



HARVESTERS

1270D Eco III **1470D** Eco III

CUT-TO-LENGTH SYSTEM

HARVESTERS

FORWARDERS



Eco III



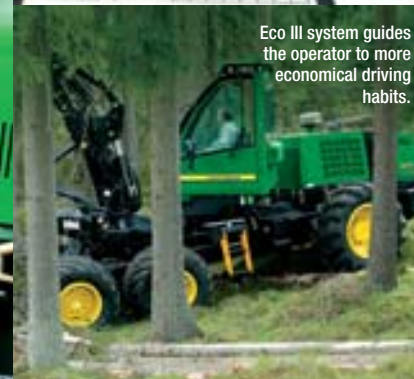


The new PowerTech Plus™ engines of Eco III harvesters meet TIER III regulations.

2005 Diesel of the Year



Automatic lowering of working RPMs conserves fuel and reduces noise.



Eco III system guides the operator to more economical driving habits.

NEW JOHN DEERE 1270D Eco III AND 1470D

1270D and 1470D Eco III – towards better fuel economy.

Good rough-terrain properties. Reliable harvester heads. From thinning to regeneration felling: 1270D Eco III. Extreme conditions and large trees: 1470D Eco III.

Eco III harvesters come with a durable and efficient John Deere engine compliant with the Tier III emissions regulations, and new working rpm automation. The new Eco Pull allows the machine to be driven at the same speed as before yet the diesel engine runs at even lower rpm, therefore saving fuel.

Eco-Pull optimizes engine rpm utilizing the hydrostatic transmission ratio to maintain the desired vehicle speed with lowest possible engine rpm. The Eco-Pull includes both low and fast driving modes. The Eco-Pull provides lower fuel consumption and less engine noise during driving meaning lower daily operating cost.

CUT-TO-LENGTH SYSTEM

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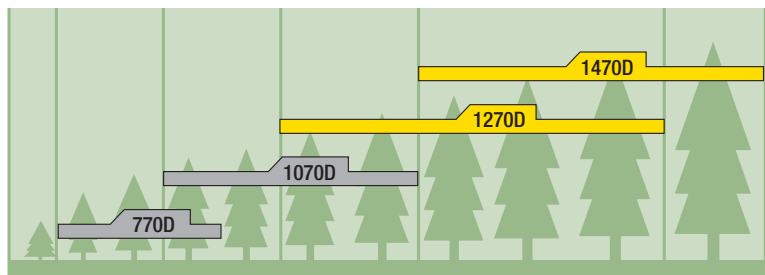


Eco III HARVESTERS

The new John Deere 6090 PowerTech Plus engine meets the strict Tier III emission regulations. The engine offers best-in-class fuel economy with increased performance in the forest machines. Transient response time is better than in previous engine model and the engine reacts quicker to loading. The new engine also provides better durability of the main components in the engine. Some new features, for example 9,0 liters diesel engine, cooled exhaust gas recirculation (EGR) system, variable geometry turbocharger (VGT), 4-valve cylinder head and gallery cooled pistons.

The Eco III working rpm automation drops engine rpm's to idling rpm's automatically, if harvester head or boom operation is discontinued for more than the set period of time. Engine rpm's will automatically increase back to working rpm level when operation continues. This provides lower fuel consumption meaning lower daily operating cost. The parameters can be adjusted easily using Timbermatic 300™.

Applications of the 1270D and 1470D Harvesters



John Deere 1470D is the right choice for applications where a real harvester is required. The powerful engine and strong CH8 boom make the 1470D a reliable, efficient machine even for the most extreme conditions.

The John Deere 1270D harvester has proven its efficiency in both thinning and regeneration felling.

WELL-KNOWN QUALITY. HIGH UPTIME. EASY

HARVESTERS

1270D Eco III 1470D Eco III

The new John Deere 6090 PowerTech Plus engine meets the Tier III emission regulations. Optimized to forest machine use and reacts quickly to loading. It provides good fuel economy and has high torque at low working rpm's. The cooling system for the engine and the hydraulics remains efficient in all conditions.

The cab conforms to safety regulations and provides excellent visibility in all directions. The cab boasts efficient air-conditioning and sound insulation. A CD player / radio is provided. The large windows are made from tinted polycarbonate safety glass and can be equipped with blinds that provide shade from sunlight. The sturdy seat can be adjusted. The cab is also equipped with Halogen/Xenon lights.

The rear axles are sturdy and reliable. The ground clearance is generous. High tractive force ensures necessary drive even in the roughest of terrains.

The engine hood comprises two sections and it is operated by an electrical motor allowing for easy and safe maintenance access. Accessories include, for example, electrical refill pumps for fuel and hydraulic oil and a vacuum pump.

The strong belly pan can be lowered and raised using a winch. A stepladder provides easy and safe access to all service points.

The frame structure and middle joint are of strong composition. The result is a well-balanced unit with a powerful frame brake. The positioning of the middle joint, the steering angle of +/- 42 degrees and the generous ground clearance give the harvester a small turning radius and agile handling.

MAINTENANCE.

1270D Eco III 1470D Eco III

The Windows-based Timbermatic 300™ is efficient and easy to use. The properties of the system have been designed with the latest requirements of forest companies and with machine operators in mind. Eco-Pull and working rpm automation as standard equipment provide better fuel economy.

The harvester is equipped with the strong parallel boom. High slew torque and easy to steer with logical motions. The boom is also easy to maintain. Various different boom reaches available depending on the harvester head in use.

The efficient hydraulic system makes processing wood effortless. The large diameter hydraulic hoses and pipes reduce pressure loss. The high grade filter system lengthens the life of the components.

Reliable and efficient 2 or 4 roller driven harvester heads. Various different feed rollers and motor options are available, as are colour marking and stump treatment options.

The sturdy, balanced bogie axle is designed especially for demanding terrains. The large diameter of the wheels make the machine run effortlessly in difficult terrain and deep snow. Various options for wheels, chains and tracks are available.

Eco III

PRODUCTIVITY. STABILITY. LOW OPERATING COSTS.

John Deere has been developing and manufacturing forest machines for almost 60 years. This experience and expertise is also evident in the design and manufacture of the 1270D Eco III and 1470D Eco III harvesters.



The super-efficient John Deere PowerTech diesel engines comply with emissions regulations. They are durable, have good fuel economy and are optimised for use in forest machines.

The high torque at low rpm makes these machines pleasant and efficient to operate, lowers fuel consumption and noise pollution and lengthens the life of the components. The high torque ensures that harvesting is fast and efficient even in demanding conditions. Long maintenance intervals provide even more economy. The engine oil and filter, for example, now only need to be serviced after every 500 hours, as opposed to the previous 250 hours.

The increased working pressure of 28 MPa and the new, extremely accurate feed control based on the Timbermatic 300™ provide power and speed for delimiting.

The anti-skid system ensures that the harvester head stops in the sawing window with extreme precision. This helps to save time and increases productivity. FlashCut™ – the most intelligent saw control system in the market – has been integrated into the Timbermatic 300™. FlashCut™ controls the feeding of the saw bar, keeping the chain and cutting speed at the optimal level at all times and minimising cracks.

REACH. HANDLING. QUALITY. ACCURACY.

The parallel booms of John Deere harvesters are efficient and effective. They are easy to steer thanks to the minimum-effort control levers and the comprehensive Timbermatic 300™ system. The ability to save operatorspecific settings in the memory of the system speeds up changes between operators as well as the implementation of different operating speeds.

The strongly built parallel booms are positioned on the front frame of the machine parallel to the field of vision of the operator. This allows for smooth and natural controlling of movements in all directions. The boom can be tilted forwards by 25 degrees and backwards by 15 degrees (1470D) or 12 degrees (1270D), either manually or automatically.

The John Deere 1270D harvester booms have four different reach lengths depending on the working conditions and the harvester head in use. The new super-powerful CH8 boom makes the John Deere 1470D especially suited for handling large, heavy trees. The CH8 boom is available with three different reach lengths.

The various harvester head options enable the best possible production in different conditions. The feed rollers and motor of the harvester heads can also be selected from a variety of alternatives. Fast and uninterrupted feeding combined with high cutting and delimiting accuracy ensures high-quality results.



Harvester Heads and Boom Reach

4 roller drive	745	H754	758HD	H480
1270D/210H	8.6/9.3/10/11.8 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in./38 ft. 9 in.)	8.6/9.3/10/11.8 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in./38 ft. 9 in.)	8.6/9.3/10 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in.)	8.6/9.3/10 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in.)
1470D/CH8	-	-	8.6/10/11 m (28 ft. 3 in./32 ft. 10 in./36 ft. 1 in.)	8.6/10/11 m (28 ft. 3 in./32 ft. 10 in./36 ft. 1 in.)
2 roller drive	H752	H270	762C	
1270D/210H	8.6/9.3/10 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in.)	8.6/9.3/10 m (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in.)	8.6/9.3 m (28 ft. 3 in./30 ft. 6 in.)	
1470D/CH8	-	8.6/10/11 m (28 ft. 3 in./32 ft. 10 in./36 ft. 1 in.)	8.6/10/11 m (28 ft. 3 in./32 ft. 10 in./36 ft. 1 in.)	

GOOD VISIBILITY. EVERYTHING TO HAND.

The cabin of the John Deere harvesters is a good place for doing productive work. The large windows allow good visibility of the entire working area, even to the treetops. The firm seat and the ergonomically designed controls provide good working conditions for the operator. The comfort of the working environment is further improved by the sun blinds, efficient air conditioning and heating equipment, as well as the cabin air filter, which keeps the interior air of the cab fresh and clean.



The cabin, which can turn by +/- 50 degrees and tilt in all directions, improves the working conditions even further. The tilt angle is 15 degrees to the front and the sides and 11 degrees backwards. The cabin can be turned and tilted either automatically through the Timbermatic 300™ system or by manual control. When set on automatic control, the turning of the cabin follows the turning of the boom at the speed or angle that the operator has programmed into the system. The tilt function of the cabin works similarly, following the slopes of the terrain. Both the turning and the tilting function can be controlled either individually or in combination.

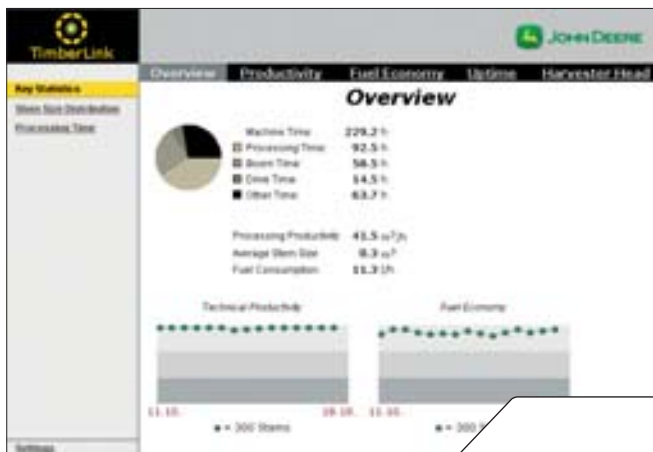


ADVANCED INFORMATION TECHNOLOGY.



In addition to volumes and measurements, the PC-based Timbermatic 300™, which runs on a Windows operating system, collects information on the location of produced timber, which can be sent to the forwarder or the factory in order to optimise transportation. Starting a new site is easy. Map information, as well as site and felling instructions, are transferred directly to the system via a wireless connection.

Thanks to the new stem profile prediction calculation and verification graphics, the measuring and optimisation accuracy of the Timbermatic 300™ is excellent and calibration is effortless. The system records a wide variety of production, location and machine data and it features a wireless data transfer function, a large colour display and several external interfaces.



TimberLink™, which is available for the Timbermatic 300™ as an optional accessory, is a unique system for continuously monitoring the technical performance and condition of your forest machine. An enormous amount of information is gathered on the productivity, fuel economy and performance of the different components of the machine, which is then processed into a usable format with the TimberLink™ system, with no need for additional sensors. TimberLink™ enables the harvester operator and maintenance staff to optimise the configuration of the machine, plan preventive maintenance and speed up troubleshooting.

	1270D	1470D
DIESEL ENGINE		
	John Deere 6090 HTJ, turbocharged, charge air cooled 6 cylinders, displacement 9,0 L	John Deere 6090 HTJ, turbocharged, charge air cooled 6 cylinders, displacement 9,0 L
Power Output [kW] @ [rpm]	160 @ 1400...2000 (215 hp)	180 @ 1200...2000 (241hp)
Torque [Nm] @ [rpm]	1100 @ 1400 (811 lbf)	1250 @ 1400 (922 lbf)
Polttoainesäiliö [l]	480 (127 US gal)	480 (127 US gal)
TRANSMISSION		
	Hydrostatic-mechanical 2-speed Gearbox	Hydrostatic-mechanical 2-speed Gearbox
Speed, mode 1 [km/h]	0 - 8 (0 - 5mph)	0 - 8 (0 - 5 mph)
mode 2 [km/h]	0 - 25 (0 - 15,5 mph)	0 - 22 (0 - 13,7 mph)
Tractive Force [kN]	160 (36000 lbf)	180 (40500 lbf)
STEERING		
	Proportional Frame Steering, Mini joy-stick	Proportional Frame Steering, Mini joy-stick
Steering Angle ±°	42	42
BRAKES		
	Service and working brakes are hydraulically actuated, oil-immersed multi-disc brakes. Spring-actuated parking and emergency brakes. ISO 11169. Frame Oscillation Brake, Automatic	Service and working brakes are hydraulically actuated, oil-immersed multi-disc brakes. Spring-actuated parking and emergency brakes. ISO 11169. Frame Oscillation Brake, Automatic
AXLES/BOGIE		
	Hydromechanical differential lock at the front and the rear Balanced gear bogie axles	Hydromechanical differential lock at the front and the rear Balanced gear bogie axles
Front Axle		
Rear Axle	Rigid axles	Rigid axles
ELECTRICAL SYSTEM		
Voltage	24 V	24 V
Batteries	2 x 140 Ah	2 x 140 Ah
Alternator	140 A	140 A
Working Lights	14 Twin Power and 4 single lamps on the boom, 30 lux in the working area of the boom Xenon lights also available	14 Twin Power and 4 single lamps on the boom, 30 lux in the working area of the boom Xenon lights also available
WORKING HYDRAULICS		
	Load-sensing, pressure compensated	Load-sensing, pressure compensated
Pump Volume [cm ³]	190 (11,6 cu in)	210 (12,8 cu in)
Working Pressure [MPa]	24/28 (3480/4060 psi)	24/28 (3480/4060 psi)
Hydraulic Tank [l]	300 (79 US gal)	300 (79 US gal)
BOOM		
	210H	CH8
Maximum Reach Lengths [m]	8.6/9.3/10/11.8 (28 ft. 3 in./30 ft. 6 in./32 ft. 10 in./38 ft. 9 in.)	8.6/10/11 (28 ft. 3 in./32 ft. 10 in./36 ft. 1 in.)
Gross Lifting Torque [kNm]	178 (131000 lbf)	210 (155000 lbf)
Slewing Torque [kNm]	43.6 (32100 lbf)	55 (40600 lbf)
Tilt Angle forward/backward [°]	+25/-13	+25/-13
Slewing Angle [°]	220	220
CAB		
	Safe and in conformity with ISO standards. Standard: Fixed Cab Option: Rotating and Levelling Cab	Safe and in conformity with ISO standards. Standard: Fixed Cab Option: Rotating and Levelling Cab
Sideways Tilt [°]	+/- 15	+/- 15
Forward/Backward Tilt [°]	+/- 11	+/- 11
Turning Angle [°]	+/- 50	+/- 50

MEASURING AND CONTROL SYSTEM

1270D

1470D

PC/Windows-based
Timbermatic 300™

PC/Windows-based
Timbermatic 300™

HARVESTER HEADS

745, H752, H754, 758HD,
762C, H270, H480

758HD, 762C,
H270, H480

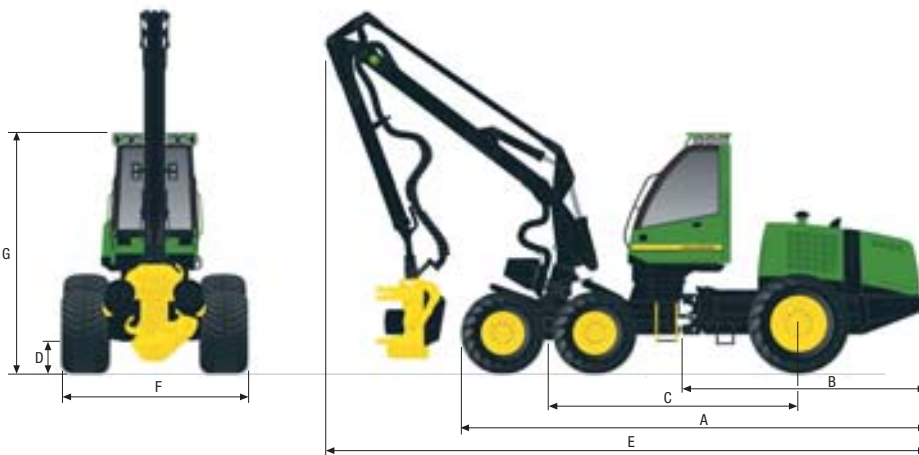
MEASUREMENTS [mm] *

A Length	7580 (24 ft. 10 in.)	7715 (25 ft. 4 in.)
B Rear Section	3900 (12 ft. 10 in.)	3900 (12 ft. 10 in.)
C Wheelbase	4050 (13 ft. 3 in.)	4050 (13 ft. 3 in.)
D Ground Clearance	625 (24.6 in.)	710 (27.9 in.)
E Estimated Transportation Length	11600 (38 ft. 0 in.)	11850 / 12180 (39 ft. 11 in.)
F Width, Front		
- 600 Tyres	2680/2860 (8 ft. 9 in. / 9 ft. 5 in.)	-
- 650 Tyres	-	3000 (9 ft. 10 in.)
- 700 Tyres	2766 - 2956 (9 ft. 1 in. / 9 ft. 8 in.)	-
- 750 Tyres	-	3050 (10 ft. 0 in.)
Width, Rear		
- 600 Tyres	2680/2860 (8 ft. 9 in. / 9 ft. 5 in.)	-
- 700 Tyres	2860 (9 ft. 5 in.)	2960 (9 ft. 8 in.)
G Height		
- Fixed Cab	3700 (12 ft. 2 in.)	3800 (12 ft. 6 in.)
- Levelling Cab	3850 (12 ft. 8 in.)	3950 (13 ft. 0 in.)
Minimum Transportation Height, Turning/Tilting Cab	3740 (12 ft. 3 in.)	3850 (12 ft. 8 in.)

* Note! The measurements are nominal and may vary depending on the manufacturing tolerances.

WEIGHT [kg]

Depending on Accessories	17500 (38600 lb)	19700 (43400 lb)
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The manufacturer reserves the right to make changes or add improvements at any time without incurring any obligation to make such changes on machines manufactured previously.

Standard equipment

Timbermatic 300™ control- and measuring system
Fixed Cabin
Air Cushioned Seat
Halogen Working Lights

Optional equipment

Various tire options
Liquid fill for tires
Spare wheel
Chains, tracks
Leveling and turning cabin
Reversing camera
Various operator seats
CD-changer
Xenon working lights
Thinning lights
Sun blinds
Washers and wipers for side and rear windows
Preheater for cabin, engine and hydraulic oil tank
Engine air-intake pre filter
Refill pump for fuel
Refill pump for hydraulic oil
Vacuum pump for hydraulics
Hydraulic oil off-line fine filter
Bio hydraulic oils
Automatic fire extinguisher
Electronic calipers
Memory card
Various boom reaches
Boom damping
Various rotators
Various harvester heads
Various feed motors
Various feed rollers
Colour marking system
Stump treatment device
Multi tree handling
Automatic boom leveling
FlashCut™ saw control system
TimberLink™ condition monitoring system
GPS-equipment and -program
Storage boxes
Tool kits
Environmental kit

Note! Standard and optional equipment may vary. For information contact your local dealer.

HARVESTERS

1270D Eco III 1470D 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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