



H

SKIDDERS

640H | 648H | 748H | 848H





Being the boss isn't always easy

But John Deere skidders inspire loggers each and every day. With industry-leading axles, bulletproof frames, and innovative options like dual-mode steering, the H-Series Skidders continue John Deere's unwavering dedication to being the leader in the woods.



Fuel-efficient Tier 3 PowerTech Plus™ engines deliver power without compromise in all conditions.

Increased option choices, including dual-mode steering.

Rely on our industry-leading axles in the toughest conditions.

The H-Series Skidders live up to the horsepower and powertrain performance standards you've come to expect from John Deere.

Whether you are skidding logs or moving your log loader, these machines are purpose-built to do what skidders do best: Get the job done.

640H/648 with Direct Drive

640H/648 with Torque Converter

748H

848H

Engine	6.8L Tier 3 PowerTech Plus	6.8L Tier 3 PowerTech Plus	6.8L Tier 3 PowerTech Plus	6.8L Tier 3 PowerTech Plus
Rated gross horsepower	172 hp (128 kW)	185 hp (138 kW)	189 hp (141 kW)	200 hp (149 kW)
Peak gross horsepower	184 hp (137 kW)	NA	202 hp (151 kW)	224 hp (167 kW)
Tong opening at tips	115 in. (2921 mm) (648H only)	115 in. (2921 mm) (648H only)	127 in. (3226 mm)	130 in. (3302 mm)
Grapple area	10.4 sq. ft. (1 m ²) (648H only)	10.4 sq. ft. (1 m ²) (648H only)	14.9 sq. ft. (1.4 m ²)	16.0 sq. ft. (1.5 m ²)
Wheelbase	135 in.	137 in.	149 in.	149 in.

One tight grab on productivity

Count on the H-Series Skidders for the fastest load gathering and the most secure hold on stems from stump to landing. From steep slopes to swamp conditions to flat land, our skidders take a load off your mind, carrying you both securely and powerfully. With a wide range of models and options, choose the size, power, and options that best suit your job needs.



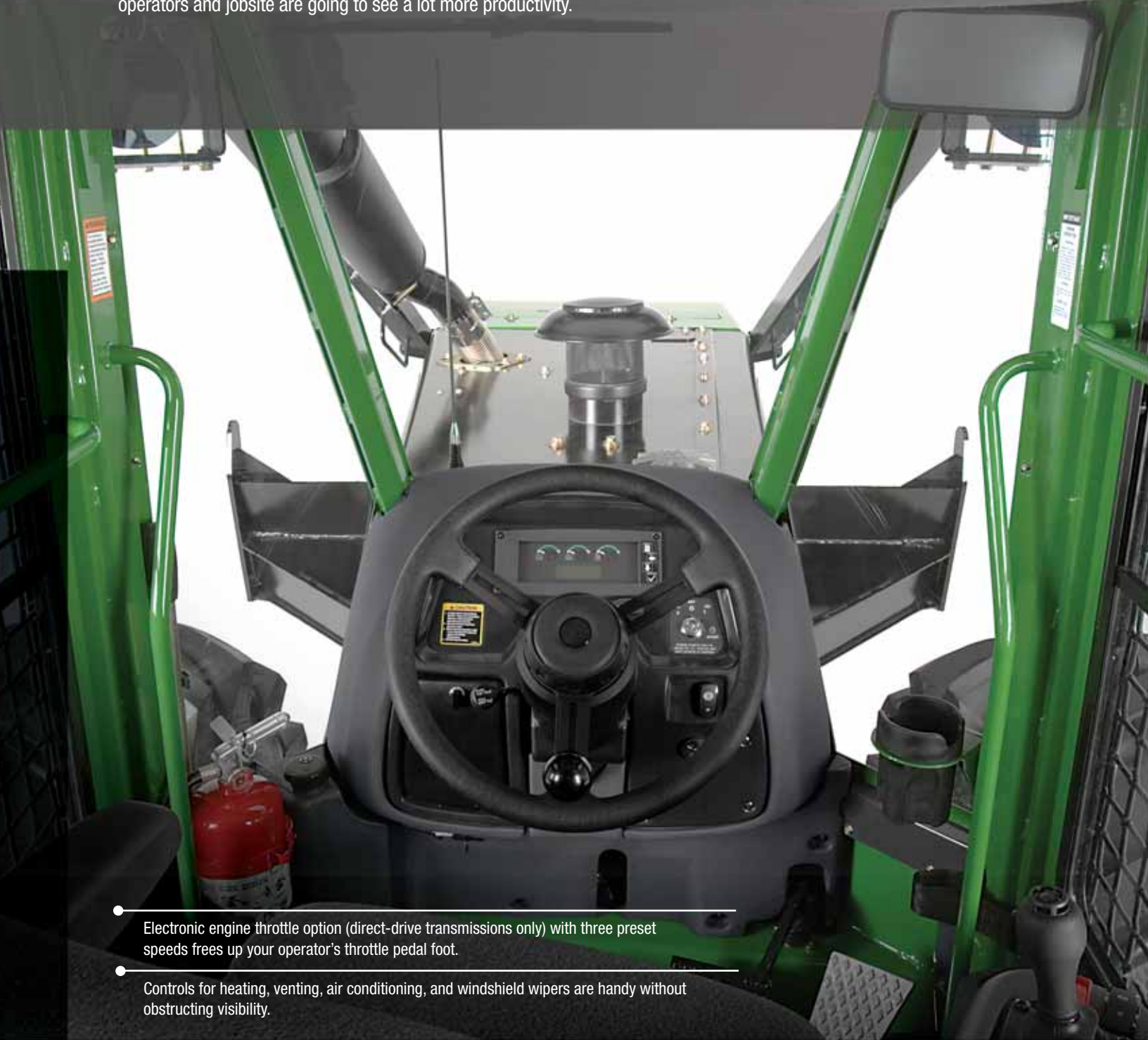


- 1 Hydraulically driven fan runs only as needed for efficient cooling and reduced fuel consumption.
- 2 116-inch heavy-duty decking blade has a heavier cutting edge for improved grading capability and weight distribution. This blade is available as an option on the 748H and comes standard on the 848H.
- 3 6.8 L PowerTech Plus Tier 3 6068H engine delivers best-in-class fuel efficiency.
- 4 Unmatched stability is achieved with a long wheelbase, wide stance, and improved power-to-weight ratio. (The 848H has an improved ratio of 5.6 percent over the previous model.)
- 5 Our industry-leading grapples offer a choice of four single-function or three dual-function models to suit your application. The 748H and 848H grapples have a huge 16-square-foot area and 130-inch-wide opening that can securely handle more wood than the larger competitive grapples.

5

Turn your operator loose

Productivity begins with a smartly designed cab so that your operators are secure and comfortable. With new features like dual-mode steering and electronic engine throttle at their fingertips, your operators and jobsite are going to see a lot more productivity.



Electronic engine throttle option (direct-drive transmissions only) with three preset speeds frees up your operator's throttle pedal foot.

Controls for heating, venting, air conditioning, and windshield wipers are handy without obstructing visibility.

The cab is isolation mounted for quiet operation, with tinted front windshield, sun visor, and heavy screens to secure the sides and back.

A quick glance at the diagnostic monitor gives you engine temperature, transmission oil temperature, and fuel-level readings. The select button calls up digital readouts for hour meter, gear selection, battery voltage, engine rpm, and hydraulic oil temperature with fault codes for the engine and transmission. The warning indicators include an audible alarm — critical for immediate shutdown, or cautionary during a less critical malfunction.



Lock-Up Torque Converter exclusive on the 848H stays engaged between gearshifts, offering a smooth, steady shift, improving fuel efficiency and driving your productivity.



Dual-mode steering option allows you to alternate between standard steering and quick-steer mode with the flip of a switch.

Reversible fan automatically reverses every 20 minutes, ejecting debris from the radiator and coolers for more uptime and productivity. Or just hit a button to manually initiate the cleaning cycle.



The little things mean a lot — including a dome light, storage under the armrest with cell-phone hookup, a beverage holder, door bins, and easy-to-read gauges, indicators, and switches. Optional AM/FM stereo in the contoured headliner has remote speakers and a CD or cassette option. The park-brake switch has been relocated to the right-hand console for easier access.



- 1 The 640H Cable Skidder is easily operated with a single lever, and features sealed, wet-disc clutches and spring-applied, hydraulically activated brakes for extreme durability.
- 2 6.8L PowerTech Plus Tier 3 engine provides clean, efficient, and reliable performance.
- 3 New center-hinged seal extends the life of your center joint by keeping out abrasive debris.
- 4 Protect lights from jobsite hazards with new guarding features.
- 5 Axle-mounting joint has been improved with two additional bolts to each joint.

- Larger-diameter arch pins and bushings and enhanced side mounts for improved durability.
- Transmission choices: (1) Direct Drive comes standard on the 640H/648H/748H; (2) Torque Converter is an option on the 648H; (3) Lock-Up Torque Converter is optional on the 848H.
- Choose optional large-diameter steering cylinders for even greater turning force with duals or floatation tire options. Bushings are 30 percent stronger than the previous models.
- Heavy-duty frame reinforcements around articulation stops challenge even the toughest of terrains.
- Hydraulic wet-disc brakes are completely sealed and immersed in an oil-cooling bath. Self-equalizing and -adjusting to extend their service intervals.



Dependable when your jobsite isn't

You can't count on the weather or the site you're working on, but you can count on the reliability of your John Deere skidder. No one feature makes our skidders reliable; it takes commitment and years of experience to build in quality. From its articulation joint strength to its transmission performance, your skidder is going to keep on going until you hear the dinner bell.



Even our service is turbocharged

Improved productivity and efficient service go hand in hand. By improving oil flow through our skidders, we've increased time between service intervals. And with increased hydraulic and fuel capacity, we've stretched your dollars — and service intervals — even further.





Oil sampling ensures cooling, engine, transmission, and hydraulics are working efficiently.

Remote-mounted engine, hydraulic, and transmission filters are positioned for easy access.

The cab can be released and hydraulically tilted to provide unrestricted access to all critical components.

500-hour engine service intervals.

Hydraulic oil cooler and A/C condenser swing out for easy cleaning.

Side-by-side design allows access to all coolers for cleaning.

Skidders 640H Cable / 648H, 748H, and 848H Grapples

640H Cable / 648H Grapple

Direct Drive / Torque Converter

748H / 848H Grapple

ENGINE

Engine displacement
Gross horsepower @ rated speed
Gross horsepower — peak
Additional features

John Deere, PowerTech Plus™ 6068H, Tier 3

415 cu. in. 6.8 L

172 hp 128 kW / 185 hp 138 kW

184 hp 137 kW / N/A

Fuel system: high-pressure common rail
Turbocharged, air-to-air intercooled
Engine cold-start system: glow plug
Air cleaner: dual stage with safety element and dust unloader valve
Slope operation, maximum angle: 45 deg.

John Deere, PowerTech Plus™ 6068H, Tier 3

415 cu. in. 6.8 L

189 hp 141 kW / 200 hp 149 kW

202 hp 151 kW / 224 hp 167 kW

TRANSMISSION

Number of gears:
Forward
Reverse
Maximum travel speed with
30.5-32 tires
Forward travel speed
Reverse travel speed
Optional features

Direct drive / Torque converter

8 / 6

7 / 3

@ 2,200 rpm

1.7–14.3 mph 2.7–23.0 km/h /
3.1–15.8 mph 5.0–25.4 km/h

1.7–10.8 mph 2.7–17.4 km/h /
3.1–11.5 mph 5.0–18.5 km/h

PowerShift™ with torque converter and six forward and three reverse speeds
(optional: 648 Grapple and 640 Cable only)
Transmission disconnect, for cold-weather starting (optional: 648 Grapple,
748 Grapple, and 640 Cable direct-drive only)

Direct drive / Lock-up torque converter

8 / 6

7 / 3

@ 2,200 rpm

1.7–14.3 mph 2.7–23.0 km/h /
2.6–13.0 mph 4.2–20.9 km/h

1.72–10.8 mph 2.77–17.4 km/h /
2.6–9.5 mph 4.2–15.3 km/h

AXLES

Front axle oscillation, stop to stop: 30 deg.
Teammate 4 axles featuring closed-center differential locking circuit
Final drive: heavy-duty planetary, mounted inboard
Differential pressure: 270 psi 1861 kPa

HYDRAULICS

Reservoir size
Main pump:
Type
Maximum rated flow
Maximum rated pressure

15 gal. 57 L

Variable-displacement axial piston
29 gpm 110 L/min. / 42 gpm 159 L/min.
3,000–3,100 psi 20 684–21 374 kPa

15 gal. 57 L

Variable-displacement axial piston
42 gpm 159 L/min.
3,000–3,100 psi 20 684–21 374 kPa

BRAKES

Standard features:
Service brakes
Parking brake

Inboard-mounted, wet disc, oil cooled, self-adjusting, and self-equalizing front and rear axles
Automatically spring-applied, hydraulically released, sealed and lubricated, wet multi-disc,
integrally mounted in transmission

**640H Cable / 648H Grapple
Direct Drive / Torque Converter**

748H / 848H Grapple

STEERING

Power, fully hydraulic, Orbitrol™ valve
Articulation angle: 45 deg. each direction
Dual-mode steering (optional)
Secondary steering (optional)

CAPACITIES

Fuel tank size:

Cable

41 gal. 155 L

Single function

72 gal. 273 L

Dual function

78 gal. 295 L

87 gal. 329 L

111 gal. 420 L without winch (optional)

COOLING

Fan drive: variable-speed hydraulic with automatic reversing

GRAPPLE

Dual arch (snubber pin to rear axle):

Maximum reach

116.7 in. 2964.2 mm

122.7 in. 3.1 m

Maximum height

110.7 in. 2811.8 mm

114.4 in. 2.9 m

Grapple control

Joystick-pilot

Joystick-pilot

Optional

Mechanical (SF only)

N/A

Opening:

Standard

115 in. 2921 mm

127 in. 3226 mm / 130 in. 3302 mm

High capacity

125 in. 3175 mm

130 in. 3302 mm / N/A

Area:

Standard

10.4 sq. ft. 1 m²

14.9 sq. ft. 1.4 m² / 16.0 sq. ft. 1.5 m²

High capacity

12.5 sq. ft. 1.2 m²

16.0 sq. ft. 1.5 m² / N/A

Minimum diameter of stem:

Standard

5.5 in. 140 mm

6.0 in. 152 mm / 7.5 in. 191 mm

High capacity

5.2 in. 132 mm

7.5 in. 191 mm / N/A

WINCH

Cable

4000 (8-in. and 10-in. drum) and 6000 (11 in. drum)

6000 (11-in. drum)

Grapple

4000 (8-in. and 10-in. drum)

4000 (8-in. and 10 in.-drum) and

6000 (11-in. drum)

Maximum winch line pull
(8-in. drum standard speed):

Cable

43,388 lbf. 193 kN

Grapple

43,388 lbf. 193 kN

55,527 lbf. 247 kN

OPERATING WEIGHTS

Standard equipment:

Cable

Direct drive / Torque converter

Direct drive

Single function

30,275 lb. 13 745 kg / 30,625 lb. 13 904 kg

N/A

Single function long frame

30,925 lb. 14 040 kg / 31,275 lb. 14 199 kg

N/A

Dual function

31,405 lb. 14 258 kg / 31,755 lb. 14 417 kg

N/A

32,245 lb. 14 638 kg / 32,595 lb. 14 798 kg

37,540 lb. 17 043 kg / 39,300 lb. 17 842 kg

640H Cable / 648H Grapple
Direct Drive / Torque Converter

748H / 848H Grapple

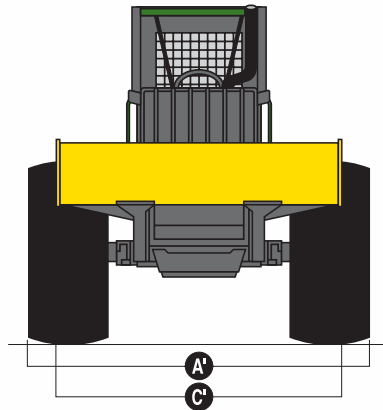
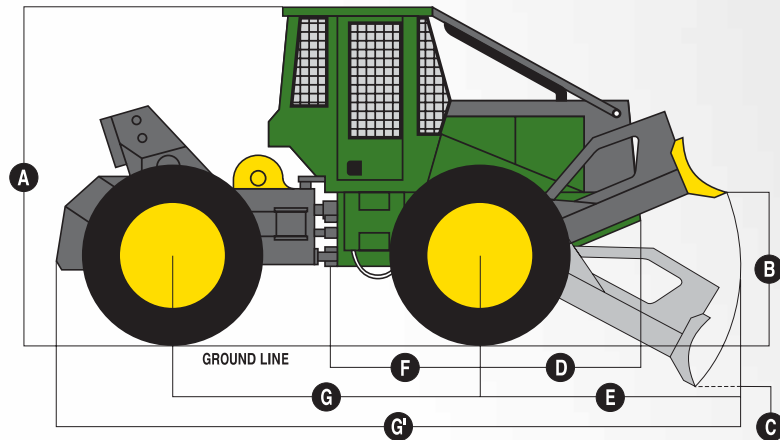
DIMENSIONS

Tire size	28L-26, 14 PR LS2 / 30.5-32, 16 PR LS2	30.5-32, 16 PR LS2
A Overall height*	119 in. 3023 mm / 123.1 in. 3127 mm	123.1 in. 3127 mm
A' Overall width	118.1 in. 3000 mm / 127.5 in. 3239 mm	127.5 in. 3239 mm
B Maximum blade lift above ground	51.5 in. 1308 mm / 59 in. 1499 mm	59 in. 1499 mm
C Maximum blade dig below ground	14.5 in. 367 mm / 14.2 in. 360 mm	14.2 in. 360 mm
C' Dozer blade width	86 in. 2184 mm / 116 in. 2946 mm	116 in. 2946 mm
Optional	116 in. 2946 mm / 116 in. 2946 mm	
D Front axle to front of machine	66.3 in. 1685 mm / 70 in. 1778 mm	70 in. 1778 mm
E Front axle to blade cutting		
Edge arc	90.2 in. 2292 mm / 100.7 in. 2558 mm	100.7 in. 2558 mm
F Front axle to articulation joint	68 in. 1727 mm / 70 in. 1778 mm	70 in. 1778 mm
G Wheelbase	11 ft. 3 in.† 3430 mm / 11 ft. 5 in.† 3481 mm	12 ft. 5 in. 3785 mm
G' Overall length	23 ft. 8.6 in. 7230 mm / 24 ft. 3.8 in. 7413 mm	26 ft. 5.8 in. 8072 mm

*Add 6.3 in. 160 mm when equipped with water tank.

†For long-frame single-arch and for dual-function machines, add 10 in. 254 mm.

640H Cable



GRAPPLE

- Tire size
- H** Height of grapple from ground level
- I** Reach of grapple at ground level
- J** Reach of grapple at full reach*
- K** Maximum height of boom
- L** Below ground reach of grapple at full reach*
- M** Overall length with grapple

**648H Grapple
Single Function / Dual Function**

**748H Grapple
Dual Function**

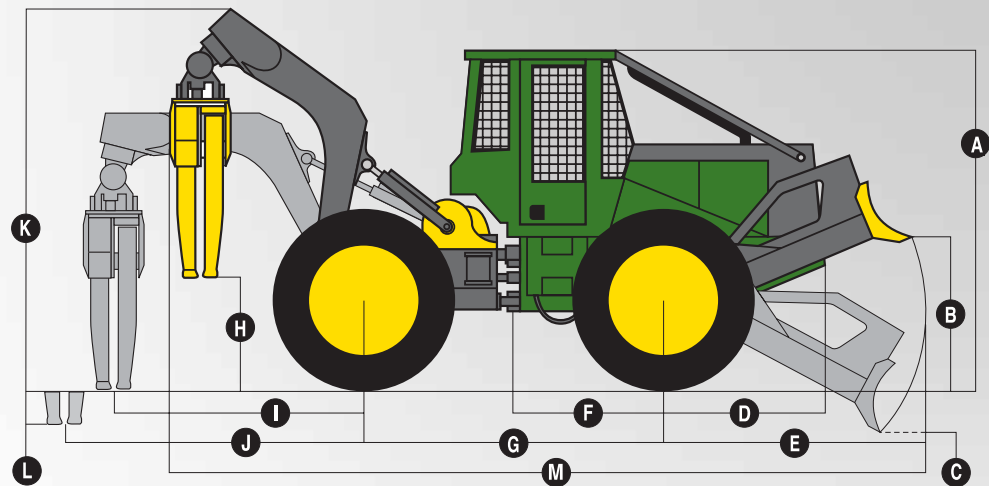
**848H Grapple
Dual Function**

12.5 sq. ft. / 12.5 sq. ft.	14.9 sq. ft.	16.0 sq. ft.
28L / 30.5	30.5	30.5
31.3 in. 794 mm / 62 in. 1575 mm	61.3 in. 1556 mm	58.7 in. 1490 mm
84.7 in. 2152 mm / 116.6 in. 2961 mm	122.6 in. 3113 mm	122.5 in. 3111 mm
93.3 in. 2369 mm / 101.6 in. 2580 mm	106.3 in. 2699 mm	106.3 in. 2699 mm
133.7 in. 3395 mm / 164.9 in. 4188 mm	168.9 in. 4289 mm	168.9 in. 4289 mm
41.5 in. 1054 mm / 35.7 in. 907 mm	43.9 in. 1114 mm	46.5 in. 1180 mm
23 ft. 8.6 in.† 7230 mm / 25 ft. 7.6 in. 7814 mm	26 ft. 5.8 in. 8072 mm	26 ft. 5.8 in. 8072 mm

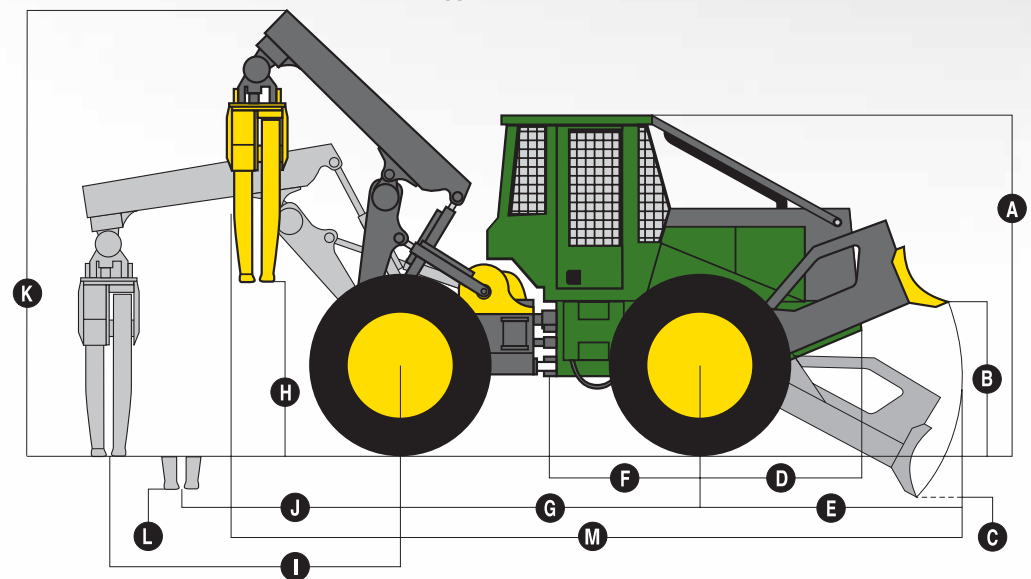
*Arch and boom cylinders fully extended.

†For long-frame single-arch machine, add 10 in. 254 mm.

648H with Single-Function Grapple



648H / 748H / 848H with Dual-Function Grapple





JOHN DEERE
Nothing Runs Like A Deere™

John Deere is the world's leading designer,
manufacturer, and distributor of forest machines.

Our range of purpose-built forestry equipment
is without equal in the industry.

From thinning to regeneration harvesting,
for both cut-to-length and full-tree applications,

John Deere builds woods-tough equipment
with the logger in mind.

