1110E / 1210E Forwarders

JOHN DEERE

John Deere proudly presents the new midsize E-Series Forwarders: the 1110E and 1210E. Both machines are designed to carry out tough thinning jobs at unprecedented productivity levels. With the new E-Series Forwarders, John Deere provides new solutions to improve productivity at two ways: Load and unload each bunk faster as a result of the outstanding cabin rotation and boom follow-up. And where others slow down, the E-Series machines can drive even faster, thanks to the cabin-leveling function and optimized powertrain components.

1110E

Quick specs

	1110E
DIESEL ENGINE Max. engine power	6 cylinders, displacement 6.8 liters 136 kW (1900 rpm) / 183 hp SAE
TRACTIVE FORCE	160 kN / 35,970 lb.
LOAD RATING	12 metric tons / 13.2 short tons
BEST MODEL APPLICATION	Thinnings, regeneration harvesting, steep hills, and optimum forwarding distance (600 m and under)

The new 1110E and 1210E come with sturdier frames and middle joints and new axles and mounts — just to mention a few of the features that provide higher uptime throughout the machine's lifetime. Daily maintenance effort is reduced via the new reversible hydraulic fan that keeps the engine cooler clean. The John Deere exclusive TimberLink™ machine-monitoring system is now also available for forwarders, for top performance you can track.

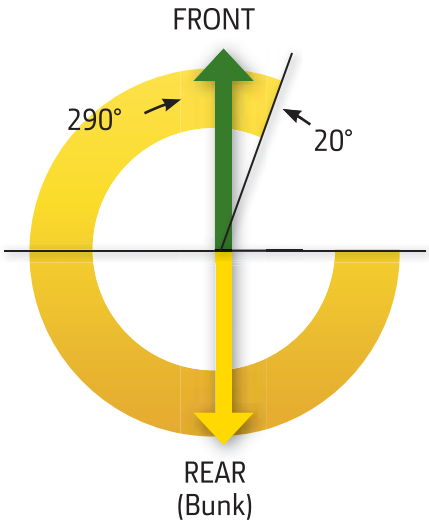
Quick specs

	1210E
DIESEL ENGINE Max. engine power	6 cylinders, displacement 6.8 liters 140 kW (1900 rpm) / 188 hp SAE
TRACTIVE FORCE	175 kN / 39,340 lb.
LOAD RATING	13 metric tons / 14.3 short tons
BEST MODEL APPLICATION	Regeneration harvesting, steep hills, and optimum forwarding distance (600 m and under)

New operating concept

Studies show that efficient boom control and boom follow-up improve the productivity of E-Series Forwarders. The operating environment features a rotating and leveling cabin as well as a new control system. With 360-degree visibility, you have a clear view of your surroundings — plus you can easily follow boom movements for safer, more ergonomic log loading. With the boom follow-up, the cabin is set to follow the boom slew movements smoothly. You have an optimum view to the boom and grapple for better control and quick loading cycles.

Cabin-Rotating Angle



Comfort and control

The new E-cabin is a result of rigorous John Deere product development designed to achieve best-in-class operator ergonomics, productivity, and working contentment. Standard features like automatic air conditioning, high-quality upholstery, low noise and vibration levels, and various options like food heater and cooler provide a highly comfortable operating experience. Armrests, hand-control panels, and base machine switchboard have been designed with active involvement of machine operators, thus providing highly ergonomic and intuitive machine controllability. Operator-specific settings further ease control and machine operations between shifts and drivers.

The machine can be optionally equipped with two reverse cameras — one at the end of the rear chassis, the other at the cabin top rear. This is not only a safety feature, but it also increases productivity during loading, since the driver does not need to turn the cabin or look over his shoulders while driving from one log pile to another.

Right-hand control panel includes several easy-to-reach functions, such as working lights and wipers.

Food heater and cooler options for additional operator comfort.

PowerTech™ Plus engine

Both the 1110E and 1210E are powered by a 6.8-liter John Deere PowerTech Plus engine with high torque at low rpm. The new standard hydraulic fan reverses automatically, cleaning dust and debris out of the engine cooler. The engine air filter includes pre-filtering that multiplies the filter lifetime.

The 1110E has a 136-kW (183 hp SAE) maximum engine power output. The 1210E comes with a maximum engine power of 140 kW (188 hp SAE).

Easy maintenance

In designing the new E-Series machines the focus was on easing and expediting machine service. Thanks to the new design of hoods and cover, component checks and maintenance are easier than before. The John Deere heavy-duty engine hood can be lifted with the press of a button. It provides eye-catching design, and reliable protection of the engine, cooler, and components.

The E-cabin can be tilted hydraulically for easy service access to powertrain components located under the cabin. Electronic manuals and parts catalogs as well as the Service ADVISOR™ system are integrated in the machine's onboard PC. Centralized checkpoints and optional central lubrication system further ease daily maintenance efforts.

Hood design

Right-side engine-service hatch

Powertrain

E-Series Forwarders come equipped with new bogie axles and frames sturdier than those used in D-Series machines.

The 1210E is equipped with new Duraxle™ heavy-duty bogie axles for higher durability and 9.3-percent more tractive force than 1110E. The new Duraxle bogies have following advantages:

- Increased tractive force
- Increased ground clearance
- Smooth movement over obstacles and on hillsides
- Reduced ground pressure for improved soft ground application

John Deere axles are designed to carry high loads in tough terrain and over long distances. Not only the bogies are more durable, but also the new V-groove axle mounts to the frame bears up to 20-percent higher dynamic side loads.

More robust and standardized components such as middle joints maximize machine performance, plus ease service and parts availability.

V-groove mount

Bogie axle

High loading capacity

E-Series Forwarders feature newly designed load spaces. New flat bunk mounts have replaced previous pipe-type mounts, providing three main advantages: higher durability, better grapple access, and quick bunk adjustment to fit different log lengths.

Depending on the model, machines are available in different frame lengths and various optional cross-sectional areas of fixed load spaces. Fixed or hydraulic headboard options further enhance load space flexibility.

The 1210E can be equipped with a VLS (Variable Load Space) option. VLS allows hydraulic load space width and height adjustments for more flexible forwarding and sorting of short pulp and energy wood.

Both the 1110E and 1210E can be equipped with an optional frame extension. This option enhances load space flexibility for temporary transportation of 2x3-m logs. The option availability is limited to short and narrow load spaces.

Flat bunk mount and grapple holder

CF forwarder booms

John Deere CF forwarder booms are known for best-in-class log handling. Combined with the new TimberMatic™ F-09 control system and the efficient hydraulics of the E-Series Forwarders, CF booms provide unprecedented productivity.

With boom follow-up function, the cabin follows the boom slew movements smoothly, enabling an optimum view to the boom and grapple for better control and quick loading cycles.

The 1110E comes equipped with the CF5 boom, and the 1210E has the CF7 for additional power reserves to handle very large logs. Both booms are characterized by superior geometry, lift and slew power, and reach. As an option, the 10-m reach version is also available with hidden hoses, for improved uptime in especially dense thinnings.

	1110E	1210E
BOOM	CF5	CF7
MAX. REACH LENGTHS	7.2/8.5/10 m / 23.6/27.9/32.8 ft.	7.2/8.5/10 m / 23.6/27.9/32.8 ft.
GROSS LIFTING TORQUE	102 kNm / 75,235 lb.-ft.	125 kNm / 92,195 lb.-ft.
SLEWING TORQUE	24 kNm / 17,700 lb.-ft.	32 kNm / 23,602 lb.-ft.
SLEWING ANGLE	380 °	380 °

Innovative automation

TimberMatic™ / CommandCenter™

E-Series Forwarders feature the innovative TimberMatic F-09 control system for efficient control of all machine functions. New software focuses on user-friendliness, easy-to-learn patterns, and operator-specific settings that improve machine operation between shifts and drivers.

The alternative control system for your E-Series machine is a CommandCenter control display.

CommandCenter is an alternative forwarder control system, which regulates the most important adjustments. CommandCenter is a viable option when circumstances do not require a PC-based or highly versatile control system.

TimberLink™ monitoring system

John Deere is the only forest machinery manufacturer that produces systems for machine performance and condition monitoring. The exclusive TimberLink machine-performance and condition-monitoring system is now also available for E-Series Forwarders.

TimberLink F-09 is especially designed to keep an eye on the operating costs of your forwarder. TimberLink automatically and continuously measures the machine's productivity and condition. A drop in performance is easily notable and can be corrected immediately. The system collects work-cycle information, such as loading and driving time, that can be used to improve operator techniques and skills.

TimberLink F-09 monitoring is based on time span and fuel consumption during four different work phases.

1110E / 1210E technical data

6- and 8-wheel configurations

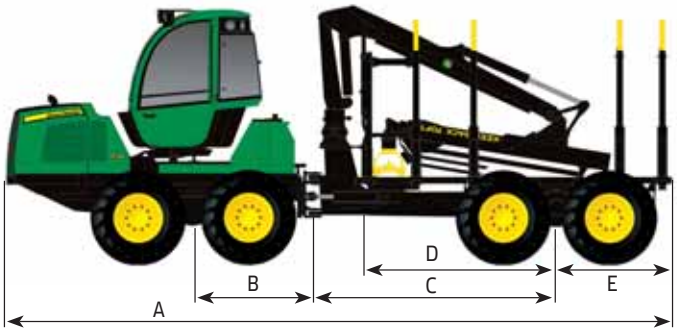
	1110E	1210E
LOAD RATING	12 metric tons / 13.2 short tons	13 metric tons / 14.3 short tons
DIESEL ENGINE Max. Power Torque Fuel Tank Capacity	John Deere 6068 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 6.8l-displacement 136 kW (1900 rpm) / 183 SAE hp 780 Nm @ 1400 rpm / 575 lb.-ft. 167 l / 44 gal. U.S.	John Deere 6068 PowerTech™ Plus turbocharged, charge air cooled, 6 cylinders, 6.8l-displacement 140 kW (1900 rpm) / 189 SAE hp 780 Nm @ 1400 rpm / 575 lb.-ft. 167 l / 44 gal. U.S.
TRANSMISSION Tractive Force Travel Speed, Gear 1 Travel Speed, Gear 2	Hydrostatic-mechanical, 2-speed gearbox 160 kN / 35,970 lb. 0–7,5 km/h / 0–4.7 mph 0–23 km/h / 0–14.3 mph	Hydrostatic-mechanical, 2-speed gearbox 175 kN / 39,340 lb. 0–7,5 km/h / 0–4.7 mph 0–23 km/h / 0–14.3 mph
STEERING Turning Angle	Proportional frame steering with mini levers ±44°	Proportional frame steering with mini levers ±44°
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	Gear bogie axles at the front and rear.Hydromechanical differential lock at the front and rear. 6-wheel models have rigid axles at the front and rear.	Heavy-duty Duraxle™ balanced-gear 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 Batteries Alternator Lights	 24 V 2x145 Ah 140 A (28 V) Halogen: 8 work, 2 waist, 1 rear, and 2 boom lights; xenon lights optional	 24 V 2x149 Ah 140 A (28 V) Halogen: 8 work, 2 waist, 1 rear, and 2 boom lights; xenon lights optional
HYDRAULICS Pump Capacity Operating Pressure Hydraulic Tank	Load sensing, power adjustable 140 cm^3 / 8.5 cu. in. 24 MPa / 3480 psi 161 liters / 42.5 gal. U.S.	Load sensing, power adjustable 140 cm^3 / 8.5 cu. in. 24 MPa / 3480 psi 161 liters / 42.5 gal. U.S.
BOOM Max. Reach Lengths Gross Lifting Torque Slewing Torque Slewing Angle	CF5 7.2/8.5/10 m / 23.6/27.9/32.8 ft. 102 kNm / 75,235 lb.-ft. 24 kNm / 17,700 lb.-ft. 380°	CF7 7.2/8.5/10 m / 23.6/27.9/32.8 ft. 125 kNm / 92,195 lb.-ft. 32 kNm / 23,602 lb.-ft. 380°
CABIN Rotating Angle Sideways Tilt Forward and Backward Tilt	Rotating, or rotating and leveling 290° 10° 6°	Rotating, or rotating and leveling 290° 10° 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.

MEASUREMENTS*	1110E	Long wheelbase	1210E	Long wheelbase
Length [A]	9570 mm / 377 in.	10570 mm / 416 in.	9570 mm / 377 in.	10570 mm / 416 in.
Wheelbase [B+C]	5100 mm / 201 in.	5500 mm / 217 in.	5100 mm / 201 in.	5500 mm / 217 in.
Bogie Center – Middle Joint [B]	1700 mm / 67 in.	1700 mm / 67 in.	1700 mm / 67 in.	1700 mm / 67 in.
Middle Joint – Bogie Center [C]	3400 mm / 134 in.	3800 mm / 150 in.	3400 mm / 134 in.	3800 mm / 150 in.
Headboard – Bogie Center [D]	2600 mm / 103 in.	3000 mm / 118 in.	2600 mm / 103 in.	3000 mm / 118 in.
Bogie Center – Rear [E]	1900 mm / 75 in.	2500 mm / 98 in.	1900 mm / 75 in.	2500 mm / 98 in.
Width – 600 Series Tires [F]	2700 mm / 106 in.		2746 mm / 108 in.	
Width – 700 Series Tires [F]	2890 mm / 114 in.		2956 mm / 116 in.	
Turning Angle	44°		44°	
Outer Turning Radius – 700 Tires	8243 mm / 325 in.		8243 mm / 325 in.	
Inner Turning Radius – 700 Tires	4493 mm / 177 in.		4493 mm / 177 in.	
Transport Height	3800 mm / 150 in.		3800 mm / 150 in.	
Ground Clearance 6W / 8W [G]	670/660 mm / 26.4/26 in.		670/660 mm / 26.4/26 in.	
Tires, Front 6W / 8W	34–4 / 26,5–20		34–14 / 26,5–20	
Tires, Rear	26,5–20		26,5–20	
Machine Weight 6W	15 500 kg / 34,170 lb.		16 200 kg / 35,720 lb.	
Machine Weight 8W	17 300 kg / 38,140 lb.		18 100 kg / 39,900 lb.	
Approach Angle 6W / 8W	25° / 36°		25° / 36°	

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

LOAD-SPACE OPTIONS	1110E 6W and 8W	1210E 6W and 8W
Total Length [D + E]		
• Standard	4500 mm / 177 in.	4500 mm / 177 in.
• Long (narrow only)	5500 mm / 216 in.	5500 mm / 216 in.
• VLS	—	4500 mm / 177 in.
Load Space Width [J]	Narrow / wide	Narrow / wide
• Standard Wheelbase	2700 mm / 106 in. / 2930 mm / 115 in.	2700 mm / 106 in. / 2930 mm / 115 in.
• Long Wheelbase	2700 mm / 106 in. / —	2700 mm / 106 in. / —
Cross-sectional Area	Narrow / wide 4.0/4.5 m^2	Narrow / wide 4.0/4.5 m^2 VLS 4.0–4.8 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
Air-suspended seat
Halogen lights
Heavy-duty Duraxle™ bogie axles (1210E)
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 load-space options (1210E)
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
Central lubrication 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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