

# HARVESTER HEADS

*H200 & H400 series*



**JOHN DEERE**



***IN A CLASS OF THEIR OWN***

# *SUPERIOR PERFORMANCE WITH JOHN DEERE HARVESTERS*

## *UNBEATABLE COMBINATION*

John Deere harvester heads work seamlessly together with the John Deere harvesters. All the technical features of the combination are fine-tuned to serve the final purpose: felling, processing and measuring the stem. The hydraulics, automation, characteristics of the engine, and other features of the base machine enable maximized performance of the harvester heads.





John Deere harvester heads are known for their outstanding productivity and reliability. And their versatility, serviceability and measuring accuracy are features that are respected by logging professionals.

The four-wheel-drive H400 and two-wheel-drive H200 Series harvester heads represent high-quality standards of product design and manufacturing. No matter how difficult the conditions are, these products perform well in their size class.

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# *CHECK OUT THE HIGHLIGHTS H400 & H200 SERIES*





### ***DELIMBING QUALITY***

The ideal geometry of the harvester heads, along with advanced feeding, stem holding, hydraulics, mechanics and automation, ensure high delimiting quality.

### ***MEASURING ACCURACY***

John Deere harvester heads provide the best measuring accuracy in the market. This is a result of seamless co-functioning of the technology of the harvesters and harvester heads – something that is characteristic of John Deere.

### ***HIGH SAW PERFORMANCE***

The John Deere-specific saw unit offers high cutting performance, thanks to the excellent automation, mechanics and hydraulics of John Deere. It also features easy saw chain change, reliable saw chain tensioner, and a wide range of saw bars and lubrication systems for versatile customer needs.

### ***USABILITY***

John Deere harvester heads are user friendly. Adjusting the functions takes place through the TimberMatic machine control system, comfortably in the cabin. The controllability of the harvester heads is superior, thanks to excellent automation and hydraulics. This enables adaptation for the best performance in every condition and according to user preferences.

### ***SERVICEABILITY***

The service and filling points of John Deere harvester heads are easy to access. The hoses and connectors are easy to change, and the covers open without extra effort. Greasing John Deere harvester heads is also convenient.

### ***OPTIONS***

John Deere offers the market's largest selection of options for harvester heads, so heads can be tailored to meet all markets, conditions and user needs.

### ***H400 FOUR-WHEEL-DRIVE FEEDING***

Four-feed-roller harvester heads offer excellent grip in feeding. The heads feature high feeding force in a relatively small size. The feeding force and speed are easy to optimize, due to a large variety of configuration choices. As a result, efficient feeding is achieved without compromising measuring accuracy or delimiting quality.

### ***H200 TWO-WHEEL-DRIVE FEEDING***

The design of two-feed-roller harvester heads allows sideways movement of the stem being processed, which is of great help when handling curvy stems. The typically long frame brings stability to the heads in felling. The design also allows feeding to the smaller top-end diameter.

# H423



## H423 FEATURES

- Harvester head for thinnings and light regeneration operations
- Ideal tree diameter at breast height (DBH) is 150-350 mm
- Great versatility and performance
- Very suitable for multi-tree handling
- Well protected hoses
- Easy maintenance
- Low weight

## GREAT PRODUCTIVITY FROM EARLY TO LATE THINNINGS

**The John Deere H423 has been designed to carry out a wide range of harvesting jobs, from early to late thinnings and light regeneration harvesting. Because of its low weight, it can also be fitted to smaller base machines with a long boom. It has outstanding multi-tree-handling properties and can be equipped with a large variety of other options.**

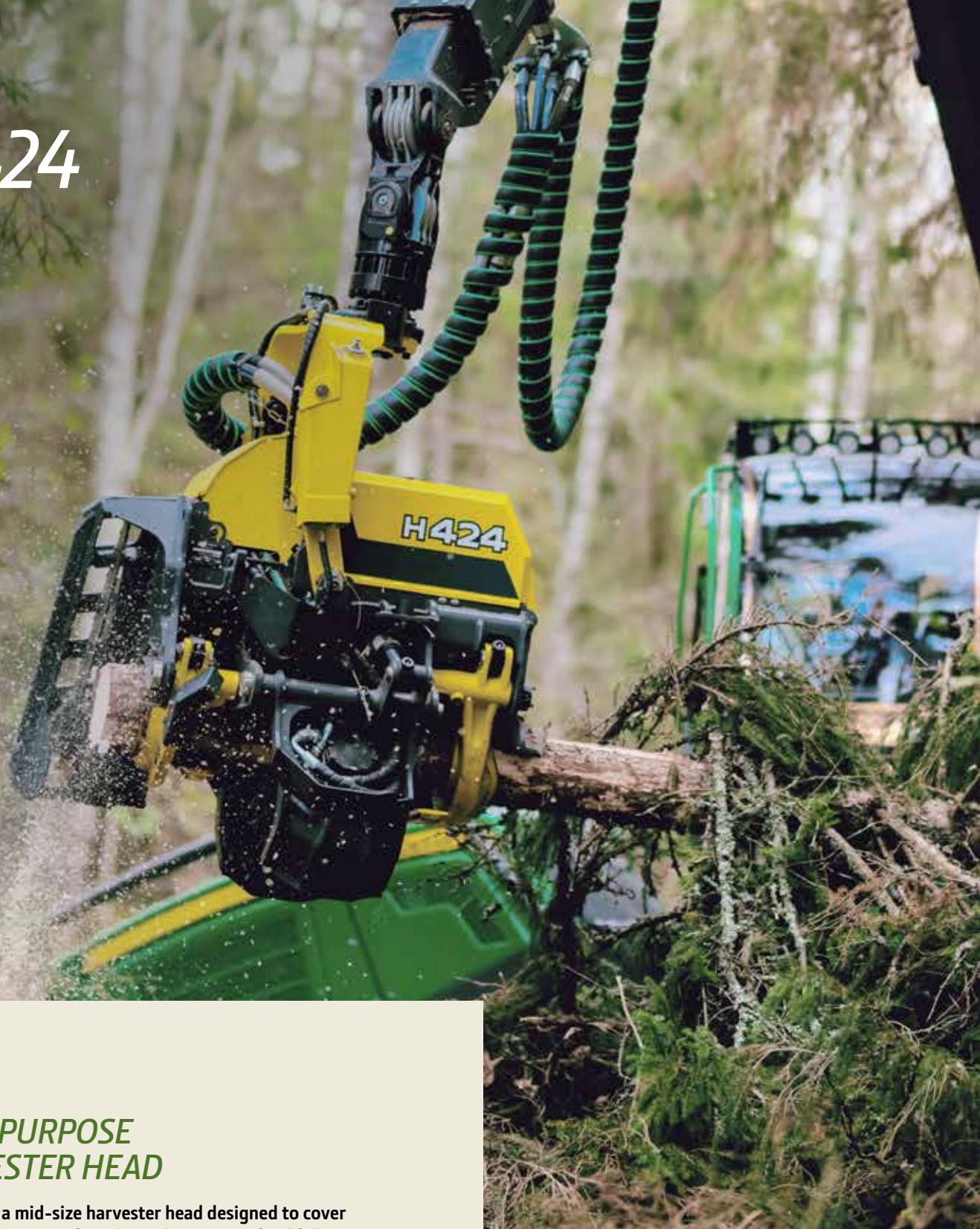
The H423 cleanly handles stems within its operating range – everything that fits in the head can be processed without trouble. It represents unique processing capability in its size class. The H423 and a John Deere harvester together are a highly productive combination.

The H423 features four feed rollers surrounding the stem. This continuous four-wheel drive with hydraulically connected feed rollers and mechanical differential lock ensures strong, fast feeding. The carefully routed hydraulic hoses are well protected by other structures of the harvester head.

The H423 also offers a wide portfolio of optional equipment and is thus adaptable for a large variety of logging applications. The excellent multi-tree handling options and capability further expands the operational range to smallwood applications, for example.



# H424



## MULTIPURPOSE HARVESTER HEAD

The H424 is a mid-size harvester head designed to cover various applications, from later thinnings to final fellings. It is a great all-around harvester head also suitable for crooked trees.

Feed-roller arms feature feed-roller guards and carefully routed and protected hydraulic hoses. Four moving delimiting knives, one fixed top knife, and one fixed back knife follow the contours of the stem, ensuring high delimiting quality. The frame design also allows easy processing of crooked stems.

The H424 is durable, productive and energy efficient. Adjustability and controllability make it comfortable to use. The service points are easily accessible, hydraulic hoses easy to change and the hinged covers easy to open.

### H424 FEATURES

- Available for 1070G, 1170G and 1270G
- Compact design for thinnings and power for final fellings
- Ideal tree diameter at breast height (DBH) is 150-430 mm
- Wide operating range
- Numerous options available



## H480C FEATURES

- From middle-size to large trees
- Ideal tree diameter at breast height (DBH) is 250-500 mm
- Excellent delimiting quality
- Unprecedented processing performance

## A ROBUST HARVESTER HEAD FOR FINAL FELLINGS

**The John Deere H480C combines feeding and cutting power with excellent delimiting quality throughout its operating range.**

The H480C gives high tree-processing performance, especially with large timber. Four moving delimiting knives, one fixed top knife, and one fixed bottom knife follow the contours of the stem. Knife geometry, together with the four-feed-roller-drive, ensure excellent delimiting quality with all stem sizes.

Frame structures are durable, and the rubber stoppers of the tilt frame protect the structures and further prolong the lifetime of the harvester head. Feed-roller arms feature durable bearings, cylinders and pins, and well protected hoses.

The H480C can be equipped with a great number of options, including two feed motor and several saw motor choices. This makes it adaptable for the harvesting of smaller wood.



# H480C



### **H425 FEATURES**

- Large, strong harvester head, primarily for operations with big stems
- Ideal tree diameter at breast height (DBH) is 250-500 mm
- High productivity, excellent measuring accuracy and delimiting quality
- Carefully routed hoses are well protected
- Huge selection of options makes it adaptable to a great variety of operations with different tree sizes and types

### **H425HD ADDITIONAL FEATURES**

- Heavy Duty (HD) tilt frame
- Expander pins in the upper end of the tilt cylinder, feed-motor arms, and lower delimiting knives
- Feed-motor guards



## **STRENGTH AND STAMINA FOR ALL LOGGING CONDITIONS**

**The H425 and H425HD are large harvester heads primarily targeted to operations with relatively big stems. With their excellent geometry, they perform well in their entire operating area, from small to large trees. The large selection of options and the HD version further widen the application range.**

The H425 and H425HD offer superb productivity in all conditions. They are powerful and durable. They have the largest option availability in the John Deere harvester head portfolio, including several feed motor, frame and saw motor options. Therefore, they are well suited for a variety of operations, as long as the base machine is strong enough. No matter what the tree species, stem profile or size, the H425 and H425HD can get the job done!



*H425 AND H425HD*



## H400 Series Harvester Heads technical data

SPECIFICATIONS	H423	H424	H480C	H425, H425HD
<b>DIMENSIONS [mm]</b>				
Width, head open	1480	1570	1880	1730
Width, head closed	1150	1290	1200	std. 1335 (with Buttress-option 1425)
Height without rotator and link	1350	1400	1450	1510
<b>WEIGHT [kg]</b>				
Without rotator and link, from	955	1105	1350	1360 (H425HD 1399 kg)
<b>FELLING/CUTTING</b>				
SuperCut 100S saw unit, automatic chain tensioning	Standard	Standard	Standard	Standard
Maximum cut diameter [mm]	580	620	710	std. 710 (with Buttress-option 750)
Length of saw bar [mm]	640/750	750	825/900	825/900
Chain type	.404	.404	.404	.404
Chain speed [m/s]	40	40	40	40
<b>FEEDING, FOUR-WHEEL-DRIVE with steel feed rollers</b>				
Gross feed force [kN]	315 / 500-cc motors: 23	400 / 620-cc motors: 27 315 / 503-cc motors: 21.5	400 / 630-cc motors: 27 500 / 800-cc motors: 30 500 / 780-cc motors: 30	400 / 627-cc motors: 27 500 / 780-cc motors: 30 315 / 1014-cc motors: 25–42
Maximum feed speed [m/s]	4.8–5.6	4.5–6.0	4.0–6.5	2.9–7.0
Maximum roller opening [mm]	560	640	680	680
<b>DELIMBING [mm]</b>				
Delimiting knives	4 moving, 2 fixed	4 moving, 2 fixed	4 moving, 2 fixed	4 moving, 2 fixed
Delimiting diameter, tip to tip	420	430	460	460
Maximum opening upper knives	560	610	680	680
Maximum opening lower knives	570	670	710	730
<b>HYDRAULIC SYSTEM</b>				
Maximum operating pressure [MPa]	28	28	28	28
Recommended pump capacity [l/min]	240–280	200–340	260–340	260–340
<b>CONTROL AND MEASURING SYSTEM</b>				
For adaptation, contact your local John Deere dealer.				
<b>OPTIONAL EQUIPMENT</b>				
Color marking	Yes	Yes	Yes	Yes
Stump treatment	Yes	Yes	Yes	Yes
Multi-tree-handling (MTH)	Yes	Yes	Yes	Yes
Mense feed rollers	Yes	Yes	Yes	Yes
Moipu feed rollers	Yes	Yes	Yes	Yes
Steel thumbnail feed rollers	Yes	Yes	Yes	Yes
Steel V-profile feed rollers	Yes	Yes	Yes	Yes
Steel ribbed feed rollers	Yes	No	No	Yes
Chain and saw bar kits	Yes	Yes	Yes	Yes
Hydraulic hose kit	Yes	Yes	Yes	Yes
Top saw	No	No	No	Yes
<b>OTHER ACCESSORIES</b>				
For more information, please contact your dealer.				

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## POWER IN A SMALL SIZE

**The H212 is a small size harvester head used for thinnings with the John Deere 1070G and 1170G. It brings an effective and agile alternative for thinnings and features an optional multi-tree handling unit. As a two-feed-roller head, it easily processes also curvy trees and hardwood.**

The H212 is primarily targeted to thinnings and other operations with relatively small trees. It is narrow and light. It has dual diameter sensors and an advanced length measuring system, together with excellent stem holding ability. Feed rollers and delimiting knives open wide, and the hydraulic hoses are carefully routed and protected.

The light weight makes controlling the movements of the head easy and allows fitting to smaller base machines. The small dimensions make it easy to navigate through the forest. Its layout makes it well suited for hardwood logging, and it offers excellent multi-tree handling characteristics. It's also suitable for processor use when equipped with the optional processor knives. Holding the stem, delimiting and feeding all happen fluently.

## H212 FEATURES

- For John Deere 1070G and 1170G
- Ideal tree diameter at breast height (DBH) is 100-250 mm
- Light and narrow, thus easy to handle
- Wide opening of delimiting knives and feeding rollers
- Large maximum felling cut diameter
- Efficient multi-tree handling option



# H212

# H270 SERIES II



## *BUILT FOR LATE THINNING AND REGENERATION HARVESTING*

The John Deere H270 Series II is a powerful, high-capacity harvester head built for superior performance in regeneration harvesting and designed for use with large wheeled harvesters.

The H270 Series II is easy and effortless to operate. With long delimiting knives and feed rollers that open wide, grabbing trees is easy. The floating front knife and roller arms, along with the geometry of the four moving delimiting knives, facilitate the feeding of both crooked and straight tree stems.

### *H270 SERIES II FEATURES*

- Excellent delimiting quality in all diameter ranges
- Ideal tree diameter at breast height (DBH) is 250-470 mm
- Accurate length and diameter measuring
- Efficient multi-tree-handling option

# H219



## THE BIGGEST HARVESTER HEAD FOR THE BIGGEST JOBS

**The John Deere H219 is an extremely powerful harvester head built for use on large wheeled and tracked harvesters.**

The H219 has been designed with a focus on durability, productivity and ease of maintenance. It features a robust structure with well routed and protected hoses and easy access to service points.

The H219 has a high feeding force and speed, thanks to the dual-speed, two-gear feed motors. Automatic gear control of the feed motors optimizes the feeding force with large timber and the feed speed with small timber.

The H219 also ensures excellent delimiting in all diameter ranges. The long cutting edges of the delimiting knives make for easy delimiting of large branches. The top-saw and find-end options maximize productivity even in hardwood harvesting and processing.

### H219 FEATURES

- For the John Deere 1470G with CH986 boom
- Ideal tree diameter at breast height (DBH) is 300-550 mm
- High delimiting quality
- Dual-speed feeding
- Efficient top saw option

### NEW OPTIONS

- Heavy Duty (HD) tilt frame
- Find-end sensor
- Measuring roller for hardwood
- Stroke chain lubrication for the main saw
- Steel thumbnail feed rollers for hardwood



## H215E FEATURES

- Excellent single-pass debarking
- Ideal tree diameter at breast height (DBH) is 150-300 mm
- Accurate length and diameter measuring
- Ease of service

## BUILT FOR SUPERIOR PERFORMANCE IN EUCALYPTUS HARVESTING

**The John Deere H215E is a powerful, high-capacity new-generation harvester head purpose built for eucalyptus debarking and designed for use on large wheeled harvesters and excavators.**

The H215E is an excellent tool for efficient eucalyptus harvesting. Four moving delimiting knives, one fixed top knife, and one fixed back knife, together with fixed debarking tools in the frame and two rotating rollers, ensure excellent debarking from large to small trees. Long component life, durable hose routings, and ease of daily service add to the high reliability of the H215E.



# H215E



## H200 Series Harvester Heads technical data

SPECIFICATIONS	H212	H270 Series II	H219	H215E	
<b>DIMENSIONS [mm]</b>					
Width, head open	1150	1660	1900	1650	
Width, head closed	1025	1075	1190	1200	
Height without rotator and link	1360	1585	1970	1900	
<b>WEIGHT [kg]</b>					
Without rotator and link, from	920	1350	1970	1690	
<b>FELLING/CUTTING</b>					
SuperCut 100S saw unit, automatic chain tensioning	Standard	Standard	Standard	Top saw	Standard
Maximum cut diameter [mm]	520	650	750	400	550
Length of saw bar [mm]	640	825	900	550	670
Chain type	.404	.404	.404	.404	.404
Chain speed [m/s]	40	40	40	40	40
<b>FEEDING, FOUR-WHEEL-DRIVE with steel feed rollers</b>					
Gross feed force [kN]	398-cc motors: 20	780-cc motors: 28.1 857-cc motors: 31.1 934-cc motors: 33.9	944 / 1295-cc motors: 37.7 / 28.1 1050 / 1404-cc motors: 41.6 / 31.2	25	
Maximum feed speed [m/s]	5.4	4.5–6.0	4.5–6.0	5.0	
Maximum roller opening [mm]	440	620	760	550	
<b>DELIMBING [mm]</b>					
Delimiting knives	3 moving, 2 fixed	4 moving, 1 floating, 1 fixed	4 moving, 1 fixed	4 moving, 1 fixed, 2 fixed debarking tools	
Delimiting diameter tip to tip	360	460	510	340	
Maximum opening upper knives	500	740	800	580	
Maximum opening lower knives	550	670	870	610	
<b>HYDRAULIC SYSTEM</b>					
Maximum operating pressure [MPa]	28	28	28	28	
Recommended pump capacity [l/min.]	180–270	260–380	320–380	260–340	
<b>CONTROL AND MEASURING SYSTEM</b>					
For adaptation, contact your local John Deere dealer.					
<b>OPTIONAL EQUIPMENT</b>					
Color marking	Yes	Yes	Yes	No	
Stump treatment	Yes	Yes	Yes	No	
Multi-tree-handling (MTH)	Yes	Yes	No	No	
Mense feed rollers	Yes	Yes	Yes	No	
Steel thumbnail feed rollers	Yes	Yes	Yes	No	
Steel ribbed feed rollers	Yes	Yes	No	No	
Tireco chain	No	Yes	Yes	No	
Chain and saw-bar kits	Yes	Yes	Yes	Yes	
Hydraulic hose kit	Yes	No	Yes	No	
Top saw	No	No	Yes	No	
<b>OTHER ACCESSORIES</b>					
For more information, please contact your dealer.					

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