

1510E / 1910E Forwarders



The revolutionary E-Series gives you higher productivity than ever before. Improved features and new technical innovations deliver longer uptime and lower daily operating costs. Extreme controllability, high-class comfort, and

rock-solid dependability bring your efficiency and productivity to a new level, the John Deere level.

1510E and 1910E Forwarders offer you an increased load rating, added engine power and torque, and higher

tractive force. Refined load-space design improves loading speed and flexibility. The efficient new combi-valve is placed directly at the boom base for better handling and service access. The re-designed engine hood lifts with



1510E



Quick specs

1510E	
DIESEL ENGINE	6 cylinders, displacement 6.8 liters
Max. engine power	145 kW (1900 rpm) / 195 hp SAE
TRACTION FORCE	185 kN / 41,590 lb.
LOAD RATING	15 metric tons / 16.5 short tons
BEST MODEL APPLICATION	Late thinnings, regeneration harvesting, steep hills, and optimum forwarding distance (700 m and under)

a press of a button. Time spent on machine service is further reduced via centralized pressure checkpoints. With smooth, accurate cabin leveling, you can drive at higher speeds to get the job done faster.



Quick specs

1910E

DIESEL ENGINE	6 cylinders, displacement 9.0 liters
Max. engine power	186 kW (1900 rpm) / 249 hp SAE
TRACTIVE FORCE	220 kN / 49,458 lb.
LOAD RATING	19 metric tons / 20.9 short tons
BEST MODEL APPLICATION	Regeneration harvesting, steep hills, and optimum forwarding distance (800 m and under)





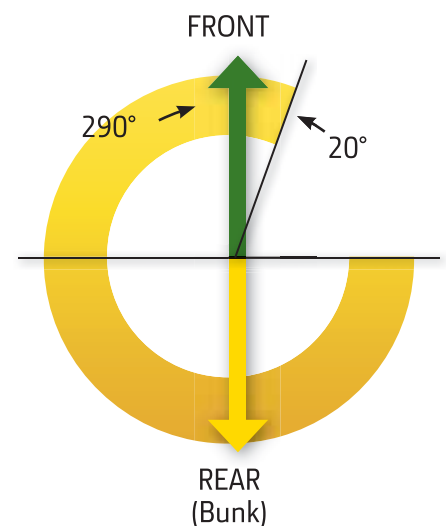
Cutting-edge productivity

The E-Series operating environment features a rotating and leveling cabin as well as new control system. Large windows and less window frames give you great visibility and provide a roomier cabin. Automatic cabin leveling allows you to drive faster comfortably, even on challenging terrain. The standard 290-degree cabin rotation enables quick rotating between driving and loading positions. You no longer need to turn the seat inside the cabin.

With the boom follow-up, the cabin is set to follow the boom slew movements smoothly. You have an optimum view

to boom and grapple for better control and quick loading cycles. Studies show that the efficient boom control and boom follow-up features improve the E-Series productivity.

Cabin-Rotating Angle





Comfortable working environment

The E-Series operating environment makes your work run comfortably. Great visibility and rotating and leveling cabin allow you to work faster and longer. With an efficient design and newly enhanced features, your outlook is always in the right direction, and you can follow boom movements for safer, more ergonomic log loading. The E-Series offers you a healthier working environment and a comfortable working experience.

Add in more comfort features, e.g. automatic air conditioning, high-quality upholstery, and lowered noise and vibration levels. With an efficient and ergonomic working environment, you are able to fully concentrate on efficient, productive logging!

PowerTech™ Plus engine

The 1510E is powered by a 6.8-liter John Deere PowerTech Plus engine with high torque at low rpm, allowing heavier loads and faster forwarding even in the toughest terrain.

The 1910E's 9.0-liter John Deere PowerTech Plus engine makes the largest E-Series Forwarder run fast and smooth in laborious regeneration-harvesting applications.

All John Deere PowerTech Plus engines are characterized by four major components:

- Variable Geometry Turbo (VGT)
- Cooled Exhaust Gas Recirculation (EGR)
- High-Pressure Fuel System
- Four-Valve Head



1510E engine, left side





Engine air pre-filtering

All John Deere E-Series engines are standard factory-installed with a engine air filter with a centrifugal, self-cleaning function. The Engine air filter lowers the daily operating costs and increases productivity via reduced filter maintenance and lengthened filter-change interval.



Engine air filter

Reversing cooling fan

The standard factory-installed reversing, variable-speed hydraulic cooling fan is more robust than aftermarket kits. The reverse function blows debris out of the cooler. It can be controlled automatically or manually to optimize cooling and lower fuel consumption. The hinged access panel enables easy entry without tools.

Robust structures

The John Deere 1510E and 1910E Forwarders come with redesigned steel frame structures for increased durability and uptime. V-shaped frame bottoms make the machine glide smoothly over stumps and rocks. Robust and standardized components such as middle joints maximize machine performance, plus ease service and parts availability.

New Duraxle™ heavy-duty bogie axles are standard for 1510E and 1910E Forwarders. These axles are made to carry high loads, in tough terrain, and over long distances. Not only are the bogies more durable, but the new V-groove axle mounts to the frame, which bears up to 20-percent higher dynamic side loads.

E-Series Forwarders feature newly designed load spaces. Pipe-type mounts have been replaced with new flat bunk mounts, which provide advantages such as higher durability, better grapple access, and quick bunk adjustment to fit different log lengths.

The 1510E and 1910E are available in two different frame lengths and two optional cross-sectional areas of fixed load spaces. Various fixed or hydraulic headboard options further enhance load-space flexibility.

Both the 1510E and 1910E can be equipped with VLS (Variable Load Space) and ALS (Active Load Space) options.

VLS allows hydraulic load-space width adjustments for more flexible forwarding and sorting of short pulp and energy wood.

ALS enhances forwarding productivity by enabling transportation of full loads at even higher speeds. An active damping system, integrated in the ALS, load-space reduces wear on frame, axles, and wheels. The load-space tilting function enables faster loading and unloading, and the machine is well-balanced while moving in rough terrain.







Precise and powerful boom

E-Series booms follow your commands precisely, thanks to exact boom control. The boom and grapple answer to mini-lever commands quickly, enabling faster boom cycles. As a result of accurate

boom control and high lifting and slewing torques, loading and unloading an E-Series Forwarder is more efficient than ever before!

Available options, such as different boom reaches and grapples sizes, and hydraulic damping for lifting and slewing motions, ensure the best possible performance.



	1510E	1910E
BOOM	CF7	CF8
MAX. REACH LENGTHS	7.2/8.5/10 m / 23.6/27.9/32.8 ft.	7.2/8.5 m / 23.6/27.9 ft.
GROSS LIFTING TORQUE	125 kNm / 92,195 lb.-ft.	151 kNm / 111,372 lb.-ft.
SLEWING TORQUE	32 kNm / 23,602 lb.-ft.	41 kNm / 30,240 lb.-ft.
SLEWING ANGLE	380 °	380 °

Innovative automation



TimberMatic™ / CommandCenter™

TimberMatic F-09 is a clear and user-friendly forwarder control and information system. It improves the overall productivity of the machine and is an excellent tool for controlling all forwarder functions. It also enables data transfer between your harvester, forwarder, and office, for example, by making use of the data the harvester collects on the location of harvested timber.

The PC-based system and large color screen make it possible to utilize tools from Windows® such as email, GPS software, TimberLink™, weight scale, and reversing camera. With TimberMatic's support, you get the best out of your machine in all situations.



The alternative forwarder control system is CommandCenter, which includes the most important adjustments. CommandCenter is a good choice when a PC-based versatile control and information system is not required.



TimberLink™

For monitoring your top performance, the 1510E and 1910E come equipped with exclusive TimberLink software. TimberLink enables machine contractors, operators, and maintenance staff to optimize the productivity and uptime of the machine, and minimize fuel expenses and other daily operating costs. The Overview display is standard in every forwarder. The measurements taken with TimberLink can be reviewed inside the machine's cabin or at an office elsewhere.



The TimberLink F measures the duration and fuel consumption of four different work phases.

1510E / 1910E technical data

6- and 8-wheel configurations

	1510E	1910E
LOAD RATING	15 metric tons / 16.5 short tons	19 metric tons / 20.9 short tons
DIESEL ENGINE	John Deere 6068 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 6.8l-displacement	John Deere 6090 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 9.0l-displacement
Max. Power	145 kW (1900 rpm) / 195 SAE hp	186 kW (1900 rpm) / 249 SAE hp
Torque	800 Nm @ 1300-1400 rpm / 590 lb.-ft.	1100 Nm @ 1400 rpm / 811 lb.-ft.
Fuel Tank Capacity	167 l / 44 gal. U.S.	184 l / 49 gal. U.S.
TRANSMISSION	Hydrostatic-mechanical, 2-speed gearbox	Hydrostatic-mechanical, 2-speed gearbox
Tractive Force	185 kN / 41,590 lb.	220 kN / 49,458 lb.
Travel Speed, Gear 1	0–7.5 km/h / 0–4.7 mph	0–7 km/h / 0–4.3 mph
Travel Speed, Gear 2	0–23 km/h / 0–4.3 mph	0–21 km/h / 0–13.1 mph
STEERING	Proportional frame steering with mini levers	Proportional frame steering with mini levers
Turning Angle	±42°	±42°
BRAKES	The service brakes are hydraulically actuated, oil-immersed, multi-disc brakes. The parking and emergency brakes are spring actuated. The frame brake is automated.	
AXLES/BOGIES	Heavy-duty Duraxle™ balanced bogie axles at the front and rear. Hydromechanical differential lock at the front and rear. 6-wheel models have rigid axles at the front.	
ELECTRIC SYSTEM		
Voltage	24 V	24 V
Batteries	2x145 Ah	2x149 Ah
Alternator	140 A (28 V)	140 A (28 V)
Lights	Halogen: 8 x Twin Power and 7 x Single Power; xenon lights optional	Halogen: 8 x Twin Power and 7 x Single Power; xenon lights optional
HYDRAULICS		
Pump Capacity	Load sensing, power adjustable 140 cm³ / 8.5 cu. in.	Load sensing, power adjustable 180 cm³ / 8.5 cu. in.
Operating Pressure	24 MPa / 3480 psi	24 MPa / 3480 psi
Hydraulic Tank	161 liters / 42.5 gal. U.S.	185 liters / 49 gal. U.S.
BOOM		
Max. Reach Lengths	CF7 7.2/8.5/10 m / 23.6/27.9/32.8 ft.	CF8 7.2/8.5 m / 23.6/27.9 ft.
Gross Lifting Torque	125 kNm / 92,195 lb.-ft.	151 kNm / 111,372 lb.-ft.
Slewing Torque	32 kNm / 23,602 lb.-ft.	41 kNm / 30,240 lb.-ft.
Slewing Angle	380°	380°
CABIN		
Rotating Angle	Rotating, or rotating and leveling 290°	Rotating, or rotating and leveling 290°
Sideways Tilt	10°	10°
Forward and Backward Tilt	6°	6°
CONTROL SYSTEM	PC / Windows®-based TimberMatic™ F-09 or CommandCenter™	PC / Windows®-based TimberMatic™ F-09 or CommandCenter™

*Please note: Measurements are guidelines only and may vary depending on production tolerances. The manufacturer reserves the right to make changes.
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MEASUREMENTS*	1510E	Long wheelbase	1910E	Long wheelbase
Length [A]	9570 mm / 377 in.	10770 mm / 424 in.	10370 mm / 408 in.	11270 mm / 444 in.
Wheelbase [B+C]	5100 mm / 201 in.	5700 mm / 224 in.	5600 mm / 221 in.	6000 mm / 236 in.
Bogie Center – Middle Joint [B]	1700 mm / 67 in.	1700 mm / 67 in.	2000 mm / 79 in.	2000 mm / 79 in.
Middle Joint – Bogie Center [C]	3400 mm / 134 in.	4000 mm / 158 in.	3600 mm / 142 in.	4100 mm / 161 in.
Headboard – Bogie Center [D]	2600 mm / 103 in.	3200 mm / 126 in.	2700 mm / 106 in.	3200 mm / 126 in.
Bogie Center – Rear [E]	1900 mm / 75 in.	2500 mm / 98 in.	2100 mm / 83 in.	2500 mm / 98 in.
Width – 700 Series Tires [F]	2950 mm / 117 in.		3090 mm / 122 in.	
Width – 800 Series Tires [F]	3090 mm / 122 in.		—	
Turning Angle	42°		42°	
Outer Turning Radius – 700 Tires	8550 mm / 337 in.		9260 mm / 365 in.	
Inner Turning Radius – 700 Tires	4840 mm / 191 in.		5450 mm / 215 in.	
Transport Height	3800 mm / 150 in.		3900 mm / 154 in.	
Ground Clearance 6W / 8W [G]	670/660 mm / 26.4/26 in.		755 mm / 30 in.	
Tires, Front 6W / 8W	34–14 / 26,5–20		34–16 / 26,5–20	
Tires, Rear	26,5–20		26,5–20	
Min. Machine Weight 6W	16 500 kg / 36,380 lb.		19 050 kg / 42,125 lb.	
Min. Machine Weight 8W	18 400 kg / 40,565 lb.		21 800 kg / 48,080 lb.	
Approach Angle 6W / 8W	25° / 36°		29° / 42°	

*Note: Measurements are nominal and may vary depending on manufacturing tolerances.

LOAD-SPACE OPTIONS	1510E 6W and 8W	1910E 6W and 8W
Total Length [D+E]		
• Standard	4500 mm / 177 in.	4800 mm / 189 in.
• Long (narrow only)	5500 mm / 216 in.	5700 mm / 224 in.
• VLS	4500 mm / 177 in.	4800 mm / 189 in.
• ALS	4500 mm / 177 in.	4800 mm / 189 in.
Load Space Width [J]		
• Standard Wheelbase	narrow / wide 2700 mm / 106 in. / 2930 mm / 115 in.	narrow / wide 2953 mm / 116 in. / 3402 mm / 134 in.
• Long Wheelbase	2700 mm / 106 in. / —	2953 mm / 116 in. —
Cross-sectional Area	narrow / wide 4.5/5.0 m ² VLS / ALS 4.4-5.4/3.45-8.1 m ²	narrow / wide 5.3/6.2 m ² VLS / ALS 5.4-6.6/3.65-8.7 m ²

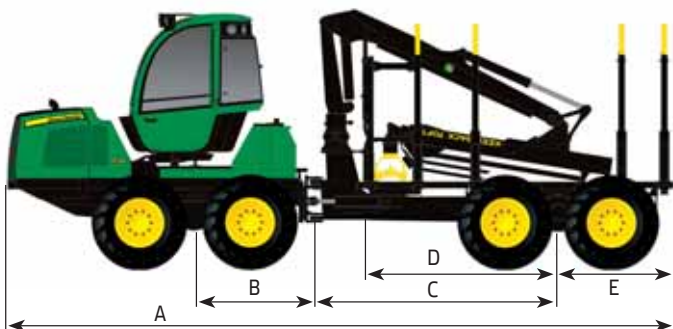
Examples of Standard Equipment (depending on country specifications)

Rotating cabin
TimberMatic™ F-09 control system with printer
TimberLink™ overview window
Hydraulic reversing cooling fan
Hydraulic stairs
Halogen lights
Heavy-duty Duraxle™ bogie axles
Frame brake
Hydraulic system bypass filter
Engine air filter with pre-cleaner element

Examples of Optional Equipment (depending on country specifications)

Rotating and leveling cabin
CommandCenter™
GPS device and software
Rearview camera
VLS and ALS load-space options
Rear frame extension
Boom scales
Xenon lights
Preheater for engine and cabin
Electric fuel-refill pump
Electric hydraulics-refill pump
Biodegradable hydraulic oil
Hydraulic vacuum pump
Automatic fire-extinguishing system
Dozer blade
Tool kits
Tracks and chains

For more information, please contact your nearest dealer.



Nothing runs like a Deere

The cornerstones of E-Series forest machinery design are productivity, uptime, and low daily operating costs. Every year John Deere makes significant investments in product development in order to design and manufacture advanced forest machinery.

John Deere is your partner. We want to offer overall solutions to support your business by making everyday work more productive. In addition to high-quality forestry machines, we provide a wide range of services and tools to make your machine even more efficient. Our ambition is to help you to get the job done faster, safer, and more comfortably!

John Deere Forestry designs and manufactures cut-to-length forestry machinery in Finland.



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