



H414



John Deere H414 – Powerful next generation harvester head

The H414 represents a new generation of John Deere harvester heads. The H414 is especially designed for the new John Deere 1170E harvester, yet is also applicable for the John Deere 1270E and other mid-sized wheeled and tracked machines. The H414 features an excellent power-to-weight ratio and a compact size, which make it highly maneuverable even in dense thinning stands.

The H414 is characterized by the powerful and slip-free four-wheel drive feed with four hydraulic feed motors. The proven EVO2 valve provides efficient hydraulic oil flow and head control. The main frame is machined after welding as one piece, which provides high dimensional accuracy. New feed roller arms feature more durable bearings, built-in feed roller guards, strengthened cylinders and pins, and well-protected hose routings.

Four moving delimiting knives, one fixed top knife and one fixed back knife follow the contours of the stem. The redesigned knife geometry and long cutting edges of the H414 ensure an excellent delimiting quality for all stem diameters.

The highly efficient SuperCut 100 saw unit has a maximum felling diameter of 2.44 in. (620 mm), which gives the H414 excellent performance from

early thinnings up to early regeneration felling. The automatic chain lubrication and tensioning of the SuperCut saw unit improves the H414's cutting performance and reduces maintenance time.

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TECHNICAL DATA **John Deere H414**

DIMENSIONS

Width, head open	1520 mm / 60 in
Width, head closed	1200 mm / 47 in
Length of the delimiting unit	1400 mm / 55 in
Weight without rotator and link, from	1000 kg / 2200 lbs

FELLING/CUTTING

SuperCut 100 saw unit	Equipped with hydrostatic drive & automatic chain tensioning
Max. felling/cutting diameter	620 mm / 24 in
Saw bar	750 mm / 30 in
Chain type	10 mm / 0.4 in
Chain speed	40 m/s / 130 fps
Tank chain oil	6 l / 1.3 gal

FEEDING

4WD with 4 steel feed rollers	
Feed force with 620/400 cc motors	27 kN / 6100 lb.ft.
Max. feed speed	5,3 m/s / 17 fps
Max. feed roller opening	640 mm / 25 in

DELIMITING

Delimiting knives	4 moving & 2 fixed
Delimiting diameter tip to tip	430 mm / 17 in
Max. opening upper knives	610 mm / 24 in
Max. opening lower knives	660 mm / 26 in

HYDRAULIC SYSTEM

Recommended pump capacity	290-340 l/min / 77-90 gpm
Max. operating pressure	28 Mpa / 4060 PSI

MEASURING & CONTROL SYSTEM

TimberMatic H-09, TimberMatic 300, TimberRite

OPTIONAL EQUIPMENT

- Color marking system, 2 colors: Through knife nozzles or Supermark
- Stump treatment system: Through saw bar or Nozzles in saw box
- Feed rollers: Moipu, Mense, MTH, Thumbnail, Steel V-profile
- Rotator & link
- Rotator valve
- Hydraulically activated top knife
- Various types of length measuring wheels
- Tool kits