

# 748L-II GRAPPLE SKIDDER



JOHN DEERE





## 748L-II GRAPPLE SKIDDER

# RELIABLE WARRIOR IN THE WOODS.

When loggers like you tell us what they need to succeed in the woods and at the landing, we listen and then get to work putting ideas into action. Based on some of your best input, the John Deere 748L-II Grapple Skidder boasts a wealth of performance and durability features to keep you running long and strong. Our latest upgrades reflect years of continual refinement that have resulted in a proven machine that's simple to operate, easy to maintain, and reliable to own. The 748L-II is more than ready to help you take on tasks in the real woods.

### **All about uptime**

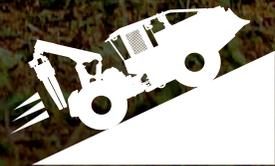
Simplified routing of the electrical and hydraulic systems helps boost reliability and ease maintenance. Improved protection of wiring and hoses minimizes wear and bending. Electrical components are durably constructed to withstand tough forestry applications and extend wear life.

### **Stable and capable**

Combining impressive horsepower and power-to-weight ratio with a constant engine speed, the 748L-II delivers superb responsiveness with maximum efficiency. Rock-solid stability provides excellent pulling power, especially when climbing hills, navigating adverse terrain, or hauling bigger payloads.

### **Best of both worlds**

Continuously Variable Transmission (CVT) combines the efficiency of direct drive with the smoothness and operating ease of hydrostatic drive. Automatically sensing the load, CVT delivers torque and tractive effort as needed to maintain the maximum speed the operator sets, reducing engine wear, optimizing fluid economy, and eliminating manual shifting.



CVT TRANSMISSION  
**ELIMINATES**  
**MANUAL SHIFTING**

**Comfortable cushioning**

Steering sensors control articulation speed when nearing frame-to-frame contact, cushioning impact during full articulation and enhancing operator comfort.

**Independent axle-diff lock**

Engage the front and rear axles, or just the front or rear as needed, to maneuver over tough terrain.

**Get ready for rugged**

Optional Outboard-Extreme™ axles are designed with larger components to deliver maximum jobsite durability, along with a heavier weight to boost machine stability. Higher-ply tire options from the factory increase tire strength for carrying heavier loads.

**Large and in charge**

Optional 1.77-square-meter (19.1 square foot) grapple on the 748L-II helps you deliver more wood to the landing with fewer skids. Grapple squeeze provides a constant pressure, so operators are less likely to lose a log, even if a load gets jarred.

748L-II GRAPPLE SKIDDER

***PUT TECHNOLOGY TO WORK  
IN THE WOODS AND AT THE OFFICE.***

Coordinate your operation and your team's productivity from wherever your work takes you with John Deere Precision Forestry and our core technology solutions.

## FEATURES

### Core intelligence

Your John Deere Forestry machine arrives from the factory equipped with a powerful set of technologies and capabilities already built in. Each plays an important role in managing the health and performance of your overall equipment fleet:

- **JDLink™ connectivity and the John Deere Operations Center™** let you track your equipment, see which machines are working, and know if they're being utilized properly and at maximum productivity and efficiency.
- **John Deere Connected Support™** leverages a suite of dealer and factory tools designed to deliver increased uptime and productivity, and lower daily operating costs.
- **Remote Diagnostics and Programming Capability** within John Deere Connected Support helps your dealer warn you of any issue with your machine — often before you know of the problem yourself — and initiate solutions without charging you for a technician's visit to your jobsite.
- Our advanced dual approach to **Machine Health** combines the expertise of the technology specialists at our dealerships with the data specialists at our central Machine Health Monitoring Center (MHMC). As part of John Deere Connected Support, information from thousands of connected machines flows through the MHMC, enabling our specialists to identify trends and develop new and improved preventative-maintenance and repair protocols.

### Precision Forestry

Take the guesswork out of planning, implementing, and monitoring your logging operation. The tools of our production-planning and -tracking system expand on the core technology features that come standard in every John Deere Forestry machine to unleash a powerful new array of possibilities:

- **TimberMatic™ Maps** is an innovative onboard software solution that helps you reimagine your jobsites. Real-time production views, optimized routes, and shared wireless connections between machines make it easier than ever before to take your forestry operation to the next level.
- **TimberManager™** is a web-based solution for PCs, tablets, and mobile phones that allows you to follow jobsite progress. Combined with TimberMatic Maps, this software provides complete visibility of your operation — from land harvested to specific machines — so you can streamline communication, analyze tasks, and increase productivity:
  - **Remote Monitoring** keeps tabs on the health and performance of your fleet from wherever you are.
  - **Precise Progress Tracking** lets you set goals for your team to meet throughout the day.
  - **Live Production View** displays progress including tree count, area harvested, and estimated tonnage.
  - **Simplified Mapping** of machine data and GPS-based location tracking shows precise stem and log counts.
  - **Real-Time Updates** let you adjust course or eliminate tasks if needed to maintain steady workflow.
  - **Fleet Optimization** goes beyond machine management to help improve the efficiency of your business.



## JOHN DEERE PRECISION FORESTRY

TOOLS ENABLE PRODUCTION  
PLANNING & TRACKING

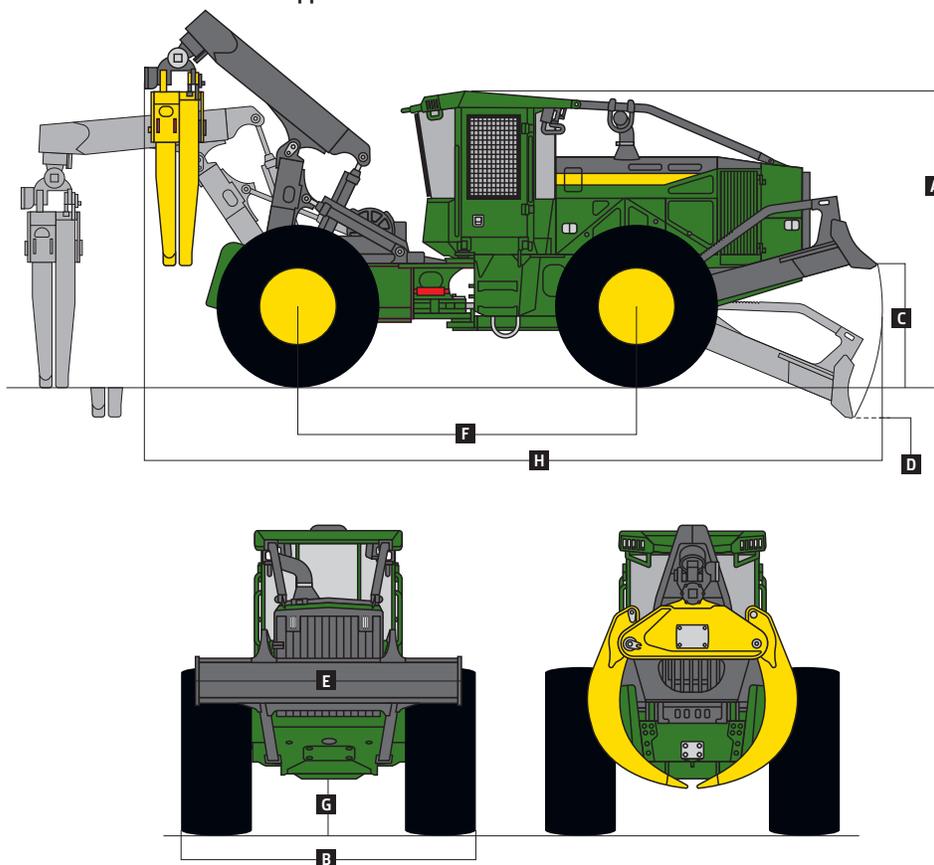
# 748L-II GRAPPLE SKIDDER SPECIFICATIONS

Engine		748L-II
Manufacturer / Model	John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ 6.8L
Off-Road Emission Standards	EPA Final Tier 4/EU Stage V	EPA Tier 2/EU Stage II
Gross Power	196 kW (263 hp) at 1,800 rpm	172 kW (231 hp) at 1,800 rpm
Gross Torque	1141 Nm (841 ft.-lb.) at 1,600 rpm	1020 Nm (752 ft.-lb.) at 1,400 rpm
Number of Cylinders	6	6
Valves per Cylinder	4	4
Engine Displacement	6.8 L (415 cu. in.)	6.8 L (415 cu. in.)
Engine Bore and Stroke	106 x 127 mm (4.17 X 5.00 in.)	106 x 127 mm (4.17 X 5.00 in.)
Fuel System	High-pressure common rail	High-pressure common rail
Aspiration	Turbocharged and charge-air cooled	Turbocharged and charge-air cooled
Air Cleaner	Dual stage with safety element	Dual stage with safety element
Engine Cold-Start System	Glow plugs	Glow plugs
Cooling		
Cooling System	Heavy-duty radiator with continuous deaeration tank and recovery reservoir	
Fan Drive	Hydraulic, variable speed, reversing	
Powertrain		
Transmission	Continuously Variable Transmission (CVT)	
Speed Ranges, Forward and Reverse	6	
Maximum Travel Speed With 30.5-32 Tires	0–24.74 km/h (0–15.37 mph) — 6 speed-range configurations available	
Axles		
Front Axle Oscillation, Stop to Stop	30 deg.	
Options	1425 Super-Wide Extreme-Duty (SWEDA™) and 1700 Outboard-Extreme™	
Differential (front and rear)	Hydraulic-locking, operated-on-the-go, closed-center differential lock	
Steering	Fully hydraulic, joystick	
Articulation Angle	45-deg. each direction	
Service Brakes	Inboard-mounted, wet-disc, oil-cooled, self-adjusting and self-equalizing front and rear axles	
Parking Brake	Automatically spring-applied, hydraulically released, sealed and lubricated, wet multi-disc	
Hydraulics		
Main Pump	Open circuit, axial piston, variable displacement	
Maximum Displacement	85 cc/rev (5.19 ci/rev)	
Electrical System		
Voltage	24 volt	
Number of Batteries (12 volt)	2	
Battery Capacity (each)	950 CCA	
Alternator Rating	150 amp	
Lights (optional)	11	
Dual-Function Grapples		
Standard		
Opening	3251 mm (128 in.)	
Area	1.48 m <sup>2</sup> (15.9 sq. ft.)	
Optional		
Opening	3886 mm (153 in.)	
Area	1.63 m <sup>2</sup> (17.5 sq. ft.)	
Optional		
Opening	3785 mm (149 in.)	
Area	1.77 m <sup>2</sup> (19.1 sq. ft.)	
Grapple Control	Joystick	
Refill Capacities		
Fuel Tank		
Standard	391.8 L (103.5 gal.)	
Optional	457.7 L (120.9 gal.)	
Hydraulic Reservoir	123.6 L (32.6 gal.)	
Diesel Exhaust Fluid (DEF) Tank	19.9 L (5.2 gal.)	
Operating Weight		
Machine Weight	19 713 kg (43,610 lb.)	
Dozer Blade		
Width	2962.4 mm (116.6 in.)	
Height	687.6 mm (27.1 in.)	
Blade Control	Joystick	

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Boom Options		748L-II	
Size	2.6-m (8.5 ft.) standard / 3.0-m (9.8 ft.) optional		
Winch			
Winch Control	Joystick control, hydraulically driven		
Cable Capacity	2-Speed 6000 Winch With 279.5-mm (11 in.) Drum	2-Speed 4000 Winch With 204-mm (8 in.) Drum	
	15.8 mm (5/8 in.)	119.0 m (390 ft.)	77.4 m (252 ft.)
	19.1 mm (3/4 in.)	81.4 m (267 ft.)	54.6 m (177 ft.)
	22.2 mm (7/8 in.)	60.3 m (197 ft.)	39.3 m (128 ft.)
	25.4 mm (1 in.)	46.0 m (150 ft.)	30.7 m (100 ft.)
Line Pull – 15.8-mm (5/8 in.) Cable	<i>Bare Drum at Stall With 2-Speed 6000 Winch</i>		<i>Bare Drum at Stall With 2-Speed 4000 Winch</i>
Low Speed	221.0 kN (49,696 lb.)		213.5 kN (47,997 lb.)
High Speed	147.3 kN (33,131 lb.)		142.3 kN (31,990 lb.)
Line Speed – 15.8-mm (5/8 in.) Cable	<i>Bare Drum at 1,800 rpm With 2-Speed 6000 or 4000 Winch</i>		
Low Speed	13.4 m/min. (44 fpm)		
High Speed	20.1 m/min. (66 fpm)		
Machine Dimensions			
	<i>Dual Function</i>		
Tire Size	30.5-32		
A Overall Height	3365 mm (132.5 in.)		
B Overall Width	3239 mm (127.5 in.)		
C Maximum Blade Lift Above Ground	1517 mm (59.7 in.)		
D Maximum Blade Dig Below Ground	359 mm (14.1 in.)		
E Dozer Blade Width	2962.4 mm (116.6 in.)		
Optional Dozer Blade Width	N/A		
F Wheelbase	3925 mm (154.5 in.)		
G Ground Clearance	557 mm (21.9 in.)		
H Overall Length	8384 mm (330.0 in.)*		
*Length based on 2.6-m (8.5 ft.) boom.			

### 748L-II Grapple Skidder With Dual-Function Grapple



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MSK748LIU (25-08)

Contact us to learn more.

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