

L-SERIES
LOADERS



JOHN DEERE

244L / 324L / 344L



AGILITY, STABILITY,
AND ABILITY

A yellow excavator bucket is shown in the process of dumping a large amount of hay or straw into a wooden fence enclosure. The hay is falling in a thick, golden stream. In the background, there is a large blue metal silo and a blue metal building. The scene is set in a farm environment with a wooden fence in the foreground. The excavator's arm and bucket are yellow, and the background features a large blue metal silo and a blue metal building. The ground is dirt and hay.

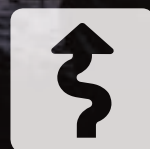
WHEN THINGS GET TIGHT,
TURN IT
LOOSE.

THE L-SERIES



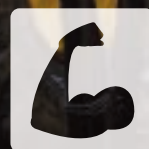
**MORE
STABLE***

+



**MORE
MANEUVERABLE***

+



**MORE
CAPABLE***

*Compared to leading competitive articulation loaders of the same size.



ONE-OF-A KIND ADVANTAGES.

Your business is unique — just like our L-Series Compact Loaders. With our industry-exclusive Articulation Plus™ steering system and the High-Lift configuration available on the 324L and 344L, these highly adaptable multipurpose machines combine head-turning maneuverability, sure-footed stability, and the speed you need to quickly get things done.

THINK BIG, RUN SMALL.

YOUR BEST CHOICE FOR A WIDE VARIETY OF WORK

Whether you work in tight places or simply need a smaller machine to get big results — our 244L, 324L, and 344L Loaders have what it takes. Check out their unique features and L-Series enhancements.

Parallel lift

Loader arm and coupler design improves the lifting path to near parallel — for better load-carrying capability than previous models. This keeps the load much more level from ground to truck-bed height. Removing the manual adjustments required for previous models allows the operator to stay focused on the task at hand.

Lift, reach, repeat

With exceptional lift and height to hinge pin, the optional High-Lift configuration offered on the 324L and 344L makes both especially adept at repetitive dumping and stacking applications.

Fast getaway

With a standard top speed of up to 25 mph on the 344L and 23 mph on the 324L and 244L, these compact loaders can make some pretty quick moves on and between jobsites.

Quick-change artist

Equip your loader with an ISO coupler and go from bucket to forks, for maximum lift capacity, quickly and easily. Opt for the John Deere quick-coupler available on the 244L and 324L to utilize a wide array of skid-steer-compatible attachments. High-flow electrohydraulic-controlled auxiliary hydraulics are also available.

Generous power

EPA Final Tier 4 (FT4) emission-certified four-cylinder turbocharged diesel engines — John Deere PowerTech™ on the 344L, Yanmar on the 324L and 244L — deliver power without compromise.

Lighten up

Optional LED front and rear work lights brilliantly show the way for early morning or after-daylight tasks. In-cab lighting has been designed with the operator in mind, activating when the door is opened to help illuminate machine entrances and exits.



TOP SPEEDS UP TO
25 MPH
ON THE 344L





STANDOUT FEATURE

***QUICK
AND
NIMBLE.***

TOUGH GOING IN TIGHT SPACES?

TURN THINGS AROUND.

Caught between a rock and a hard place — or two concrete walls? A 244L, 324L, or 344L Loader can help you turn it around. The Articulation Plus steering system allows tight turns with large loads, with a tighter turning radius than leading competitive articulation loaders.

Ready, willing, and able

Industry-exclusive Articulation Plus steering system combines 30 deg. of articulation plus an additional 10 deg. of rear-wheel steer. By reducing the articulation angle, this design allows tighter turns that are more stable.

Efficient power

Rimpull control manages power to the wheels, allowing the operator to select the optimal setting to reduce tire and driveline wear.

Reach your goals

With its exceptional reach, the 344L easily dumps to the center of tandem-axle trucks, for quick loading cycles. For taller tasks requiring extra height and reach, order your 324L or 344L with the High-Lift option that's especially adept at loading feed mixers or stacking lighter materials.

Industry leader

The 344L delivers a greater full-turn tipping load, a tighter turning radius, and more stability than comparable competitive articulation loaders.

Sure-footed traction

Manual low-speed 100-percent differential lock delivers the ground-gripping tractive effort necessary to dive deep into the pile and help heap the bucket.



**INDUSTRY-EXCLUSIVE
ARTICULATION PLUS™
STEERING SYSTEM**





WE TAKE YOUR VIEWS SERIOUSLY

***INCLUDING THE ONES FROM
THIS SPACIOUS CAB.***

Customer insight was invaluable to the development of the L-Series Loaders. In fact, it inspired enhanced visibility, intuitive controls, and automated functions. Your operators will like what they see.



Panoramic view

All-around visibility is virtually unobstructed. Expansive floor-to-ceiling tinted glass provides a commanding view of the work at hand as well as the surrounding obstacles and activity.

Convenient, one-hand control

Boom and bucket, F-N-R, and differential lock are controlled by the same low-effort joystick. Mini-joystick — standard on the 244L and 324L, optional on the 344L — controls auxiliary hydraulic functions including high flow.



Line-of-sight oversight

Adjustable-height monitor lets an operator keep a close watch on vital machine functions such as engine rpm, oil pressure, temperature, and more. The system issues both visual and audible warnings.

Get comfortable

Sculpted adjustable seat provides daylong support. For even more comfort, a fully adjustable heated high-back air-ride version is available.

Smooth moves

Load-sensing AutoShift on all three models eliminates productivity-interrupting manual shifts between gear ranges and provides smooth direction changes, too.

Lock and load

Optional throttle lock and creep control let you set a slow ground speed while maintaining full engine power to an attachment. It's perfect for work with attachments such as snow blowers, cold planers, or even silage defacers.

SAVE TIME AND MONEY.

THEY'RE TIGHT WITH THE PURSE STRINGS, TOO.



JDLink™ machine monitoring

Optional JDLink telematics provide machine data and health alerts to help you maximize efficiency and decrease costly downtime.

Just around the corner

Parts and service are available at over 1,400 John Deere dealers throughout North America.

Cool it

Redesigned engine compartment and cooling package improve airflow and reduce the amount of debris entering the system.

Come clean

Cooler cores are easy to access behind a large screen, for fast cleanout from ground level. Add an optional reversible fan for improved cleanout in high-debris applications.

DPF cleaning made simple

Seamless diesel particulate filter (DPF) cleaning happens automatically without impacting machine productivity. The filter is easily removed for service and can be done by your John Deere dealer.

Under the hood

Open the easy-lift hood and you'll uncover the many convenience features that make the 244L, 324L, and 344L simple and inexpensive to maintain. Access is from ground level to all daily service checks.





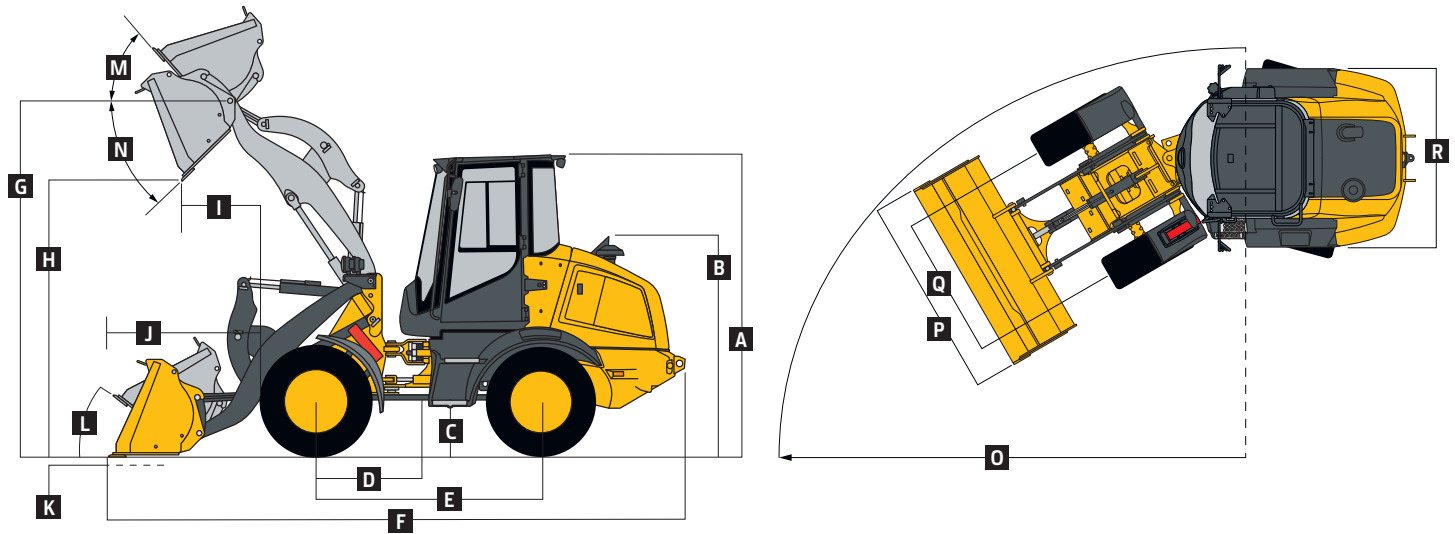
244L SPECIFICATIONS

Engine		244L
Manufacturer and Model		Yanmar 4TNV98CT
Non-Road Emission Standard		EPA Final Tier 4 (FT4)
Cylinders		4
Valves per Cylinder		4
Displacement		3.3 L (203 cu. in.)
Net Peak Power at 2,400 rpm (SAE J1349 / ISO 9249)		52 kW (71 hp)
Gross Rated Power at 2,400 rpm (ISO 14396)		54 kW (73 hp)
Peak Torque at 1,560 rpm		280 Nm (206 lb.-ft.)
Engine Bore and Stroke		98 x 110 mm (3.89 x 4.33 in.)
Lubrication		Pressure system with full-flow spin-on filter
Aspiration		Turbocharged
Air Cleaner		Dual safety element dry type
Cooling		
Fan		Hydraulically driven, proportionally controlled
Engine Coolant Rating		-37 deg. C (-34 deg. F)
Powertrain		
Type		Hydrostatic (HST) with infinitely variable speed control over full range of operating speeds; 2 speed ranges; joystick-mounted F-N-R; acceleration pedal; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow
2 Travel Speeds in Forward and Reverse (equipped with 365/70R18 tires)		
Gear 1		18 km/h (11.0 mph)
Gear 2		38 km/h (23.5 mph)
Axles		Fixed, 100% differential, manually engaged front axle; fixed, conventional differential rear axle
Rear Axle Oscillation Versus Front Axle		16 deg. total, stop to stop
Differentials		Manual (push-button) 100% locking front, conventional rear
Maximum Rise and Fall, Single Wheel		370 mm (14.5 in.)
Steering		Hydraulic power steering (SAE J1511); 30-deg. articulation left and right with mechanical-actuated rear-wheel steering
Steering Wheel Turns, Stop to Stop		4¼ (2 left / 2¼ right)
Articulation Angle		60-deg. arc (30 deg. each direction)
Final Drive		Heavy-duty outboard planetary
Brakes (SAE J1473 / ISO 3450)		
Service Brakes		Hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake
Parking Brake		Automatically spring-applied, hydraulically released, internal wet disc
Hydraulics		
Main Pump (loader and steering)		Fixed-displacement gear pump; open-center system
Standard		70 L/m (18 gpm)
Total with High-Flow Option		109 L/m (29 gpm)
Maximum Pressure at Couplings		23 000 kPa (3,335 psi)
System Relief Pressure		
Loader		23 000 kPa (3,335 psi)
Steering		18 000 kPa (2,611 psi)
Hydraulic Cycle Times		
Raise		4.9 sec.
Dump		1.7 sec.
Lower		3.5 sec.
Total		10.1 sec.
Controls		Pilot-operated, 3-function valve with single-lever control for boom and bucket, standard pin disconnect and 3rd-function proportional electrohydraulic (EH) auxiliary hydraulics
Cylinders		
Type		Heat-treated, chrome-plated, polished cylinder rods; hardened steel (replaceable bushings) pivot pins

244L SPECIFICATIONS



Electrical		244L	
Type	Electrical load center with blade-type multi-fused circuits		
Voltage	12 volt		
Number of Batteries	1		
Battery Capacity	925 CCA		
Alternator Rating	80 amp		
Lights (SAE 99)	Driving/front working lights (2), turn signals, flashers, and stop- and taillights		
Operator Station			
Noise Level			
Operator Ear (ISO 6396)	70 dBA		
Bystander (ISO 6395)	101 dBA		
Tires/Wheels			
Tires on Single-Piece Rims	Tread Width*	Width Over Tires†	Change in Vertical Height
365/70R18 Mitas EM-01 (standard)	1510 mm (4 ft. 11 in.)	1920 mm (6 ft. 4 in.)	0 mm (0 in.)
405/70R18 Firestone Duraforce (optional)	1510 mm (4 ft. 11 in.)	1960 mm (6 ft. 5 in.)	+23 mm (+0.9 in.)
400/70R20 Michelin XMCL (optional)	1510 mm (4 ft. 11 in.)	1960 mm (6 ft. 5 in.)	+44 mm (+1.7 in.)
400/70R20 Michelin Bibload (optional)	1510 mm (4 ft. 11 in.)	1950 mm (6 ft. 5 in.)	+38 mm (+0.9 in.)
*Also see Q in Dimensions section on pages 14 and 16. / †Also see R in Dimensions section on pages 14 and 16.			
Serviceability			
Refill Capacities			
Cooling System (engine and radiator)	12.1 L (12.7 qt.)		
Differential and Planetary Axle			
Front	5.2 L (5.5 qt.)		
Rear	4.7 L (5.0 qt.)		
Engine Oil with Filter	10 L (10.8 qt.)		
Fuel Tank	90 L (23.8 gal.)		
Hydraulic/HST Reservoir with Filter	66 L (17.4 gal.)		
HST Motor Gearbox	1.7 L (1.8 qt.)		
Front/Rear Axle Planetary Hubs (each)	0.8 L (1.0 qt.)		
Operating Weights			
With standard equipment, 365/70R18 tires, standard counterweight, cab, 79-kg (175 lb.) operator, and full fuel tank			
ISO Quick-Coupler			
With 0.8-m³ (1.0 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5560 kg (12,258 lb.)		
With 1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5680 kg (12,522 lb.)		
With Fork	5455 kg (12,026 lb.)		
Quik-Tatch™ Quick-Coupler			
With 0.8-m³ (1.0 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5690 kg (12,544 lb.)		
With 1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	5800 kg (12,787 lb.)		
With Fork	5500 kg (12,125 lb.)		
Optional Components			
ISO Quick-Coupler			
0.8-m³ (1.0 cu. yd.) Bucket with Bolt-On Edge	337 kg (743 lb.)		
1.1-m³ (1.4 cu. yd.) Bucket with Bolt-On Edge	457 kg (1,008 lb.)		
Fork and Tines	232 kg (511 lb.)		
Quik-Tatch Quick-Coupler			
0.8-m³ (1.0 cu. yd.) Bucket with Bolt-On Edge	467 kg (1,030 lb.)		
1.1-m³ (1.4 cu. yd.) Bucket with Bolt-On Edge	577 kg (1,272 lb.)		
Fork and Tines	277 kg (611 lb.)		



244L Z-BAR LOADER WITH ISO QUICK-COUPLER AND BUCKET

	Standard Linkage 0.8-m ³ (1.0 cu. yd.) stockpiling/general-purpose with bolt-on edge	Standard Linkage 1.1-m ³ (1.4 cu. yd.) stockpiling/general-purpose with bolt-on edge
Dimensions with ISO Quick-Coupler and Bucket		
A Height to Top of Cab	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
B Height to Top of Exhaust	1.98 m (6 ft. 6 in.)	1.98 m (6 ft. 6 in.)
C Ground Clearance	285 mm (11 in.)	285 mm (11 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.15 m (7 ft. 1 in.)	2.15 m (7 ft. 1 in.)
F Overall Length, Bucket on Ground	5.41 m (17 ft. 9 in.)	5.47 m (17 ft. 11 in.)
G Height to Hinge Pin, Fully Raised	3.22 m (10 ft. 7 in.)	3.22 m (10 ft. 7 in.)
H Dump Clearance, 40-deg. Full Height	2.52 m (8 ft. 3 in.)	2.48 m (8 ft. 2 in.)
I Reach, 40-deg. Dump, Full Height	810 mm (32 in.)	860 mm (34 in.)
J Maximum Dump Reach, 42-deg. Dump	1.52 m (5 ft. 0 in.)	1.56 m (5 ft. 1 in.)
K Maximum Digging Depth	95 mm (4 in.)	95 mm (4 in.)
L Maximum Rollback at Ground Level	39 deg.	39 deg.
M Maximum Rollback at Full Height	55 deg.	55 deg.
N Bucket Dump at Full Height	42 deg.	42 deg.
O Turning Circle Radius Over Outside of Bucket Edge	3.82 m (12 ft. 6 in.)	3.97 m (13 ft. 0 in.)
P Bucket Width	1.90 m (6 ft. 3 in.)	2.20 m (7 ft. 3 in.)
Q Tread Width (standard) ⁸	1510 mm (4 ft. 11 in.)	1510 mm (4 ft. 11 in.)
R Width Over Tires (standard) ⁸	1920 mm (6 ft. 4 in.)	1920 mm (6 ft. 4 in.)
Loader Clearance Circle, Bucket Carry Position	7.64 m (25 ft. 1 in.)	7.94 m (26 ft. 1 in.)

⁸Also see **Tires/Wheels** section on page 13.

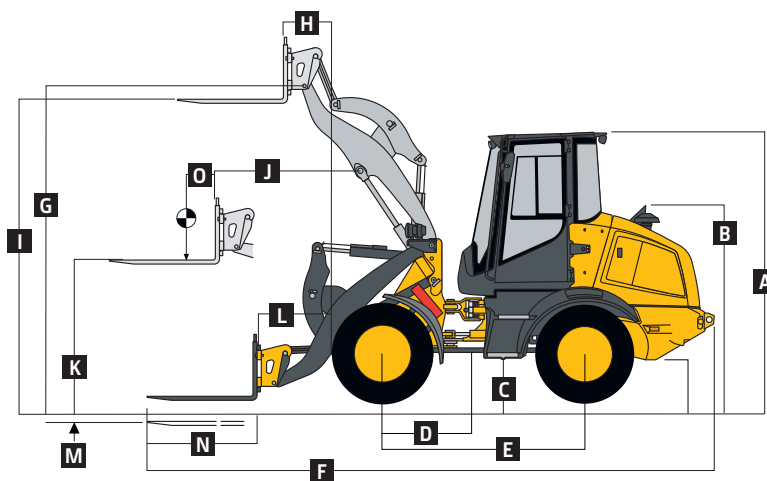
Specifications with ISO Quick-Coupler and Bucket

Capacity, Heaped (SAE)	0.8 m ³ (1.0 cu. yd.)	1.1 m ³ (1.4 cu. yd.)
Capacity, Struck (SAE)	0.66 m ³ (0.86 cu. yd.)	0.9 m ³ (1.18 cu. yd.)
Breakout Force (SAE J732C)	4895 kg (10,792 lb.)	4410 kg (9,722 lb.)
Tipping Load, Straight	4060 kg (8,951 lb.)	3930 kg (8,664 lb.)
Tipping Load, Full Turn (SAE)	3700 kg (8,157 lb.)	3580 kg (7,893 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	1850 kg (4,079 lb.)	1790 kg (3,946 lb.)

*Rated operating capacity based on Deere attachments only.

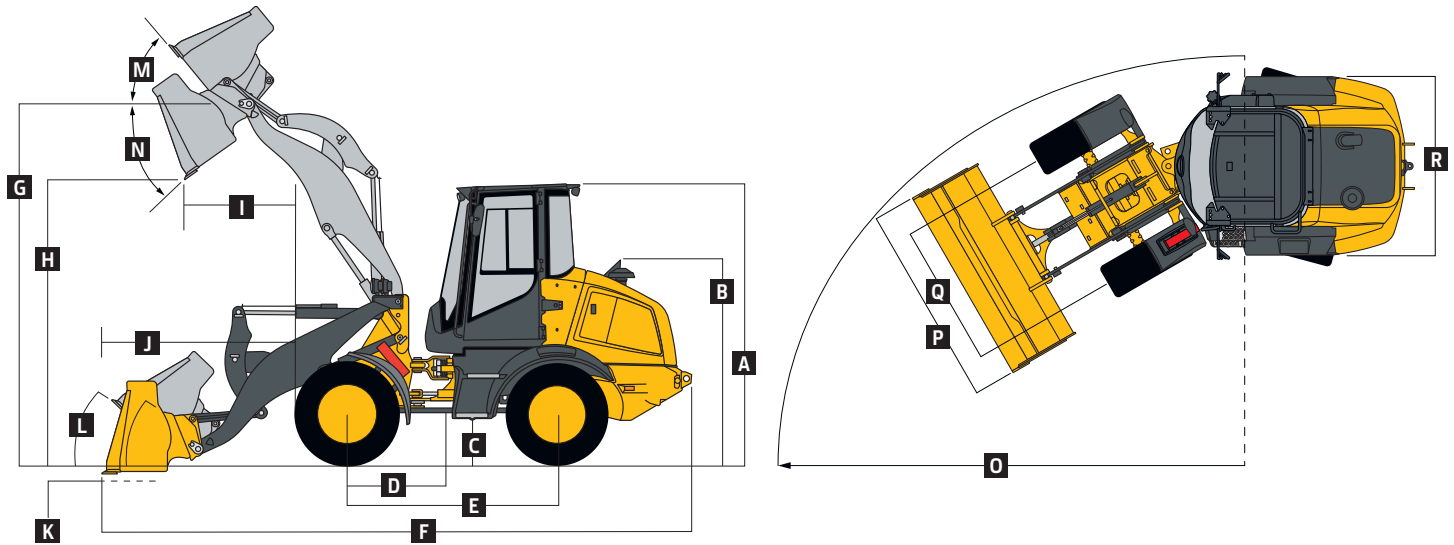
**Dimensions and Specifications with
ISO Quick-Coupler and Fork**

244L


244L Z-BAR LOADER WITH ISO QUICK-COUPLER AND FORK

Standard Linkage	
Dimensions with ISO Quick-Coupler and Fork	<i>1.20-m (48 in.) tine length</i>
A Height to Top of Cab	2.75 m (9 ft. 0 in.)
B Height to Top of Exhaust	1.98 m (6 ft. 6 in.)
C Ground Clearance	285 mm (11 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)
E Wheelbase	2.15 m (7 ft. 1 in.)
F Overall Length, Forks on Ground	5.99 m (19 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.22 m (10 ft. 7 in.)
H Reach, Fully Raised	525 mm (21 in.)
I Fork Height, Fully Raised	3.05 m (10 ft. 0 in.)
J Maximum Reach, Fork Level	1.24 m (4 ft. 1 in.)
K Fork Height, Maximum Reach	1.45 m (4 ft. 9 in.)
L Reach, Ground Level	740 mm (29 in.)
M Depth Below Ground	50 mm (2 in.)
N Tine Length	1.20 m (48 in.)
O Load Position, 50% Tine Length	600 mm (24 in.)
Specifications with ISO Quick-Coupler and Fork	<i>As measured with fork level, centered on tine</i>
Tipping Load, Straight	3215 kg (7,088 lb.)
Tipping Load, Full Turn (SAE)	2930 kg (6,460 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to SAE J1197 / ISO 14397-1)*	1465 kg (3,230 lb.) [†]
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	1820 kg (4,012 lb.) [†]
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	2300 kg (5,071 lb.) [†]

*Rated operating capacity based on Deere attachments only. / [†]Payload on forks is limited by tilt cylinder.

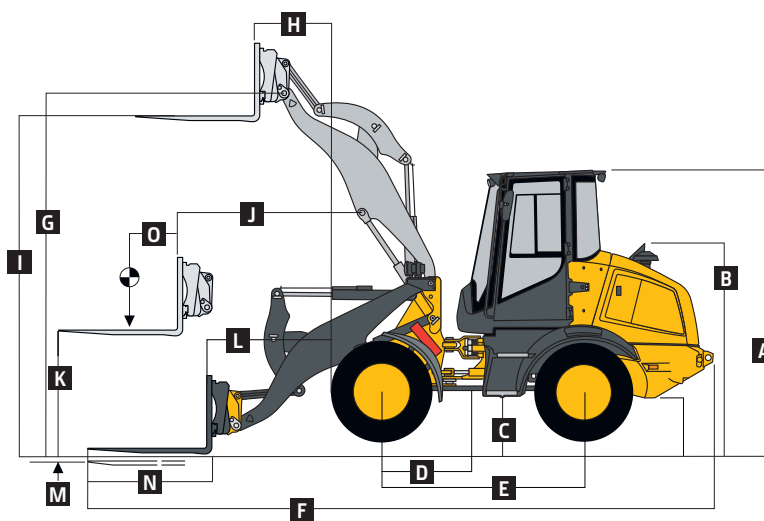


244L Z-BAR LOADER WITH QUIK-TATCH COUPLER AND BUCKET

	Standard Linkage 0.8-m³ (1.0 cu. yd.) stockpiling/general-purpose with bolt-on edge	Standard Linkage 1.1-m³ (1.4 cu. yd.) stockpiling/general-purpose with bolt-on edge
Dimensions with Quik-Tatch Coupler and Bucket		
A Height to Top of Cab	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
B Height to Top of Exhaust	1.98 m (6 ft. 6 in.)	1.98 m (6 ft. 6 in.)
C Ground Clearance	285 mm (11 in.)	285 mm (11 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.15 m (7 ft. 1 in.)	2.15 m (7 ft. 1 in.)
F Overall Length, Bucket on Ground	5.61 m (18 ft. 5 in.)	5.68 m (18 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.22 m (10 ft. 7 in.)	3.22 m (10 ft. 7 in.)
H Dump Clearance, 40-deg. Full Height	2.52 m (8 ft. 3 in.)	2.45 m (8 ft. 0 in.)
I Reach, 40-deg. Dump, Full Height	1.09 m (3 ft. 7 in.)	1.15 m (3 ft. 9 in.)
J Maximum Dump Reach, 42-deg. Dump	1.71 m (5 ft. 7 in.)	1.76 m (5 ft. 9 in.)
K Maximum Digging Depth	55 mm (2 in.)	55 mm (2 in.)
L Maximum Rollback at Ground Level	50 deg.	50 deg.
M Maximum Rollback at Full Height	58 deg.	58 deg.
N Bucket Dump at Full Height	40 deg.	40 deg.
O Turning Circle Radius Over Outside of Bucket Edge	3.87 m (12 ft. 8 in.)	4.02 m (13 ft. 2 in.)
P Bucket Width	1.90 m (6 ft. 3 in.)	2.20 m (7 ft. 3 in.)
Q Tread Width (standard) ⁸	1510 mm (4 ft. 11 in.)	1510 mm (4 ft. 11 in.)
R Width Over Tires (standard) ⁸	1920 mm (6 ft. 4 in.)	1920 mm (6 ft. 4 in.)
Loader Clearance Circle, Bucket Carry Position	7.73 m (25 ft. 4 in.)	8.03 m (26 ft. 4 in.)
⁸ Also see Tires/Wheels section on page 13.		
Specifications with Quik-Tatch Coupler and Bucket		
Capacity, Heaped (SAE)	0.8 m³ (1.0 cu. yd.)	1.1 m³ (1.4 cu. yd.)
Capacity, Struck (SAE)	0.66 m³ (0.86 cu. yd.)	0.9 m³ (1.18 cu. yd.)
Breakout Force (SAE J732C)	3645 kg (8,036 lb.)	3295 kg (7,264 lb.)
Tipping Load, Straight	3620 kg (7,981 lb.)	3500 kg (7,716 lb.)
Tipping Load, Full Turn (SAE)	3310 kg (7,297 lb.)	3200 kg (7,055 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	1655 kg (3,649 lb.)	1600 kg (3,527 lb.)

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with Quik-Tatch Coupler and Fork 244L



244L Z-BAR LOADER WITH QUIK-TATCH COUPLER AND FORK

Standard Linkage

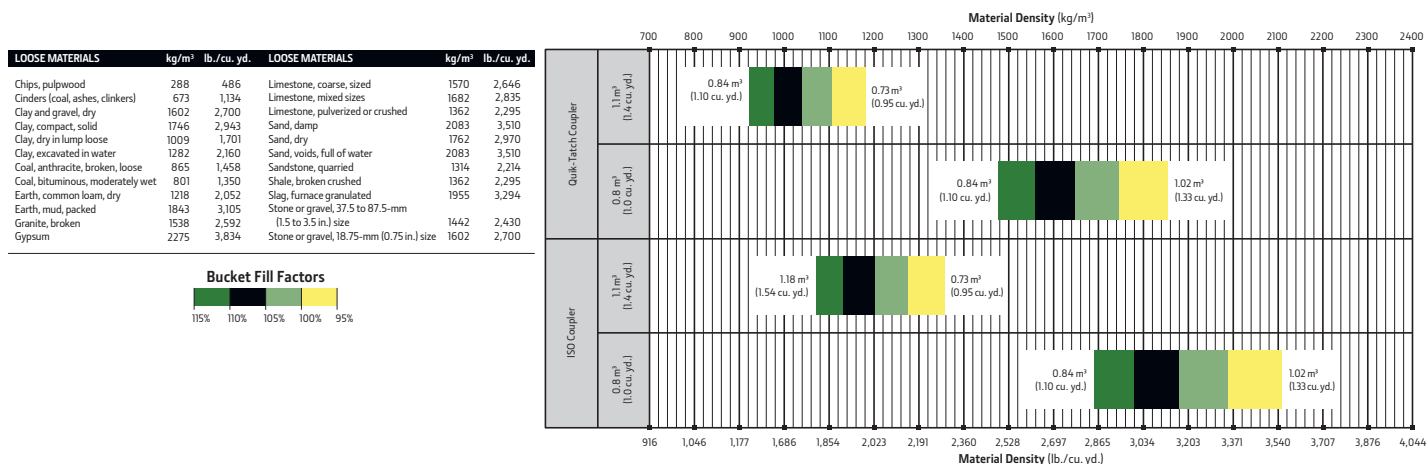
Dimensions with Quik-Tatch Coupler and Fork	
A	Height to Top of Cab
B	Height to Top of Exhaust
C	Ground Clearance
D	Length from Centerline to Front Axle
E	Wheelbase
F	Overall Length, Forks on Ground
G	Height to Hinge Pin, Fully Raised
H	Reach, Fully Raised
I	Fork Height, Fully Raised
J	Maximum Reach, Fork Level
K	Fork Height, Maximum Reach
L	Reach, Ground Level
M	Depth Below Ground
N	Tine Length
O	Load Position, 50% Tine Length

As measured with fork level, centered on tine

Specifications with Quik-Tatch Coupler and Fork	
Tipping Load, Straight	3060 kg (6,746 lb.)
Tipping Load, Full Turn (SAE)	2800 kg (6,173 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to SAE J1197 / ISO 14397-1)*	1400 kg (3,086 lb.)†
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	1680 kg (3,704 lb.)†
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	2160 kg (4,762 lb.)†

*Rated operating capacity based on Deere attachments only. / †Payload on forks is limited by tilt cylinder.

Bucket Selection Guide*





324L SPECIFICATIONS

Engine	324L
Manufacturer and Model	Yanmar 4TNV98CT
Non-Road Emission Standard	EPA Final Tier 4 (FT4)
Cylinders	4
Valves per Cylinder	4
Displacement	3.3 L (203 cu. in.)
Net Peak Power at 2,400 rpm (SAE J1349 / ISO 9249)	52 kW (71 hp)
Gross Rated Power at 2,400 rpm (ISO 14396)	54 kW (73 hp)
Peak Torque at 1,560 rpm	280 Nm (206 lb.-ft.)
Engine Bore and Stroke	98 x 110 mm (3.89 x 4.33 in.)
Lubrication	Pressure system with full-flow spin-on filter
Aspiration	Turbocharged
Air Cleaner	Dual safety element dry type
Cooling	
Fan	Hydraulically driven, proportionally controlled
Engine Coolant Rating	−37 deg. C (−34 deg. F)
Powertrain	
Type	Hydrostatic (HST) with infinitely variable speed control over full range of operating speeds; 2 speed ranges; joystick-mounted F-N-R; acceleration pedal; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow
2 Travel Speeds in Forward and Reverse (equipped with 405/70R20 tires)	
Gear 1	18 km/h (11.0 mph)
Gear 2	38 km/h (23.5 mph)
Axles	Fixed, 100% differential, manually engaged front axle; fixed, conventional differential rear axle
Rear Axle Oscillation Versus Front Axle	16 deg. total, stop to stop
Differentials	Manual (push-button) 100% locking front, conventional rear
Maximum Rise and Fall, Single Wheel	370 mm (14.5 in.)
Steering	Hydraulic power steering (SAE J1511); 30-deg. articulation left and right with mechanical-actuated rear-wheel steering
Steering Wheel Turns, Stop to Stop	4¼ (2 left / 2¼ right)
Articulation Angle	60-deg. arc (30 deg. each direction)
Final Drive	Heavy-duty outboard planetary
Brakes (SAE J1473 / ISO 3450)	
Service Brakes	Hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake
Parking Brake	Automatically spring-applied, hydraulically released, internal wet disc
Hydraulics	
Main Pump (loader and steering)	Fixed-displacement gear pump; open-center system
Standard	93 L/m (25 gpm)
Total with High-Flow Option	132 L/m (35 gpm)
Maximum Pressure at Couplings	21 000 kPa (3,045 psi)
System Relief Pressure	
Loader	18 960 kPa (2,750 psi)
Steering	18 000 kPa (2,611 psi)
Hydraulic Cycle Times	
Raise	5.6 sec.
Dump	2.0 sec.
Lower	4.4 sec.
Total	12.0 sec.
Controls	Pilot-operated, 3-function valve with single-lever control for boom and bucket, standard pin disconnect and 3rd-function proportional electrohydraulic (EH) auxiliary hydraulics
Cylinders	
Type	Heat-treated, chrome-plated, polished cylinder rods; hardened steel (replaceable bushings) pivot pins
Electrical	
Type	Electrical load center with blade-type multi-fused circuits
Voltage	12 volt

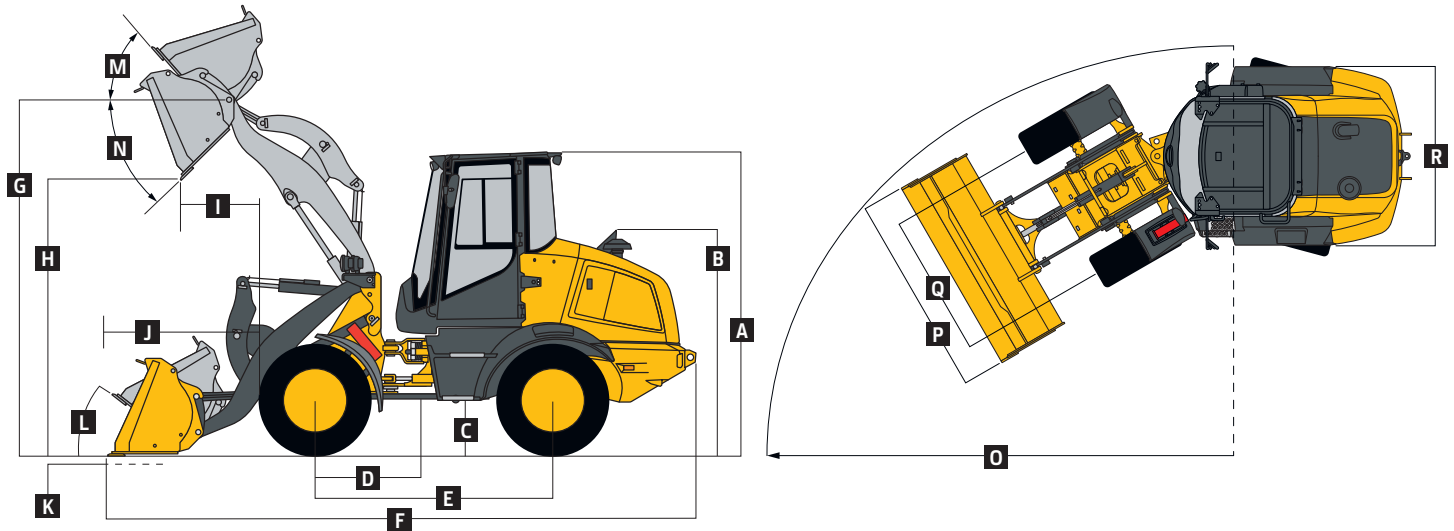
324L SPECIFICATIONS



Electrical (continued)		324L	
Number of Batteries	1		
Battery Capacity	925 CCA		
Alternator Rating	80 amp		
Lights (SAE 99)	Driving/front working lights (2), turn signals, flashers, and stop- and taillights		
Operator Station			
Noise Level			
Operator Ear (ISO 6396)	68 dBA		
Bystander (ISO 6395)	101 dBA		
Tires/Wheels			
Tires on Single-Piece Rims	Tread Width*	Width Over Tires†	Change in Vertical Height
405/70R18 Firestone Duraforce (standard)	1630 mm (5 ft. 4 in.)	2090 mm (6 ft. 10 in.)	0 mm (0 in.)
405/70R20 Mitas EM-01 (optional)	1630 mm (5 ft. 4 in.)	2090 mm (6 ft. 10 in.)	+27 mm (+1.0 in.)
400/70R20 Michelin Bibload (optional)	1630 mm (5 ft. 4 in.)	2080 mm (6 ft. 10 in.)	+15 mm (+1.0 in.)
400/70R20 Michelin XMCL (optional)	1630 mm (5 ft. 4 in.)	2090 mm (6 ft. 10 in.)	+21 mm (+1.0 in.)
*Also see Q in Dimensions section on pages 20 and 22. / †Also see R in Dimensions section on pages 20 and 22.			
Serviceability			
Refill Capacities			
Cooling System (engine and radiator)	12.1 L (12.7 qt.)		
Differential and Planetary Axle			
Front	7.4 L (7.8 qt.)		
Rear	6.8 L (7.2 qt.)		
Engine Oil with Filter	10 L (10.8 qt.)		
Fuel Tank	90 L (23.8 gal.)		
Hydraulic/HST Reservoir with Filter	66 L (17.4 gal.)		
HST Motor Gearbox	1.7 L (1.8 qt.)		
Front/Rear Axle Planetary Hubs (each)	0.8 L (1.0 qt.)		
Operating Weights			
With standard equipment, 405/70R20 tires, standard counterweight, cab, 79-kg (175 lb.) operator, and full fuel tank			
ISO Quick-Coupler			
With 1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	6400 kg (14,110 lb.)		
With 1.6-m³ (2.1 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	6465 kg (14,253 lb.)		
With Fork	6175 kg (13,614 lb.)		
Quik-Tatch™ Quick-Coupler			
With 1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	6590 kg (14,528 lb.)		
With 1.6-m³ (2.1 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	6675 kg (14,716 lb.)		
With Fork	6290 kg (13,867 lb.)		
Optional Components			
ISO Quick-Coupler			
0.8-m³ (1.0 cu. yd.) General-Purpose Bucket with Bolt-On Edge	337 kg (743 lb.)		
1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	457 kg (1,008 lb.)		
1.6-m³ (2.1 cu. yd.) Light-Material Bucket with Bolt-On Cutting Edge	520 kg (1,146 lb.)		
Fork Frame and Forks (Class 2)	240 kg (511 lb.)		
Quik-Tatch Quick-Coupler			
0.8-m³ (1.0 cu. yd.) General-Purpose Bucket with Bolt-On Edge	535 kg (1,179 lb.)		
1.1-m³ (1.4 cu. yd.) Stockpiling/General-Purpose Bucket with Bolt-On Edge	645 kg (1,421 lb.)		
1.6-m³ (2.1 cu. yd.) Light-Material Bucket with Bolt-On Cutting Edge	730 kg (1,609 lb.)		
Fork Frame and Severe-Duty (SD) Forks (Class 3B)	336 kg (741 lb.)		

Dimensions and Specifications with ISO Quick-Coupler and Bucket

324L



324L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH ISO QUICK-COUPLER AND BUCKET

	Standard Linkage 1.1-m ³ (1.4 cu. yd.) stock- piling/general-purpose with bolt-on edge	Standard Linkage 1.6-m ³ (2.1 cu. yd.) light-material with bolt-on edge	High-Lift Linkage 0.8-m ³ (1.0 cu. yd.) with bolt-on edge	High-Lift Linkage 1.6-m ³ (2.1 cu. yd.) with bolt-on edge
Dimensions with ISO Quick-Coupler and Bucket				
A Height to Top of Cab	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)
B Height to Top of Exhaust	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)
C Ground Clearance	295 mm (12 in.)	295 mm (12 in.)	295 mm (12 in.)	295 mm (12 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)
F Overall Length, Bucket on Ground	5.65 m (18 ft. 6 in.)	5.83 m (19 ft. 1 in.)	6.03 m (19 ft. 9 in.)	6.21 m (20 ft. 4 in.)
G Height to Hinge Pin, Fully Raised	3.35 m (11 ft. 0 in.)	3.35 m (11 ft. 0 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)
H Dump Clearance, 42-deg. ^a Full Height	2.61 m (8 ft. 7 in.)	2.52 m (8 ft. 3 in.)	3.13 m (10 ft. 3 in.)	3.00 m (9 ft. 10 in.)
I Reach, 42-deg. ^a Dump, Full Height	920 mm (3 ft. 0 in.)	950 mm (3 ft. 1 in.)	865 mm (34 in.)	934 mm (3 ft. 1 in.)
J Maximum Dump Reach, 42-deg. Dump	1.66 m (5 ft. 5 in.)	1.69 m (5 ft. 6 in.)	1.93 m (6 ft. 4 in.)	2.00 m (6 ft. 7 in.)
K Maximum Digging Depth	90 mm (3.5 in.)	90 mm (3.5 in.)	97 mm (3.8 in.)	97 mm (3.8 in.)
L Maximum Rollback at Ground Level	40 deg.	40 deg.	40 deg.	40 deg.
M Maximum Rollback at Full Height	55 deg.	55 deg.	54 deg.	54 deg.
N Bucket Dump at Full Height	42 deg.	42 deg.	38 deg.	38 deg.
O Turning Circle Radius Over Outside of Bucket Edge	4.14 m (13 ft. 7 in.)	4.28 m (14 ft. 0 in.)	4.21 m (13 ft. 10 in.)	4.49 m (14 ft. 9 in.)
P Bucket Width	2.20 m (7 ft. 3 in.)	2.40 m (7 ft. 10 in.)	1.90 m (6 ft. 3 in.)	2.40 m (7 ft. 10 in.)
Q Tread Width (standard) [§]	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)
R Width Over Tires (standard) [§]	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)
Loader Clearance Circle, Bucket Carry Position	8.28 m (27 ft. 2 in.)	8.55 m (28 ft. 1 in.)	8.42 m (27 ft. 7 in.)	8.98 m (29 ft. 6 in.)

^a38 deg. for High-Lift Linkage.

[§]Also see **Tires/Wheels** section on page 19.

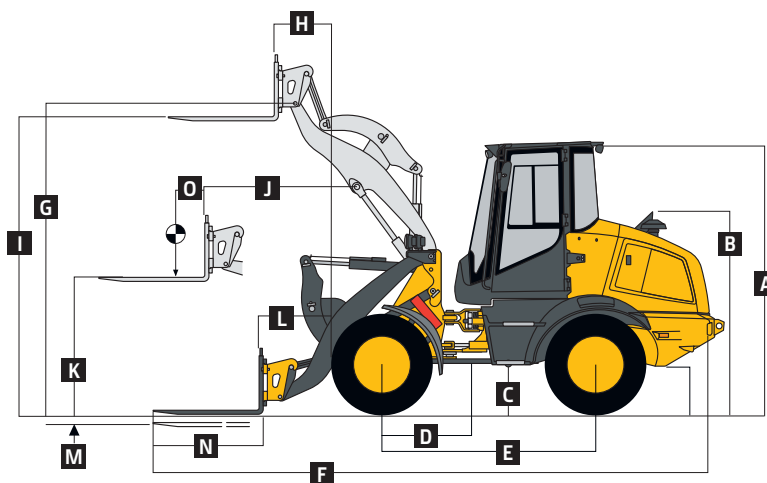
Specifications with ISO Quick-Coupler and Bucket

Capacity, Heaped (SAE)	1.1 m ³ (1.4 cu. yd.)	1.6 m ³ (2.1 cu. yd.)	0.8 m ³ (1.0 cu. yd.)	1.6 m ³ (2.1 cu. yd.)
Capacity, Struck (SAE)	0.9 m ³ (1.2 cu. yd.)	1.4 m ³ (1.8 cu. yd.)	0.66 m ³ (0.86 cu. yd.)	1.4 m ³ (1.8 cu. yd.)
Breakout Force (SAE J732C)	5650 kg (12,456 lb.)	5180 kg (11,420 lb.)	6000 kg (13,228 lb.)	5160 kg (11,376 lb.)
Tipping Load, Straight	4850 kg (10,692 lb.)	4750 kg (10,472 lb.)	4280 kg (9,436 lb.)	4040 kg (8,907 lb.)
Tipping Load, Full Turn (SAE)	4430 kg (9,766 lb.)	4320 kg (9,524 lb.)	3890 kg (8,576 lb.)	3670 kg (8,091 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	2215 kg (4,883 lb.)	2160 kg (4,762 lb.)	1945 kg (4,288 lb.)	1835 kg (4,045 lb.)

*Rated operating capacity based on Deere attachments only.

**Dimensions and Specifications with
ISO Quick-Coupler and Fork**

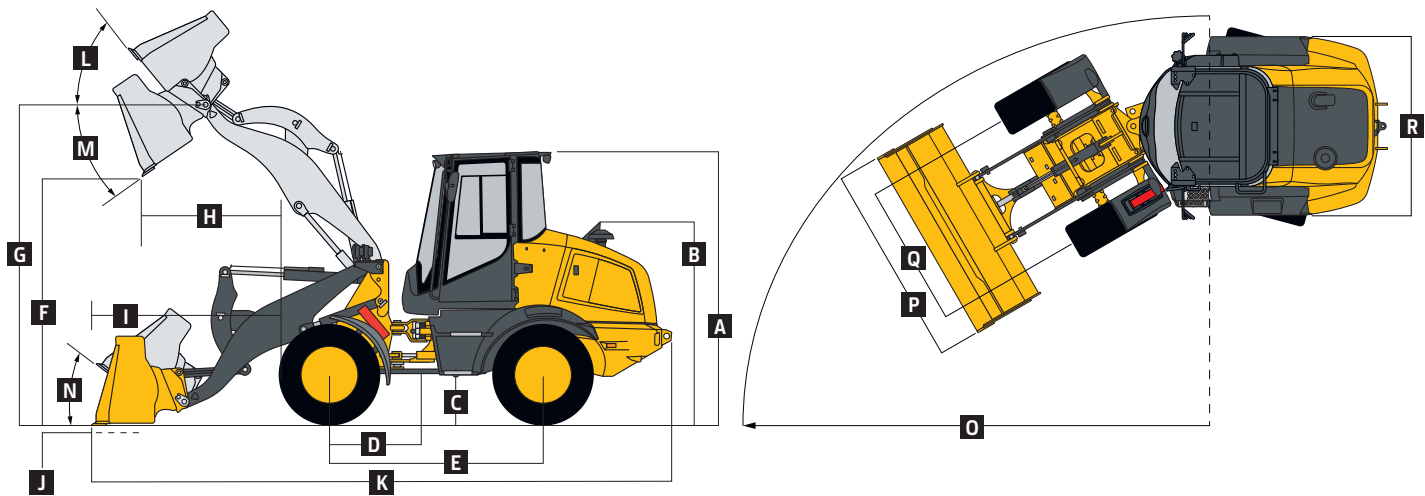
324L


324L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH ISO QUICK-COUPLER AND FORK

	<i>Standard Linkage</i>	<i>High-Lift Linkage</i>
Dimensions with ISO Quick-Coupler and Fork	<i>1.20-m (48 in.) tine length</i>	<i>1.20-m (48 in.) tine length</i>
A Height to Top of Cab	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)
B Height to Top of Exhaust	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)
C Ground Clearance	295 mm (12 in.)	295 mm (12 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)
F Overall Length, Forks on Ground	6.23 m (20 ft. 5 in.)	6.62 m (21 ft. 9 in.)
G Height to Hinge Pin, Fully Raised	3.35 m (11 ft. 0 in.)	3.79 m (12 ft. 5 in.)
H Reach, Fully Raised	570 mm (22 in.)	500 mm (20 in.)
I Fork Height, Fully Raised	3.18 m (10 ft. 5 in.)	3.62 m (11 ft. 10 in.)
J Maximum Reach, Fork Level	1.33 m (4 ft. 4 in.)	1.34 m (4 ft. 5 in.)
K Fork Height, Maximum Reach	1.49 m (4 ft. 11 in.)	1.49 m (4 ft. 11 in.)
L Reach, Ground Level	815 mm (32 in.)	1200 mm (4 ft. 0 in.)
M Depth Below Ground	65 mm (2.6 in.)	85 mm (3.3 in.)
N Tine Length	1.20 m (48 in.)	1.20 m (48 in.)
O Load Position, 50% Tine Length	600 mm (24 in.)	600 mm (24 in.)
Specifications with ISO Quick-Coupler and Fork	<i>As measured with fork level, centered on tine</i>	<i>As measured with fork level, centered on tine</i>
Tipping Load, Straight	3840 kg (8,466 lb.)	3400 kg (7,496 lb.)
Tipping Load, Full Turn (SAE)	3500 kg (7,716 lb.)	3090 kg (6,812 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to SAE J1197 / ISO 14397-1)*	1750 kg (3,858 lb.) [†]	1545 kg (3,406 lb.) [†]
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	2100 kg (4,630 lb.) [†]	1850 kg (4,079 lb.) [†]
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	2500 kg (5,512 lb.) ^{†§}	2470 kg (5,445 lb.) [†]

*Rated operating capacity based on Deere attachments only. / [†]Payload on forks is limited by tilt cylinder.

[§]2,500-kg (5,512 lb.) maximum load capacity for the fork carrier (for standard linkage only).



324L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH QUIK-TATCH COUPLER AND BUCKET

	Standard Linkage 1.1-m³ (1.4 cu. yd.) stock- piling/general-purpose with bolt-on edge	Standard Linkage 1.6-m³ (2.1 cu. yd.) light-material with bolt-on edge	High-Lift Linkage 0.8-m³ (1.0 cu. yd.) stock- piling/general-purpose with bolt-on edge	High-Lift Linkage 1.6-m³ (2.1 cu. yd.) light-material with bolt-on edge
Dimensions with Quik-Tatch Coupler and Bucket				
A Height to Top of Cab	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)
B Height to Top of Exhaust	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)
C Ground Clearance	295 mm (12 in.)	295 mm (12 in.)	295 mm (12 in.)	295 mm (12 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)
F Dump Clearance, 40-deg. ^A Full Height	2.52 m (8 ft. 3 in.)	2.45 m (8 ft. 0 in.)	3.06 m (10 ft. 0 in.)	2.95 m (9 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.35 m (11 ft. 0 in.)	3.35 m (11 ft. 0 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)
H Reach, 40-deg. ^A Dump, Full Height	1.90 m (6 ft. 3 in.)	1.99 m (6 ft. 6 in.)	1.10 m (3 ft. 7 in.)	1.26 m (4 ft. 2 in.)
I Maximum Dump Reach, 42 deg.	1.16 m (3 ft. 10 in.)	1.26 m (4 ft. 1 in.)	2.15 m (7 ft. 1 in.)	2.40 m (7 ft. 10 in.)
J Maximum Digging Depth	69 mm (2.7 in.)	69 mm (2.7 in.)	80 mm (3.1 in.)	80 mm (3.1 in.)
K Overall Length, Bucket on Ground	5.91 m (19 ft. 5 in.)	6.04 m (19 ft. 10 in.)	6.26 m (20 ft. 6 in.)	6.45 m (21 ft. 2 in.)
L Maximum Rollback at Full Height	58 deg.	58 deg.	56 deg.	56 deg.
M Bucket Dump at Full Height	40 deg.	40 deg.	42 deg.	42 deg.
N Maximum Rollback at Ground Level	50 deg.	50 deg.	40 deg.	40 deg.
O Turning Circle Radius Over Outside of Bucket Edge	4.19 m (13 ft. 9 in.)	4.32 m (14 ft. 2 in.)	4.26 m (14 ft. 0 in.)	4.54 m (14 ft. 11 in.)
P Bucket Width	2.20 m (7 ft. 3 in.)	2.40 m (7 ft. 10 in.)	2.20 m (7 ft. 3 in.)	2.40 m (7 ft. 10 in.)
Q Tread Width (standard) ^B	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)	1630 mm (5 ft. 4 in.)
R Width Over Tires (standard) ^B	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)	2090 mm (6 ft. 10 in.)
Loader Clearance Circle, Bucket Carry Position	8.37 m (27 ft. 6 in.)	8.63 m (28 ft. 4 in.)	8.52 m (27 ft. 11 in.)	9.07 m (29 ft. 9 in.)

^A35 deg. for High-Lift Linkage.

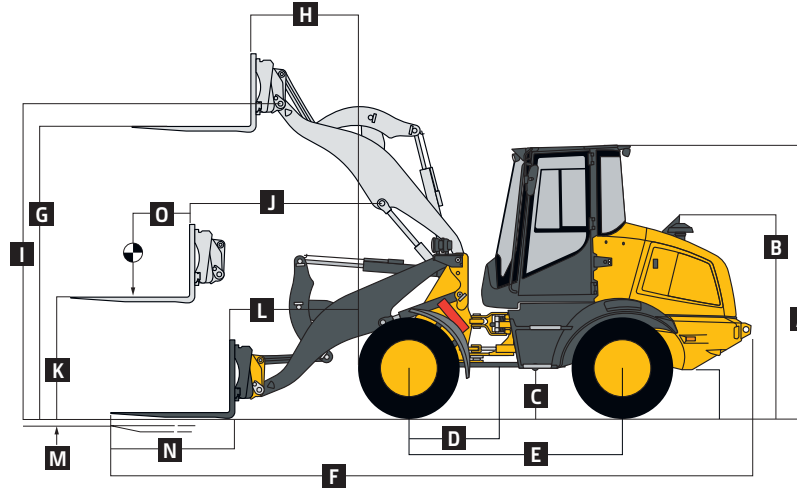
^BAlso see **Tires/Wheels** section on page 19.

Specifications with Quik-Tatch Coupler and Bucket

Capacity, Heaped (SAE)	1.1 m³ (1.4 cu. yd.)	1.6 m³ (2.0 cu. yd.)	0.8 m³ (1.0 cu. yd.)	1.6 m³ (2.1 cu. yd.)
Capacity, Struck (SAE)	0.9 m³ (1.2 cu. yd.)	1.4 m³ (1.8 cu. yd.)	0.66 m³ (0.86 cu. yd.)	1.4 m³ (1.8 cu. yd.)
Breakout Force (SAE J732C)	4590 kg (10,119 lb.)	3875 kg (8,543 lb.)	5100 kg (11,244 lb.)	3960 kg (8,730 lb.)
Tipping Load, Straight	4625 kg (10,196 lb.)	3520 kg (7,760 lb.)	3685 kg (8,124 lb.)	3450 kg (7,606 lb.)
Tipping Load, Full Turn (SAE)	4200 kg (9,259 lb.)	4100 kg (9,039 lb.)	3350 kg (7,385 lb.)	3140 kg (6,923 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	2100 kg (4,630 lb.)	2050 kg (4,519 lb.)	1675 kg (3,693 lb.)	1570 kg (3,461 lb.)

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with Quik-Tatch Coupler and Fork 324L



324L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH QUIK-TATCH COUPLER AND FORK

Dimensions with Quik-Tatch Coupler and Fork	Standard Linkage 1.20-m (48 in.) tine length	High-Lift Linkage 1.20-m (48 in.) tine length
A Height to Top of Cab	2.78 m (9 ft. 1 in.)	2.78 m (9 ft. 1 in.)
B Height to Top of Exhaust	2.01 m (6 ft. 7 in.)	2.01 m (6 ft. 7 in.)
C Ground Clearance	295 mm (12 in.)	295 mm (12 in.)
D Length from Centerline to Front Axle	750 mm (30 in.)	750 mm (30 in.)
E Wheelbase	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)
F Overall Length, Forks on Ground	6.30 m (20 ft. 8 in.)	6.66 m (21 ft. 10 in.)
G Height to Hinge Pin, Fully Raised	3.35 m (11 ft. 0 in.)	3.79 m (12 ft. 5 in.)
H Reach, Fully Raised	615 mm (24 in.)	580 mm (23 in.)
I Fork Height, Fully Raised	3.15 m (10 ft. 4 in.)	3.59 m (11 ft. 9 in.)
J Maximum Reach, Fork Level	1.37 m (4 ft. 6 in.)	1.70 m (5 ft. 7 in.)
K Fork Height, Maximum Reach	1.46 m (4 ft. 9 in.)	1.46 m (4 ft. 9 in.)
L Reach, Ground Level	855 mm (34 in.)	1240 mm (4 ft. 1 in.)
M Depth Below Ground	95 mm (4 in.)	110 mm (4.3 in.)
N Tine Length	1.20 m (48 in.)	1.20 m (48 in.)
O Load Position, 50% Tine Length	600 mm (24 in.)	600 mm (24 in.)
Specifications with Quik-Tatch Coupler and Fork	<i>As measured with fork level, centered on tine</i>	<i>As measured with fork level, centered on tine</i>
Tipping Load, Straight	3690 kg (8,135 lb.)	3250 kg (7,165 lb.)
Tipping Load, Full Turn (SAE)	3350 kg (7,385 lb.)	2960 kg (6,526 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to SAE J1197 / ISO 14397-1)*	1675 kg (3,693 lb.)†	1480 kg (3,263 lb.)†
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	2000 kg (4,409 lb.)†	1770 kg (3,902 lb.)†
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	2500 kg (5,512 lb.)‡§	2370 kg (5,225 lb.)†

*Rated operating capacity based on Deere attachments only.

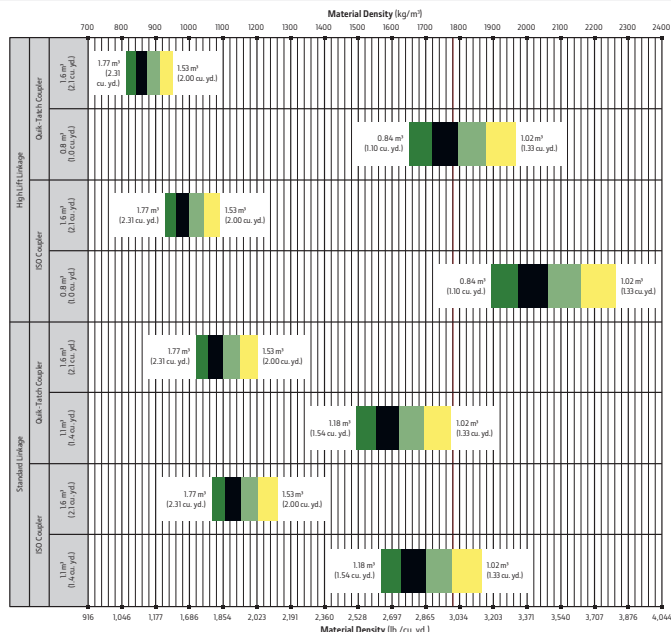
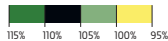
†Payload on forks is limited by tilt cylinder.

‡5,200-kg (5,512 lb.) maximum load capacity for the fork carrier (for standard linkage only).

Bucket Selection Guide*

LOOSE MATERIALS	kg/m³	lb./cu. yd.	LOOSE MATERIALS	kg/m³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	1009	1,701	Sand, dry	1762	2,970
Clay, excavated in water	1282	2,160	Sand, voids, full of water	2083	3,510
Coal, anthracite, broken, loose	865	1,458	Sandstone, quarried	1314	2,214
Coal, bituminous, moderately wet	801	1,350	Shale, broken crushed	1362	2,295
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955	3,294
Earth, mud, packed	1843	3,105	Stone or gravel, 37.5 to 87.5-mm (1.5 to 3.5 in.) size	1442	2,430
Granite, broken	1538	2,592	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700
Gypsum	2275	3,834			

Bucket Fill Factors





344L SPECIFICATIONS

Engine		344L	
Manufacturer and Model		John Deere PowerTech™ 4045T with turbocharger	
Non-Road Emission Standard		EPA Final Tier 4/EU Stage IV	
Cylinders		4	
Displacement		4.5 L (275 cu. in.)	
Maximum Peak Power (ISO 9249)		76 kW (103 hp) at 2,000 rpm	
Maximum Gross Output (ISO 3046 and SAE J1995)		78 kW (106 hp) at 2,000 rpm	
Net Peak Torque (ISO 9249 and SAE J1349)		405 Nm (299 lb.-ft.) at 1,600 rpm	
Lubrication		Pressure system with full-flow spin-on filter	
Aspiration		Turbocharged, charge air cooled	
Cooling			
Fan		Suction type, hydraulically driven, proportionally controlled	
Engine Coolant Rating		−37 deg. C (−34 deg. F)	
Powertrain			
Hydrostatic (HST) with infinitely variable speed control over full range of operating speeds; 2 speed ranges; low-effort electric shift; joystick-mounted F-N-R; HST inching pedal allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow			
2 Travel Speeds in Forward and Reverse (equipped with tires indicated as standard)			
Gear 1		18.0 km/h (11.2 mph)	
Gear 2		40.0 km/h (24.9 mph)	
Axles		Rear center-pivot axle with 10-deg. rear axle oscillation and 10-deg. frame oscillation	
Rear Axle Oscillation Versus Front Axle		20 deg. total, stop to stop	
Differentials		Hydraulic 100% dif-lock front and conventional rear differential	
Steering (SAE J1511)		Hydraulic power steering; 30-deg. articulation left and right with mechanical-actuated rear-wheel steering	
Articulation Angle		60-deg. arc (30 deg. each direction)	
Final Drive		Heavy-duty planetary, mounted outboard	
Brakes (SAE J1473 and ISO 3450)			
Service Brakes		Hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake	
Parking Brake		Automatically spring-applied, hydraulically released, internal wet disc	
Hydraulics			
Main Pump (loader and steering)		Constant-displacement gear pump	
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,400 rpm		115 L/m (30 gpm)	
System Relief Pressure (loader and steering)		24 000 kPa (3,480 psi)	
Hydraulic Cycle Time			
Raise		6.9 sec.	
Dump		3.0 sec.	
Lower (float down)		4.9 sec.	
Lower (power down)		4.0 sec.	
Total (with original pump)		13.9 sec.	
Controls		Pilot-operated, pressure-compensating, 2-function valve with unloader; single-lever control and control-lever lockout feature; optional 3rd-function valve	
Electrical			
Type		Electrical load center with blade-type multi-fused circuits	
Voltage		12 volt	
Battery Capacity		1,700 CCA	
Reserve Capacity		176 min.	
Alternator Rating		90 amp	
Lights		2 front and 2 rear standard / optional LED field kit	
Tires/Wheels			
Tires on Single-Piece Rims		Tread Width*	Width Over Tires†
17.5R25EM, Goodyear SGL-D/L 2A, 12 PR 4S (standard)		1869 mm (6 ft. 2 in.)	2380 mm (7 ft. 10 in.)
17.5R25EM, XHA2 L3 Michelin (optional)		1869 mm (6 ft. 2 in.)	2370 mm (7 ft. 9 in.)
17.5R25 VUT L2 Bridgestone (optional)		1869 mm (6 ft. 2 in.)	2360 mm (7 ft. 9 in.)
17.5R25EM, XTLA L2 Michelin (optional)		1869 mm (6 ft. 2 in.)	2380 mm (7 ft. 10 in.)
			Change in Vertical Height
			0 mm (0 in.)
			0 mm (0 in.)
			+17 mm (+0.7 in.)
			−29 mm (−1.1 in.)
*Also see Q in Dimensions section on pages 25 and 26. / †Also see R in Dimensions section on pages 25 and 26.			
Serviceability			
Refill Capacities			
Cooling System (engine and radiator)		21.0 L (22.2 qt.)	
Differential and Planetary Axle (front and rear [each])		7.5 L (7.9 qt.)	
Engine Oil with Filter		14.0 L (14.8 qt.)	
Fuel Tank		155.0 L (40.9 gal.)	
Hydraulic/HST Reservoir with Filter		115.0 L (30.4 gal.)	

344L SPECIFICATIONS



Serviceability (continued)

344L

Refill Capacities (continued)

HST Motor Gearbox	2.0 L (2.1 qt.)
Front/Rear Axle Planetary Hubs (each)	0.8 L (25.4 oz.)

Operating Weights

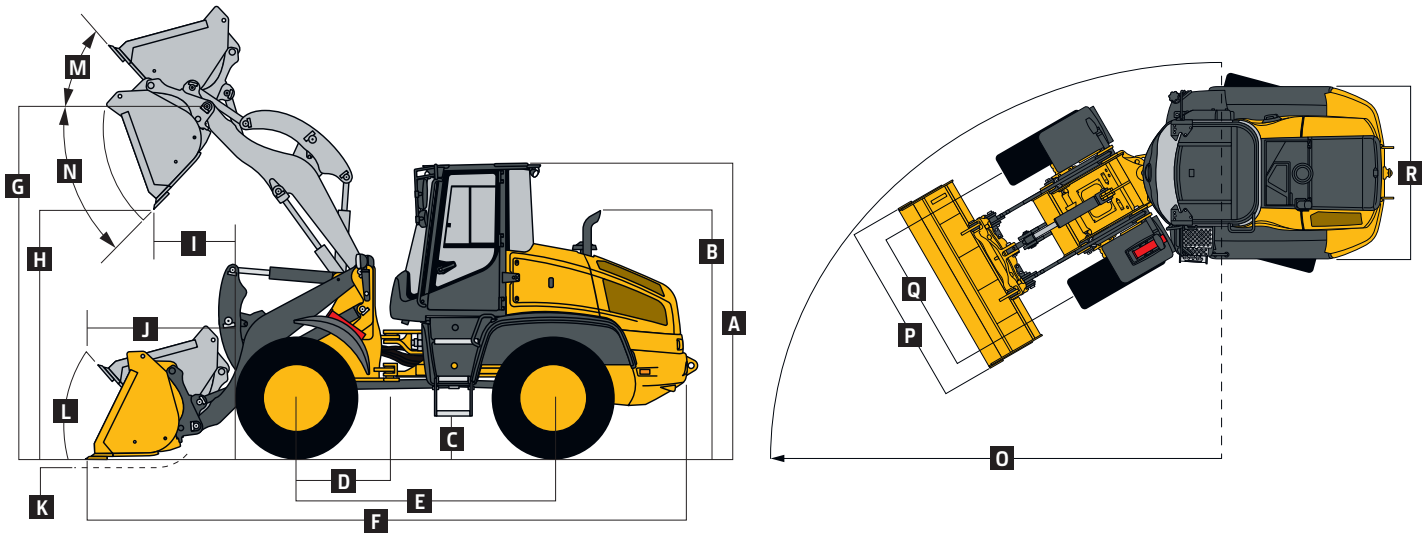
Measured with standard equipment; 17.5R25EM, XHA2 L3 Michelin tires; standard counterweight; cab; 79-kg (175 lb.) operator; and full fuel tank

With 1.5-m ³ (2.0 cu. yd.) Pin-On General-Purpose Bucket with Bolt-On Edge	8860 kg (19,533 lb.)
With Quick-Coupler and 1.5-m ³ (2.0 cu. yd.) General-Purpose Bucket with Bolt-On Edge	9070 kg (19,996 lb.)
With Quick-Coupler and 2.0-m ³ (2.6 cu. yd.) Light-Material Bucket with Bolt-On Edge	9250 kg (20,393 lb.)
Loader with Quick-Coupler and Fork	8930 kg (19,687 lb.)

Optional Components

Bucket, 1.5 m ³ (2.0 cu. yd.), Pin-On	660 kg (1,455 lb.)
Bucket, 1.5 m ³ (2.0 cu. yd.)	628 kg (1,385 lb.)
Bucket, 2.0 m ³ (2.6 cu. yd.)	757 kg (1,669 lb.)

Dimensions and Specifications with Pin-On Bucket



344L STANDARD-LINKAGE / HIGH-LIFT LINKAGE LOADERS WITH PIN-ON BUCKET

Dimensions with Pin-On Bucket

1.5-m³ (2.0 cu. yd.) general-purpose with bolt-on edge

A Height to Top of Cab	3.03 m (9 ft. 11 in.)
B Height to Top of Exhaust	2.53 m (8 ft. 3 in.)
C Ground Clearance	430 mm (16.9 in.)
D Length from Centerline to Front Axle	1.15 m (3 ft. 9 in.)
E Wheelbase	2.60 m (8 ft. 6 in.)
F Overall Length, Bucket on Ground	6.30 m (20 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.72 m (12 ft. 2 in.)
H Dump Clearance, 44-deg. Full Height	2.92 m (9 ft. 7 in.)
I Reach, 44-deg. Dump, Full Height	820 mm (32.3 in.)
J Reach, 44-deg. Dump, 2.13-m (7 ft.) Clearance	1.64 m (5 ft. 5 in.)
K Maximum Digging Depth	75 mm (3 in.)
L Maximum Rollback at Ground Level	48 deg.
M Maximum Rollback, Boom Fully Raised	53 deg.
N Maximum Bucket Dump Angle, Fully Raised	44 deg.
O Turning Circle Radius Measured to Outside Corner of Bucket	4.43 m (14 ft. 6.5 in.)
P Bucket Width	2.40 m (7 ft. 10 in.)
Q Tread Width (standard) ⁶	1869 mm (6 ft. 2 in.)
R Width Over Tires (standard) ⁶	2370 mm (7 ft. 9 in.)
Loader Clearance Circle, Bucket Carry Position	8.86 m (29 ft. 1 in.)

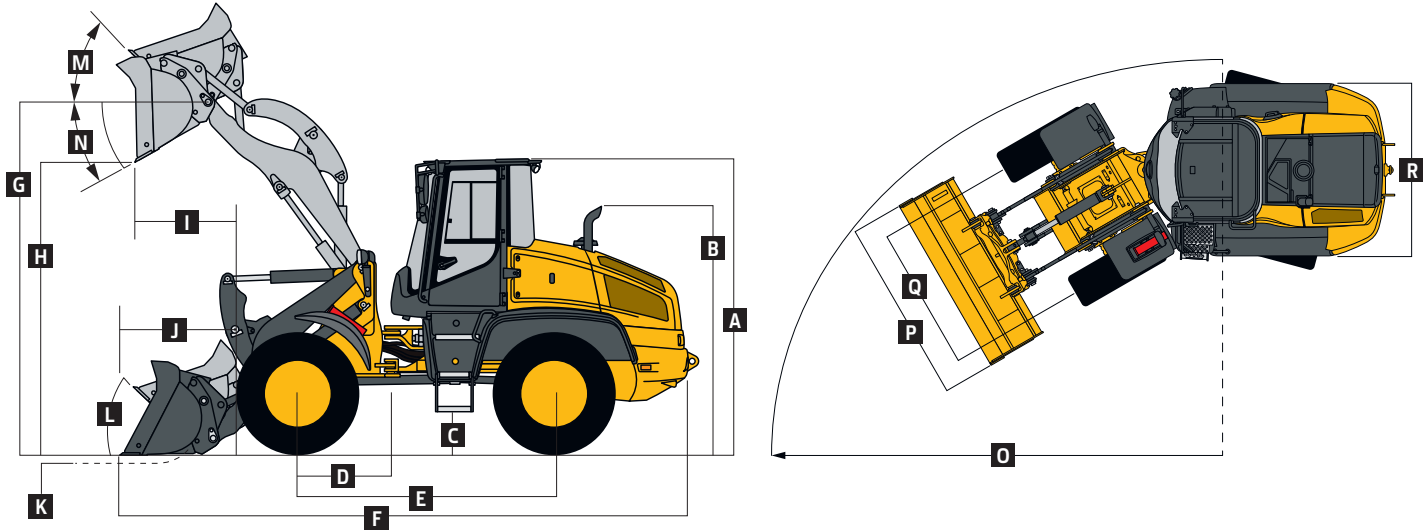
⁶Also see **Tires/Wheels** section on page 24.

Dimensions and Specifications with Pin-On Bucket (continued)

Specifications with Pin-On Bucket	344L
Capacity, Heaped	1.5-m ³ (2.0 cu. yd.) general-purpose with bolt-on edge
Capacity, Struck	1.2 m ³ (1.6 cu. yd.)
Breakout Force	73 kN (16,411 lb.)
Tipping Load, Straight	6240 kg (13,757 lb.)
Tipping Load, Full Turn	5710 kg (12,588 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	2855 kg (6,294 lb.)

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with Quick-Coupler and Bucket



344L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH ISO QUICK-COUPLER AND BUCKET

	Standard Linkage 1.5-m ³ (2.0 cu. yd.) general purpose with bolt-on edge	Standard Linkage 2.0-m ³ (2.6 cu. yd.) light material with bolt-on edge	High-Lift Linkage 1.5-m ³ (2.0 cu. yd.) general purpose with bolt-on edge	High-Lift Linkage 2.0-m ³ (2.6 cu. yd.) light material with bolt-on edge
Dimensions with Quick-Coupler and Bucket				
A Height to Top of Cab	3.03 m (9 ft. 11 in.)	3.03 m (9 ft. 11 in.)	3.03 m (9 ft. 11 in.)	3.03 m (9 ft. 11 in.)
B Height to Top of Exhaust	2.53 m (8 ft. 3 in.)	2.53 m (8 ft. 3 in.)	2.53 m (8 ft. 3 in.)	2.53 m (8 ft. 3 in.)
C Ground Clearance	430 mm (16.9 in.)	430 mm (16.9 in.)	430 mm (16.9 in.)	430 mm (16.9 in.)
D Length from Centerline to Front Axle	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)
E Wheelbase	2.60 m (8 ft. 6 in.)	2.60 m (8 ft. 6 in.)	2.60 m (8 ft. 6 in.)	2.60 m (8 ft. 6 in.)
F Overall Length, Bucket on Ground	6.50 m (21 ft. 4 in.)	6.54 m (21 ft. 5 in.)	6.73 m (22 ft. 1 in.)	6.87 m (22 ft. 6 in.)
G Height to Hinge Pin, Fully Raised	3.72 m (12 ft. 2 in.)	3.72 m (12 ft. 2 in.)	4.01 m (13 ft. 2 in.)	4.01 m (13 ft. 2 in.)
H Dump Clearance, 44-deg. Full Height	2.84 m (9 ft. 4 in.)	2.75 m (9 ft. 0 in.)	3.12 m (10 ft. 3 in.)	3.02 m (9 ft. 11 in.)
I Reach, 44-deg. Dump, Full Height	905 mm (3 ft. 0 in.)	1010 mm (3 ft. 4 in.)	920 mm (3 ft. 0 in.)	1020 mm (3 ft. 4 in.)
J Reach, 44-deg. Dump, 2.13-m (7 ft.) Clearance	1.73 m (5 ft. 8 in.)	1.82 m (5 ft. 11 in.)	1.94 m (6 ft. 4 in.)	2.04 m (6 ft. 8 in.)
K Maximum Digging Depth	70 mm (2.8 in.)	70 mm (2.8 in.)	125 mm (4.9 in.)	125 mm (4.9 in.)
L Maximum Rollback at Ground Level	48 deg.	48 deg.	48 deg.	48 deg.
M Maximum Rollback, Boom Fully Raised	53 deg.	53 deg.	53 deg.	53 deg.
N Maximum Bucket Dump Angle, Fully Raised	44 deg.	44 deg.	44 deg.	44 deg.
O Turning Circle Radius Over Outside of Bucket Edge	4.57 m (14 ft. 11.5 in.)	4.59 m (15 ft. 0.5 in.)	4.62 m (15 ft. 2 in.)	4.74 m (15 ft. 6.5 in.)
P Bucket Width	2.40 m (7 ft. 10 in.)	2.50 m (8 ft. 2 in.)	2.40 m (7 ft. 10 in.)	2.50 m (8 ft. 2 in.)
Q Tread Width (standard) ⁸	1869 mm (6 ft. 2 in.)	1869 mm (6 ft. 2 in.)	1869 mm (6 ft. 2 in.)	1869 mm (6 ft. 2 in.)
R Width Over Tires (standard) ⁸	2370 mm (7 ft. 9 in.)	2370 mm (7 ft. 9 in.)	2370 mm (7 ft. 9 in.)	2370 mm (7 ft. 9 in.)
Loader Clearance Circle, Bucket Carry Position	9.13 m (29 ft. 11 in.)	9.18 m (30 ft. 1 in.)	9.24 m (30 ft. 4 in.)	9.48 m (31 ft. 1 in.)

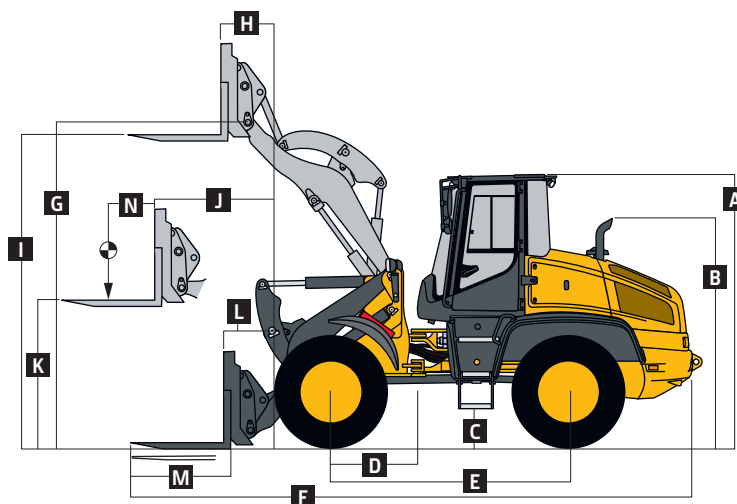
⁸Also see **Tires/Wheels** section on page 24.

Specifications with Quick-Coupler and Bucket

Capacity, Heaped	1.5 m ³ (2.0 cu. yd.)	2.0 m ³ (2.6 cu. yd.)	1.5 m ³ (2.0 cu. yd.)	2.0 m ³ (2.6 cu. yd.)
Capacity, Struck	1.2 m ³ (1.6 cu. yd.)	1.6 m ³ (2.1 cu. yd.)	1.2 m ³ (1.6 cu. yd.)	1.6 m ³ (2.1 cu. yd.)
Breakout Force	64 kN (14,388 lb.)	59 kN (13,264 lb.)	63 kN (14,163 lb.)	59 kN (13,264 lb.)
Tipping Load, Straight	5850 kg (12,897 lb.)	5680 kg (12,522 lb.)	5150 kg (11,354 lb.)	4,955 kg (10,924 lb.)
Tipping Load, Full Turn	5350 kg (11,795 lb.)	5200 kg (11,464 lb.)	4700 kg (10,362 lb.)	4,535 kg (9,998 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	2675 kg (5,897 lb.)	2600 kg (5,732 lb.)	2350 kg (5,181 lb.)	2268 kg (4,999 lb.)

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with Quick-Coupler and Fork 344L

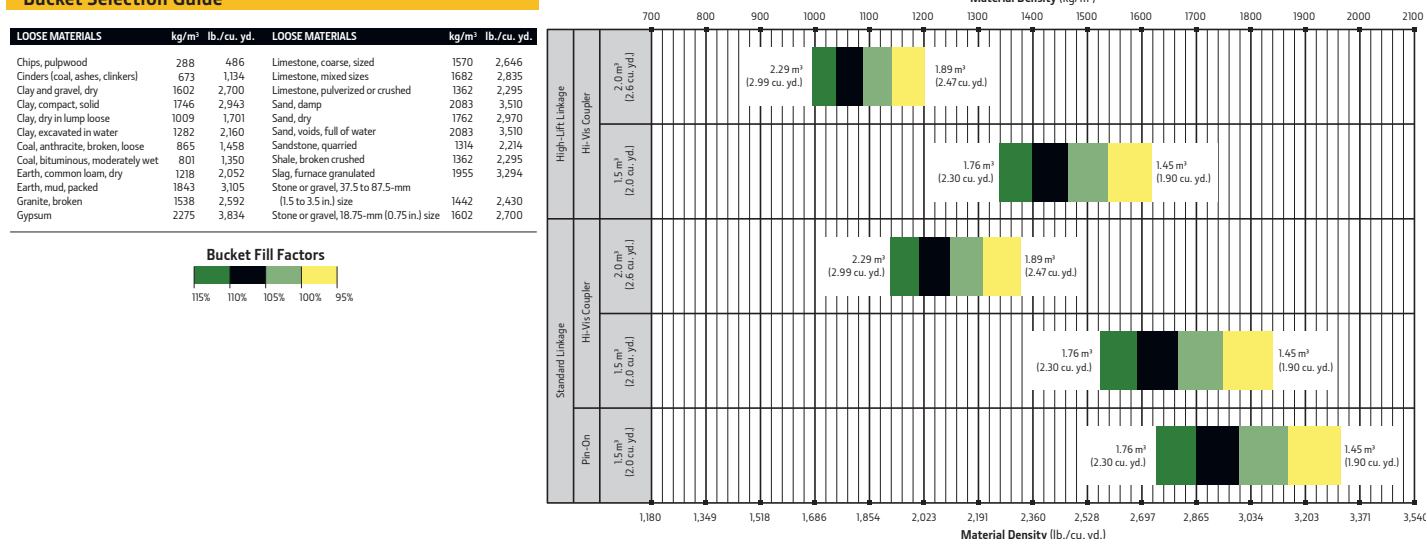


344L STANDARD-LINKAGE / HIGH-LIFT-LINKAGE LOADERS WITH ISO QUICK-COUPLER AND FORK

Dimensions with Quick-Coupler and Fork	Standard Linkage 1.20-m (47.2 in.) tine length	High-Lift Linkage 1.20-m (47.2 in.) tine length
A Height to Top of Cab	3.03 m (9 ft. 11 in.)	3.03 m (9 ft. 11 in.)
B Height to Top of Exhaust	2.53 m (8 ft. 3 in.)	2.53 m (8 ft. 3 in.)
C Ground Clearance	430 mm (16.9 in.)	430 mm (16.9 in.)
D Length from Centerline to Front Axle	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)
E Wheelbase	2.60 m (8 ft. 6 in.)	2.60 m (8 ft. 6 in.)
F Overall Length, Forks on Ground	6.84 m (22 ft. 5 in.)	7.17 m (23 ft. 6 in.)
G Height to Hinge Pin, Fully Raised	3.72 m (12 ft. 2 in.)	4.01 m (13 ft. 2 in.)
H Reach, Fully Raised	615 mm (24.2 in.)	645 mm (25.4 in.)
I Fork Height, Fully Raised	3.58 m (11 ft. 9 in.)	3.87 m (12 ft. 8 in.)
J Maximum Reach, Fork Level	1.46 m (4 ft. 9 in.)	1.71 m (5 ft. 7 in.)
K Fork Height, Maximum Reach	1.75 m (5 ft. 9 in.)	1.73 m (5 ft. 8 in.)
L Reach, Ground Level	765 mm (30.1 in.)	1095 mm (43.1 in.)
M Tine Length	1.20 m (47.2 in.)	1.20 m (47.2 in.)
N Load Position, 50% Tine Length		
Specifications with Quick-Coupler and Fork	As measured with fork level, centered on tine	As measured with fork level, centered on tine
Tipping Load, Straight	4500 kg (9,921 lb.)	3980 kg (8,774 lb.)
Tipping Load, Full Turn	4120 kg (9,083 lb.)	3640 kg (8,025 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1 and SAE J1197)*	2060 kg (4,542 lb.)	1820 kg (4,012 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	2472 kg (5,450 lb.)	2185 kg (4,817 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	3296 kg (7,266 lb.)	2900 kg (6,393 lb.)

*Rated operating capacity based on Deere attachments only.

Bucket Selection Guide*



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

244L	324L	344L	Engine
●	●	●	Antifreeze, -37 deg. C (-34 deg. F)
●	●	●	Coolant recovery tank
●	●	●	Fan safety guard
●	●	●	Fan, suction type, hydraulically driven, proportional speed
●	●	●	Environmentally friendly engine oil drain
●	●	●	Spin-on engine oil and fuel filter
●	●	●	Engine oil cooler
●	●	●	Quick-release fuel filter and water separator
●	●	●	Under-hood dual-element air cleaner with restriction indicator with dust-evacuator valve
●	●	●	Prescreened air intake
●	●	●	Automatic glow plugs for cold start
▲	▲	▲	Engine coolant heater, 110 volts
Electrical			
●	●	●	Starter switch with electric fuel cutoff
●	●	●	12-volt system
●	●	●	Electrical load center with blade-type fuses behind operator's seat
●	●	●	Standard 925-CCA battery
●	●	●	Standard batteries (2), 12 volt with 1,700 CCA, 176-min. rated reserve
●	●	●	Master electrical disconnect switch
●	●	●	Alternator, 12 volts (80 amps for 244L and 324L, 90 amps for 344L)
●	●	●	Horn (conforms to SAE J994 / J1446)
●	●	●	Lights (conform to SAE 99): Driving / Front working (2) / Turn signals / Flashers / Stop / Taillights
●	●	●	Worklights, rear (2)
●	●	●	Reverse warning alarm (conforms to SAE J994 / J1446)
●	●	●	Multifunction monitor with audible and visual warnings: Low engine oil pressure, engine coolant temperature, hydraulic oil temperature warning light, and parking brake indicator / Gauge and indicator: Engine coolant temperature gauge, fuel level gauge, speedometer, clock, and hour meter
●	●	●	Diesel exhaust fluid (DEF) gauge
●	●	●	Indicator lights: Engine air filter / Parking brake actuated / Forward/reverse travel / 1st- or 2nd-speed range / Turn signal and hazard lights / High-beam driving lights indicator / Battery voltage
●	●	●	Pre-wired for roof beacon
Powertrain/Brakes			
●	●	●	Smooth AutoShift technology up to 38 km/h (23 mph) for the 244L and 324L and 40 km/h (25 mph) for the 344L
●	●	●	Hydrostatic (HST) transmission: Electric shift control / Single-lever joystick F-N-R / HST oil cooler / Inching pedal / 2 speeds forward and reverse / Infinitely variable speed control

244L	324L	344L	Powertrain/Brakes (continued)
●	●	●	Rimpull control
●	●	●	Service brakes, hydraulically actuated, self-adjusting internal wet-disc brake and driveline drum brake
●	●	●	Parking brake, spring applied, hydraulically released, switch operated
●	●	●	Conventional-type rear differentials, 100% locking front differential
Hydraulic System			
●	●	●	Hydraulic fan for demand-based cooling
●	●	●	Hydraulic system oil cooler
●	●	●	Automatic bucket return-to-dig control
●	●	●	Boom float detent
●	●	●	Reservoir sight gauge for hydraulic/HST oil
●	●	●	Fine-micron hydraulic filters, vertical mounting
●	●	●	Hydraulic function lockout
●	●	●	2-function pressure-compensating hydraulic valve with pilot joystick control
●	●	●	3-function hydraulic valve with pilot joystick control including auxiliary electrohydraulic (EH) proportional control for 3rd function
●	●	▲	3-function pressure-compensating hydraulic valve with pilot joystick control including auxiliary EH proportional control for 3rd function
▲	▲	▲	109-L/m (28 gpm) high-flow option
●	▲	●	132-L/m (35 gpm) high-flow option
●	●	●	Quick-coupler diagnostic ports: Priority pressure / Hydraulic pump pressure / Control valve pressure / HST pressure
Operator's Station			
●	●	●	Cab (conforms to SAE J1040, SAE J231, ISO 3471, and ISO 3449): ROPS/FOPS / Heater/defroster / Rubber-plane isolation mounted for noise/vibration reduction / Intermittent front and rear windshield wipers and washers / Tinted safety glass / Adjustable sun visor / Mid-back cloth seat with mechanical suspension / 51-mm (2 in.) retractable seat belt / Full swing-out left and right doors with sliding window in left door
▲	▲	▲	Premium air-ride high-back heated seat with headrest and dual lumbar control
●	●	●	Radio-ready cab, fused 12-volt radio electrical lead and speakers, and power port
▲	▲	▲	AM/FM/Weather-Band (WB) radio
●	●	●	Air conditioning
●	●	●	Storage compartment for operator's manual and other items located under operator seat and 2 options left of operator seat
●	●	●	Rubber floor mat

244L	324L	344L	Operator's Station (continued)
●	●	●	Dual tilt and telescoping steering column
●	●	●	Rearview mirrors, outside (2) and inside (1) (conform to SAE J985)
●	●	●	Handholds and steps, ergonomically located and slip resistant (conform to SAE J185)
▲	▲	▲	76-mm (3 in.) retractable seat belt
Loader Linkage			
●	●	●	Z-Bar loader linkage provides high bucket breakout
●	▲	▲	High-Lift linkage
●	●	●	Loader boom service locking bar (conforms to SAE J38)
Buckets and Attachments			
▲	▲	▲	Full line of buckets with bolt-on cutting edges
▲	▲	▲	ISO-style quick-coupler
▲	▲	▲	ISO-style quick-coupler (only used with the 344L)
▲	▲	▲	Quik-Tatch™ coupler
▲	▲	▲	Pallet forks
▲	▲	▲	Full line of construction utility forks, pallet forks, and other John Deere attachments*
Tires			
●	●	●	365/70R18 Mitas EM-01
▲	▲	▲	400/70R20 Michelin Bibload
▲	▲	▲	400/70R20 Michelin XMCL
▲	●	●	405/70R18 Firestone Duraforce
▲	▲	▲	405/70R20 Mitas EM-01
●	●	●	175R25EM, Goodyear SGL-D/L 2A, 12 PR 4S
▲	▲	▲	175R25EM, XHA2 L3 Michelin
▲	▲	▲	175R25 VUT L2 Bridgestone
▲	▲	▲	175R25EM, XTLA L2 Michelin
Other			
▲	▲	▲	LED worklights (spot or flood)
▲	▲	▲	Hydraulic reversing fan
▲	▲	▲	Front window guard
●	●	●	Fenders, front and rear
●	●	●	Articulation locking bar (conforms to SAE J276)
●	●	●	Vandal protection, includes lockable engine enclosure and fuel fill
●	●	●	Cast rear counterweight
●	●	●	Drawbar, with locking pin
●	●	●	Lift eyes
●	●	●	Tie-downs
▲	▲	▲	Fire extinguisher
▲	▲	▲	Material-weighing system†
▲	▲	▲	Ride control
▲	▲	▲	Rear machine guard
▲	▲	▲	Fuel tank guard
▲	▲	▲	JDLINK™ wireless communication system (available in specific countries; see your dealer for details)

*See your John Deere dealer for further information.

†Contact LOAD-RITE™.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity for the 244L and 324L, and at test conditions specified per ISO 9249 for the 344L. No derating is required up to 1500-m (5,000 ft.) altitude for the 244L and 324L, and up to 3050-m (10,000 ft.) for the 344L. Gross power is without cooling fan. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with all standard equipment, ROPS cabs, full fuel tanks, air conditioning off, and 79-kg (175 lb.) operators; a 244L unit with 365/70R18 tires; a 324L unit with 405/70R18 tires; and a 344L unit with 175R25EM, Goodyear SGL-D/L 2A, 12 PR 4S tires.

