HARVESTER HEADS

H424

H200 & H400 series



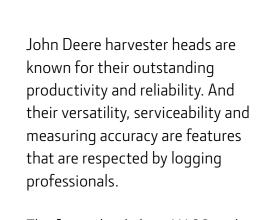
IN A CLASS OF THEIR OWN

SUPERIOR PERFORMANCE WITH JOHN DEERE HARVESTERS

H424

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.



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

HIGHLIGHTS4 of H200 and H400 Series
H423
H424
H480C9 A robust harvester head for final fellings
H425 AND H425HD10 Strength and stamina for all logging conditions
TECHNICAL DATA
H212
H270 SERIES II
H219
H215E
TECHNICAL DATA



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 delimbing 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 delimbing 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 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.



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 delimbing knives, one fixed top knife, and one fixed back knife follow the contours of the stem, ensuring high delimbing 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 delimbing quality
- Unprecedented processing performance

A ROBUST HARVESTER HEAD FOR FINAL FELLINGS

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

The H480C gives high tree-processing performance, especially with large timber. Four moving delimbing 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 delimbing 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.

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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 delimbing 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 delimbing knives
- Feed-motor quards



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
DIMENSIONS [mm]				
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
WEIGHT [kg]				
Without rotator and link, from	955	1105	1350	1360 (H425HD 1399 kg)
FELLING/CUTTING				
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
FEEDING, FOUR-WHEEL-DRIVE with	steel feed rollers			
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
DELIMBING [mm]				
Delimbing knives	4 moving, 2 fixed	4 moving, 2 fixed	4 moving, 2 fixed	4 moving, 2 fixed
Delimbing diameter, tip to tip	420	430	460	460
Maximum opening upper knives	560	610	680	680
Maximum opening lower knives	570	670	710	730
HYDRAULIC SYSTEM				
Maximum operating pressure [MPa]	28	28	28	28
Recommended pump capacity [l/min]	240–280	200–340	260–340	260-340
CONTROL AND MEASURING SYSTEM	1			
For adaptation, contact your local John Deere				
OPTIONAL EQUIPMENT				
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
			¥	Yes
Steel V-profile feed rollers	Yes	Yes	Yes	les
Steel V-profile feed rollers Steel ribbed feed rollers	Yes Yes	Yes No	No	Yes
Steel ribbed feed rollers	Yes	No	No	Yes

OTHER ACCESSORIES

For more information, please contact your dealer.

*Please note: Measurements are guidelines only and may vary depending on production tolerances. The manufacturer reserves the right to make changes. All product names featured in this brochure are registered trademarks of John Deere Forestry Oy.

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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 delimbing 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, delimbing and feeding all happen fluently.

HELE

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 delimbing knives and feeding rollers
- Large maximum felling cut diameter
- Efficient multi-tree handling option



H270 SERIES II

H270 SERIES II FEATURES

- Excellent delimbing quality in all diameter ranges
- Ideal tree diameter at breast height (DBH) is 250-470 mm
- $\cdot \,$ Accurate length and diameter measuring

H270

• Efficient multi-tree-handling option

BUILT FOR LATE THINNING AND REGENERATION HARVESTING

The John Deere H270 Series II is a powerful, highcapacity 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 delimbing 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 delimbing knives, facilitate the feeding of both crooked and straight tree stems.



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

H219 FEATURES

HZIO

- For the John Deere 1470G with CH986 boom
- Ideal tree diameter at breast height (DBH) is 300-550 mm
- High delimbing 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
- $\cdot \,$ 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 delimbing 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.





H200 Series Harvester Heads technical data

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For adaptation, contact your local John Deere dealer. OPTIONAL EQUIPMENT Color marking Yes Yes Yes No Stump treatment Yes Yes Yes No Multi-tree-handling (MTH) Yes Yes Yes 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 No Hydraulic hose kit Yes No No Yes No Top saw No No Yes No Yes No	Recommended pump capacity [l/min.]	180-270	260–380	320–380		260–340
OPTIONAL EQUIPMENTColor markingYesYesYesNoStump treatmentYesYesYesNoMulti-tree-handling (MTH)YesYesYesNoMense feed rollersYesYesYesNoSteel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesYesNoTireco chainNoYesYesNoChain and saw-bar kitsYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoNoYesNoNo	CONTROL AND MEASURING SYSTEM					
Color markingYesYesYesNoStump treatmentYesYesYesNoMulti-tree-handling (MTH)YesYesYesNoMense feed rollersYesYesYesNoSteel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesYesNoTireco chainNoYesYesYesNoChain and saw-bar kitsYesYesYesYesYesHydraulic hose kitYesNoYesNoYesTop sawNoNoYesNoYesNo	For adaptation, contact your local John Deere dealer.					
Stump treatmentYesYesYesNoMulti-tree-handling (MTH)YesYesNoNoMense feed rollersYesYesYesNoMense feed rollersYesYesYesNoSteel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesNoNoTireco chainNoYesYesYesNoChain and saw-bar kitsYesYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoTop sawNoNoYesNoNoNo	OPTIONAL EQUIPMENT					
Multi-tree-handling (MTH)YesYesNoNoMense feed rollersYesYesYesNoSteel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesYesNoTireco chainNoYesYesYesNoChain and saw-bar kitsYesYesYesYesYesHydraulic hose kitYesNoYesNoYesTop sawNoNoYesNoYesNo	Color marking	Yes	Yes	Yes		No
Mense feed rollersYesYesYesNoSteel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesNoNoTireco chainNoYesYesYesNoChain and saw-bar kitsYesYesYesYesYesHydraulic hose kitYesNoYesNoYesTop sawNoNoYesNoYesNo	Stump treatment	Yes	Yes	Yes		No
Steel thumbnail feed rollersYesYesYesNoSteel ribbed feed rollersYesYesNoNoTireco chainNoYesYesNoChain and saw-bar kitsYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoNoYesNo	Multi-tree-handling (MTH)	Yes	Yes	No		No
Steel ribbed feed rollersYesYesNoNoTireco chainNoYesYesNoChain and saw-bar kitsYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoNoYesNo	Mense feed rollers	Yes	Yes	Yes		No
Tireco chainNoYesYesNoChain and saw-bar kitsYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoNoYesNo	Steel thumbnail feed rollers	Yes	Yes	Yes		No
Chain and saw-bar kitsYesYesYesYesHydraulic hose kitYesNoYesNoTop sawNoNoYesNo	Steel ribbed feed rollers	Yes	Yes	No		No
Hydraulic hose kitYesNoYesNoTop sawNoNoYesNo	Tireco chain	No	Yes	Yes		No
Top saw No No Yes No	Chain and saw-bar kits	Yes	Yes	Yes		Yes
	Hydraulic hose kit	Yes	No	Yes		No
OTHER ACCESSORIES	Top saw	No	No			No
	OTHER ACCESSORIES					

For more information, please contact your dealer.

*Please note: Measurements are guidelines only and may vary depending on production tolerances. The manufacturer reserves the right to make changes. All product names featured in this brochure are registered trademarks of John Deere Forestry Oy.

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