HARVESTERS

JOHN DEERE

THE WHOLE PACKAGE
MAKES THE DIFFERENCE

The solutions developed by John Deere bring to the market the new, advanced technology that helps forest machine contractors and operators achieve more productive, efficient and sustainable logging.

The design is always based on a reliable and high-performance package of components and features. For example, John Deere -engines are designed to operate seamlessly with the hydraulics and automation. For the customer, this means smooth functioning of the boom, driveline and harvester head.

Long-term co-operation with customers supports also our future product development work. Our comprehensive testing process ensures high-quality, refined forest machines for our customers.

> JOHN DEERE'S SMART LOGGING SOLUTIONS ARE DESIGNED
> **TO SUPPORT THE CUSTOMER'S BUSINESS.**

ERGONOMIC
WORKING ENVIRONMENT

The cabins of John Deere -forest machines are the undisputable frontrunners in the sector. Rotating and leveling cabins boost work efficiency and productivity and improve ergonomics.

Visibility from the cabin is excellent in all directions. It has automatic boom follow-through, and the adjustability and operation of the cabin's boom tracking guarantee unobstructed visibility to the work area. The quietness, the easy access to the cabin and the good lighting around the machine and to the operating area improve operator comfort and productivity.

The cabin is mounted on a separate frame section, effectively reducing jolts experienced by the operator when handling stems. The cabin and boom are on a separate slewing ring, so the stress on the operator from turning the boom is remarkably minimal.

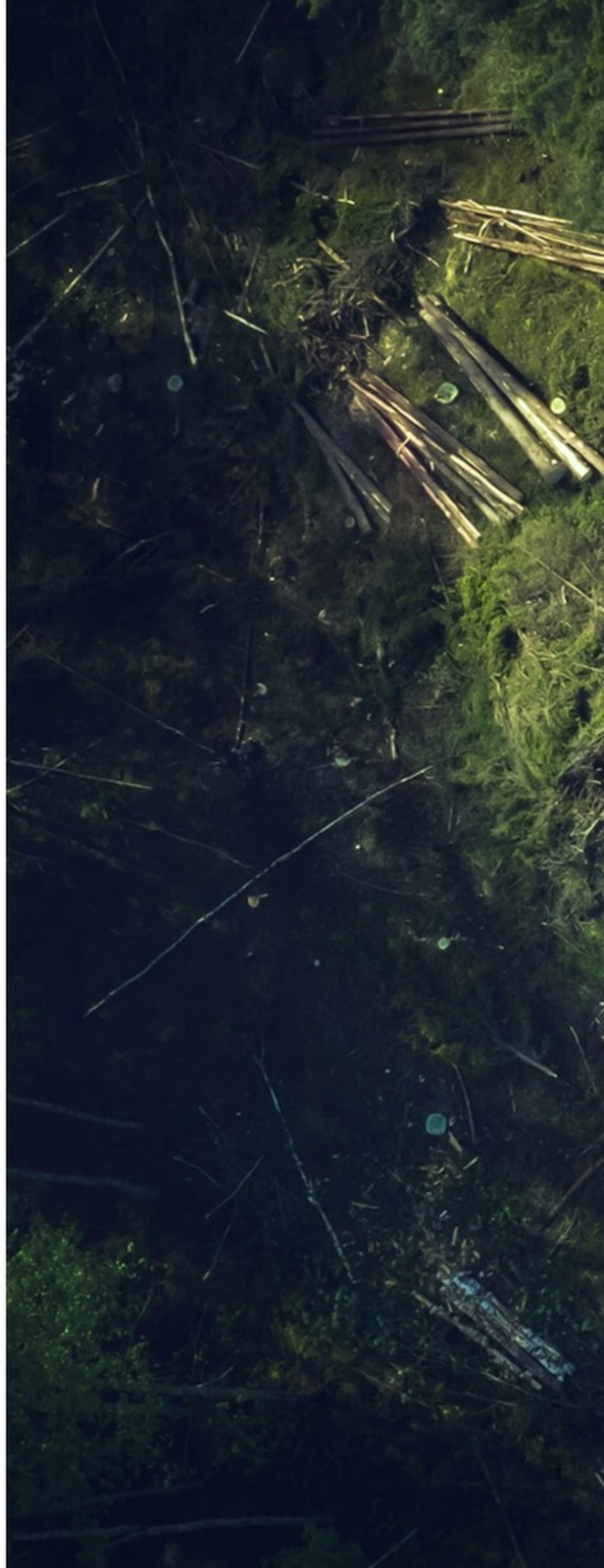
IBC – INTELLIGENT BOOM CONTROL

With IBC, boom control is precise, fast and easy. The operator can focus on steering the boom tip rather than controlling individual boom joints.

In the harvester, IBC has been adapted to the work cycle; the trajectory and functioning of the boom automatically adjust to the harvester's work phases. The operator steers the harvester head to the desired direction. Sensors detect the location of the head and the system automatically adjusts the trajectory of the boom and extension. The smart end damping of the boom movements increases reliability and operator comfort.

IBC increases work productivity and guides safe working practices. IBC's intelligent technology enables the continuous development of new features to facilitate the operator's work.

IBC is available for all John Deere harvesters.



IBC 3.0

Harvester head over-rotation prevention protects against hose damage. Feeding and sawing assistants guide the operator to the right working methods.

EFFICIENCY WITH AUTOMATION, SOFTWARE AND LONG SERVICE INTERVALS

The configurable **TimberMatic™** control system ensures excellent control and usability. The clearly structured CAN bus is reliable and provides excellent fault diagnostics.

TimberMatic™ Maps shows in real-time the volume and location of felled timber at the logging site and landing areas, the strip roads and the logging site boundaries. Special characteristics of the logging sites can be easily marked and are visible to everyone using the system. TimberMatic Maps is standard in all machines.

TimberManager is the machine contractor's real-time view to the logging site data. TimberManager displays the progress of the site in cubic meters and percentages. Precise information about the volume of timber in the landing area makes it easier to plan transportation and improves the functionality of the whole delivery chain.
The TimberManager cloud service can be used with a mobile device or a PC.

TimberCare™ service agreements enable longer service intervals and more uptime. The content of the agreement can be modified locally based on the customer's needs. A service agreement helps to keep daily operating costs low.

TimberMatic Maps

application reduces unnecessary driving.

A RELIABLE, HIGH-PERFORMANCE PACKAGE

CABIN

ROTATING AND LEVELING

+ Ergonomic
+ Quiet
+ Excellent visibility
+ Optically superior windows with scratch- and chemical-resistant coating
+ Automatic, adjustable boom follow-through
+ Excellent lighting around the machine and at the job site

BOOM

+ Reliable
+ Easy to use
+ Several reach options

IBC INTELLIGENT BOOM CONTROL

+ Technology pioneer
+ Easy, precise and fast
+ Handling adapts to work phases
+ Improves operator comfort
+ Easy for new operators to learn
+ High productivity

CONTROL AND ELECTRICAL SYSTEM

TIMBERMATIC™ CONTROL SYSTEM

+ Responsible for control of the whole base machine
+ Easy to use and visual
+ Easy troubleshooting

TIMBERMATIC™ MAPS

+ Precise location of stems at the logging site
+ Logging site boundaries, landing areas and special condition information
+ Facilitates work planning and execution

ELECTRICAL SYSTEM

+ High-capacity John Deere control modules
+ Straightforward cabling and high-quality connectors
+ Low number of connectors and fuses
+ Reliable

BASIC STRUCTURE

FRAME STRUCTURE

+ Durable
+ Agile
+ Boom and cabin on different frame sections and pivot points
+ Excellent weight distribution
+ Multiple width options
+ Short rear overhang
+ Well suited for steep slopes

ENGINES

+ John Deere Power Systems -engine designed for harvester use
+ Low fuel and DEF consumption per produced cubic meter of wood
+ Wide range of peak torque
+ High peak torque
+ Excellent load response
+ Superior practical performance

TRANSMISSION

CORRECTLY DIMENSIONED DRIVE HYDRAULICS

CAREFULLY SELECTED HIGH-QUALITY COMPONENTS

ADVANCED TRANSMISSION CONTROL

+ Pleasant handling without sacrificing tractive force
+ Excellent durability
+ High uptime

ROBUST, CORRECTLY DIMENSIONED MECHANICAL

+ Balanced portal bogies
+ Maintenance-free cardan shafts
+ HD axles with hub-drives (1270G and 1470G)

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)

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)

1270G

FROM LATE THINNING TO REGENERATION FELLINGS OF BIG TIMBER

+ Efficient, versatile and productive
+ Agile, robust and far-reaching CH7 boom (8.6 m–11.7 m)
+ High-performance harvester heads
+ Excellent measuring accuracy
+ High tractive force
+ 6-wheeled, large-sized, agile general-purpose machine
+ 8-wheeled for rocky terrain, steep slopes, and soft terrain
+ TimberMatic Maps
+ Intelligent Boom Control (IBC) (optional)
+ Twin-pump hydraulic system and Processing Power Control (PPC)

1470G
FOR BIG TIMBER

+ Versatile and reliable machine for big timber
+ Efficient and productive
+ High-performance harvester heads
+ Excellent measuring accuracy
+ Strong CH9 boom (8.6 m–11 m)
+ TimberMatic Maps
+ Intelligent Boom Control (IBC) (optional)
+ Twin-pump hydraulic system and Processing Power Control (PPC)

PRODUCT INFORMATION

	1070G 4-WHEELED	1070G 6-WHEELED	1170G 6-WHEELED
HARVESTER HEAD	H212, H423 or H424	H212, H423 or H424	H212, H423 or H424
ENGINE	John Deere 6068	John Deere 6068	John Deere 6068
Cylinder count	6	6	6
Displacement	6.8 l	6.8 l	6.8 l
Power	136 kW @ 1600–2000 rpm	136 kW @ 1600–2000 rpm	155 kW @ 1600–2000 rpm
Torque	850 Nm @ 1400–1500 rpm	850 Nm @ 1400–1500 rpm	978 Nm @ 1200–1500 rpm
BOOM	JD180S	JD180S	CH6
Gross lifting torque	143 kNm	143 kNm	165 kNm
Slewing torque	38 kNm	38 kNm	45 kNm
Slewing angle	220 °	220 °	220 °
Max. reach m incl. h.head	8.6 / 10 / 10.8 m	8.6 / 10 / 10.8 m	10 / 11.3 m
Tilt angle, front/back	28 / 14 °	28 / 14 °	28 / 14 °
HYDRAULICS			
Work pump	160 cm^3	160 cm^3	190 cm^3
Working pressure	24–28 Mpa	24–28 Mpa	24–28 Mpa
Hydraulic oil tank	160 l	160 l	160 l
Tractive force	130 kN	130 kN	150 kN
TIRES			
Front	600–710 * 34" or 26.5"	600–710 * 22.5"	600–710 * 24.5" or 26.5"
Rear	600–710 * 34" or 26.5"	600–710 * 34"	600–710 * 34"
FILL VOLUMES			
Fuel tank	300 l	300 l	300 l
DEF-liguid tank (gross)	16 l	16 l	16 l
OTHER			
Steering angle	±44 °	±44 °	±44 °
Batteries Ah	2 x 145 Ah	2 x 145 Ah	2 x 145 Ah

1170G 8-WHEELED	1270G 6-WHEELED	1270G 8-WHEELED	1470G 6-WHEELED
H212, H423 or H424	H424, H425, H425HD, H270 series II or H225E	H424, H425, H425HD, H270 series II or H225E	H425, H425HD, H270 series II, H290 or H225E
John Deere 6068	John Deere 6090	John Deere 6090	John Deere 6090
6	6	6	6
6.8 l	9 l	9 l	9 l
155 kW @ 1600–2000 rpm	200 kW @ 1600–2000 rpm	200 kW @ 1600–2000 rpm	200 kW @ 1600–2000 rpm
978 Nm @ 1200–1500 rpm	1315 Nm @ 1200–1400 rpm	1315 Nm @ 1200–1400 rpm	1315 Nm @ 1200–1400 rpm
CH6	CH7	CH7	CH9
165 kNm	197 kNm	197 kNm	235 kNm
45 kNm	50 kNm	50 kNm	59 kNm
220 °	220 °	220 °	220 °
10 / 11.3 m	8.6 / 10 / 11.7 m	8.6 / 10 / 11.7 m	8.6 / 10 / 11 m
28 / 14 °	28 / 15 °	28 / 15 °	25 / 18 °
190 cm^3	190 (or 210) and 180 cm^3	190 (or 210) and 180 cm^3	210 and 180 cm^3
24–28 Mpa	24–28 Mpa	24–28 Mpa	24–28 Mpa
160 l	300 l	300 l	300 l
160 kN	180 kN	210 kN	200 kN
650 or 710 * 24.5"	600 or 710 * 26.5"	600 or 710 * 26.5"	650 or 750 * 26.5"
650 or 710 * 24.5"	600 or 710 * 34"	600 or 710 * 26.5"	650 or 750 * 34"
300 l	450 l	390 l	450 l
16 l	22 l	22 l	22 l
±44°	±44 °	±44 °	±44 °
2 x 145 Ah	2 x 154 Ah	2 x 154 Ah	2 x 154 Ah

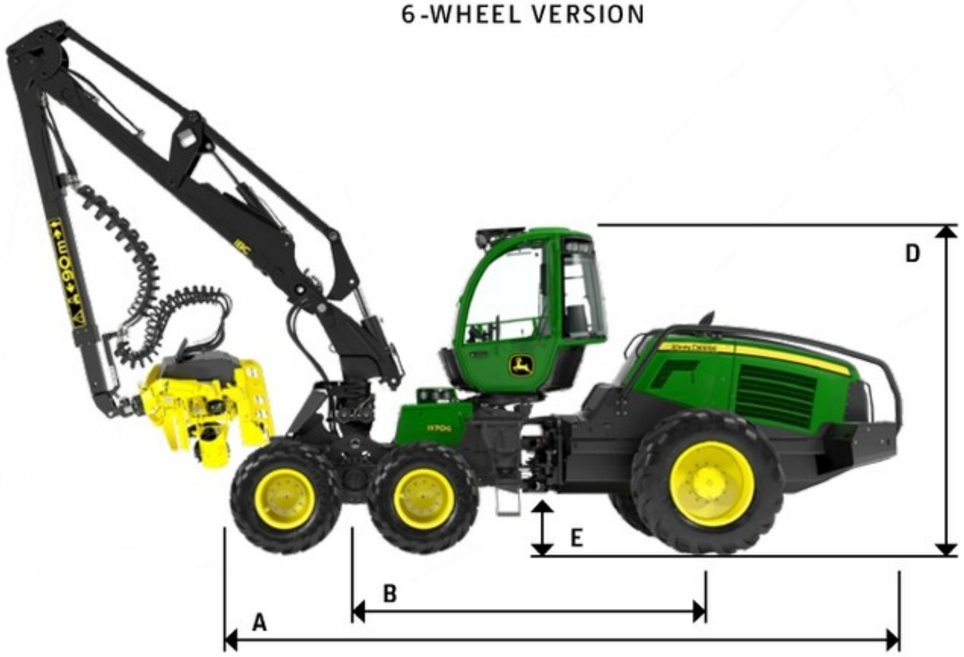
TECHNICAL DATA

REAR VIEW

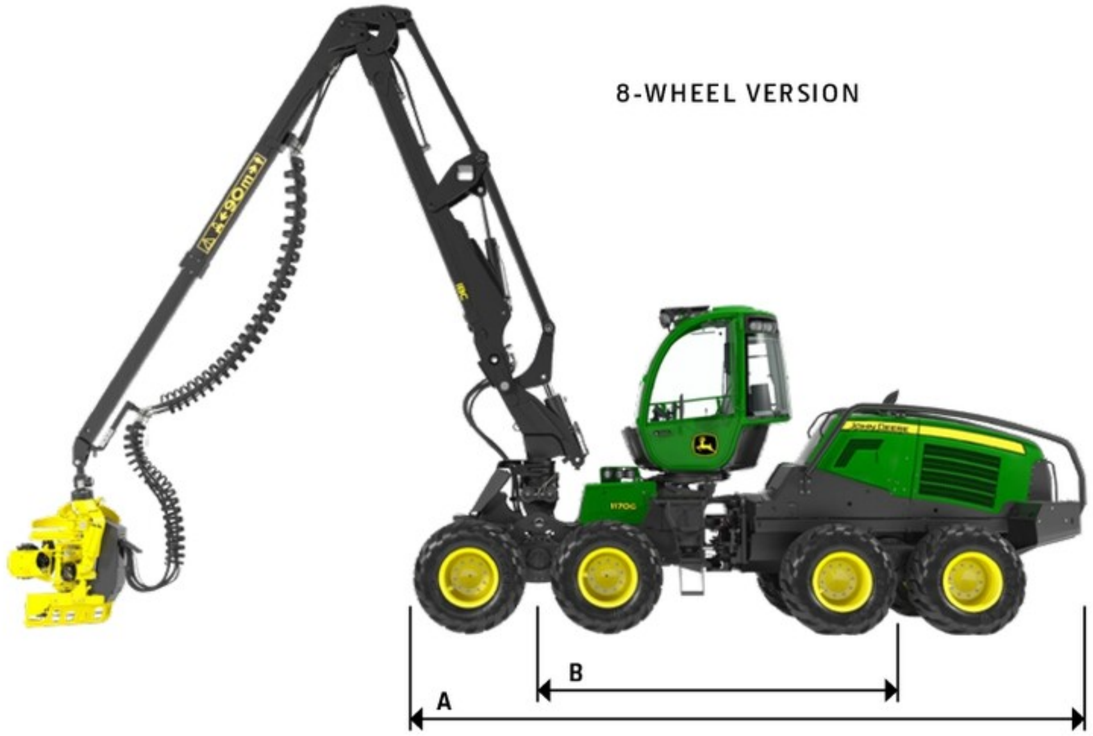
	1070G 4-WHEELED	1070G 6-WHEELED	1170G 6-WHEELED
DIMENSIONS			
Length [A]	6.70 m	7.00 m	7.25 m
Wheelbase [B]	3.70 m	3.70 m	3.85 m
Width min. [C]	2.60 m	2.65 m	2.65 m
Outer turning radius	5.80 m	6.0 m	6.35 m
Transport height [D]	3.70 m	3.75 m	3.75 m
Transport length	11.45 m	11.45 m	11.85 m
Ground clearance, middle joint [E]	0.55 m	0.55 m	0.6 m
Weight from tn. (harvester head)	15.2 tn (H212)	16.0 tn (H212)	17.8 tn (H423)

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

6-WHEEL VERSION



8-WHEEL VERSION



1170G 8-WHEELED	1270G 6-WHEELED	1270G 8-WHEELED	1470G 6-WHEELED
7.45 m	7.70 m	7.95 m	7.95 m
3.95 m	4.15 m	4.45 m	4.25 m
2.80 m	2.75 m	2.75 m	3.00 m
6.50 m	6.75 m	7.10 m	6.95 m
3.75–3.95 m	3.80 m	3.90 m	3.90 m
11.80–12.10 m	12.25 m	12.55 m	12.30 m
0.6 m	0.65 m	0.70 m	0.75 m
19.5 tn (H423)	20.8 tn (H424)	23.1 tn (H424)	22.9 tn (H425)

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