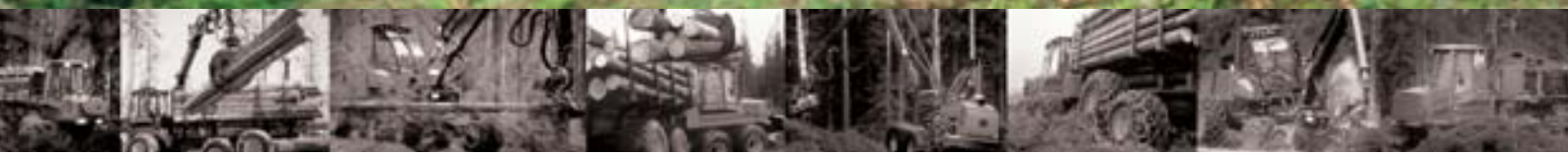
HARVESTERS

1270D 1470D

CUT-TO-LENGTH SYSTEM | HARVESTERS | FORWARDERS



JOHN DEERE

JOHN DEERE TAKES HARVESTERS TO NEW

GOOD ROUGH-TERRAIN PROPERTIES. RELIABLE HARVESTER HEADS. FROM THINNING TO REGENERATION FELLING: 1270D. EXTREME CONDITIONS AND LARGE TREES: 1470D.

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

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.

Thanks to the powerful John Deere engine, the hydrostatic drive transmission and the uniquely balanced bogie unit, the harvester moves effortlessly in any kind of terrain. The stability of the harvester and the efficient frame brake make processing wood smooth and safe.

CUT-TO-LENGTH SYSTEM

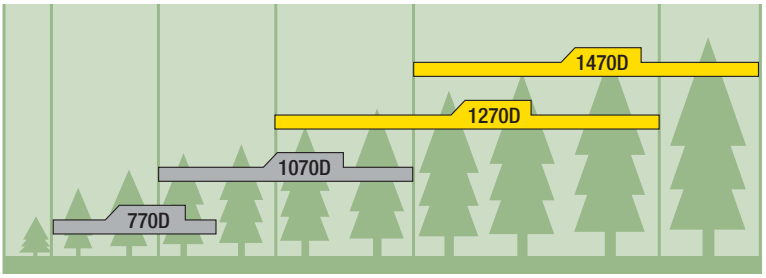
HARVESTERS	FORWARDERS

DIMENSIONS

The fast and accurate parallel booms and the advanced Timbermatic 300 system add the finishing touches to the composition. The ergonomic controls, good visibility in all directions and powerful lights facilitate the operator's work.

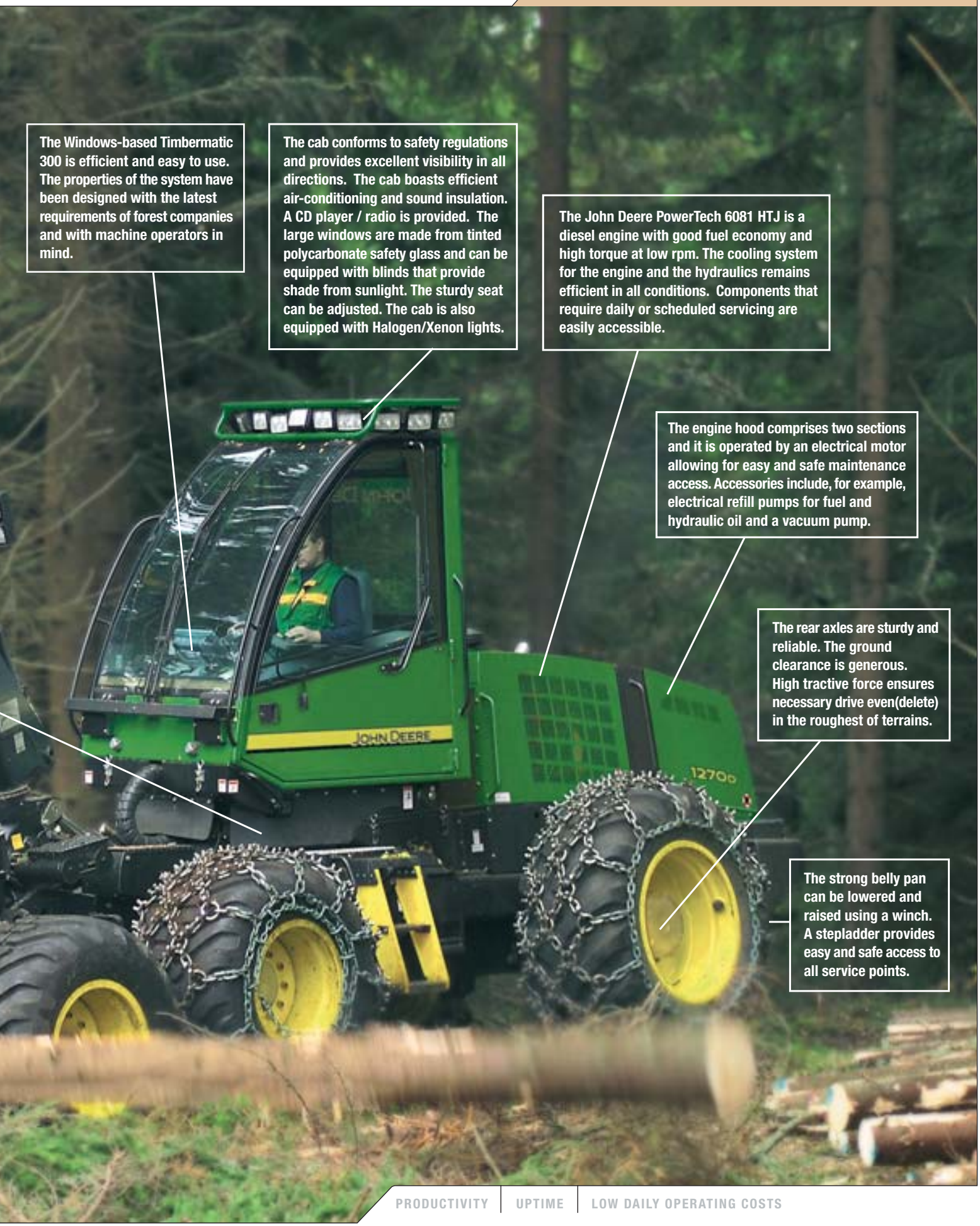
The John Deere range of harvester heads includes an optimal head for all harvester applications. The 1270D and 1470D comprise the same basic components as all other John Deere forest machines.

Applications of the 1270D and 1470D Harvesters



WELL-KNOWN QUALITY. HIGH UPTIME. EASY

MAINTENANCE.



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.

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 John Deere PowerTech 6081 HTJ is a diesel engine with good fuel economy and high torque at low rpm. The cooling system for the engine and the hydraulics remains efficient in all conditions. Components that require daily or scheduled servicing are easily accessible.

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

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

LOW OPERATING COSTS. PRODUCTIVITY.

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 and 1470D harvesters.

Highly efficient, electrically controlled common-rail fuel-injected John Deere engines achieve high torques of 1,100 Nm (1270D) and 1,250 Nm (1470D) at very low rpm. This leads to lower fuel consumption and a lengthened life for the components.
The high torque output provides power and speed for harvesting, even under the most demanding conditions.

Long service intervals increase the economy of the machine. For example, the service intervals of engine oil and filter have been extended from 250 hours to as many as 500 hours.

STABILITY. POWER.

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

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.

GOOD VISIBILITY.
EVERYTHING TO HAND.

The cab 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 cabs of the harvesters have plenty of room for storing the take-away lunch box, for example.

The cab, 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 cab 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 cab follows the turning of the boom at the speed or angle that the operator has programmed into the system. The tilt function of the cab 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.

The Timbermatic 300 features a versatile fault diagnostics function and the system issues reminders of scheduled maintenance services. The reports can be printed out as A4 size sheets.

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 operator-specific 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 13 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 delimbing accuracy ensures high-quality results.

Boom Reach and Harvester Heads

4 roller drive	745	H754	758HD	H480
1270D/210H	8.3/9.0/9.7/11.5 m	8.3/9.0/9.7/11.5 m	8.3/9.0/9.7 m	8.3/9.0/9.7 m
1470D/CH8	-	-	8.3/9.7/10.7 m	8.3/9.7/10.7 m

2 roller drive	H752	H270	762C	
1270D/210H	8.3/9.0/9.7 m	8.3/9.0/9.7 m	8.3/9.0 m	
1470D/CH8	-	8.3/9.7/10.7 m	8.3/9.7/10.7 m	

STURDY QUALITY. POWER. HIGH UPTIME.

The harvester is equipped with the strongest parallel boom of its class. The parallel boom has a high slew torque and it is easy to steer and has logical motion. The boom is also easy to maintain. Three different boom reach lengths are 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.

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.

The harvester is available equipped with the four largest and most 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 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.

EASY MAINTENANCE.

The cab conforms to safety regulations and provides excellent visibility to 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 it can be equipped with blinds that provide shade from sunlight. The sturdy seat can be adjusted. The cab is equipped with Halogen/Xenon lights.

The John Deere PowerTech 6081 HTJ is the most powerful diesel engine used in harvesters. It has good fuel economy and reaches a top torque at low rpm. The cooling system for the engine and the hydraulics remains efficient in all conditions.

The Windows-based Timbermatic 300 information system 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.

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, a diesel heater, electrical refill pumps for fuel and hydraulic oil and a vacuum pump.

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

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

TECHNICAL DATA 1270D 1470D

	1270D	1470D
DIESEL ENGINE	John Deere 6081HTJ	
Volume Power Output [kW] @ [rpm]	160 @ 1,400 – 2,000	180 @ 1,200 – 2,000
Torque [Nm] @ [rpm]	1,100 @ 1,400	1,250 @ 1,400
Fuel Tank [l]	480	480
TRANSMISSION	Hydrostatic-mechanical 2-speed Gearbox	
Speed, mode 1 [km/h]	0 - 8	0 - 8
mode 2 [km/h]	0 - 25	0 - 22
Tractive Force [kN]	160	180
STEERING	Proportional Frame Steering	
Steering Angle ±°	42	
BRAKES	Service and working brakes are hydraulically actuated, oil-immersed multi-disc brakes. Spring-actuated parking and emergency brakes. ISO 11169.	
AXLES/BOGIE	Hydromechanical differential lock at the front and the rear	
Front	Balanced gear bogie axles	
Rear	Rigid axles	
ELECTRICAL SYSTEM		
Voltage	24V	
Batteries	2 x 140 Ah	
Alternator	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	
HYDRAULICS	Load-sensing, pressure compensated	
Pump Volume [cm^3]	190	210
Working Pressure [Mpa]	24/28	24/28
Hydraulic Tank [l]	220	220
BOOM	210H	CH8
Maximum Reach Lengths [m]	8.3 / 9.0 / 9.7 / 11.5	8.3 / 9.7 / 10.7
Gross Lifting Torque [kNm]	178	210
Slewing Torque [kNm]	43.6	55
Tilt Angle [°]	-13 / +25°	-15 / +25°
Slewing Angle [°]	220	220
CAB	Safe and in conformity with ISO standards. Standard: Fixed Cab Option: Rotating and Levelling Cab	
Sideways Tilt	15	
Forward/Backward Tilt	11	
Turning Angle	50	

	1270D	1470D
MEASURING AND CONTROL SYSTEM	PC/Windows-based Timbermatic 300	
Harvester Heads	745, H752, H754, 758HD, 762C, H270, H480	758HD, 762C, H270, H480
OPTIONAL EQUIPMENT	For details, please contact your local dealer.	

MEASUREMENTS [mm] *

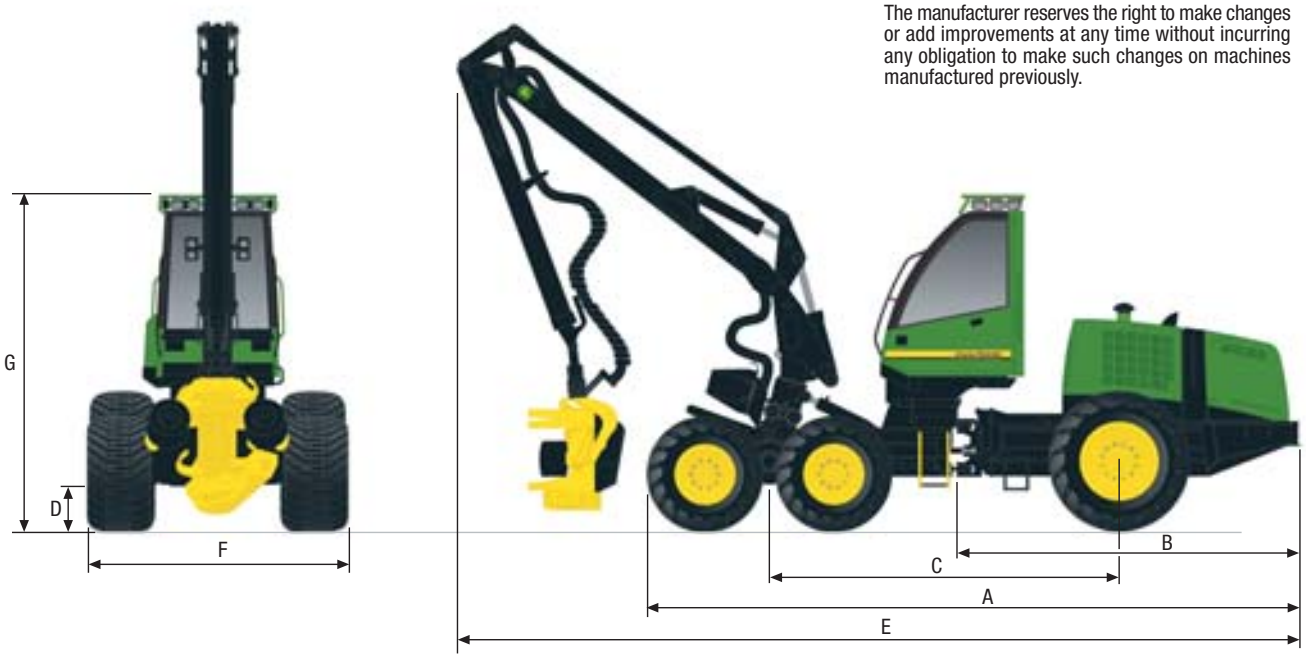
A Length	7,580	7,715
B Rear Section	3,900	3,900
C Wheelbase	4,050	4,050
D Ground Clearance	625	710
E Estimated Transportation Length	11,600	11,850 / 12,180
F Width, Front		
- 600 Tyres	2,680/2,860	-
- 650 Tyres	-	3,000
- 700 Tyres	2,766 – 2,956	-
- 750 Tyres	-	3,050
Width, Rear		
- 600 Tyres	2,680/2,860	-
- 700 Tyres	2,860	2,960
G Height - Fixed Cab	3,700	3,800
- Levelling Cab	3,850	3,950
Minimum Transportation Height, Turning/Tilting Cab	3,740	3,850

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

WEIGHT [kg]

Depending on Accessories	17,500	19,700

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.



HARVESTERS

1270D 1470D

NOTHING RUNS LIKE A DEERE.

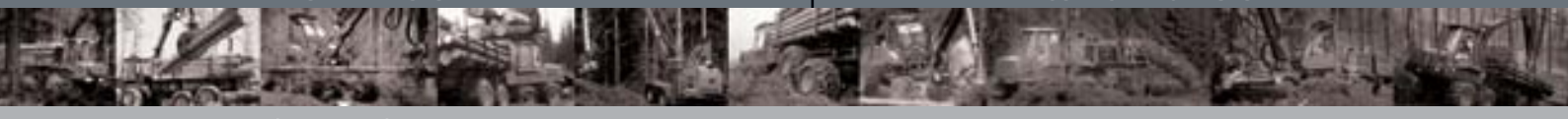
MAYBE THOSE WORDS ARE THE REASON WHY ALMOST EVERY OTHER PROFESSIONAL LOGGER IS A JOHN DEERE CUSTOMER.

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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