

344K LOADER

72.3 kW (97 hp)



JOHN DEERE





Pump up the volume.

If you're seeking more productivity out of a compact loader, we've got your number. The 344K boasts outstanding maneuverability, travel speed, breakout force, reach, and stability — easily making it the most capable in its class. Its unique oscillating stereo steering turns tightest, for fast cycle times and unmatched agility. The spacious walk-through cab is comfortable and fully equipped with intuitive low-effort controls that help your operators do their best. Plus, this loader is loaded with proven durability- and uptime-enhancing features such as sealed electrical connectors, durable electrical load center, and simplified serviceability, to list just a few. Read on to learn how the compact and capable 344K can help turn up the production on your next job.



A 20-percent tighter turning radius allows the 344K to work where comparable loaders won't — for maximum productivity in close quarters.

Return-to-dig, high travel-speed range, 1.5-m³ (2.0 cu. yd.) bucket — the stuff that'll cost you more on other compacts is standard on ours.

Lockable front differential delivers more power and tractive effort, especially in slippery conditions.

Extended-service intervals help ensure maximum uptime.

The EPA Interim Tier 4 (IT4)/EU Stage IIIB technology used in our 344K engine is fuel efficient, fully integrated, and fully supported.

Big breakout force, high dump clearance, and plenty of lift capability enable the 344K to tackle a wide variety of tasks.

Specifications

Operating Weight	8350 kg (18,408 lb.)
Net Rated Power	72.3 kW (97 hp)
Full-Turn Tipping Load	5680 kg (12,522 lb.)
Bucket Capacity	1.5 m ³ (2.0 cu. yd.)
Bucket Breakout Force	7852 kg (17,310 lb.)

Ready, willing and stable.

The 344K moves more material, more quickly than comparable loaders — even when navigating crowded jobsites. How? Unique stereo steering allows tight turns with large loads, for unmatched stability, maneuverability, and fewer three-point turns. What's more, the hydrostatic drivetrain's infinitely variable range lets you precisely match travel speed to the work at hand. And with standard features such as lockable front differential and return-to-dig, you won't have to work harder to be more productive.



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1. Stereo steering turns tighter while actually articulating less to provide superior close-quarters maneuverability.

2. Oscillating rear axle and front-frame articulation smooth transport over rough terrain — for faster cycles and better material retention.

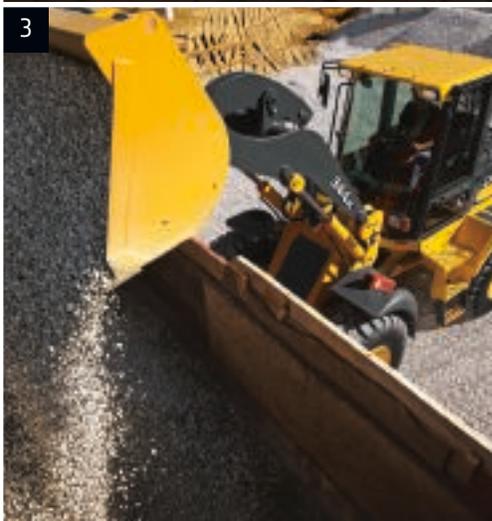
3. With its exceptional reach, the 344K easily dumps to the center of tandem-axle trucks. For quicker loading cycles.

4. Manual low-speed differential lock delivers the tractive effort needed to go deeper into the pile.

5. Available hydraulic quick-coupler makes multitasking easier, switching from bucket to forks in seconds without leaving the seat.



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The hydraulic system delivers only the power required, so there's no wasted horsepower or fuel.

An exclusive standard feature, return-to-dig automatically returns the bucket to a preset level, for faster work cycles.

Stereo steering combines machine articulation with rear-axle steering, for best-in-class turning radius.

Optional ride control increases productivity, enabling the 344K to comfortably navigate rough terrain quickly. Helps full bucket loads reach their intended destination, instead of somewhere in between.



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Gives new meaning to the term “mobile office.”

Put your operator in the 344K's spacious cab, and watch productivity take off. Industry-leading 360-deg. visibility provides clear sight lines to the work ahead and the surrounding jobsite. The low-effort FNR joystick is comfortably positioned, and standard return-to-dig is just a flick-of-the-wrist away. Gauges in the forward console are clearly visible, intuitive, and easy to read. Combined with tilt steering, multi-adjustable high-back suspension seat, and the smoothest ride in the industry, the 344K comes equipped with everything an operator needs.

1. Easy-to-read monitor displays vital operating info at a glance, including rpm, hours, engine oil pressure, and more. Issues both visual and audible warnings.
2. Enter or exit easily from either side of the walk-through cab.
3. Boom and bucket, FNR, and differential lock are controlled by the same low-effort joystick for convenient one-hand operation.
4. Available quick-coupler lets you go from bucket to forks quickly and easily without leaving the seat.
5. Oscillating axle/elastic articulation absorbs pitching motions and reduces cab tilt by as much as 50 percent — for a more stable, comfortable ride.





Inching/brake pedal slows travel speed while keeping engine rpm high for optimum hydraulic response and control.

Low- and high-speed ranges provide infinitely variable travel speeds, letting you creep ahead or max out at 30 km/h (19 mph).

Large expanse of glass and interior/ exterior convex mirrors provide unsurpassed all-around visibility.

Add a highly efficient HVAC system to make your operator more comfortable — and even more productive. Automotive-type louvers help keep the view clear.



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Built to keep downtime down.

No time for downtime? Get a 344K. With many of the same uptime-boosting advantages found in our larger loaders, it's one dependable co-worker. Sealed electrical connectors, flat-face O-ring seal hydraulic hose connections, and self-adjusting wet-disc brakes keep this compact coming back for more. When you know how it's built, you'll run a 344K.





1. Remote test ports allow technicians to troubleshoot problems more quickly.
2. Steering linkage is positioned where it's protected and supported by brackets with easily replaceable wear strips.
3. Slip-resistant, self-cleaning steps and convenient grab handles ease entry and exit. Other safety features such as an automatic park brake and bypass-start protection also help keep the operator out of harm's way.
4. A/C condenser easily tilts out and away from the radiator for easier clean-out. Doesn't require draining fluids or disconnecting hoses.

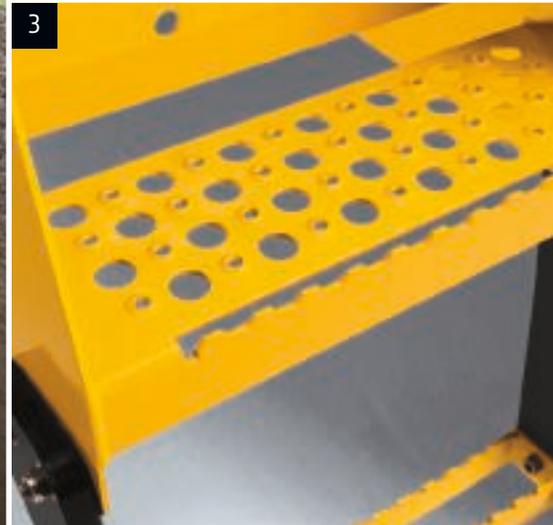
Hydraulically driven proportional fan runs only as needed to provide optimal cooling — for less wear-and-tear on cooling components, reduced noise, and lower fuel consumption.

Wet-disc brakes in the heavy-duty axles self-adjust and are sealed from contaminants for long, trouble-free life.

Turbocharged Deere 4.42-L PowerTech™ diesel runs smooth and quiet, and meets EPA IT4/EU Stage IIIB non-road emission regulations.

Switches and electrical connectors are sealed from moisture and dirt — so corrosion won't short-circuit productivity.

Highly reliable circuit-board technology and a vehicle electrical center eliminate the need for a multitude of wiring harnesses and connectors.



The bucks stop here.

Open the easy-lift hood and you'll uncover the many convenience features that make the 344K simple and inexpensive to maintain. Ground-level access to dipsticks, filler necks, and coolant reservoir help speed daily checks and additions. Vertical, up-front filters and environmental drains further simplify periodic maintenance. Plus, industry-leading parts and service are just as easily accessible at more than 400 John Deere dealers throughout North America.

Fuel-efficient John Deere diesel runs 500 hours between oil changes. Serpentine belt never needs adjusting.

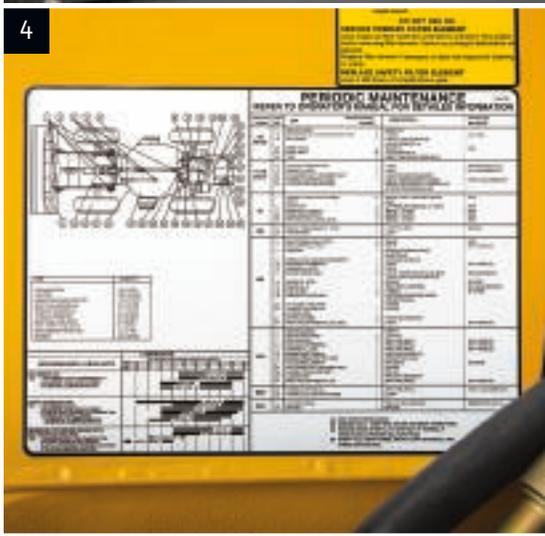
Electronic control unit lets service technicians easily retrieve vital operating info and helps diagnose problems more quickly.

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.

Maintenance-free batteries are easily accessible and connected in parallel for reliable power.

Easy-lift hood and transverse-mounted engine make daily checks a cinch.





1. Hydraulically driven fan runs only as needed for efficient cooling, reduced noise, and lower fuel consumption.
2. Easy-access fuse panel accommodates quick checks and changes.
3. Lube bank puts rear axle grease zerks within easy reach.
4. Convenient lubrication and maintenance chart helps ensure that nothing gets overlooked.
5. Hydraulic fluid sight gauge and see-through coolant reservoir let you check fluid levels at a glance.
6. Vertical spin-on fuel and oil filters and environmental drains make fluid changes quick and clean.

344K

Engine		344K	
Manufacturer and Model	John Deere PowerTech™ 4045T with turbocharger		
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB		
Cylinders	4		
Displacement	4.42 L (276 cu. in.)		
Net Rated Power at 2,400 rpm (ISO 9249)	72.3 kW (97 hp)		
Maximum Net Torque at 1,400 rpm (ISO 9249)	395.8 Nm (291 lb.-ft.)		
Lubrication	Pressure system with full-flow spin-on filter		
Cooling			
Fan	Sucker type, 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; low-effort electric shift; joystick-mounted F-N-R; HST inching pedal, which allows infinitely reduced travel speeds while maintaining full engine rpm and hydraulic flow		
2 Travel Speeds in Forward and Reverse			
Gear 1	8 km/h (5.0 mph)		
Gear 2	30 km/h (18.6 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	Hydraulic power steering (SAE J1511); 30-deg. articulation left and right with mechanical-actuated rear-wheel-steer emergency steering system		
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)	113.6 L/m (30 gpm)		
System Relief Pressure (loader and steering)	22 994 kPa (3,335 psi)		
Hydraulic Cycle Times			
Raise	5.3 sec.		
Dump	1.5 sec.		
Lower			
Float Down	4.0 sec.		
Power Down	4.0 sec.		
Total (with original pump)	10.8 sec.		
Turning Radius			
Measured to Outside Corner of Bucket	4.50 m (14 ft. 9 in.)		
Controls	Pilot-operated, pressure-compensating, 2-function valve with unloader; single-lever control and control-lever lockout feature; optional 3rd- and 4th-function valves		
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	4 front standard / 2 rear optional		
Tires/Wheels			
Tires on Single-Piece Rims	<i>Tread Width</i>	<i>Width Over Tires</i>	<i>Change In Vertical Height</i>
17.5R25 SGL-D/L 2A Goodyear (optional)	1869 mm (73.6 in.)	2316 mm (91.2 in.)	0 mm (0 in.)
17.5R25 XTLA L2 Michelin (optional)	1869 mm (73.6 in.)	2327 mm (91.6 in.)	- 20 mm (- 0.8 in.)
17.5R25 XHA L3 Michelin (optional)	1869 mm (73.6 in.)	2316 mm (91.2 in.)	- 15 mm (- 0.6 in.)
17.5R25 Bridgestone VUT L2 (optional)	1869 mm (73.6 in.)	2370 mm (93.3 in.)	0 mm (0 in.)
Serviceability			
Refill Capacities			
Cooling System (engine and radiator)	26.6 L (28.0 qt.)		
Differential and Planetary Axle			
Front	9.3 L (9.8 qt.)		
Rear	8.7 L (9.2 qt.)		
Engine Oil with Filter	13.0 L (13.7 qt.)		
Fuel Tank	160.3 L (42.3 gal.)		



Serviceability (continued) 344K

Refill Capacities (continued)

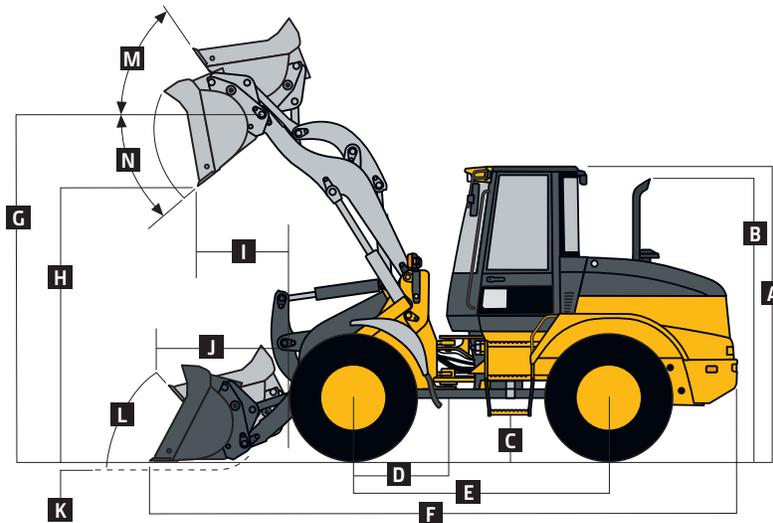
Hydraulic/Hydrostatic Reservoir with Filter	100.1 L (26.4 gal.)
Hydrostatic Motor Gearbox	2.9 L (3.0 qt.)
Front/Rear Axle Planetary Hubs (each)	0.8 L (27 oz.)

Operating Weights

With standard equipment; 17.5R25EM, GP-2B 6S L2 Goodyear tires; standard counterweight; cab; 79-kg (175 lb.) operator; and full fuel tank

With Quick-Coupler and 1.3-m ³ (1.75 cu. yd.) General-Purpose Bucket with Bolt-On Edge	8501 kg (18,741 lb.)
With Standard Z-Bar and Pin-On General-Purpose Bucket with Bolt-On Edge	8350 kg (18,408 lb.)
Loader with Quick-Coupler and Fork	8370 kg (18,452 lb.)
Optional Bucket, 1.3 m ³ (1.75 cu. yd.)	635 kg (1,400 lb.)

Machine Dimensions



Dimensions with Bucket

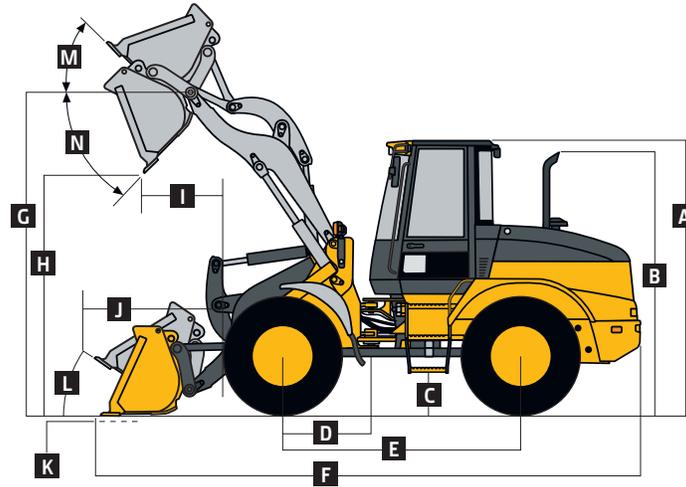
1.5-m³ (2.0 cu. yd.) general-purpose with bolt-on edge

A Height to Top of Cab	3.02 m (9 ft. 11 in.)
B Height to Top of Exhaust	2.90 m (9 ft. 6 in.)
C Ground Clearance	386 mm (15.2 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	6.13 m (20 ft. 2 in.)
G Height to Hinge Pin, Fully Raised	3.66 m (12 ft. 0 in.)
H Dump Clearance, 42-deg. Full Height	2.85 m (9 ft. 4 in.)
I Reach, 42-deg. Dump, Full Height	0.83 m (32.6 in.)
J Reach, 42-deg. Dump, 2.13-m (7 ft.) Clearance	1.50 m (4 ft. 11 in.)
K Maximum Digging Depth	53 mm (2.1 in.)
L Maximum Rollback at Ground Level	45 deg.
M Maximum Rollback, Boom Fully Raised	63 deg.
N Maximum Bucket Dump Angle, Fully Raised	42 deg.
Loader Clearance Circle, Bucket Carry Position	4.51 m (14 ft. 10 in.)

Specifications with Bucket

Capacity, Heaped	1.5 m ³ (2.0 cu. yd.)
Capacity, Struck	1.2 m ³ (1.6 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	665 kg (1,466 lb.)
Bucket Width	2.40 m (7 ft. 11 in.)
Breakout Force	7852 kg (17,310 lb.)
Tipping Load, Straight	6200 kg (13,668 lb.)
Tipping Load, 30-deg. Full Turn	5680 kg (12,522 lb.)
Rated Operating Load, 50% of Full-Turn Tipping Load (conforms to ISO 14397-1)*	2840 kg (6,261 lb.)
Operating Weight	8510 kg (18,761 lb.)

*Rated operating capacity based on Deere attachments only.



Dimensions with Bucket

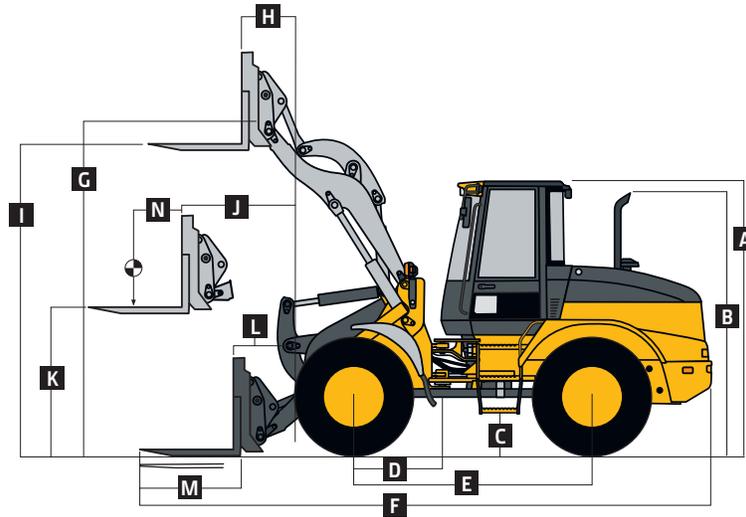
1.5-m³ (2.0 cu. yd.) general-purpose with bolt-on edge

A	Height to Top of Cab	3.02 m (9 ft. 11 in.)
B	Height to Top of Exhaust	2.90 m (9 ft. 6 in.)
C	Ground Clearance	386 mm (15.2 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	6.39 m (21 ft. 0 in.)
G	Height to Hinge Pin, Fully Raised	3.66 m (12 ft. 0 in.)
H	Dump Clearance, 42 deg., Full Height	2.77 m (9 ft. 1 in.)
I	Reach, 42-deg. Dump, Full Height	0.91 m (3 ft. 0 in.)
J	Reach, 42-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.60 m (5 ft. 3 in.)
K	Maximum Digging Depth	51 mm (2.0 in.)
L	Maximum Rollback at Ground Level	45 deg.
M	Maximum Rollback, Boom Fully Raised	63 deg.
N	Maximum Bucket Dump Angle, Fully Raised	42 deg.
Loader Clearance Circle, Bucket Carry Position		9.07 m (29 ft. 9 in.)

Specifications with Bucket

Capacity, Heaped	1.5 m ³ (2.0 cu. yd.)
Capacity, Struck	1.2 m ³ (1.6 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	665 kg (1,466 lb.)
Bucket Width	2.40 m (7 ft. 11 in.)
Breakout Force	7342 kg (16,186 lb.)
Tipping Load, Straight	5745 kg (12,665 lb.)
Tipping Load, 30-deg. Full Turn	5260 kg (11,596 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1)*	2630 kg (5,798 lb.)
Operating Weight	8510 kg (18,761 lb.)

*Rated operating capacity based on Deere attachments only.



Dimensions with Forks 1.20-m (47.2 in.) tine length

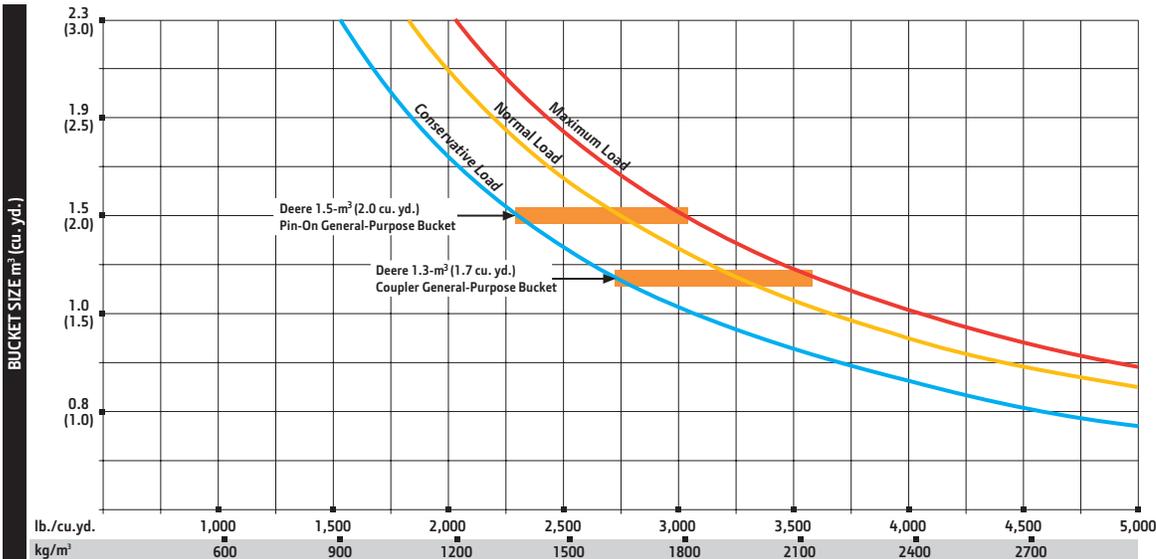
A	Height to Top of Cab	3.02 m (9 ft. 11 in.)
B	Height to Top of Exhaust	2.90 m (9 ft. 6 in.)
C	Ground Clearance	386 mm (15.2 in.)
D	Length from Centerline to Front Axle	1.15 m (3 ft. 9 in.)
E	Wheelbase	2.60 m (8 ft. 6 in.)
F	Overall Length, Forks on Ground	6.77 m (22 ft. 3 in.)
G	Height to Hinge Pin, Fully Raised	3.66 m (12 ft. 0 in.)
H	Reach, Fully Raised	0.68 m (26.7 in.)
I	Fork Height, Fully Raised	3.50 m (11 ft. 6 in.)
J	Maximum Reach, Fork Level	1.50 m (4 ft. 11 in.)
K	Fork Height, Maximum Reach	1.71 m (5 ft. 8 in.)
L	Reach, Ground Level	0.81 m (32 in.)
M	Tine Length	1.20 m (47.2 in.)
N	Load Position, 50% Tine Length	500 mm (19.7 in.)

Specifications with Forks

Tipping Load, Straight	4400 kg (9,700 lb.)
Tipping Load, 30-deg. Turn	4030 kg (8,884 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load (conforms to EN474-3)*	2418 kg (5,330 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load (conforms to EN474-3)*	3224 kg (7,107 lb.)
Operating Weight	8370 kg (18,453 lb.)

*Rated operating capacity based on Deere attachments only.

Bucket Selection Guide*



LOOSE MATERIALS	kg/m³	lb./cu. yd.
Chips, pulpwood	288	486
Clinders (coal, ashes, clinkers)	673	1,134
Clay and gravel, dry	1602	2,700
Clay, compact, solid	1746	2,943
Clay, dry in lump loose	1009	1,701
Clay, excavated in water	1282	2,160
Coal, anthracite, broken, loose	865	1,458
Coal, bituminous, moderately wet	801	1,350
Earth, common loam, dry	1218	2,052
Earth, mud, packed	1843	3,105
Granite, broken	1538	2,592
Gypsum	2275	3,834
Limestone, coarse, sized	1570	2,646
Limestone, mixed sizes	1682	2,835
Limestone, pulverized or crushed	1362	2,295
Sand, damp	2083	3,510
Sand, dry	1762	2,970
Sand, voids, full of water	2083	3,510
Sandstone, quarried	1314	2,214
Shale, broken crushed	1362	2,295
Slag, furnace granulated	1955	3,294
Stone or gravel, 37.5 to 87.5-mm (1.5 to 3.5") size	1442	2,430
Stone or gravel, 18.75-mm (3/4") size	1602	2,700

*This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and uneven surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

Additional equipment

Key: ● Standard ▲ Optional or special

*See your John Deere dealer for further information.

344K Engine

- Meets EPA Interim Tier 4/EU Stage IIIB emissions
- Antifreeze, -37 deg. C (-34 deg. F)
- Coolant recovery tank
- Fan safety guard
- Fan, sucker type, hydraulically driven, proportional speed
- Muffler, under hood, with curved end exhaust stack
- Environmentally friendly engine oil drain
- Engine oil cooler
- Quick-release fuel filter and water separator
- Automatic glow plugs for cold start
- ▲ Engine coolant heater, 1,000 watts, 110 volts

Electrical

- Starter switch with electric fuel cutoff
- 12-volt system
- Electrical load center: Blade-type fuses / Adjacent to operator's right in console
- Standard batteries (2), 12 volt with 1,700 CCA, 176-min. rated reserve
- Master electrical disconnect switch
- Alternator, 12 volts, 90 amps
- Horn (conforms to SAE J994 / J1446)
- Lights (conform to SAE 99): Driving / Turn signals / Flashers / Stop / Taillights
- Pre-wired for rear worklight
- Worklights, front (2)
- 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 / Gauges and indicators: Engine coolant temperature gauge, fuel level gauge, speedometer, clock, and hour meter
- Indicator lights: Engine air filter / Battery voltage / Parking brake actuated / Forward/reverse travel / 1st- or 2nd-speed range / Turn signal and hazard lights / High-beam driving lights
- Radio-ready cab, fused 12-volt radio electrical lead and speakers, power port
- Pre-wired for roof beacon

344K Powertrain/Brakes

- Hydrostatic (HST) transmission: Electric shift control / Single-lever joystick F-N-R / Hydrostatic oil cooler / Inching pedal / 2 speeds forward and reverse / Infinitely variable speed control
- Parking brake, spring applied, hydraulically released, switch operated
- Conventional-type rear differentials, hydraulic 100% dif-lock front

Hydraulic System

- Hydraulic system oil cooler
- Automatic bucket return-to-dig control
- Float detent
- Reservoir sight gauge
- Fine-micron hydraulic filters, vertical mounting
- Hydraulic function lockout
- 2-function pressure-compensating hydraulic valve with pilot joystick control
- ▲ 3-function pressure-compensating hydraulic valve with pilot joystick control and pilot auxiliary lever for 3rd function
- ▲ Hydraulic conversion kits, 3-function valve
- ▲ Hydraulic conversion kits, 3- and 4-function valves
- 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 / Full-width adjustable sun visor / Pre-wired for radio speakers / Deluxe high-back cloth seat with mechanical suspension and 51-mm (2 in.) retractable seat belt / Left and right doors
- Air conditioning
- Storage compartment for operator's manual and other items

344K Operator's Station (continued)

- Rubber floormat
- Tilt 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)

Loader Linkage

- Z-bar loader linkage provides high bucket breakout
- Loader boom service locking bar (conforms to SAE J38)

Buckets and Attachments

- ▲ Full line of buckets with selection of bolt-on cutting edges
- ▲ Hydraulic-actuated quick-coupler with flags
- ▲ Full line of construction utility forks, pallet forks, extendable booms with hook, and other attachments*

Tires

- ▲ 17.5R25 SGL-D/L 2A Goodyear
- ▲ 17.5R25 XTLA L2 Michelin
- ▲ 17.5R25 XHA L3 Michelin
- ▲ 17.5R25 Bridgestone VUT L2

Other

- Fenders, front and rear
- Articulation locking bar (conforms to SAE J276)
- Vandal protection, includes lockable engine enclosure and fuel fill
- Counterweight, saddle-type, built-in
- Rear bottom guard, built-in
- Drawbar, with locking pin
- Lift eyes
- Tie-downs
- ▲ Fire extinguisher
- ▲ Secondary steering
- ▲ Material-weighing system*
- ▲ JDLink™ wireless communication system (available in specific countries; see your dealer for details)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249. No derating is required up to 3000-m (10,000 ft.) altitude. 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 a unit with all standard equipment, 17.5R25 SGL-D/L 2A Goodyear radial tires, ROPS cab, standard rear counterweight, full fuel tank, and 79-kg (175 lb.) operator.

