



FORWARDERS

1710D Eco III

CUT-TO-LENGTH SYSTEM

HARVESTERS

FORWARDERS



Eco III





The new PowerTech Plus engines introduced in Eco III forwarders conform to the TIER III emission regulations.

2009
Diesel
of the
Year

The software feature that optimises the engine's RPMs helps to lower fuel consumption and reduce noise levels. The new Eco III forwarders help machine operators to run their machines even more economically than before.

THE NEW BIG JOHN DEERE 1710D ECO III.

BETTER FUEL ECONOMY WITH 1710D ECO III.
ROUND-THE-CLOCK PERFORMANCE – WHATEVER THE CONDITIONS.
HEAVY LOADS. EXCELLENT PRODUCTIVITY.

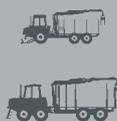
The Eco III forwarders come with a powerful and hardwearing John Deere PowerTech Plus™ engine, which conforms to Tier III emission regulations. The forwarders also feature the new Eco-Pull as well as a software application that optimises the engine's RPMs.

CUT-TO-LENGTH SYSTEM

HARVESTERS



FORWARDERS



Thanks to the new Eco-Pull, the machines can get up to the same speeds as before but with even lower RPMs, thus saving fuel. The Eco-Pull optimises the diesel engine's RPMs with a hydrostatic transmission ratio to achieve the desired vehicle speed at the lowest possible RPMs.

The Eco-Pull can be used in both slow and fast driving conditions. By engaging the Eco-Pull, operators can reduce noise levels and lower fuel consumption.

Eco III

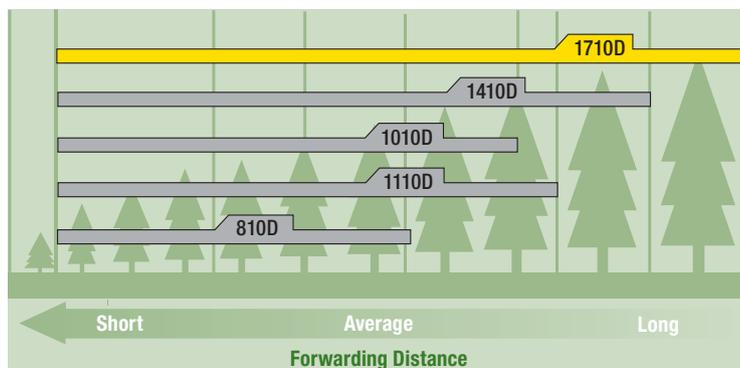


Operating range of the 1710D

The new John Deere 6090 PowerTech Plus engine conforms to the strict Tier III emission regulations. The engine offers best-in-class fuel economy and improves the forwarder's productivity. Compared to the old model, the new engine responds more quickly to changes in the load.

New properties include a larger, 9-litre cylinder capacity, a cooled exhaust gas recirculation system (EGR), a variable geometry turbocharger (VGT), a four-valve cylinder head and pistons with cooling channels.

The software feature that optimises RPMs in the new Eco III forwarders automatically lowers the engine's RPMs to idle if the forwarder boom is not used within a set time. The RPMs automatically increase when work is resumed. This improves the forwarder's fuel economy. The parameters of the automatic working RPMs can be adjusted via the TMC™ control system.



The John Deere 1710D is designed specifically for forwarding larger loads. It is unbeatable on long distances and in difficult conditions, such as in deep snow, on steep slopes and on rocky ground.

CUTTING-EDGE QUALITY. POWER. EASY MAI

FORWAEDERS

1710D Eco III



The powerful CF8 boom is easy to control and its smooth motions give added efficiency to loading and unloading. Two different boom reach lengths are available. Hydraulic dampening for slewing and lifting is also available as an optional accessory.

The efficient hydraulic system makes the boom easy to handle. Thanks to the large diameter of the hydraulic hoses and pipes, pressure loss is minimal. The state-of-the-art filter system lengthens the life of the components.

The load's low centre of gravity keeps the machine steady in all conditions. Two different frame lengths are available, as are two fixed load space widths as well as VLS (Variable Load Space) and ALS (Active Load Space). The machine also has a fixed or hydraulically operated strong headboard.

The machine features a patented balanced bogie unit and it has excellent ground clearance. Thanks to offering the highest tractive force available in machines of its size, the 1710D overcomes even the most extreme of conditions. Several tyre options are available, as are matching chains and tracks. Accessories include HD (Heavy Duty) bogie axles for accommodating extra wide tyres and tracks.

The frame structure and middle joint are of strong composition. The result is a well-balanced whole with a powerful frame brake. The positioning of the middle joint, the steering angle of ± 44 degrees and the generous ground clearance together give the forwarder agility and a small turning circle.

The cab conforms to safety regulations and provides excellent visibility in all directions. The cab has efficient air-conditioning and soundproofing. A CD player / radio is provided. The large windows are made from tinted polycarbonate safety glass and blinds that provide shade from sunlight are also available. The sturdy air suspended seat has various adjustments. The cab is equipped with halogen/xenon lights and a connection for a mobile telephone.

The TMC™ control system governs all functions of the machine. The versatile and easy-to-use Windows-based Timbermatic™ 700 system is offered as an alternative. The Eco-Pull, which helps machine operators achieve better fuel economy, and the automatic working RPMs that optimises the engine's RPMs, are included as standard in both systems.

The engine hood is light to lift. Servicing the engine is easy and safe, and components that require daily or scheduled servicing are easily accessible. Accessories include, for example, a diesel heater.

The new John Deere PowerTech 6090 engine is specifically designed for forest machines and meets the Tier III emission regulations. It is hardwearing and responds quickly to changes in the load. Furthermore, the engine offers excellent fuel economy and gives top torque even at low RPMs. The cooling system for the engine and hydraulics offers excellent performance whatever the conditions.

Gaining access to wearing parts that are located underneath the cab is also easy, as the cab moves aside hydraulically. Service lights are provided in the space underneath the cab. Optional equipment include electrical refill pumps for fuel and hydraulic oil, and a vacuum pump.

The strong belly pan can be lowered and raised using a winch. Access to all wearing parts is easy, fast and safe.

TORQUE. POWER. PRODUCTIVITY. LOW OPERATING COSTS.

Thanks to John Deere's long experience and expertise, our forest machines are efficient and environmentally friendly. The power and reliability of the 1710D is world-renowned.



The balanced bogie unit plays an extremely important role in making the machines environmentally sustainable. Thanks to the tractive force being distributed evenly between all wheels, the forwarder causes less damage to the ground and offers a gentle ride even when fully loaded. The Heavy Duty (HD) axles, which are available as an optional equipment, mean that the machine can be equipped with extra wide tyres or tracks that make the machine move over soft terrain even more efficiently.

Despite its robust frame, the John Deere 1710D is an extremely environmentally friendly choice. The unique balanced and streamlined bogie structure of the John Deere forest machines, the low centre of gravity, the advanced transmission control system and large wheels help to reduce surface pressure and ground impact. The stability of the machine and the efficient frame brake make loading and unloading easy and safe. The strong boom and the advanced control system add the finishing touches to the composition. Operators appreciate the easy-to-use controls, the excellent all-round visibility and the powerful lights.

John Deere engines are specifically designed for forest machines. They produce very low emissions and conform to the latest emission regulations. In addition, they offer excellent fuel economy. The engines yield high torque values even at low RPMs and respond quickly to changes in the load, making the 1710D efficient and easy to operate even in demanding conditions. In addition, these features help to lower fuel consumption and reduce noise levels, and lengthen the life of the components.

Long service intervals make the machine yet more economic. For example, the interval for changing oil and filters has escalated from 250 hours to up to 500 hours.

REACH. HANDLING. QUALITY. ACCURACY.

The booms of John Deere forwarders are the most efficient on the market. Handling is easy, thanks to the lightweight control levers and the TMC™ system or the comprehensive Timbermatic™ 700. The possibility of saving operator-specific settings in the system's memory speeds up handovers. The boom's operating speed can be adjusted quickly to suit different conditions.



The hardwearing and long-reaching boom is located at a suitable distance from the cab, almost matching the operator's line of vision. This means that the operator can control the boom's movements smoothly and naturally in any direction.

Hydraulic dampening of the lifting and slewing motions is available as an optional accessory. The high lifting and slewing torques of the CF8 boom used in the 1710D give reliability and efficiency for lifting heavy loads even with the longest reach lengths.

The 1710D comes in two different frame lengths, and with two options for the cross-sectional area of fixed load spaces. In addition, the 1710D offers two variable load space options, the VLS and the ALS. This means that you can always find a combination that is just right for optimising your forwarding capacity.

VLS (Variable Load Space) is an extra feature that allows the size of the load space to be adjusted hydraulically. Depending on the circumstances, VLS gives you up to 64 centimetres more width for forwarding and sorting short pulpwood and energy wood. At the narrowest setting, VLS makes the forwarder fit into tight gaps.

The patented ALS (Active Load Space) makes forwarding full loads a fast process even in demanding conditions. The active dampening of the load space reduces stress forces that affect the frame, the axles and the wheels. The load space tilting function keeps the machine in balance during forwarding and speeds up loading and unloading.

Grapple options and boom reach lengths

	Grapple 0.35 m ²	Grapple 0.42 m ²
1710D / CF8	7.3 m/8.5 m	7.3 m

ENJOYABLE WORKING ENVIRONMENT. GOOD VISIBILITY. EFFICIENCY IN NEW LIGHT.



Like all John Deere forest machines, the 1710D has been designed with the needs of machine operators in mind. The numerous details inside the spacious cab make the operator's life easier, bringing more efficiency and comfort to their work. The roomy cab offers good visibility in all directions. The xenon lights, which are available as an optional equipment, are many times more powerful than the conventional halogen lights.

The sturdy seat and the ergonomically designed controls give the operator a comfortable working position. The operator's working environment also benefits from an efficient air-conditioning and heating system, an air filter that keeps the air inside the cab fresh and clean, and blinds that can be fitted in the cab to provide shade from sunlight.

The 1710D Eco III also comes with automatic working RPMs and the Eco-Pull that optimises the engine's RPMs, therefore adding comfort to the operator's working conditions and increasing the forwarder's overall productivity.

The John Deere engine responds quickly to changes in the load and keeps the RPMs low both during loading and forwarding. This reduces noise levels and improves fuel economy. The parameters of the Eco-Pull and the software feature can be adjusted via the TMC™ control system or the Timbermatic™ 700.

The software features a versatile fault diagnostic function and issues reminders of scheduled maintenance services. The Timbermatic™ 700 reports can also be printed out onto A4 sheets with a colour printer.



The Timbermatic 700 and the TMC improve overall productivity and allow for easy use of the latest monitoring tools, such as the loader scales and the rear-view camera. The sensors and software of the optional loader scales measure the weight of the load and the logs. In addition to optimising the use of the load space, the scales help to keep the load the right size, making forwarding safe and fast. The self-learning calibration function of the scales increases the system's reliability.

Instead of the TMC, you can opt for the Timbermatic 700 information system. The system features a data link that can be used to send information between the harvester and the forwarder, thus making use of the data that the harvester collects on the location of the harvested timber, for example. The PC-based Timbermatic 700 and the large colour display give the operator access to all the tools included in a normal Windows environment – from e-mail to maps and GPS software.

TECHNICAL DATA 1710D Eco III

	With 6 wheels	With 8 wheels
LOAD RATING	17 000 kg	17 000 kg
ENGINE	John Deere 6090 PowerTech Plus turbocharger, intercooler, diesel 6 cylinders, 9-litre cylinder capacity	John Deere 6090 PowerTech Plus turbocharger, intercooler, diesel 6 cylinders, 9-litre cylinder capacity
Max. Power Output	160 kW @ 2100 RPM	160 kW @ 2100 RPM
Torque	1090 Nm @ 1400 RPM	1090 Nm @ 1400 RPM
Fuel Tank Capacity	180 litres	180 litres
TRANSMISSION	Hydrostatic-mechanical 2-speed gearbox	Hydrostatic-mechanical 2-speed gearbox
Tractive Power	200 kN	200 kN
Speed Range, Low	0–8 km/h	0–8 km/h
High	0–22 km/h	0–23 km/h
STEERING	Proportional frame steering with mini levers	Proportional frame steering with mini levers
Steering Angle	±42°	±42°
BRAKES	The service brakes are hydraulically actuated, oil-immersed multi-disc brakes. The parking and emergency brakes are spring actuated. ISO 11169	The service brakes are hydraulically actuated, oil-immersed multi-disc brakes. The parking and emergency brakes are spring actuated. ISO 11169
	The frame brake is automated.	The frame brake is automated.
AXLES / BOGIE UNIT	Rigid axles at the front. Balanced gear bogie axles at the rear. Hydro-mechanical differential lock at the front and the rear.	Balanced gear bogie axles at the front and the rear. Hydro-mechanical differential lock at the front and the rear.
ELECTRICS		
Voltage	24 V	24 V
Batteries	2x149 Ah	2x149 Ah
Alternator	140 A (28 V)	140 A (28 V)
Lights	10 x 140 W Twin Power; xenon lights also available.	10 x 140 W Twin Power; xenon lights also available.
HYDRAULICS	Load-sensing, power-adjustable	Load-sensing, power-adjustable
Pump Capacity	140 cm ³	140 cm ³
Operating Pressure	21.5 MPa	21.5 MPa
Hydraulic Tank	140 litres	190 litres
BOOM	CF8	CF8
Max. Reach Lengths	7.3 m/8.5 m	7.3 m/8.5 m
Gross Lifting Torque	151 kNm	151 kNm
Slewing Torque	41 kNm	41 kNm
Slewing Angle	380°	380°
CAB	Safe and in conformity with ISO standards	Safe and in conformity with ISO standards
CONTROL SYSTEM	TMC™ or PC/Windows-based Timbermatic™ 700	TMC™ or PC/Windows-based Timbermatic™ 700

MEASUREMENTS (mm)*

	With 6 wheels	With 8 wheels
A Length		
- Standard wheelbase	10 100	10 100
- Long wheelbase	10 900	10 900
B Bogie Boss – Middle Joint	2 000	2 000
C Middle Joint – Bogie Boss	3 500 (3 900)	3 500 (3 900)
D Headboard – Bogie Boss	2 750 (3 150)	2 750 (3 150)
E Bogie Boss – Rear		
- Standard wheelbase	2 050	2 050
- Long wheelbase	2 450	2 450
F Width, at the Front		
- 650 series tyres	–	2 990/2 980 with HD axles
- 700 series tyres	2 950	–
- 750 series tyres	–	3 050/3 090 with HD axles
Width, at the Rear		
- 650 series tyres	–	2 990/2 980 with HD axles
- 750 series tyres	–	3 050/3 090 with HD axles
G Min. Load Height	3 900	3 900
H Ground Clearance	680	730

WEIGHT

Depending on the accessories, from	18 100 kg	20 430 kg
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LOAD SPACE OPTIONS (mm)*

	Standard	Wide	VLS	ALS
I Total Length				
- Standard wheelbase	4 800	4 800	4 655	4 600
- Long wheelbase	5 600	–	–	–
J Exterior Width	2 953	3 400	2 963-3 603	2 930-4 500
Cross-sectional Area	5.3 m ²	6.2 m ²	5.4-6.6 m ²	3.7-8.7 m ²

* Please note: the measurements are guidelines only and may vary depending on the production tolerances. (Measurements relating to the long wheelbase are given in brackets.)

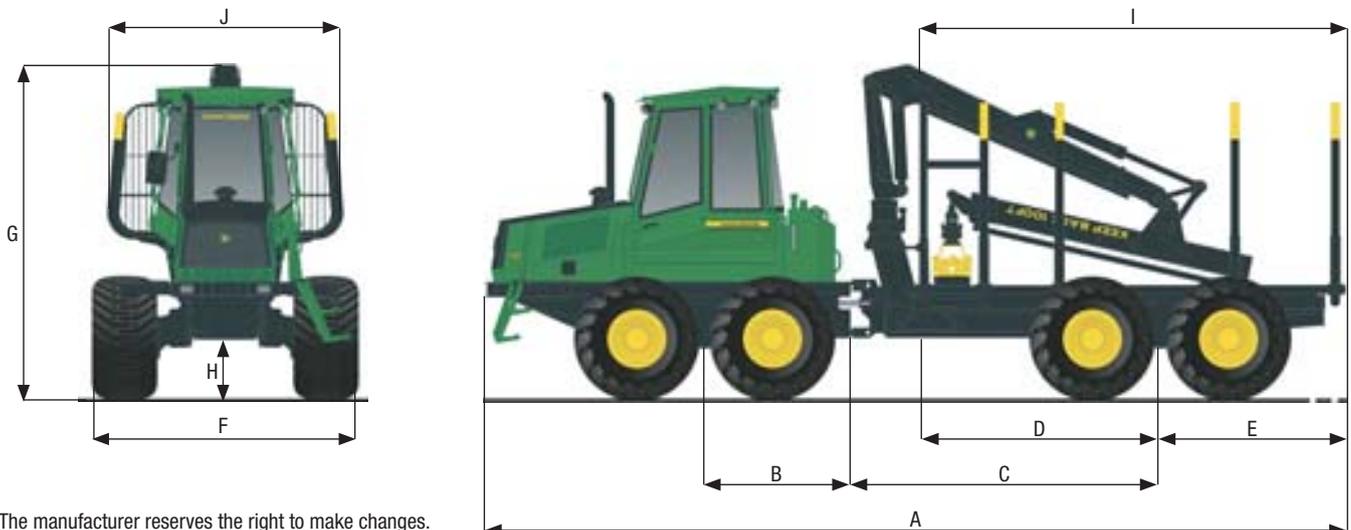
Standard Equipment

TMC™ (Total Machine Control)
Hydraulic stepladder
Air suspended seat
Halogen lights
Frame brake
Mineral oils
Pre-heater for the engine and the cab
8.5 m boom reach
Professional toolkit

Optional Equipment

Various tyre options
HD axles
Shorter boom reach length
Various pendants and rotators
Boom dampening kit
Various grapple options
Various load space options
VLS
ALS
Tow bar
Several seat options
CD changer (5 CDs)
Windscreen wiper for the side windows
Blinds
Timbermatic™700
Printer
Memory card
Rear-view camera
GPS device and software
Boom scales
Xenon lights
Xenon/halogen lights for the boom
Electric fuel refill pump
Electric hydraulics refill pump
Bypass filter for the hydraulic system
Biological hydraulic oils
Hydraulic vacuum pump
Automatic fire extinguishing system
Environmental spill kit
Loader scales
Dozer blade
Pre-cleaner for the engine air filter
Toolkits
Spare tyre
Tracks and chains

For more information on the accessories, please contact our resellers.



The manufacturer reserves the right to make changes.

FORWARDERS

1710D Eco III



NOTHING RUNS LIKE A DEERE.

MAYBE THOSE WORDS ARE THE REASON WHY ALMOST EVERY OTHER PROFESSIONAL LOGGER IS A JOHN DEERE CUSTOMER.

They're just five simple words. Yet they have profound impact on your company. Because at their heart they mean equipment that is built forest tough, with greater productivity, more uptime and lower daily operating costs. They mean a dealer network over 380 locations strong, with immediate access to parts and experts that understand your industry. They mean a dedicated lender in John

Deere Credit, committed to helping loggers succeed with competitive financing to enhance cash flow. And they mean a global forestry equipment leader that invests more in R & D than any other manufacturer.

But most of all, these words represent the confidence that comes with over 168 years of heavy equipment experience.

Your world is logging. So is ours. John Deere Forestry. Leading the way, worldwide.

FULL TREE SYSTEM

CUT-TO-LENGTH SYSTEM

PRODUCTIVITY | UPTIME | LOW DAILY OPERATING COSTS

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