	19.8 km/h (12.3 mph)	
Gear 4	36.6 km/h (22.7 mph)	—	
Gear 5	40.0 km/h (24.9 mph)	—	
Axles			
Axle Oscillation, Stop to Stop, Front Axle	22 deg.		
Axle Ratings	Front	Rear	
SAE J43	6500 kg (14,300 lb.)	7500 kg (16,500 lb.)	
Dynamic	9000 kg (19,800 lb.)	10 000 kg (22,000 lb.)	
Static	26 500 kg (58,400 lb.)	26 500 kg (58,400 lb.)	
Ultimate	43 500 kg (95,900 lb.)	43 500 kg (95,900 lb.)	
Differentials			
Mechanical-Front-Wheel-Drive (MFWD) Axle	Automatic, limited-slip traction control		
Rear Axle	Loader-grip actuated, hydraulically engaged 100% mechanical lock		
Steering (ISO 5010)	Hydrostatic power steering and emergency steering		
Axle	MFWD		
Curb-Turning Radius			
With Brakes	3.53 m (11 ft. 7 in.)		
Without Brakes	4.03 m (13 ft. 3 in.)		
Bucket-Clearance Circle			
With Brakes	10.20 m (33 ft. 6 in.)		
Without Brakes	10.94 m (35 ft. 11 in.)		
Steering Wheel Turns (lock to lock)	2.5 to 3.5		
MFWD Axle	Heavy duty, outboard planetary final drives distribute shock loads over 3 gears		
Rear Axle	Heavy duty, outboard planetary final drives distribute shock loads over 4 gears		
Brakes (ISO 3450)			
Service	Power assisted, hydraulic wet disc, mounted inboard, self-adjusting and self-equalizing		
Parking	Spring applied, hydraulically released, wet, multi-disc, independent of service brakes with electric switch control		
Hydraulics			
Main Pump	Pressure compensated load sensing (PCLS), axial-piston pump		
Pump Flow at 2,200 rpm			
Backhoe	163 L/m (43 gpm)		
Loader	163 L/m (43 gpm)		

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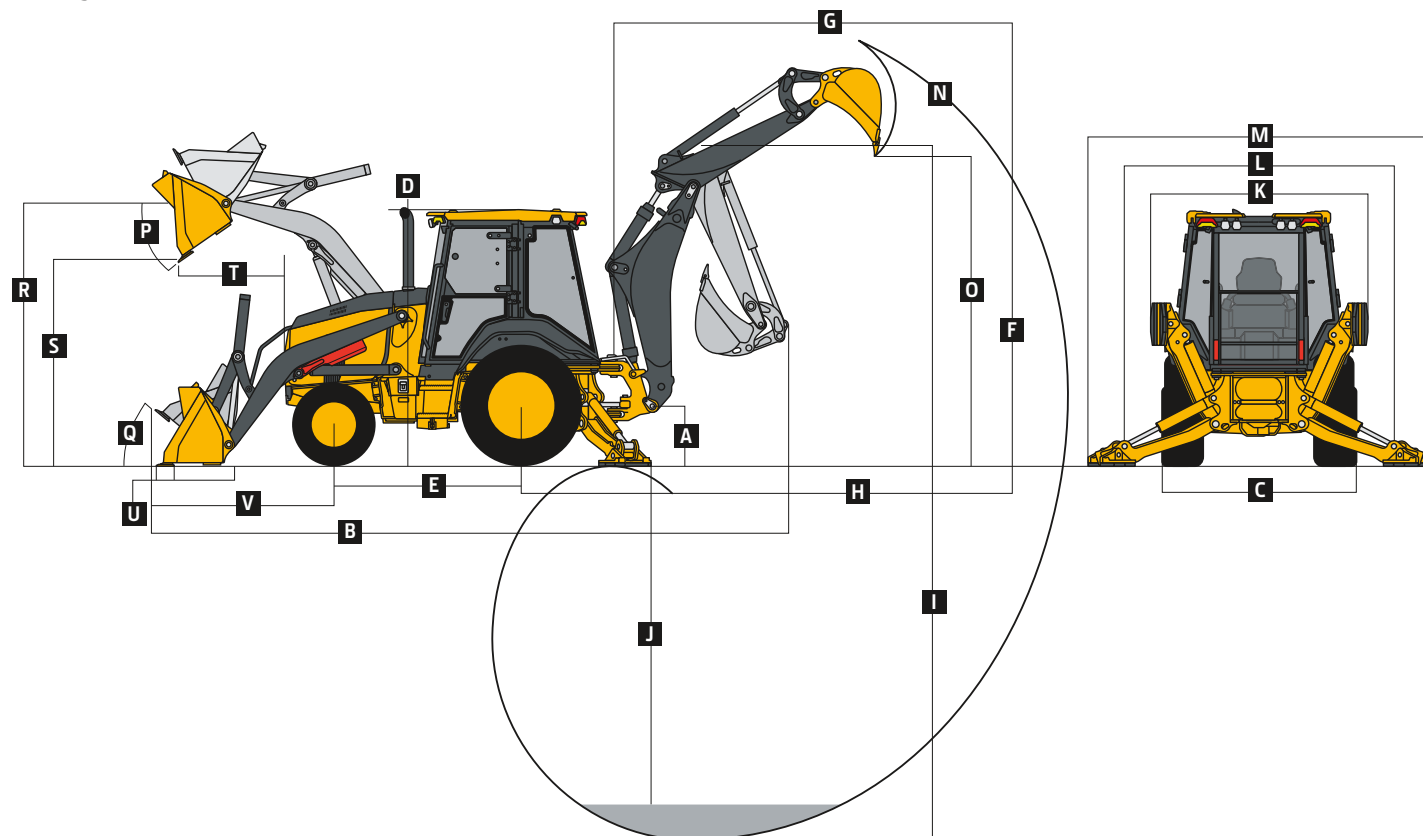
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Hydraulics <i>(continued)</i>		320 P-TIER STANDARD LIFT / HL OPTION	
System Relief Pressure			
Backhoe	24 993 kPa (3,625 psi)		
Lift Mode	27 579 kPa (4,000 psi)		
Loader	24 993 kPa (3,625 psi)		
Controls			
Backhoe	2-lever mechanical standard; pilot controls with pattern select and manual and/or electrohydraulic (EH) auxiliary functions optional		
Loader	Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), and gear-selection buttons standard; single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), gear-selection buttons, and EH proportional auxiliary roller optional		
Cylinders			
Heat-treated, chrome-plated, polished rods; hardened steel (replaceable bushings) pivot pins			
	Bore	Rod Diameter	Stroke
Loader Boom (2)	80 mm (3.15 in.)	50 mm (1.97 in.)	789 mm (31.08 in.)
Loader Bucket (1)	90 mm (3.54 in.)	50 mm (1.97 in.)	744 mm (29.29 in.)
Backhoe Boom (1)	120 mm (4.72 in.)	56 mm (2.20 in.)	794 mm (31.26 in.)
Heavy-Lift (HL) Option	125 mm (4.92 in.)	63 mm (2.48 in.)	887 mm (34.92 in.)
Backhoe Crowd (1)	115 mm (4.53 in.)	63 mm (2.48 in.)	603 mm (23.72 in.)
HL Option	120 mm (4.72 in.)	63 mm (2.48 in.)	591 mm (23.27 in.)
Backhoe Bucket (1)	90 mm (3.54 in.)	56 mm (2.20 in.)	810 mm (31.89 in.)
Heavy-Duty Option	100 mm (3.94 in.)	63 mm (2.48 in.)	810 mm (31.89 in.)
HL Option	100 mm (3.94 in.)	63 mm (2.48 in.)	810 mm (31.89 in.)
Backhoe Swing (2)	90 mm (3.54 in.)	50 mm (1.97 in.)	278 mm (10.94 in.)
Backhoe Extendable Dipperstick (1)	70 mm (2.76 in.)	40 mm (1.57 in.)	1062 mm (41.81 in.)
HL Option	80 mm (3.15 in.)	45 mm (1.77 in.)	1062 mm (41.81 in.)
Backhoe Stabilizer (2)			
Standard	90 mm (3.54 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
Extended	100 mm (3.94 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
HL Option Extended	100 mm (3.94 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
MFWD (1)	65 mm (2.56 in.)	40 mm (1.57 in.)	210 mm (8.27 in.)
Electrical			
Voltage	12 volt		
Alternator Rating	145 amp		
Lights	10 halogen: 4 front, 4 rear, and 2 side docking (HB3 [high-beam] bulb); turn signals and flashers: 2 front and 2 rear; stop- and taillights; and 2 rear reflectors; factory-installed option for 10 LED floodlights in lieu of standard halogen light package		
Operator Station			
Type (ISO 3471)	Fully enclosed cab, isolation mounted, ROPS/FOPS, left/right access, with molded roof; optional canopy		
Tires/Wheels			
	Front	Rear	
With MFWD	12.5/80-18 R4 (10)	19.5L-24 R4 (12)	
	12.5/80-18 R4 (10)	21L-24 R4 (12)	
	340/80R18 XMCL	500/70R24 XMCL	
	340/80R18 550	500/70R24 550	
	340/80R18 580	500/70R24 580	
Serviceability			
Refill Capacities		Refill Capacities <i>(continued)</i>	
Cooling System		Diesel Exhaust Fluid (DEF) Tank	13.7 L (3.6 gal.)
Cab	27.5 L (29.1 qt.)	Hydraulic System	130.2 L (34.4 gal.)
Canopy	25.7 L (27.2 qt.)	Hydraulic Reservoir	45.5 L (12.0 gal.)
Rear Axle	18.0 L (19.0 qt.)	MFWD Axle	
Engine Oil (including vertical spin-on filter)	13.0 L (13.7 qt.)	Differential Housing	6.5 L (6.9 qt.)
Torque Converter and Transmission	15.1 L (16.0 qt.)	Planetary (each)	0.9 L (1.0 qt.)
Fuel Tank (with ground-level fueling)	128.7 L (34.0 gal.)		

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Operating Weights	320 P-TIER STANDARD LIFT	320 P-TIER HEAVY-LIFT (HL) OPTION
ISO 6016 Operating Mass	8225 kg (18,133 lb.)	8225 kg (18,133 lb.)
ISO 6016 Gross Machinery Mass	10 000 kg (22,046 lb.)	10 000 kg (22,046 lb.)
With Full Fuel Tank, 75-kg (165 lb.) Operator, Standard Equipment, Canopy, and 204-kg (450 lb.) Counterweight	7748 kg (17,081 lb.)	7885 kg (17,383 lb.)
Typical With Cab, Extendable Dipperstick, and 454-kg (1,000 lb.) Counterweight	8553 kg (18,856 lb.)	8666 kg (19,105 lb.)
Optional Components (weight difference between base equipment and option)		
Cab	346 kg (763 lb.)	346 kg (763 lb.)
Extendable Dipperstick	209 kg (461 lb.)	185 kg (408 lb.)
Front Loader Coupler	305 kg (672 lb.)	305 kg (672 lb.)
Backhoe Bucket Coupler	133 kg (293 lb.)	133 kg (293 lb.)
Overall Dimensions		
A Ground Clearance, Minimum	322 mm (13 in.)	322 mm (13 in.)
B Overall Length, Transport	7.48 m (24 ft. 6 in.)	7.49 m (24 ft. 7 in.)
C Width Over Tires	2.20 m (7 ft. 3 in.)	2.20 m (7 ft. 3 in.)
D Height to Top of ROPS/Cab	2.84 m (9 ft. 4 in.)	2.84 m (9 ft. 4 in.)
E Length From Axle to Axle, MFWD Axle	2.19 m (7 ft. 2 in.)	2.19 m (7 ft. 2 in.)

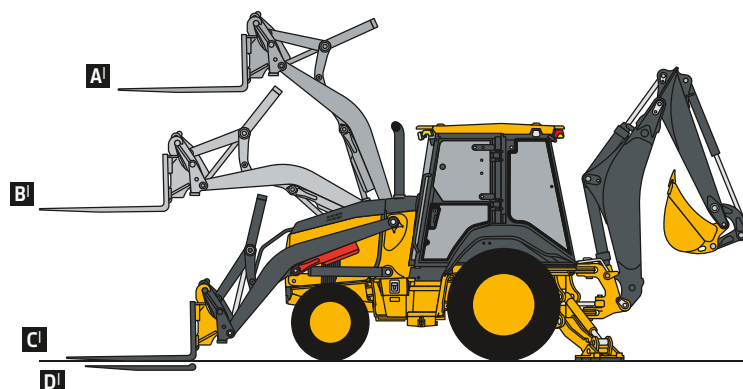


Backhoe Dimensions and Performance

[see line art above]

	320 P-TIER STANDARD LIFT	320 P-TIER HL OPTION
Backhoe specifications are with 610-mm x 0.21-m ³ (24 in. x 7.5 cu. ft.) bucket; dipper lift specs are with a boom angle of 65 deg.		
Bucket Range	305–610 mm (12–24 in.)	305–610 mm (12–24 in.)
Digging Force		
Bucket Cylinder	54.6 kN (12,272 lb.)	69.5 kN (15,617 lb.)
Lift Mode	60.2 kN (13,542 lb.)	76.7 kN (17,233 lb.)
With Heavy-Duty Cylinder Option	69.5 kN (15,620 lb.)	—
Lift Mode	76.7 kN (17,236 lb.)	—
Crowd Cylinder	36.5 kN (8,211 lb.)	38.1 kN (8,564 lb.)
Lift Mode	40.3 kN (9,060 lb.)	42.0 kN (9,450 lb.)
Swing Arc	180 deg.	180 deg.
Operator Control	2 levers	2 levers

Backhoe Dimensions and Performance (continued) [see line art below left]					320 P-TIER STANDARD LIFT				320 P-TIER HL OPTION			
					With Optional Extendable Dipperstick				With Optional Extendable Dipperstick			
					With Standard Backhoe	Retracted	Extended		With Standard Backhoe	Retracted	Extended	
F	Loading Height, Truck Loading Position	3.42 m (11 ft. 3 in.)	3.56 m (11 ft. 8 in.)	4.18 m (13 ft. 9 in.)	3.58 m (11 ft. 9 in.)	3.56 m (11 ft. 8 in.)	4.18 m (13 ft. 9 in.)		3.58 m (11 ft. 9 in.)	3.56 m (11 ft. 8 in.)	4.18 m (13 ft. 9 in.)	
G	Reach From Center of Swing Pivot	5.52 m (18 ft. 1 in.)	5.62 m (18 ft. 5 in.)	6.63 m (21 ft. 9 in.)	5.68 m (18 ft. 8 in.)	5.63 m (18 ft. 5 in.)	6.61 m (21 ft. 8 in.)		5.68 m (18 ft. 8 in.)	5.63 m (18 ft. 5 in.)	6.61 m (21 ft. 8 in.)	
H	Reach From Center of Rear Axle	6.59 m (21 ft. 7 in.)	6.68 m (21 ft. 11 in.)	7.69 m (25 ft. 3 in.)	6.75 m (22 ft. 2 in.)	6.69 m (21 ft. 11 in.)	7.67 m (25 ft. 2 in.)		6.75 m (22 ft. 2 in.)	6.69 m (21 ft. 11 in.)	7.67 m (25 ft. 2 in.)	
I	Digging Depth (SAE maximum)	4.33 m (14 ft. 3 in.)	4.48 m (14 ft. 8 in.)	5.53 m (18 ft. 2 in.)	4.65 m (15 ft. 3 in.)	4.58 m (15 ft. 0 in.)	5.59 m (18 ft. 4 in.)		4.65 m (15 ft. 3 in.)	4.58 m (15 ft. 0 in.)	5.59 m (18 ft. 4 in.)	
J	Digging Depth (SAE)											
	610-mm (2 ft.) Flat Bottom	4.30 m (14 ft. 1 in.)	4.44 m (14 ft. 7 in.)	5.49 m (18 ft. 0 in.)	4.60 m (15 ft. 1 in.)	4.54 m (14 ft. 11 in.)	5.55 m (18 ft. 2 in.)		4.60 m (15 ft. 1 in.)	4.54 m (14 ft. 11 in.)	5.55 m (18 ft. 2 in.)	
	2440-mm (8 ft.) Flat Bottom	3.97 m (13 ft. 0 in.)	4.11 m (13 ft. 6 in.)	5.24 m (17 ft. 2 in.)	4.31 m (14 ft. 2 in.)	4.24 m (13 ft. 11 in.)	5.34 m (17 ft. 6 in.)		4.31 m (14 ft. 2 in.)	4.24 m (13 ft. 11 in.)	5.34 m (17 ft. 6 in.)	
K	Stabilizer Width, Transport With Standard Pads, No Guards, and No Sensors	—	—	—	2.35 m (7 ft. 8 in.)	2.35 m (7 ft. 8 in.)	2.35 m (7 ft. 8 in.)		2.35 m (7 ft. 8 in.)	2.35 m (7 ft. 8 in.)	2.35 m (7 ft. 8 in.)	
	Standard Stabilizers	2.25 m (7 ft. 5 in.)	2.25 m (7 ft. 5 in.)	2.25 m (7 ft. 5 in.)	—	—	—		—	—	—	
	Extended Stabilizers	2.42 m (7 ft. 11 in.)	2.42 m (7 ft. 11 in.)	2.42 m (7 ft. 11 in.)	—	—	—		—	—	—	
L	Stabilizer Spread, Operating	—	—	—	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)		3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	
	Standard Stabilizers	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	—	—	—		—	—	—	
	Extended Stabilizers	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	—	—	—		—	—	—	
M	Stabilizer Overall Width, Operating	—	—	—	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)		4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	
	Standard Stabilizers	3.53 m (11 ft. 7 in.)	3.53 m (11 ft. 7 in.)	3.53 m (11 ft. 7 in.)	—	—	—		—	—	—	
	Extended Stabilizers	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	—	—	—		—	—	—	
N	Bucket Rotation	190 deg.	190 deg.	190 deg.	190 deg.	190 deg.	190 deg.		190 deg.	190 deg.	190 deg.	
O	Transport Height	3.50 m (11 ft. 6 in.)	3.51 m (11 ft. 6 in.)	3.51 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)		3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	
Loader Dimensions and Performance [see line art at left]												
P	Bucket Dump Angle, Maximum	45 deg.			45 deg.				45 deg.			
Q	Rollback Angle at Ground Level	40 deg.			40 deg.				40 deg.			
		General-purpose	General-purpose	General-purpose	Multipurpose	General-purpose	General-purpose	General-purpose	General-purpose	General-purpose	Multipurpose	
	Bucket Capacity	0.86 m³ (1.13 cu. yd.)	1.00 m³ (1.31 cu. yd.)	1.06 m³ (1.39 cu. yd.)	1.01 m³ (1.32 cu. yd.)	0.86 m³ (1.13 cu. yd.)	1.00 m³ (1.31 cu. yd.)	1.06 m³ (1.39 cu. yd.)	1.01 m³ (1.32 cu. yd.)	0.86 m³ (1.13 cu. yd.)	1.00 m³ (1.31 cu. yd.)	1.06 m³ (1.39 cu. yd.)
	Width	2184 mm (86 in.)	2184 mm (86 in.)	2346 mm (92 in.)	2346 mm (92 in.)	2184 mm (86 in.)	2184 mm (86 in.)	2346 mm (92 in.)	2346 mm (92 in.)	2184 mm (86 in.)	2184 mm (86 in.)	2346 mm (92 in.)
	Weight	416 kg (918 lb.)	405 kg (893 lb.)	521 kg (1,148 lb.)	921 kg (2,030 lb.)	416 kg (918 lb.)	405 kg (893 lb.)	521 kg (1,148 lb.)	921 kg (2,030 lb.)	416 kg (918 lb.)	405 kg (893 lb.)	521 kg (1,148 lb.)
	Breakout Force	49.0 kN (11,026 lb.)	45.7 kN (10,280 lb.)	47.0 kN (10,563 lb.)	42.9 kN (9,654 lb.)	49.0 kN (11,026 lb.)	45.7 kN (10,280 lb.)	47.0 kN (10,563 lb.)	42.9 kN (9,654 lb.)	49.0 kN (11,026 lb.)	45.7 kN (10,280 lb.)	47.0 kN (10,563 lb.)
	Lift Capacity, Full Height	3541 kg (7,807 lb.)	3244 kg (7,151 lb.)	3489 kg (7,693 lb.)	2973 kg (6,555 lb.)	3603 kg (7,943 lb.)	3300 kg (7,276 lb.)	3527 kg (7,776 lb.)	2973 kg (6,555 lb.)	3603 kg (7,943 lb.)	3300 kg (7,276 lb.)	3527 kg (7,776 lb.)
R	Height to Bucket Hinge Pin, Maximum	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)
S	Dump Clearance, Bucket at 45 deg.	2.76 m (9 ft. 1 in.)	2.62 m (8 ft. 7 in.)	2.70 m (8 ft. 10 in.)	2.67 m (8 ft. 9 in.)	2.76 m (9 ft. 1 in.)	2.62 m (8 ft. 7 in.)	2.70 m (8 ft. 10 in.)	2.67 m (8 ft. 9 in.)	2.76 m (9 ft. 1 in.)	2.62 m (8 ft. 7 in.)	2.70 m (8 ft. 10 in.)
T	Reach at Full Height, Bucket at 45 deg.	769 mm (30.3 in.)	912 mm (35.9 in.)	765 mm (30.1 in.)	799 mm (31.5 in.)	769 mm (30.3 in.)	912 mm (35.9 in.)	765 mm (30.1 in.)	799 mm (31.5 in.)	769 mm (30.3 in.)	912 mm (35.9 in.)	765 mm (30.1 in.)
U	Digging Depth Below Ground, Bucket Level	89 mm (3.5 in.)	89 mm (3.5 in.)	134 mm (5.3 in.)	129 mm (5.1 in.)	89 mm (3.5 in.)	89 mm (3.5 in.)	134 mm (5.3 in.)	129 mm (5.1 in.)	89 mm (3.5 in.)	89 mm (3.5 in.)	134 mm (5.3 in.)
V	Length From Front Axle Centerline to Bucket Cutting Edge	1.96 m (6 ft. 5 in.)	2.16 m (7 ft. 1 in.)	2.03 m (6 ft. 8 in.)	2.08 m (6 ft. 10 in.)	1.96 m (6 ft. 5 in.)	2.16 m (7 ft. 1 in.)	2.03 m (6 ft. 8 in.)	2.08 m (6 ft. 10 in.)	1.96 m (6 ft. 5 in.)	2.16 m (7 ft. 1 in.)	2.03 m (6 ft. 8 in.)
Lift Capacity With Quick-Coupler Forks [see line art below center]					320 P-TIER STANDARD LIFT / HL OPTION							
Hydraulic Capacity					1219-mm (48 in.) Tines				1524-mm (60 in.) Tines			
A¹	Maximum Height	2081 kg (4,587 lb.)			1928 kg (4,251 lb.)							
B¹	Maximum Reach	3188 kg (7,029 lb.)			3016 kg (6,649 lb.)							
C¹	At Ground Line	4095 kg (9,029 lb.)			3865 kg (8,521 lb.)							
D¹	Below Ground Line	156 mm (6.1 in.)			156 mm (6.1 in.)							

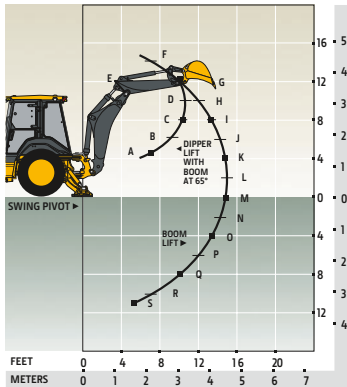


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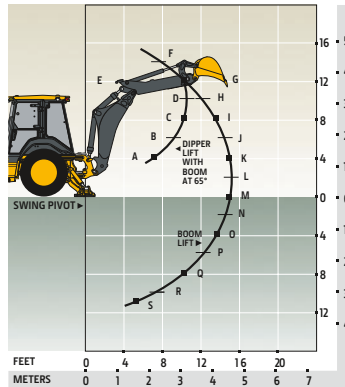
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Lift Capacities [see line art below]

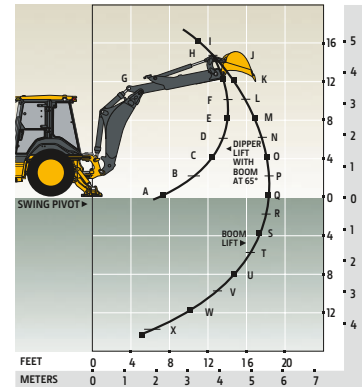
320 P-TIER STANDARD LIFT



With Standard Dipperstick



With Extendable Dipperstick, Retracted



With Extendable Dipperstick, Extended

Lift capacities are over-end values in kg (lb.). Figures listed are 100% of the maximum lift force available.

STANDARD BUCKET CYLINDER

With 1.06-m (3 ft. 6 in.) Extendable Dipperstick

With Standard Dipperstick		Retracted		Extended	
Standard Lift	Lift Mode	Standard Lift	Lift Mode	Standard Lift	Lift Mode
A 4935 kg (10,880 lb.)	5033 kg (11,096 lb.)	4776 kg (10,529 lb.)	4776 kg (10,529 lb.)	3704 kg (8,167 lb.)	4113 kg (9,067 lb.)
B 3742 kg (8,250 lb.)	3742 kg (8,250 lb.)	3308 kg (7,293 lb.)	3308 kg (7,293 lb.)	2502 kg (5,516 lb.)	2782 kg (6,134 lb.)
C 3282 kg (7,235 lb.)	3282 kg (7,235 lb.)	2954 kg (6,512 lb.)	2954 kg (6,512 lb.)	2165 kg (4,774 lb.)	2410 kg (5,312 lb.)
D 3204 kg (7,063 lb.)	3204 kg (7,063 lb.)	2891 kg (6,374 lb.)	2891 kg (6,374 lb.)	2019 kg (4,451 lb.)	2216 kg (4,886 lb.)
E 3057 kg (6,740 lb.)	3384 kg (7,461 lb.)	2639 kg (5,817 lb.)	2933 kg (6,466 lb.)	1924 kg (4,241 lb.)	2114 kg (4,661 lb.)
F 1881 kg (4,146 lb.)	2097 kg (4,623 lb.)	1528 kg (3,368 lb.)	1721 kg (3,795 lb.)	1836 kg (4,047 lb.)	2045 kg (4,508 lb.)
G 1957 kg (4,315 lb.)	2188 kg (4,823 lb.)	1655 kg (3,649 lb.)	1869 kg (4,120 lb.)	1723 kg (3,799 lb.)	1920 kg (4,232 lb.)
H 1932 kg (4,259 lb.)	2162 kg (4,767 lb.)	1665 kg (3,672 lb.)	1883 kg (4,151 lb.)	1536 kg (3,387 lb.)	1713 kg (3,777 lb.)
I 1883 kg (4,150 lb.)	2110 kg (4,651 lb.)	1642 kg (3,619 lb.)	1859 kg (4,098 lb.)	1087 kg (2,396 lb.)	1229 kg (2,709 lb.)
J 1828 kg (4,029 lb.)	2051 kg (4,521 lb.)	1606 kg (3,540 lb.)	1821 kg (4,015 lb.)	1205 kg (2,657 lb.)	1364 kg (3,006 lb.)
K 1773 kg (3,909 lb.)	1992 kg (4,391 lb.)	1566 kg (3,453 lb.)	1779 kg (3,923 lb.)	1249 kg (2,755 lb.)	1415 kg (3,120 lb.)
L 1722 kg (3,796 lb.)	1936 kg (4,268 lb.)	1527 kg (3,367 lb.)	1738 kg (3,831 lb.)	1263 kg (2,785 lb.)	1433 kg (3,158 lb.)
M 1674 kg (3,692 lb.)	1885 kg (4,156 lb.)	1491 kg (3,286 lb.)	1699 kg (3,745 lb.)	1262 kg (2,782 lb.)	1433 kg (3,159 lb.)
N 1632 kg (3,599 lb.)	1840 kg (4,056 lb.)	1458 kg (3,215 lb.)	1665 kg (3,671 lb.)	1253 kg (2,763 lb.)	1425 kg (3,141 lb.)
O 1597 kg (3,520 lb.)	1802 kg (3,973 lb.)	1433 kg (3,158 lb.)	1638 kg (3,612 lb.)	1241 kg (2,735 lb.)	1412 kg (3,113 lb.)
P 1571 kg (3,462 lb.)	1775 kg (3,913 lb.)	1417 kg (3,124 lb.)	1623 kg (3,579 lb.)	1226 kg (2,704 lb.)	1398 kg (3,081 lb.)
Q 1561 kg (3,442 lb.)	1767 kg (3,897 lb.)	1421 kg (3,132 lb.)	1631 kg (3,595 lb.)	1213 kg (2,673 lb.)	1383 kg (3,050 lb.)
R 1605 kg (3,538 lb.)	1821 kg (4,015 lb.)	1481 kg (3,265 lb.)	1704 kg (3,757 lb.)	1200 kg (2,646 lb.)	1371 kg (3,023 lb.)
S 1735 kg (3,825 lb.)	1975 kg (4,354 lb.)	1603 kg (3,533 lb.)	1847 kg (4,072 lb.)	1191 kg (2,625 lb.)	1362 kg (3,003 lb.)
T —	—	—	—	1186 kg (2,615 lb.)	1358 kg (2,995 lb.)
U —	—	—	—	1189 kg (2,622 lb.)	1364 kg (3,007 lb.)
V —	—	—	—	1207 kg (2,661 lb.)	1387 kg (3,057 lb.)
W —	—	—	—	1259 kg (2,775 lb.)	1448 kg (3,193 lb.)
X —	—	—	—	1448 kg (3,192 lb.)	1668 kg (3,677 lb.)
Y —	—	—	—	2074 kg (4,572 lb.)	2391 kg (5,272 lb.)

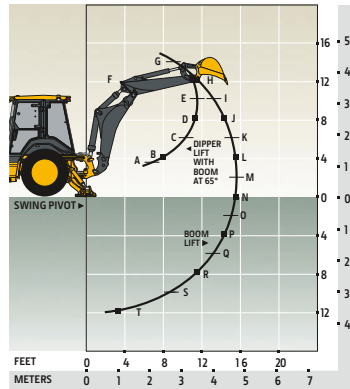
HEAVY-DUTY BUCKET CYLINDER

With 1.06-m (3 ft. 6 in.) Extendable Dipperstick

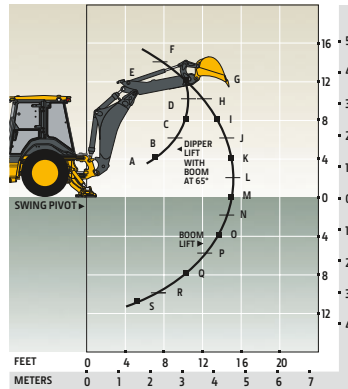
With Standard Dipperstick		Retracted		Extended	
Standard Lift	Lift Mode	Standard Lift	Lift Mode	Standard Lift	Lift Mode
4927 kg (10,862 lb.)	5021 kg (11,070 lb.)	4764 kg (10,504 lb.)	4764 kg (10,504 lb.)	3695 kg (8,146 lb.)	4103 kg (9,046 lb.)
3733 kg (8,230 lb.)	3733 kg (8,230 lb.)	3299 kg (7,273 lb.)	3299 kg (7,273 lb.)	2494 kg (5,499 lb.)	2775 kg (6,117 lb.)
3274 kg (7,218 lb.)	3274 kg (7,218 lb.)	2946 kg (6,494 lb.)	2946 kg (6,494 lb.)	2158 kg (4,758 lb.)	2403 kg (5,297 lb.)
3197 kg (7,047 lb.)	3197 kg (7,047 lb.)	2883 kg (6,357 lb.)	2883 kg (6,357 lb.)	2012 kg (4,436 lb.)	2207 kg (4,867 lb.)
3055 kg (6,735 lb.)	3382 kg (7,457 lb.)	2636 kg (5,811 lb.)	2930 kg (6,460 lb.)	1917 kg (4,226 lb.)	2106 kg (4,642 lb.)
1875 kg (4,133 lb.)	2091 kg (4,611 lb.)	1522 kg (3,355 lb.)	1715 kg (3,782 lb.)	1830 kg (4,033 lb.)	2038 kg (4,494 lb.)
1950 kg (4,299 lb.)	2180 kg (4,807 lb.)	1648 kg (3,633 lb.)	1861 kg (4,103 lb.)	1717 kg (3,785 lb.)	1914 kg (4,219 lb.)
1924 kg (4,242 lb.)	2154 kg (4,749 lb.)	1658 kg (3,654 lb.)	1875 kg (4,134 lb.)	1531 kg (3,374 lb.)	1707 kg (3,764 lb.)
1874 kg (4,132 lb.)	2101 kg (4,633 lb.)	1633 kg (3,601 lb.)	1851 kg (4,080 lb.)	1079 kg (2,380 lb.)	1221 kg (2,692 lb.)
1819 kg (4,011 lb.)	2042 kg (4,502 lb.)	1597 kg (3,521 lb.)	1813 kg (3,996 lb.)	1197 kg (2,639 lb.)	1355 kg (2,988 lb.)
1765 kg (3,890 lb.)	1983 kg (4,372 lb.)	1557 kg (3,434 lb.)	1770 kg (3,903 lb.)	1241 kg (2,736 lb.)	1407 kg (3,102 lb.)
1713 kg (3,776 lb.)	1927 kg (4,248 lb.)	1518 kg (3,347 lb.)	1729 kg (3,811 lb.)	1255 kg (2,766 lb.)	1424 kg (3,139 lb.)
1665 kg (3,671 lb.)	1876 kg (4,135 lb.)	1481 kg (3,266 lb.)	1690 kg (3,725 lb.)	1253 kg (2,763 lb.)	1424 kg (3,139 lb.)
1623 kg (3,578 lb.)	1830 kg (4,035 lb.)	1449 kg (3,194 lb.)	1655 kg (3,649 lb.)	1244 kg (2,743 lb.)	1415 kg (3,120 lb.)
1587 kg (3,499 lb.)	1792 kg (3,951 lb.)	1423 kg (3,137 lb.)	1628 kg (3,590 lb.)	1231 kg (2,715 lb.)	1403 kg (3,092 lb.)
1560 kg (3,440 lb.)	1765 kg (3,890 lb.)	1407 kg (3,101 lb.)	1613 kg (3,556 lb.)	1217 kg (2,683 lb.)	1388 kg (3,060 lb.)
1550 kg (3,418 lb.)	1757 kg (3,872 lb.)	1410 kg (3,108 lb.)	1620 kg (3,571 lb.)	1203 kg (2,652 lb.)	1374 kg (3,029 lb.)
1592 kg (3,511 lb.)	1809 kg (3,988 lb.)	1469 kg (3,238 lb.)	1692 kg (3,730 lb.)	1190 kg (2,625 lb.)	1361 kg (3,001 lb.)
1720 kg (3,793 lb.)	1960 kg (4,322 lb.)	1589 kg (3,503 lb.)	1833 kg (4,042 lb.)	1181 kg (2,603 lb.)	1352 kg (2,981 lb.)
—	—	—	—	1176 kg (2,593 lb.)	1348 kg (2,973 lb.)
—	—	—	—	1179 kg (2,599 lb.)	1354 kg (2,984 lb.)
—	—	—	—	1196 kg (2,638 lb.)	1376 kg (3,033 lb.)
—	—	—	—	1248 kg (2,751 lb.)	1437 kg (3,168 lb.)
—	—	—	—	1435 kg (3,164 lb.)	1655 kg (3,649 lb.)
—	—	—	—	2057 kg (4,535 lb.)	2374 kg (5,235 lb.)

Lift capacities are over end with stabilizers down and tires tangent to ground.

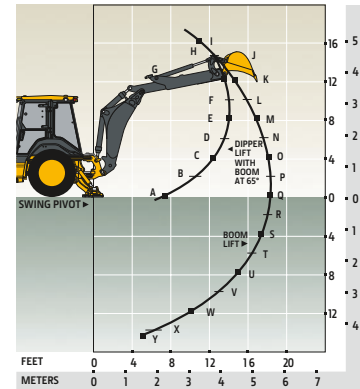
Lift Capacities (continued) [see line art below] 320 P-TIER HEAVY-LIFT (HL) OPTION



With Standard Dipperstick



With Extendable Dipperstick, Retracted



With Extendable Dipperstick, Extended

Lift capacities are over-end values in kg (lb.). Figures listed are 100% of the maximum lift force available.

With Standard Dipperstick		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Retracted		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Extended	
Standard Lift	Lift Mode	Standard Lift	Lift Mode	Standard Lift	Lift Mode
A 5630 kg (12,412 lb.)	5630 kg (12,412 lb.)	4989 kg (10,998 lb.)	4989 kg (10,998 lb.)	3784 kg (8,341 lb.)	4199 kg (9,257 lb.)
B 4701 kg (10,365 lb.)	4701 kg (10,365 lb.)	3552 kg (7,831 lb.)	3552 kg (7,831 lb.)	2729 kg (6,016 lb.)	3033 kg (6,686 lb.)
C 3550 kg (7,826 lb.)	3550 kg (7,826 lb.)	3185 kg (7,022 lb.)	3185 kg (7,022 lb.)	2411 kg (5,316 lb.)	2639 kg (5,817 lb.)
D 3222 kg (7,104 lb.)	3222 kg (7,104 lb.)	3121 kg (6,881 lb.)	3121 kg (6,881 lb.)	2280 kg (5,028 lb.)	2396 kg (5,282 lb.)
E 3167 kg (6,981 lb.)	3167 kg (6,981 lb.)	3165 kg (6,978 lb.)	3295 kg (7,265 lb.)	2203 kg (4,857 lb.)	2288 kg (5,044 lb.)
F 3096 kg (6,826 lb.)	3330 kg (7,341 lb.)	1387 kg (3,057 lb.)	1565 kg (3,451 lb.)	2136 kg (4,710 lb.)	2267 kg (4,998 lb.)
G 1473 kg (3,247 lb.)	1647 kg (3,631 lb.)	1721 kg (3,795 lb.)	1943 kg (4,284 lb.)	2047 kg (4,512 lb.)	2278 kg (5,023 lb.)
H 1804 kg (3,976 lb.)	2019 kg (4,451 lb.)	1818 kg (4,007 lb.)	2053 kg (4,527 lb.)	1883 kg (4,151 lb.)	2097 kg (4,623 lb.)
I 1910 kg (4,211 lb.)	2140 kg (4,717 lb.)	1842 kg (4,060 lb.)	2083 kg (4,591 lb.)	954 kg (2,103 lb.)	1082 kg (2,385 lb.)
J 1944 kg (4,286 lb.)	2180 kg (4,806 lb.)	1836 kg (4,049 lb.)	2079 kg (4,584 lb.)	1206 kg (2,659 lb.)	1366 kg (3,010 lb.)
K 1948 kg (4,294 lb.)	2186 kg (4,820 lb.)	1819 kg (4,009 lb.)	2061 kg (4,544 lb.)	1323 kg (2,917 lb.)	1498 kg (3,302 lb.)
L 1938 kg (4,272 lb.)	2177 kg (4,799 lb.)	1796 kg (3,960 lb.)	2038 kg (4,494 lb.)	1383 kg (3,050 lb.)	1567 kg (3,454 lb.)
M 1922 kg (4,238 lb.)	2161 kg (4,765 lb.)	1774 kg (3,911 lb.)	2016 kg (4,444 lb.)	1415 kg (3,119 lb.)	1603 kg (3,535 lb.)
N 1907 kg (4,203 lb.)	2146 kg (4,730 lb.)	1756 kg (3,872 lb.)	1998 kg (4,405 lb.)	1430 kg (3,153 lb.)	1622 kg (3,576 lb.)
O 1895 kg (4,177 lb.)	2134 kg (4,705 lb.)	1747 kg (3,851 lb.)	1990 kg (4,387 lb.)	1437 kg (3,167 lb.)	1631 kg (3,596 lb.)
P 1891 kg (4,169 lb.)	2132 kg (4,701 lb.)	1753 kg (3,865 lb.)	1999 kg (4,407 lb.)	1439 kg (3,171 lb.)	1635 kg (3,604 lb.)
Q 1903 kg (4,196 lb.)	2148 kg (4,735 lb.)	1791 kg (3,949 lb.)	2045 kg (4,509 lb.)	1439 kg (3,172 lb.)	1637 kg (3,608 lb.)
R 1948 kg (4,294 lb.)	2200 kg (4,851 lb.)	1926 kg (4,245 lb.)	2201 kg (4,852 lb.)	1440 kg (3,175 lb.)	1639 kg (3,614 lb.)
S 2085 kg (4,596 lb.)	2358 kg (5,198 lb.)	2142 kg (4,722 lb.)	2449 kg (5,400 lb.)	1445 kg (3,185 lb.)	1646 kg (3,629 lb.)
T 3285 kg (7,243 lb.)	3724 kg (8,210 lb.)	—	—	1456 kg (3,210 lb.)	1661 kg (3,661 lb.)
U —	—	—	—	1480 kg (3,262 lb.)	1689 kg (3,724 lb.)
V —	—	—	—	1526 kg (3,365 lb.)	1744 kg (3,845 lb.)
W —	—	—	—	1628 kg (3,590 lb.)	1862 kg (4,105 lb.)
X —	—	—	—	1954 kg (4,309 lb.)	2235 kg (4,927 lb.)
Y —	—	—	—	2950 kg (6,503 lb.)	3370 kg (7,429 lb.)

Lift capacities are over end with stabilizers down and tires tangent to ground.

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with ISO standards. Except where otherwise noted, these specifications are based on a 320 P-Tier unit with 19.5L-24-in. 12PR (R4) tubeless rear and 12.5-80/18 10PR (R4) front tires, and 1.06-m³ (1.39 cu. yd.) loader bucket; and a 320 P-Tier Heavy-Lift configuration with lift mode, 19.5L-24-in. 12 PR (R4) tubeless rear and 12.5/80-18 12PR (R4) front tires, and 1.06-m³ (1.39 cu. yd.) loader bucket.



MB320PBU (25-06)



JOHN DEERE