HARVESTERS

JOHN DEERE

THE BEST SOLUTION COMES FROM PARTNERING

John Deere forest machines are designed and tested in long-term cooperation with forest machine entrepreneurs and forest machine operators.

The aim is to create the best solution for the customer's needs, a solution that combines top productivity and ease of use and the lowest possible load on the environment. Operator wellbeing, machine fuel efficiency and innovations that lead to environmentally friendly working practices are our priorities for continuous development.

In the new H-Series harvesters, the most important features of the machines have been taken to the highest level. The result is a new-generation forest machine that combines superior productivity with excellent operator experience and easy maintenance.

> IN THE NEW H-SERIES MACHINES HIGH PRODUCTIVITY, GOOD USABILITY, AND ENVIRONMENT RESPECTING SOLUTIONS ARE COMBINED.

A WORKPLACE TO ENJOY

The most valuable component of a forest machine is the operator feeling well. The cabins of John Deere forest machines are designed to provide the most advanced working environment in the industry. The rotating and leveling cabin not only improves working efficiency but also operator ergonomics and resilience at work. Visibility to the work area is unobstructed and the surroundings are easy to observe.

H series forest machines have taken operator comfort to a whole new level. The new design of the machine ensures excellent visibility and reduces vibration and noise experienced by the operator. The new and intuitive TimberMatic™ H control system helps the operator to concentrate on every phase of the work and provides advanced tools to improve the quality and efficiency of the work.

> THE ERGONOMIC JOHN DEERE CABIN ENSURES THAT YOU STAY ENERGIZED AFTER A LONG DAY'S WORK.

SUSTAINABLE AND PROFITABLE LOGGING

A new forest machine is an investment in a sustainable and profitable business. A production system in which the harvester, forwarder and digital solutions work seamlessly together ensures the best productivity.

TimberManager is the forest machine contractor's view to the progress of the logging site. Accurate data enables high-quality planning of the work and facilitates management of machine chains.

Our fuel-efficient forest machines and innovations that lead to nature-conserving choices reduce the environmental footprint caused by machine use. Using renewable diesel makes it possible to reduce carbon dioxide emissions during use by up to 90 %*. Our durable forest machines and comprehensive service contracts guarantee a long service life. The materials we use in our machines are up to 95% recyclable.

*(75-90 %, regional variations)

Fuel consumption accounts for up to 90 % of a life-cycle carbon footprint of forest machines, so improving fuel efficiency is one of our most important development goals. The 1270G harvester consumes 16% less fuel than the previous model series, and we managed to squeeze an extra 5 % out of the H-Series (1270H vs 1270G).

AN OPERATOR'S BEST WORKMATES

Innovation is at the heart of our design. We are constantly developing new tools to make the operator's day easier and guide them towards economical, safe, productive and environmentally respectful ways of working.

A rotating and leveling cabin follows the movements of the boom, providing an unobstructed view to the work area.

IBC technology streamlines boom handling and improves productivity. IBC is standard on the new H-Series harvesters.

Intelligent Harvester Head Control IHC optimizes the harvester head compression force, improving delimbing quality.

Active Frame Lock optimizes driving stability.

The all-new, intuitive automation of the **TimberMatic**™ H adapts to the operator's needs and improves work productivity. **The Intelligent Cabin Key** acts as a user identifier to activate the control system with user-specific settings.

TimberMatic™ Maps supports work planning and real-time monitoring as well as environmentally friendly work. In H-Series machines, Maps is integrated into the TimberMatic H control system.

A RELIABLE, HIGH-PERFORMANCE PACKAGE

STRONG AND EASY-TO-CONTROL BOOMS

The new H-Series booms have an increased tilt angle and extended range of motion, with about 10% more lifting forcethan their predecessors.

IBC STREAMLINES BOOM HANDLING

Intelligent Boom Control is standard on H-Series harvesters.

POWERFUL AND PRODUCTIVE HARVESTER HEADS

NEW: H216 and H616C Series III (1470H/G)

EXCELLENT VISIBILITY

The new, narrower design of the boom, longitudinal boom slew cylinders and more effective lighting improve visibility to the working area and terrain.

The rotating and leveling cabin also ensures excellent visibility. H-Series machines have an even greater rotating angle of 220 degrees.

COMFORTABLE AND SILENT CABIN

The new air-conditioning system always ensures the right temperature.

Smart material choices and the placement of the cooling fan behind the engine make the cab pleasantly quiet.

Mounting the cabin and boom on separate frame sections reduces vibration and stress on the operator.

Clear and intuitive TimberMatic™ control system facilitates working.

New joystics with buttons and handpanels that allow the operator to program the desired functions.

TOP CLASS PERFORMANCE FOR FOREST WORK

The John Deere Power Tech engine, designed for harvester application, produces high power and high torque over a wide and low RPM range.

Best load response on the market.

EASY DAILY MAINTENANCE

thanks to centralized service points and easily accessible refill points.

SEVERAL PRACTICAL STORAGE COMPARTMENTS

STABLE LOGGING

Cylinder Frame Lock for stable working in all conditions. **Active Frame Lock** (optional) optimizes stability while driving.

POWERFUL HYDRAULICS

The 1270H and 1470H have two working pumps that provide high hydraulic power for the various functions of the machine. The driveline of the H-Series with a separate drive pump and advanced adaptive control produces about 10% increased tractive effort and power.

1470H
THE MOST EFFICIENT HARVESTER FOR BIG TIMBER

+ Improved performance thanks to the new hydraulic system.
+ H9 boom with high lift and slew force.
+ IBC as standard.
+ Easy daily maintenance and long service intervals.
+ Wide range of harvester heads for regeneration harvesting.
+ A completely new TimberMatic™ H control system

1270H
PERFORMANCE FOR ALL LOGGING SITES

+ Improved performance thanks to the new hydraulic system.
+ 6-wheeled, large size class, agile all-purpose machine.
+ 8-wheeled for rocky, steep slopes and soft ground.
+ New, stronger H7 boom.
+ IBC as standard.
+ Easy daily maintenance and long service intervals.
+ Wide range of high-performance harvester heads.
+ A completely new TimberMatic™ H control system

1170G
FROM THINNING TO REGENERATION HARVESTING AND SOFT TERRAIN

+ 6-wheeled for thinning and regeneration harvesting with 34"/24.5" or 34"/26.5" tires
+ 8-wheeled with 24.5" tires for soft terrain and steep slopes
+ High-performance harvester heads
+ Excellent measuring accuracy
+ Rear frame design: excellent visibility
+ Agile, robust and far-reaching CH6 boom (10 m–11.3 m)
+ TimberMatic Maps
+ Intelligent Boom Control (IBC) (optional)

1070G
AN AGILE THINNING MACHINE

+ Ideal for thinning
+ 4-wheeled with 34" or 26.5" tires and 6-wheeled with 26.5" rear and 22.5" front tires
+ High-performance harvester heads
+ Excellent measuring accuracy
+ Rear frame design: excellent visibility
+ Agile, far-reaching and narrow JD180S boom (8.6 m–10.6 m)
+ Good visibility to the job site
+ TimberMatic Maps
+ Intelligent Boom Control (IBC) (optional)

PRODUCT INFORMATION

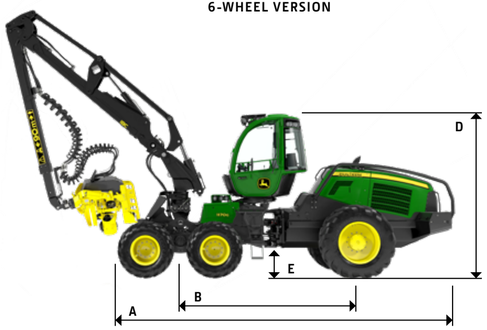
	1470H 6-WHEELED	1270H 8-WHEELED	1270H 6-WHEELED	1170G 8-WHEELED	1170G 6-WHEELED	1070G 6-WHEELED	1070G 4-WHEELED
HARVESTER HEAD	H425, H425HD, HTH616 series III , H216, H219 or H225E	H424, H425, H425HD, H216 or H225E	H424, H425, H425HD, H216 or H225E	H212, H423 or H424	H212, H423 or H424	H212, H423 or H424	H212, H423 or H424
ENGINE	John Deere 6090	John Deere 6090	John Deere 6090	John Deere 6068	John Deere 6068	John Deere 6068	John Deere 6068
Cylinder count	6	6	6	6	6	6	6
Displacement	9 l	9 l	9 l	6.8 l	6.8 l	6.8 l	6.8 l
Power	220 kW @ 2000 rpm	220 kW @ 2000 rpm	220 kW @ 2000 rpm	155 kW @ 1 600–2 000 rpm	155 kW @ 1 600–2 000 rpm	136 kW @ 1 600–2 000 rpm	136 kW @ 1 600–2 000 rpm
Torque	1445 Nm @ 1300–1400 rpm	1445 Nm @ 1300–1400 rpm	1445 Nm @ 1300–1400 rpm	978 Nm @ 1 200–1 500 rpm	978 Nm @ 1 200–1 500 rpm	850 Nm @ 1 400–1 500 rpm	850 Nm @ 1 400–1 500 rpm
BOOM	H9	H7	H7	CH6	CH6	JD180S	JD180S
Gross lifting torque	241 kNm	217 kNm	217 kNm	165 kNm	165 kNm	143 kNm	143 kNm
Slewing torque	62 kNm	55 kNm	55 kNm	45 kNm	45 kNm	38 kNm	38 kNm
Slewing angle	220 °	220 °	220 °	220 °	220 °	220 °	220 °
Max. reach m incl. h.head	8.6 / 10 / 11 m	8.6 / 10 / 11.7 m	8.6 / 10 / 11.7 m	10 / 11.3 m	10 / 11.3 m	8.6 / 10 / 10.8 m	8.6 / 10 / 10.8 m
Tilt angle, front/back	25 / 18 °	28 / 20 °	28 / 20 °	28 / 14 °	28 / 14 °	28 / 14 °	28 / 14 °
HYDRAULICS							
Oil flow @ 1700 rpm	669 l/min	669 l/min	669 l/min	323 l/min	323 l/min	272 l/min	272 l/min
Working pressure	24/35 Mpa	24/35 Mpa	24/35 Mpa	24–28 Mpa	24–28 Mpa	24–28 Mpa	24–28 Mpa
Hydraulic oil tank	302 l	302 l	302 l	160 L	160 L	160 L	160 L
Tractive force	210 kN	220 kN	190 kN	160 kN	150 kN	130 kN	130 kN
TIRES							
Front	650 or 750 * 26.5"	600 tai 710 * 26.5"	600 tai 710 * 26.5"	650 tai 710 * 24.5"	600–710 * 24.5" tai 26.5"	600–710 * 22.5"	600–710 * 34" tai 26.5"
Rear	650 tai 750 * 34"	600 tai 710 * 26.5"	600 tai 710 * 34"	650 tai 710 * 24.5"	600–710 * 34"	600–710 * 34"	600–710 * 34" tai 26.5"
FILL VOLUMES							
Fuel tank (gross)	467 l	467 l	467 l	300 l	300 l	300 l	300 l
DEF-liguid tank (gross)	25 l	25 l	25 l	16 l	16 l	16 l	16 l
OTHER							
Steering angle	±44 °	±44 °	±44 °	±44 °	±44 °	±44 °	±44 °
Batteries Ah	2 x 174 Ah	2 x 174 Ah	2 x 174 Ah	2 x 145 Ah	2 x 145 Ah	2 x 145 Ah	2 x 145 Ah

* Includes harvester head

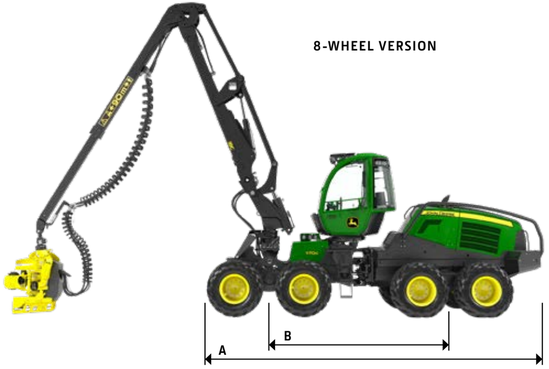
TECHNICAL DATA

REAR VIEW

6-WHEEL VERSION



8-WHEEL VERSION



	1470H 6-WHEELED	1270H 8-WHEELED	1270H 6-WHEELED	1170G 8-WHEELED	1170G 6-WHEELED	1070G 6-WHEELED	1070G 4-WHEELED
DIMENSIONS							
Length [A]	8.15 m	8.10 m	7.90 m	7.45 m	7.25 m	7.00 m	6.70 m
Wheelbase [B]	4.40 m	4.45 m	4.25 m	3.95 m	3.85 m	3.70 m	3.70 m
Width min. [C]	3.00 m	2.75 m	2.75 m	2.80 m	2.65 m	2.65 m	2.60 m
Outer turning radius	7.00 m	7.10 m	6.85 m	6.50 m	6.35 m	6.0 m	5.80 m
Transport height [D]	3.95 m	3.90 m	3.90 m	3.75–3.95 m	3.75 m	3.75 m	3.70 m
Transport length	12.00 m	12.10 m	11.90 m	11.80–12.10 m	11.85 mm	11.45 m	11.45 m
Ground clearance. middle joint [E]	0.80 m	0.70 m	0.70 m	0.6 m	0.6 m	0.55 m	0.55 m
Weight from tn. (harvester head)	24.3 tn (H425)	24.2 tn (H424)	22.2 tn (H424)	19.5tn (H423)	17.8 tn (H423)	16.0 tn (H212)	15.2 tn (H212)

Please note: Measurements are given with 0,05 m accuracy. They are guidelines only and may vary depending on production tolerances.

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