E-SERIES SKID STEER LOADERS

320E/324E





Your words carry a lot of weight, too.

When our customers express their opinions, we listen. And you'll discover plenty of bright ideas in our E-Series Skid Steers that are the result of your input. Such as a connect-under-pressure auxiliary coupler system that makes it easier to switch attachments. Larger-displacement slower-running diesels for easier cold-weather starting and improved fuel efficiency. Best-in-class visibility and bucket breakout forces plus increased operating capacities in both models. You have more control choices, too, including industry-exclusive switchable electrohydraulic (EH) H-ISO-foot controls. And quieter, more spacious operator stations. Other customer-inspired enhancements include a redesigned rear hood and easier-to-remove/replace heavier-duty engine side shields that simplify servicing. You won't find a more owner- and operator-friendly skid steer on the market. You have our word on it.

Specifications	320E	324E
Power	51.7 kW (69 gross hp) / 49.4 kW (66 net hp)	54.8 kW (74 gross hp) / 52.5 kW (70 net hp)
Rated Operating Capacity	994 kg (2,190 lb.)	1221 kg (2,690 lb.)
Breakout Force		
Boom	1589 kg (3,500 lb.)	2497 kg (5,500 lb.)
Bucket	2724 kg (6,000 lb.)	3973 kg (8,750 lb.)
Tipping Load	1989 kg (4.380 lb.)	2443 kg (5.380 lb.)





Open the door to a more productive day.

When was the first time that "compact" and "comfortable" were accurately used together to describe a skid steer? But with the many refinements found in our E-Series, we can make the claim with a straight face. Wideopen entryways in both models and a flat floor in the 324E allow easier entrances and exits. Operators will also like what they see from the sculpted air-ride or mechanical-suspension seat. All-around visibility is expansive and second-to-none. The highly efficient HVAC system employs eight automotive-style vents to keep the glass clear and cab comfortable. Plus plenty of other cab amenities including an optional AM/FM weatherband radio with dual speakers help tune-in more productivity.

Triple-interlock operator-presence system automatically applies the brakes when the lap bar is raised, the operator leaves the seat, or the engine is shut down.

Expansive curved front glass, large top window, and low side windows make it easy to see the surrounding jobsite. Even with an expanded engine compartment, best-in-class sightlines provide a clear view of the action behind you, as well.

Flat floor in the 324E provides 33-percentmore comfort-lending foot room. Makes getting in and out of the cab easier, too.

Fully adjustable pull-down padded lap bar provides comfortable arm support.

HVAC system employs eight automotivestyle louvers to direct warm or cold airflow where it's appreciated most — on the operator. For production-boosting yearround comfort.

Cabs and floors are tightly sealed and pressurized to keep out dust and noise.

We've got your back with a sculpted airride or mechanical-suspension seat to help smooth the ride. Choose either a cloth or vinyl air-suspension seat in cab-equipped models.

Storage box, cup holder, and iPod™/ cell-phone holder (with nearby 12-volt power port) provide plenty of room to stow your stuff.









Want a skid steer that's more productive? Get an E-Series. Optimal weight distribution, low centers of gravity, high ground clearances, and long wheelbases deliver superior stability. But getting there is only half the battle. These skid steers also excel at putting material in its place. Their patented vertical-lift booms rise to the occasion, delivering exceptional lift height and reach. So you can do more, with less effort.













- 1. Joystick buttons, rotary switch, and triggers actuate and control the auxiliary hydraulics/flow rates, boom float, and optional two-speed transmission.
- 2. Optional keyless-start sealed-switch module (SSM) includes an anti-theft system with one owner and five individual codes, and simple fingertip control of numerous options.
- 3. Overhead panel conveniently places machine info on the left, control switches to the right. Easy-to-read LCD monitor accesses a wealth of machine info and control — including vital operating conditions and advanced diagnostics.





Optional EH joysticks are our smoothest and most responsive yet, providing enhanced control and operating ease.

Now you can have your joysticks and foot pedals, too. Industry-exclusive switchable EH controls allow the operator to choose ISO, H-pattern, or EH joystick and foot controls. Simply press a button on the keyless SSM.

Want to make the most of our vertical-lift boom design? Add the self-level option and simplify your material-handling tasks.

EH Joystick Performance Package lets an operator customize operation and response to personal preferences through the SSM:

- Attachment control operates hydraulic-powered additions such as augers or hammers.
- Creeper control allows slow incremental travel speeds while maintaining full engine and hydraulic power. It's ideal for work with cold planers or trenchers.
- Boom and bucket speed settings enable precision (slow), utility (normal), and productivity (fast) responses.
- Switchable controls let you choose ISO or H-pattern.
- Propel aggressiveness modes set travel/steering response rates.
 Precision is ideal for work in tight spaces. Utility is for normal operation. Production delivers faster response for stockpiling and truck loading.



Work our connections, as you expand yours.

If you're looking to broaden your business, your John Deere dealership is the place to start. Their equipment offering includes more than 100 Worksite Pro™ attachments that will help expand your efforts. E-Series Skid Steers are designed with these additions in mind. The universal Quik-Tatch™ makes attachment switchover quick and easy. Standard-flow auxiliary hydraulics with connect-under-pressure couplers is also standard. And if your equipment yard includes our compact track loaders (CTLs), compact excavators, or compact loaders, many of these attachments are interchangeable between machines. Talk to your dealer to learn more.

Numerous rock, multi-purpose, construction, utility, and tooth buckets are available in varying widths and capacities.

Clear heavy brush and saplings with our rotary cutters. Or put a mulching head to work shredding trees and stumps.

High- or standard-flow trenchers and removable backhoes work well for irrigation and underground utility tasks.

Cleanup is quicker with tools such as our brush, scrap, and utility grapples. Two hydraulic-actuated dual-action tongs provide superior material retention.

Worksite Pro attachments:

Aa forks Augers Backhoes Bale spears (round, square) Blades (snow, utility) Breakers/hammers Brooms (angle, pickup) Cold planers Dozer blades Grapples (ag utility, brushtined, scrap) Landplanes Mulching heads Multi-purpose buckets Pallet forks Power rakes **Rock buckets** Roller levels Rotary cutters Rotary tillers Scrapers (material, manure) Side-discharge buckets Snow blowers

Snow pushers Trenchers Vibratory rollers







Nothing runs like a Deere, because nothing is built like one.

Downtime and deadlines don't mix — which is why we build our skid steers the way we do. Large-displacement electronic-injection diesels headline the list of uptime-boosting enhancements. Other job-proven durability difference-makers include our exclusive V-plenum cooling system with hydraulically driven variable-speed fans. Heavy-duty axles. Beefy booms and upper links. And integrated rear bumpers. When you know how they're built, you'll run a Deere.

Large cross-section boom arms and heavy-duty upper links deliver the strength to endure tough tasks for long-term durability.

The E-Series employs the same jobproven FT4/Stage IV technologies as our larger equipment. Simple, fully integrated, and fully supported, our emission solution delivers industryleading fuel efficiency and uptime.

Diesel particulate filter (DPF) cleaning doesn't impact or interrupt machine performance under normal operating conditions.

Switches and electrical connectors are sealed from moisture and dirt to help prevent corrosion.

Spring-applied, hydraulic-released wet-disc park brakes are fully enclosed and never require adjustment.

O-ring face-seal hydraulic fittings virtually eliminate aggravating and costly oil leaks.

Auto-idle helps preserve engine life and conserve fuel, reducing engine speed after the operator has vacated the seat. Full auto-idle (available with EH controls) slows the engine after five seconds of inactivity and resumes preset engine speed with any joystick movement.

Auto-shutdown system monitors engine and hydraulic vitals, and issues an audible warning when limits are exceeded. If necessary, it shuts down the machine to help prevent damage.

320E's auxiliary hydraulic lines are routed through the boom arms for an extra degree of protection. Couplers connect under pressure for quick and easy powered-attachment hookup.





Maintenance made "E" asy.

Servicing an E-Series Skid Steer is quick and easy. So easy, in fact, that you won't even have to raise its boom for daily service or most periodic maintenance. Checkpoints are conveniently grouped and easily reached beneath the hinged hood. And removable side panels give way to the coolers, maintenance-free battery, and fluid and air filters. If necessary, the operator station tilts in minutes for best-in-class drivetrain access. And industry-leading parts and service are just as accessible at more than 1,300 John Deere dealer locations from coast to coast.



Daily servicing is quick and convenient. Simply lift the gas-shock-supported hood for ground-level access to check fluids and refuel.

Removable rear side panels allow wideopen service access and are easier to remove and replace. Stronger, too.

Through-the-monitor onboard diagnostics help speed troubleshooting.

These skid steers share components such as engines with our CTLs and compact excavators, making it easier to ensure you always have the right filters and fluids on hand.

Fluid-fill and service checkpoints are grouped and color-coded. And a conveniently displayed maintenance chart helps ensure that nothing gets overlooked.

Ash-service intervals for the diesel particulate filter (DPF) are not required until 8,000 engine hours depending on machine application, regular maintenance practices, and type of lubricating oil. DPF service can be performed by your John Deere dealer.

V-plenum cooling system resists debris buildup and makes radiator and cooler cores easier to clean.

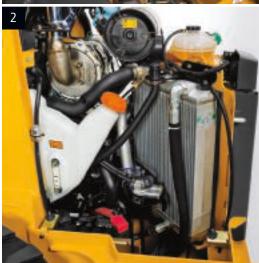
Because no maintenance beats low maintenance, engine serpentine belts never need adjustment.

Compare the cost of parts and labor for recommended maintenance with other makes. The E-Series will save you significant money.

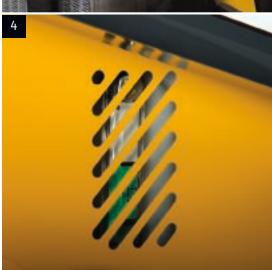
- Getting to the heart of a Deere is easy.
 There's no need to raise the boom —
 just pivot the cab and remove the floor.
 Takes only minutes.
- 2. Need extra elbowroom? Raise the boom and remove the side shields for wide-open engine-compartment access.

 Unique lock lever secures the boom from inside the cab.
- **3.** Spin-on filters and environmental drains allow quick fluid changes.
- **4.** Hydraulic sight gauge and see-through coolant and windshield washer fluid reservoirs let you check levels at a glance.









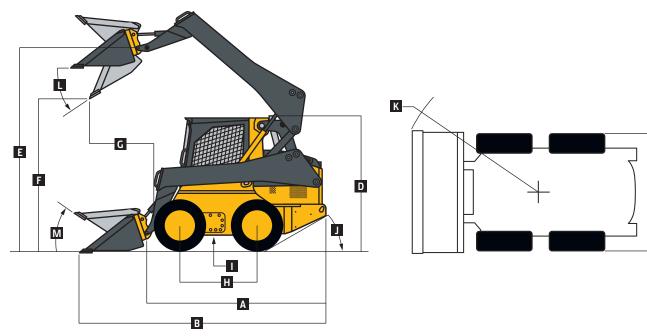


320E / 324E

Engine	320E	324E
Manufacturer and Model	Yanmar 4TNV98C (optional 4TNV98CT)	Yanmar 4TNV98CT
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV	EPA Final Tier 4/EU Stage IV
Cylinders	4	4
Net Peak Power (SAE J1349 / ISO 9249)	49.4 kW (66 hp) at 2,500 rpm	52.5 kW (70 hp) at 2,500 rpm
Gross Rated Power (ISO 14396)	51.7 kW (69 hp) at 2,500 rpm	54.8 kW (74 hp) at 2,500 rpm
Peak Torque	241 Nm (178 ftlb.) at 1,625 rpm	280 Nm (207 ftlb.) at 1,800 rpm
Displacement	3.3 L (203 cu. in.)	3.3 L (203 cu. in.)
Rated Engine Speed	2,500 rpm	2,500 rpm
Torque Rise	22% at 1,625 rpm	34% at 1,800 rpm
Aspiration	Naturally aspirated (optional turbocharger)	Turbocharged
Air Cleaner	Dry dual element	Dry dual element
Cooling	320E / 324E	
Fan Type	Variable-speed hydraulic drive standard / reversing fa	n drive optional
Powertrain	320E	324E
Туре	Hydrostatic-manual or electrohydraulic (EH) controls;	4 – 80 heavy-duty, continuous-loop chains
Speeds		
Single Speed	11.1 km/h (6.9 mph)	11.1 km/h (6.9 mph)
2 Speed, High	17.9 km/h (11.1 mph)	17.9 km/h (11.1 mph)
Axles	Induction-hardened, one-piece forged axle shafts wit	
	outer axle bearings	
Maximum Axle Torque, Single Speed	6771 Nm (4,994 lbft.)	6771 Nm (4,994 lbft.)
Tractive Effort	3220 kgf (7,491 lbf)	3220 kgf (7,491 lbf)
Final Drive	High-strength, adjustment-free chains	High-strength, adjustment-free chains
Brakes	Integral, automatic, spring-applied, hydraulically relea	
Hydraulics		
Pump Flow		
Standard	76 L/m (20 gpm)	79 L/m (21 gpm)
Total with High-Flow Option	106 L/m (28 gpm)	110 L/m (29 gpm)
System Pressure at Couplers	22 408 kPa (3,250 psi)	23 787 kPa (3,450 psi)
Hydraulic Horsepower Flow (calculated)	1 /	() ()
Standard	28 kW (38 hp)	32 kW (42 hp)
High	40 kW (53 hp)	44 kW (58 hp)
Auxiliary Hydraulics	Connect-under-pressure with flat-faced couplers	Connect-under-pressure with flat-faced couplers
Cylinders	320E / 324E	
Туре	John Deere heat-treated, chrome-plated, polished cyl	inder rods, hardened steel (replaceable bushings)
3 1 -	pivot pins	,,
Electrical	F	
Voltage	12 volt	
Battery Capacity	750 CCA standard / 925 CCA optional	
Alternator Rating	70 amp	
Lights	Halogen, 2 front and 1 rear	
Operator's Station		
ROPS (ISO 3471) / FOPS (ISO 3449) structure with quick	κ-pivot standard	
Serviceability	F	
Refill Capacity		
Fuel Tank	76 L (20 gal.)	
	· 1 3	



Operating Weight	320E	324E
Base Machine	3246 kg (7,150 lb.)	3405 kg (7,500 lb.)
Machine Dimensions		
A Length without Bucket	2.85 m (112.0 in.) (9 ft. 4 in.)	2.85 m (112 in.) (9 ft. 4 in.)
B Length with Foundry Bucket	3.47 m (136.8 in.) (11 ft. 5 in.)	3.47 m (136.8 in.) (11 ft. 5 in.)
C Width without Bucket	1.76 m (69.2 in.) (5 ft. 9 in.)	1.78 m (70.1 in.) (5 ft. 10 in.)
D Height to Top of ROPS	2.02 m (79.4 in.) (6 ft. 7 in.)	2.02 m (79.4 in.) (6 ft. 7 in.)
E Height to Hinge Pin	3.09 m (121.5 in.) (10 ft. 2 in.)	3.19 m (125.5 in.) (10 ft. 6 in.)
F Dump Height with Foundry Bucket	2.46 m (96.9 in.) (8 ft. 1 in.)	2.56 m (100.9 in.) (8 ft. 5 in.)
G Dump Reach		
With Foundry Bucket	0.74 m (29.0 in.)	0.74 m (29.0 in.)
With Construction Bucket	0.92 m (36.3 in.) (3 ft. 0 in.)	0.92 m (36.3 in.) (3 ft. 0 in.)
H Wheelbase	1.13 m (44.3 in.) (3 ft. 8 in.)	1.13 m (44.3 in.) (3 ft. 8 in.)
I Ground Clearance	0.22 m (8.5 in.)	0.22 m (8.5 in.)
J Angle of Departure	28 deg.	25 deg.
K Front Turn Radius with Foundry Bucket	2.03 m (79.8 in.) (6 ft. 8 in.)	2.03 m (79.8 in.) (6 ft. 8 in.)
L Dump Angle (full lift height)	43 deg.	43 deg.
M Bucket Rollback (ground level)	33 deg.	33 deg.



Loader Performance	320E	324E
Tipping Load	1989 kg (4,380 lb.)	2443 kg (5,380 lb.)
SAE Rated Operating Capacity	994 kg (2,190 lb.)	1221 kg (2,690 lb.)
With Counterweight	1067 kg (2,350 lb.)	1294 kg (2,850 lb.)
Boom Breakout with Construction Bucket	1453 kg (3,200 lb.)	2361 kg (5,200 lb.)
Bucket Breakout Force with Construction Bucket	1907 kg (4,200 lb.)	2724 kg (6,000 lb.)

C

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

320E 324E Operator's Station (continued)

320E	324E	Electrical (continued)
•	•	Deluxe instrumentation EMU with:
		Operator-selectable monitoring – Hour
		meter, engine rpm, battery voltage,
		diagnostics, EMU configuration, engine
		coolant temperature, hydraulic oil
		temperature / LED warning indica-
		tors – Glow plug, seat switch, seat
		belt, door open, auxiliary hydraulics,
		park brake engaged, 2-speed engaged,
		stop, low engine oil pressure, engine
		coolant over-temperature, battery
		not charging, air filter restriction,
		hydraulic filter restriction
•		Front and rear halogen work lights
•		Triple interlock operator-presence
	,	control system
		Backup alarm
•	•	Battery, 750 CCA
		Battery, 925 CCA
_	A	Hazard warning lights
		Strobe light, amber
A	A	Horn
_	_	Operator's Station
	•	Deluxe cab headliner
A	A	Electrohydraulic (EH) ISO-pattern
		joystick controls
A	A	EH H-pattern joystick controls
	_	EH foot and joystick controls EH switchable foot-ISO-H-pattern
A	A	controls
A	•	Keyless-start sealed-switch module
		with integrated anti-theft system
•	•	Electronic push-button auxiliary
•		controls
•	•	Pull-down lap bar
•	•	Quick-pivot ROPS
•	•	Rear window
•	•	Top window
A	A	Removable top window
_	_	Sliding/locking glass side windows
•	•	ROPS/FOPS operator structure
•	•	Seat belt, 51-mm (2-in.), retractable
A	Ā	Seat belt, 76-mm (3-in.), retractable
_	_	Shoulder belt
•	•	Water-shedding deluxe vinyl seat
Ā	Ā	Deluxe vinyl suspension seat
	<u> </u>	Air-ride (cloth) seat
		ac (cloth) seat

320L	J	Operator 3 Station (continued)
	A	Air-ride (vinyl) seat
		12-volt power port / Dome light /
		Cargo storage / Beverage holder
		Air conditioning with heater/defroster
	A	Heater with defroster
•	•	AM/FM/weatherband radio with
		auxiliary input
	A	Cab enclosure
A	A	Electrohydraulic joystick controls
A	•	EH joystick performance package: Switchable ISO-H pattern / Creeper mode / Boom/bucket speed settings / Adjustable propel settings / Attach- ment controls
A	_	Floor mat
		Floor mat with left footrest
A	A	Hand controls with foot throttle
		Rearview mirror
		Severe-duty cab door
		Heavy-duty rear grille
		Loader
		Integral cab boom lock
		Patented John Deere Quik-Tatch™
		(no grease required)
		Power Quik-Tatch
•	•	Patented John Deere vertical-lift boom with superior visibility
•	•	Hydraulic self-leveling on/off
_	$\overline{\Lambda}$	Ride control
		Other
•	•	Convenient front and rear tie-downs
•	•	Environmental drains for all fluid reservoirs
A		10 x 16.5 8 PR SKS Extra Wall Heavy
		Duty
A	A	12 x 16.5 8 PR SKS Extra Wall
A	A	12 x 16.5 10 PR Extra Wall
		14 x 17.5 12 PR Extra Wall
	A	14 x 17.5 14 PR Hauler
		Chrome exhaust stack
A	A	Modular rear-weight packages
		Single-point lift kit
A	A	SMV sign kit
		Spare tire and wheel
A	A	Tire options: Flotation / Solid / Heavy duty

*500-hour engine oil-change intervals when John Deere Plus-50 oil and John Deere oil filter are used.

