



JOHN DEERE

JD

CONSTRUCTION EQUIPMENT

LOADERS



MODEL NO.

644H



H-SERIES



This is where power meets versatility.

KEY SPECIFICATIONS

	HP	NOMINAL BUCKET CAPACITY	FULL-TURN (40 DEGREES) TIPPING LOAD	BUCKET BREAKOUT	APPROXIMATE WEIGHT
644H	180 NET HP	4.25 CU. YD.	26,281 LBS.	34,407 LBS.	38,876 LBS.

The John Deere 644H combines the muscle of a production loader with the flexibility of a utility loader. Here's ten big reasons to put the 644H to work for you.

[1] visibility: that's front and rear. [2] maneuverability: a tight turning radius plus steering that's always responsive. [3] power bulge: when the engine starts to lug down, horsepower actually increases. [4] excavator-style hydraulics: crisp and responsive lifts in all load conditions. [5] programmable clutch cutoff: increases your productivity in all kinds of terrain. [6] smart-shift technology: senses your speed and load, and smoothly adjusts clutch-pack engagement to match. [7] wet brakes: self-adjusting and pressure-lubed for maximum life. [8] serviceability: easy access to all service points, and no awkward gullwing doors. [9] flexibility: you call the shots, with a wide variety of hydraulic, axle, and tire options, plus a host of attachments. [10] unmatched support: quality, responsive service, and excellent parts support from the best dealers in the business.

PRODUCTION/UTILITY



The optional ride control system turns the loader's hydraulic lift cylinders into shock absorbers. Your operators will drive faster over bumps and still keep their load. Plus there's less wear and tear on man and machine.

Maneuverability in tight quarters means fast cycle times and less frustration. With a full 80-degree articulation, you can zip around spots that have other loaders doing three-point turns.



The optional air-ride seat adjusts multiple ways to mold to the operator's body, cushioning the jolts of working on rough terrain. And the air conditioning on this loader has the cooling power to keep you comfortable in any job site this side of the equator.




Some loaders limit your view with minimum glass and maximum steel. But have a seat in the 644H and you get a whole new take on the job site, with excellent visibility to the bucket and to the rear.

Well-placed vents keep the cold air coming your way. Whether you're working in the desert, the bayou, or the concrete jungle, you stay cool and comfortable.



RELIABILITY

Working hard never looked so easy.



Cylinder liners eliminate the hot spots found on cast-in-block engines. That's because the liner is a uniform thickness, with coolant circulating around virtually all of the cylinder. That uniform cooling means less oil breakdown and longer engine life. Cast-in-block engines are cheaper to manufacture, but you pay a big price down the road.

When the Deere PowerTech™ diesel lugs down below the rated speed of 2,200 rpms, the horsepower actually goes up. That's the Power Boost. It means fewer downshifts and faster cycle times.

Get the right axle for the work you do. Choose from five different axle options: front axle disconnect, limited-slip front and rear, differential-lock front and rear, differential-lock front with conventional rear, and conventional front and rear.



The control panel makes it easy to monitor machine functions. Plus, with a few touches you can change the clutch cutoff and gearshift modes to match your application.

This loader is filled with features that deliver maximum productivity with minimum operator effort. Our performance edge starts at the engine with Power Bulge — the ability of Deere PowerTech™ diesels to generate extra horsepower when the going gets tough. That means your operator can power through challenging situations without downshifting.

With our excavator-style hydraulics, your system senses the load you're lifting and gives you the fluid power you need. So cycle times are faster. Boom and dump functions quick yet smooth. Engine efficiency is another benefit of our hydraulic system. You get just the hydraulic power you need, so the hydraulic system doesn't hog power or waste fuel, and gives you more "power into the pile."

Our smart-shift technology continuously evaluates the loader's speed and load conditions, and adjusts the engagement of the clutch packs to suit. That means whether the bucket is full or empty, speed changes are smooth as silk.

644H



John Deere inboard-mounted hydraulic wet-disk brakes self-adjust for wear. Planetary final drives are also mounted inboard. Gear size isn't limited by wheel hub diameter — so larger, more durable components can be used.

The programmable clutch cutoff makes you more productive in all kinds of terrain. A few taps on the display monitor lets you program for the slope at your dumpsite: "steep slope", "small slope", or "level." This actually changes how much braking force is applied before the transmission shifts to neutral.

With the optional differential lock, you can take the 644H where other loaders dare not go. When necessary, just hit the diff-lock button to lock-in power to all four wheels.

Hassle-free zone.



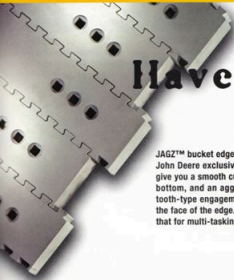
We worked hard to make daily service on the H-Series Loaders quick, easy, and hassle free. All daily service points are on the left side of the machine and accessible through the easy-open service doors when standing on the ground. Checking radiator and hydraulic fluid levels takes just an instant thanks to sight gauges and fluid reservoirs. Periodic maintenance is also easy. Large access doors make it easy to change fuel, oil, and air filters. The cab fresh-air filter is a snap to clean, from ground level no less. And the rear grill swings out for easy access to the radiator.

Greasing is easy, with most grease zerks on centralized lube banks.

Spin-on oil filter has a no-mess design. Remove it without getting your hand covered with used motor oil.

SERVICE/SUPPORT

Have it your way.



JAGZ™ bucket edges are a John Deere exclusive. They give you a smooth cut on the bottom, and an aggressive tooth-type engagement on the face of the edge. How's that for multi-tasking?

The optional hydraulically actuated quick-coupler lets you change attachments from the cab, without leaving your seat. Talk to your dealer about the huge variety of attachments available.



Your John Deere dealer not only has the parts and service support to keep you running, he's also got a variety of the programs and services that can help control your costs and downtime. In addition to the great standard warranty, ask about our flexible extended-coverage warranty options.

Your dealer can also offer preventative maintenance contracts that let you lock-in costs and help prevent downtime. It's all part of John Deere's pro-active, fix-before-fail strategy of machine maintenance. And it gives you the tools to avoid downtime and protect your cash flow.

644H

LOADER

SPECIFICATIONS



Engine

644H

Type	John Deere PowerTech™ 6081H; meets EPA Tier II non-road emissions regulations
Cylinders	6
Displacement	496 cu. in. (8.1 L)
Rated power	180 SAE net hp (134 kW) @ 2,200 rpm
Peak power	221 SAE net hp (165 kW) @ 1,600 rpm
Net peak torque	755 lb.-ft. (1020 Nm) @ 1,300 rpm
Net torque rise	75%
Net power bulge	23%
Fuel system	high-pressure common rail
Fuel consumption, typical	4.3 to 7.5 gal./hr. (16.3 to 28.4 L/h)
Fuel tank capacity	100 gal. (379 L)
Lube system	full-flow spin-on filter and integral cooler
Aspiration	turbocharged, charge air cooled
Air cleaner	dual element dry type; restriction indicator for service
Fan drive	hydraulically driven, fan alt of coolers
Airflow	rearward
Electrical system	24 volt with 55-amp alternator
Batteries (two 12 volt)	950 CCA; reserve capacity: 200 min. – standard / 1,400 CCA; reserve capacity: 200 min. – optional

Transmission

Type	countershaft-type power shift															
Converter	single-stage, single-phase torque converter															
Shift control	electronically modulated, adaptive, load and speed dependent															
Operator interface	steering column-mounted twist-grip shift lever, quick-shift button on hydraulic lever															
Shift modes	auto/manual, auto to 1st or 2nd, kick down or kick up/down, three clutch cutoff settings															
Travel speeds*	<table><thead><tr><th></th><th>Forward</th><th>Reverse</th></tr></thead><tbody><tr><td>Gear 1</td><td>4.6 mph (7.4 km/h)</td><td>4.9 mph (7.9 km/h)</td></tr><tr><td>Gear 2</td><td>7.6 mph (12.2 km/h)</td><td>8.0 mph (12.8 km/h)</td></tr><tr><td>Gear 3</td><td>14.7 mph (23.6 km/h)</td><td>15.5 mph (24.9 km/h)</td></tr><tr><td>Gear 4</td><td>22.0 mph (35.4 km/h)</td><td></td></tr></tbody></table>		Forward	Reverse	Gear 1	4.6 mph (7.4 km/h)	4.9 mph (7.9 km/h)	Gear 2	7.6 mph (12.2 km/h)	8.0 mph (12.8 km/h)	Gear 3	14.7 mph (23.6 km/h)	15.5 mph (24.9 km/h)	Gear 4	22.0 mph (35.4 km/h)	
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Gear 4	22.0 mph (35.4 km/h)															

*Equipped with 23.5 R 25 radial tires.

Axles/Brakes

Final drives	heavy-duty inboard planetary
Differentials	conventional front and rear – standard; hydraulic locking front, conventional rear – optional; dual locking front and rear – optional; limited slip front and rear – optional
Rear axle oscillation, stop to stop	26 degrees
Brakes (conform to SAE J1473, ISO3450)	
Service brakes	hydraulically actuated, inboard, carrier mounted, pressure oil cooled, self adjusting, multi disc
Parking brake	automatically spring applied, hydraulically released, oil cooled, multi disc

Hydraulic System/Steering

Pump (loader and steering)	variable-displacement, axial piston pump; closed-center, pressure-compensating system
Maximum flow	68 gpm (257 L/m) @ 1,000 psi (6895 kPa) and 2,200 rpm
Pressure	loader and steering relief 3,600 psi (24 850 kPa)
Loader controls	two-function valve; single- and dual-lever controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever
Hydraulic cycle times	
Raise	6.2 sec.
Dump	1.4 sec.
Lower	3.0 sec. (float down) / 3.5 sec. (power down)
Total	10.6 sec.
Maximum lift capacity	with 4.25-cu. yd. (3.3 m ³) stockpiling and general-purpose bucket with bolt-on cutting edge
Lift at ground level	34,166 lb. (15 495 kg)
Lift at maximum height	20,226 lb. (9173 kg)

Hydraulic System/

Steering (continued)

644H

Steering (conforms to SAE J1511)

Type	power, fully hydraulic
Pressure	3,600 psi (24 850 kPa) relief
Articulation angle	80-degree arc (40 degrees each direction)
Turning radius (measured to centerline of outside tire)	18 ft. 0 in. (5500 mm)

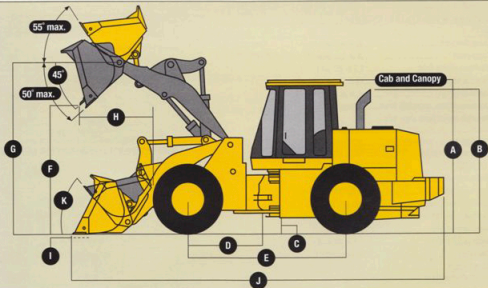
Tires

Choice of	Tread Width	Width Over Tires	Change in Vertical Height
20.5 R 25, XHA 1 Star L2 Michelin Radial	85.4 in. (2170 mm)	106.2 in. (2697 mm)	- 2.8 in. (- 71 mm)
23.5-25, 12 PR L2*	85.4 in. (2170 mm)	113.1 in. (2874 mm)	- 1.5 in. (- 37 mm)
23.5-25, 20 PR L3*	85.4 in. (2170 mm)	113.4 in. (2881 mm)	- 0.1 in. (- 2 mm)
28L-26, 14 PR LS2*	89.4 in. (2272 mm)	117.6 in. (2986 mm)	0.4 in. (11 mm)
23.5 R 25, GP-2B 1 Star L2 Goodyear Radial*	85.4 in. (2170 mm)	113.2 in. (2875 mm)	0 in. (0 mm)
23.5 R 25, VMT 1 Star L3 Firestone Radial*	85.4 in. (2170 mm)	106.3 in. (2700 mm)	0.1 in. (2 mm)
23.5 R 25, VUT 1 Star L2 Firestone Radial*	85.4 in. (2170 mm)	106.4 in. (2703 mm)	- 0.2 in. (- 4 mm)
23.5 R 25, XHA 1 Star L3 Michelin Radial*	85.4 in. (2170 mm)	109.1 in. (2772 mm)	- 1.2 in. (- 30 mm)
660/65 R 25, XLD 1 Star L3 Michelin Radial*	85.4 in. (2170 mm)	110.0 in. (2795 mm)	- 3.1 in. (- 79 mm)

*Requires 9-degree axle stops.

Dimensions with Pin-on Type Bucket

A Height to top of cab and canopy	11 ft. 2 in. (3404 mm)	G Height to hinge pin, fully raised	13 ft. 7 in. (4144 mm)
B Height to top of exhaust	11 ft. 0 in. (3353 mm)	H Dump reach	▲▲ (see page 10)
C Ground clearance	18.1 in. (461 mm)	I Maximum digging depth	2.7 in. (69 mm)
D Length from centerline to front axle	63 in. (1600 mm)	J Overall length	▲▲▲ (see page 10)
E Wheelbase	126 in. (3200 mm)	K Maximum rollback at ground level	40 degrees
F Dump height	▲ (see page 10)		



Pin-on Type

Bucket Information

644H

Bucket Type/Size	Stockpiling and General Purpose w/Bolt-on Edge	Stockpiling and General Purpose w/Teeth and Segments	Stockpiling and General Purpose w/Jagz™	Excavating w/Bolt-on Edge	Excavating w/Teeth and Segments
	Capacity, heaped SAE	4.25 cu. yd. (3.3 m³)	4.25 cu. yd. (3.3 m³)	4.5 cu. yd. (3.4 m³)	3.5 cu. yd. (2.7 m³)
Capacity, struck SAE	3.7 cu. yd. (2.8 m³)	3.7 cu. yd. (2.8 m³)	3.9 cu. yd. (3.0 m³)	3.0 cu. yd. (2.3 m³)	3.0 cu. yd. (2.3 m³)
Bucket width	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)
Breakout force, SAE J732C	34,407 lb. (15,604 kg)	34,407 lb. (15,604 kg)	33,961 lb. (15,402 kg)	39,183 lb. (17,770 kg)	39,183 lb. (17,770 kg)
Tipping load, straight	31,210 lb. (14,154 kg)	31,044 lb. (14,079 kg)	31,150 lb. (14,127 kg)	31,946 lb. (14,488 kg)	31,783 lb. (14,414 kg)
Tipping load, 40-degree full turn, SAE	26,281 lb. (11,919 kg)	26,118 lb. (11,845 kg)	26,215 lb. (11,889 kg)	26,941 lb. (12,218 kg)	26,784 lb. (12,147 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance	65.7 in. (1668 mm)	67.6 in. (1718 mm)	66.2 in. (1681 mm)	63.3 in. (1609 mm)	65.6 in. (1665 mm)
▲▲ Reach, 45-degree dump, full height	42.2 in. (1071 mm)	46.2 in. (1174 mm)	42.8 in. (1087 mm)	37.9 in. (962 mm)	41.9 in. (1064 mm)
▲▲ Dump clearance, 45 degree, full height	115.8 in. (2942 mm)	111.9 in. (2841 mm)	115.7 in. (2938 mm)	120.2 in. (3052 mm)	116.2 in. (2951 mm)
▲▲▲ Overall length, bucket on ground	26 ft. 5 in. (8045 mm)	26 ft. 8 in. (8197 mm)	26 ft. 5 in. (8055 mm)	25 ft. 8 in. (7880 mm)	26 ft. 4 in. (8032 mm)
Leader clearance circle, bucket in carry position	42 ft. 3 in. (12,875 mm)	42 ft. 7 in. (12,978 mm)	42 ft. 3 in. (12,880 mm)	41 ft. 11 in. (12,775 mm)	42 ft. 3 in. (12,867 mm)
Operating weight	38,876 lb. (17,631 kg)	39,004 lb. (17,689 kg)	38,971 lb. (17,674 kg)	38,605 lb. (17,508 kg)	38,733 lb. (17,566 kg)

Loader operating information is based on machine with all standard equipment; 23.5 R 25, GP-2B radial tires; standard counterweight, ROPS/FOPS cab; 175-lb. (79 kg) operator; and full fuel tank. This information is affected by tire size, ballast, and different attachments.

Adjustments to Operating Weights with Pin-on Buckets

Adjustments to operating weights and tipping loads for 4.25-cu.-yd. (3.3 m³) general-purpose bucket with bolt-on cutting edge; bucket weight is 3,554 lb. (1612 kg)

Add (+) or deduct (-) lb. (kg) as indicated

for loaders with	Operating Weight	Tipping Load, Straight	Tipping Load, 40-Degree Full Turn
20.5 R 25, XHA 1 Star L2 Michelin Radial	-1,641 lb. (-744 kg)	-1,132 lb. (-513 kg)	-968 lb. (-439 kg)
23.5-25, 12 PR L2	-1,464 lb. (-664 kg)	-1,010 lb. (-458 kg)	-864 lb. (-392 kg)
23.5-25, 20 PR L3	-309 lb. (-140 kg)	-213 lb. (-97 kg)	-182 lb. (-83 kg)
28L-26, 14 PR LS2	+88 lb. (+40 kg)	+61 lb. (+28 kg)	+52 lb. (+24 kg)
23.5 R 25, GP-2B 1 Star L2 Goodyear Radial	0 lb. (0 kg)	0 lb. (0 kg)	0 lb. (0 kg)
23.5 R 25, VMT 1 Star L3 Firestone Radial	+926 lb. (+420 kg)	+639 lb. (+290 kg)	+546 lb. (+248 kg)
23.5 R 25, VUT 1 Star L2 Firestone Radial	+141 lb. (+64 kg)	+97 lb. (+44 kg)	+83 lb. (+38 kg)
23.5 R 25, XHA 1 Star L3 Michelin Radial	+106 lb. (+48 kg)	+73 lb. (+33 kg)	+62 lb. (+28 kg)
650/65 R 25, XLD 1 Star L3 Michelin Radial	-582 lb. (-264 kg)	-402 lb. (-182 kg)	-344 lb. (-156 kg)

Dimensions with Quick-Coupler

BUCKET*

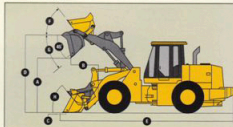
A Dump clearance	▲ (see page 11)
B Dump reach	▲▲ (see page 11)
C Maximum digging depth	2.5 in. (63 mm)
D Height to hinge pin, fully raised	13 ft. 7 in. (4144 mm)
E Overall length	▲▲▲ (see page 11)
F Maximum rollback, boom fully raised	.55 degrees
G Maximum bucket dump angle, fully raised	.45 degrees
H Maximum rollback at ground level	.39 degrees

*Allied attachments ordered through John Deere dealers.

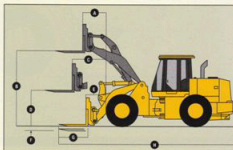
PALLET FORK*

A Reach, fully raised	2 ft. 1 in. (642 mm)
B Fork height, fully raised	12 ft. 11 in. (3929 mm)
C Maximum reach, fork level	5 ft. 1 in. (1537 mm)
D Fork height, maximum reach	6 ft. 1 in. (1848 mm)
E Reach, ground level	3 ft. (925 mm)
F Depth below ground	2.0 in. (49 mm)
G Tire length	▲▲ (see page 11)
H Overall length	▲▲ (see page 11)

*Allied attachments ordered through John Deere dealers.



644H LOADER WITH QUICK-COUPLER AND BUCKET*



644H LOADER WITH QUICK-COUPLER AND PALLET FORK*

Quick-Coupler

Information with Bucket 644H

Bucket Type/Size	Stockpiling and General Purpose w/Bolt-on Edge	Stockpiling and General Purpose w/Teeth and Segments	Excavating w/Bolt-on Edge	Excavating w/Teeth and Segments
Capacity, heaped SAE	4.25 cu. yd. (3.3 m ³)	4.25 cu. yd. (3.3 m ³)	3.5 cu. yd. (2.7 m ³)	3.5 cu. yd. (2.7 m ³)
Capacity, struck SAE	3.8 cu. yd. (2.9 m ³)	3.8 cu. yd. (2.9 m ³)	3.1 cu. yd. (2.4 m ³)	3.1 cu. yd. (2.4 m ³)
Bucket width	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)
Breakout force, SAE J732C	28,976 lb. (13 141 kg)	28,976 lb. (13 141 kg)	32,786 lb. (14 869 kg)	32,786 lb. (14 869 kg)
Tipping load, straight	29,121 lb. (13 207 kg)	28,958 lb. (13 133 kg)	29,820 lb. (13 524 kg)	29,510 lb. (13 383 kg)
Tipping load, 40-degree full turn, SAE	24,394 lb. (11 063 kg)	24,235 lb. (10 991 kg)	25,040 lb. (11 356 kg)	24,733 lb. (11 217 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance	62.9 in. (1598 mm)	63.8 in. (1620 mm)	67.0 in. (1701 mm)	68.9 in. (1750 mm)
▲▲ Reach, 45-degree dump, full height	44.4 in. (1128 mm)	48.1 in. (1222 mm)	44.2 in. (1122 mm)	46.2 in. (1225 mm)
▲▲▲ Dump clearance, 45 degree, full height	106.8 in. (2713 mm)	102.5 in. (2603 mm)	114.5 in. (2908 mm)	110.5 in. (2807 mm)
▲▲▲ Overall length, bucket on ground	27 ft. 1 in. (8266 mm)	27 ft. 7 in. (8418 mm)	26 ft. 7 in. (8101 mm)	27 ft. 1 in. (8253 mm)
Loader clearance circle, bucket in carry position	42 ft. 9 in. (13 018 mm)	43 ft. (13 118 mm)	42 ft. 5 in. (12 916 mm)	42 ft. 8 in. (13 012 mm)
Operating weight	40,224 lb. (18 242 kg)	40,349 lb. (18 299 kg)	39,791 lb. (18 046 kg)	40,089 lb. (18 181 kg)

Loader operating information is based on machine with all standard equipment: 23.5 R 25, GP-28 radial tires; standard counterweight; ROPS/FOPS cab; 175-lb. (79 kg) operator; and full fuel tank. This information is affected by tire size, ballast, and different attachments.

Adjustments to Operating Weights for Quick-Coupler with Bucket

Adjustments to operating weights and tipping loads for 4.25-cu.-yd. (3.3 m³) stockpiling bucket with bolt-on cutting edge

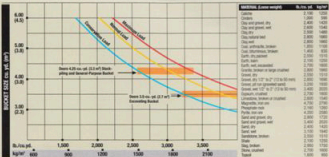
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for loaders with	Operating Weight	Tipping Load, Straight	Tipping Load, 40-Degree Full Turn, SAE
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23.5-25, 12 PR L2	-1,464 lb. (- 664 kg)	-1,010 lb. (- 458 kg)	-864 lb. (- 392 kg)
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650/65 R 25, XLD 1 Star L3 Michelin Radial	-582 lb. (- 264 kg)	-402 lb. (- 182 kg)	-344 lb. (- 156 kg)

Information with Utility Fork and Quick-Coupler

▲ Tire Length	60 in. (1525 mm)	72 in. (1829 mm)
▲▲ Overall length	28 ft. 4 in. (8641 mm)	29 ft. 4 in. (8946 mm)
Tipping load, straight (fork level, load centered on time)	22,782 lb. (10 334 kg)	22,603 lb. (10 252 kg)
Tipping load, 40-degree full turn (fork level, load centered on time)	19,206 lb. (8712 kg)	19,029 lb. (8632 kg)
Operating weight	38,854 lb. (17 621 kg)	39,051 lb. (17 710 kg)

Bucket Selection Guide[®]



These graphs represent manufacturer's data and are intended for general information only. Actual results, based on configuration and operating conditions, may vary. Bucket capacity is based on the volume of the bucket when filled with water. The "best" bucket is the one that provides the best performance for the job. The "best" bucket is the one that provides the best performance for the job. The "best" bucket is the one that provides the best performance for the job.

644H Loader

Key: ● Standard equipment ▲ Optional or special equipment

644H Engine

- Antifreeze, -34°F (-37°C)
- Coolant recovery tank
- Fan guard
- Muffler, under hood with large exhaust stack
- Environmentally friendly engine oil drain
- Engine oil cooler
- Quick-release fuel filter and water separator
- ▲ Ether start aid (for cold starts)
- ▲ Engine air heater (for cold starts)
- ▲ Engine coolant heater, 1,000 watts, 110 volts
- ▲ Heavy-duty trash-resistant cooling package
- ▲ Desert and high-altitude cooling package
- ▲ Special application trash screens, axle seal guards, etc.*
- ▲ Chrome exhaust stack
- Power Train**
- TC/PS transmission, computer-controlled electronic shift shift, automatic shift and quick-shift features included
- Conventional-type differentials, front and rear
- ▲ Front axle with hydraulic locking differential
- ▲ Front and rear axle with hydraulic locking differentials
- ▲ Spin and rear axle with limited-slip differentials
- ▲ Front-control system
- ▲ Front axle disconnect

Hydraulic System

- Automatic bucket return-to-dig
- Automatic boom height kickout control
- Automatic boom return-to-carry control
- Reservoir sight gauge
- Spin-on hydraulic filters, vertical mounting
- Hydraulic lever lockout
- Two-function hydraulic valve with joystick control
- ▲ Two-function hydraulic valve with two-lever fingertip control and adjustable wristrest
- ▲ Three-function hydraulic valve with joystick control and auxiliary lever for third function
- ▲ Three-function hydraulic valve with two-lever fingertip control, adjustable wristrest, and auxiliary lever for third function
- ▲ Four-function hydraulic valve, with dual joystick control
- ▲ Hydraulic conversion kits, two- to three-function valves
- ▲ Hydraulic conversion kits, three- to four-function valves
- Hydraulic system oil cooler (for continuous running attachments and extreme temperatures)
- ▲ Ride control, automatic type
- ▲ Hydraulic control system for quick-coupler locking pins

Electrical

- 24-volt electrical system
- Standard batteries (2), 12 volt with 950 CCA, 200-min. rated reserve
- ▲ Standard batteries (2), 12 volt with 1,400 CCA, 200-min. rated reserve
- ▲ Master electrical disconnect switch
- Alternator, 55 amps and 24 volts
- ▲ Alternator, high capacity, 80 amps and 24 volts
- ▲ Alternator trash covers

644H Electrical (continued)

- Lights (conform to SAE 99): Driving with guards / Turn signals and flashers / Stop and tailights
- ▲ Work lights, front (2) and rear (2)
- Horn, with push button in center of steering wheel (conforms to SAE J994, J1446)
- Reverse warning alarm (conforms to SAE J994, J1446)
- Monitor and gauges, multifunction computerized electronic:
 - Audible and visual warnings; Analog gauges:
 - Engine coolant temperature, transmission oil temperature, fuel level, speedometer / Digital instruments: Engine rpm, selectable battery voltage or odometer, transmission gear indicator, hourmeter / Operator warning lights: Check engine, engine oil pressure, engine air filter, battery voltage, engine preheat, transmission filter restriction, brake pressure, hydraulic oil filter, fasten seat belt, fuel filter, steering pressure, transmission fault, stop indicator with audible alarm, caution indicator, park brake actuated
- Indicator lights: Turn signals / Warning flashers / Coupler pin disconnect
- Built-in diagnostics: Service code retrieval / Message center / Sensor values
- Message center display: Accessory and work settings / Diagnostic code messages / Stop-wait / Job timer

- Push-button selection: Three clutch cutoff adjustments / Two automatic transmission sequences / Two quick-shift button sequences
- ▲ Deluxe monitor and alarm system (includes these added features over standard monitor):
 - Two added analog gauges: Engine oil pressure and hydraulic oil temperature / Message center display: 12-character message board
- Radio-ready cab, 24- to 12-volt converter, rated at 5 amps with 12-volt receptacle in operator's compartment, fused electrical lead
- ▲ Radio-ready cab, fused 24-volt radio electrical lead, and fused lead for optional Deere 5-amp and 10-amp voltage converters
- ▲ 24-volt to 12-volt radio converter, 5 amp with receptacle
- ▲ 24-volt to 12-volt with radio converter, 10 amp with receptacle
- ▲ 24-volt AM/FM stereo radio with clock
- Cab wired for rotating beacon

Operator's Station

- Cab (conforms to SAE J1040 APR88): ROPS/FOPS / Heater/defroster / Multiplane isolation mounted for noise/vibration reduction / Front and rear windshield washers and intermittent wipers / Tinted safety glass
- ▲ Air conditioning (factory or dealer installed)
- Seat belt, 3 in. (76 mm), with retractor
- Seat, deluxe cloth covered with deep foam, high back, mechanical suspension, adjustable for weight and height, fore-aft position, backrest tilt, and armrest angle
- Seat, air suspension, deluxe cloth covered, with backrest extension

*See your John Deere dealer for further information.

644H Operator's Station (continued)

- Cup holder, personal cooler holder, and storage space
- ▲ Sun visor for cab
- Rubber floor mat
- Tilt steering column
- Rearview mirrors, outside (2) and inside (2) (conform to SAE J985)
- Handholds and steps, ergonomically located and slip resistant (conform to SAE J185)

Loader Linkage

- Loader boom service locking bar (conforms to SAE J38)
- Z-bar loader linkage provides "high bucket breakout"
- ▲ High-lift boom*

Buckets and Attachments

- ▲ Full line of Deere pin-on buckets with selection of both-on cutting edges, JAGZ™ cutting edges, and teeth-segmented both-on cutting edges*
- ▲ Quick-coupler which accepts JRB attachments*
- ▲ Quick-coupler which accepts Caterpillar™ tool-carrier attachments*
- ▲ Quick-coupler and attachments*
- ▲ Hydraulic control system for quick-coupler locking pin, includes all controls in the cab, lines, and valves
- ▲ Full line of construction utility forks, pallet forks, extendible boom with hook, and other attachments for couplers*

Tires

- ▲ 20.5 R 25, XTLA 1 Star L2 Michelin Radial*
- ▲ 23.5-25, 12 PR L2
- ▲ 23.5-25, 20 PR L3
- ▲ 28L-26, 14 PR L52
- ▲ 23.5 R 25, GP-28 L2 Goodyear Radial
- ▲ 23.5 R 25, VMT Firestone Radial
- ▲ 23.5 R 25, VUT Firestone Radial
- ▲ 23.5 R 25, XHA 1 Star L3 Michelin Radial*
- ▲ 650/65 R 25, XLD 1 Star L3 Michelin Radial*
- Multi-piece rim
- Single-piece rim
- Less wheels and tires
- ▲ 10-degree rear axle stops for extra-large tires, 12-degree rear axle stops for 20.5-25 tires, and 6-degree rear axle stops for 20.5-25 tires with chains

Other

- ▲ Full fenders, front
- ▲ Full fenders, front and rear
- Articulation locking bar (conforms to SAE J276)
- Vandal protection, includes lockable engine enclosure, rear grille, and fuel fill
- Counterweight, built-in
- Drawbar, with locking pin
- ▲ Transmission side frame guards
- ▲ Bottom guard, front and rear
- ▲ Bottom guards, front frame and transmission
- ▲ Lift and tie-down hooks
- ▲ Fire extinguisher
- ▲ Lincense plate bracket
- Secondary steering



JOHN DEERE

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 John 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with all standard equipment. 23.5 R 25 radial tires, standard counterweight, ROPS/FOPS cab, full fuel tank, and 175-lb. (79 kg) operator.

