H400 Series FOUR-WHEEL-DRIVE HARVESTER HEADS

Productivity  Reliability  Versatility  Accuracy
Quality you can count on

Waratah harvester heads are known for outstanding productivity, reliability, versatility, and measuring accuracy. Four-wheel-drive H400 Series Harvester Heads continue the same high-quality standards for product design and manufacturing that logging professionals worldwide trust to help get their toughest jobs done.

General features of the H400 Series

All-around harvester head for late thinnings and regeneration harvesting

Regeneration harvesting
General features of the H400 Series

- Early to late thinnings
- Early thinnings
- Early to late thinnings with excellent multi-tree-handling features

Regeneration harvesting

Specifications
H400 Series highlights

Powerful four-wheel-drive feeding
Four-wheel-drive system with high feed force and grip maximize delimbing efficiency.

Measuring accuracy
Latest sensor technology together with new TimberRite control system provides outstanding measuring accuracy.
Delimbing quality
Delimbing tool geometry provide the best possible delimbing coverage from large to small diameter wood.

High saw performance
Automated hydraulic saw control minimizes cutting damage and maximizes productivity.
H412
Early thinning

With its great multi-tree-handling ability, the Waratah H412 is the right harvester head for early thinnings. Its compact size makes it easy to catch, fell, and process trees in dense forest stands.

Three moving delimming knives, one fixed top knife, and one fixed back knife follow the contours of the stem. The H412 provides excellent delimming quality for all stem diameters down to 40 mm.

The H412 is a compact and lightweight, easy-to-maneuver harvester head. Its excellent multi-tree-handling features help noticeably increase productivity.

H412 features
- Compact and agile
- Durable and accurate
- Excellent delimming capabilities, even for small diameter wood
For fast and precise felling, the SuperCut 100 saw unit cuts tree diameters up to 620 mm.

**HTH460**

First thinning to early regeneration harvesting

The Waratah HTH460 is a lightweight harvester head designed to carry out a wide range of harvesting jobs, from first thinning to early regeneration harvesting.

**HTH460 features**

- All-round harvester head
- Compact frame design
- Fast and precise felling
The powerful, well-positioned saw unit of the Waratah H413 masters fast and precise felling and crosscutting. The H413 features four feed rollers that form a circle around the stem. This unique continuous four-wheel-drive with hydraulically connected feed rollers and mechanical differential lock ensures strong, fast feeding.

Thanks to a short frame and optimal placement of the one fixed delimbing and four moving knives, the Waratah H413 delivers superb delimbing performance. The H413 excels when paired with multi-tree-handling equipment.

H413 Early to late thinnings

The Waratah H413 is designed to carry out a wide range of harvesting jobs, from early to late thinnings, to light regeneration harvesting. It has outstanding multi-tree-handling qualities, a compact frame design, and an excellent power-to-weight ratio.  

H413 features
- Great versatility and performance
- Very suitable for multi-tree handling
- Easy and effortless serviceability
H414
Late thinnings and regeneration harvesting

The Waratah H414 features an excellent power-to-weight ratio, outstanding delimbing capability, and compact size. It is a great all-round multipurpose harvester head.

- Designed for mid-sized to large harvesters
- Excellent power-to-weight ratio
- Highly maneuverable

Feed roller arms feature built-in guards, strong cylinders, and well-protected hose routings. Four moving delimbing knives, one fixed top knife, and one fixed back knife follow the contours of the stem.

The geometry and long cutting edges of the H414 knives ensure excellent delimbing quality for all stem diameters. The SuperCut 100 saw unit has a maximum felling diameter of 620 mm, for excellent all-round performance all the way from early thinnings up to early regeneration felling.
The Waratah H480C Harvester Head combines large-timber-cutting power with excellent delimbing quality throughout its tip-to-tip diameter range.

H480C features
- For large timber
- Excellent delimbing quality
- Unprecedented tree-processing performance

The H480C gives unprecedented tree-processing performance, especially in large timber. The feed-roller arms feature more durable bearings, strengthened cylinders and pins, and well-protected hose routings. Four moving delimbing knives, one fixed top knife, and one fixed back knife follow the contours of the stem. The knife geometry and long cutting edges of the H480C ensure excellent delimbing quality for all stem diameters.

The SuperCut 100 saw unit has a maximum felling diameter of 710 mm, and can be factory equipped with either Parker or Bucher saw-motor options.
The H415 gives unprecedented tree-processing performance, especially in large timber. New feed-roller-arm geometry ensures feed rollers grip solidly and reliably carry trunks in all diameter ranges.

The H415 offers a solution for all different kinds of clearfelling with its three options for variable stem types: standard (narrow stem), buttress (wide stem), and top saw (processing and hardwood).
When you order a Waratah harvester head, you never have to settle for features you’ll never use. Since we build everything to order, you’re able to fine-tune the configurations and match the features to the way you work – right down to the species of tree you’re working with.

Whether you’re looking to be more precise at the controls or more comfortable in your carrier, our customized wheel-and-knife configurations and smart amenities will help you make the most of your time on the job.

MEASURING AND CONTROL SYSTEMS

Simplify your operations while boosting productivity with the Waratah TR100 measuring system. Through this easy-to-use system, operators control harvester head functions, measure log length and diameter, and record the total volume harvested — all with icons that are easily understood worldwide.

TR100 delivers vital production information while controlling harvest functions and timber measurements. With its simple graphics, it knocks down language barriers and helps manage workloads through intelligent control systems and real-time information access.
By managing your workload through intelligent control systems, real-time information access, and wireless data transfer, our TimberRite 30L and 30H systems turn your carrier into your high-tech office in the woods.

You can send and receive production information, machine settings, and harvesting instructions via email. Or monitor your harvester/processor head performance to ensure maximum productivity.

**TimberRite 30L**

**KEY FEATURES**

- PC-based system integrates the control of the harvester/processor head with the measure and bucking of timber
- Enough memory for an unlimited number of sites and personal settings for up to six operators
- It optimizes using length plus large-end (LED) or small-end (SED) diameter logic, incorporating eight species, 40 pre-selections per species - streamlining your mixed timber stands and large cutting lists
- Provides individual species calibration and individual species soft clamping settings of the delimb and drive arms
- Transfer data with a USB stick
- Features work and repair statistics to help you monitor uptime, productivity, and operating costs
- Download production reports, worksite instructions, repair follow-ups, calibration history, log tables, and more
- Simplified diagnostic tests with built-in diagnostic troubleshooting of all inputs, outputs, and sensors.

**TimberRite 30H**

**KEY FEATURES**

- Send and receive production information, machine settings, and harvesting instructions via email regardless of your location
- It optimizes each log prioritizing by assigned price to maximize the value of the log.
- StanForD files ensure data can interchange with virtually any professional system in the forestry business
- Transfer data with a USB stick
- Features work and repair statistics to help you monitor uptime, productivity, and operating costs
- Download production reports, worksite instructions, repair follow-ups, calibration history, log tables, and more
- Simplified diagnostic tests with built-in diagnostic troubleshooting of all inputs, outputs, and sensors.

**COMPONENTS**

- **Display Module**
  - 26.4 cm 10.39 in.- monitor with keyboard and touchpad mouse
- **PC-based CPU Module**
  - Includes email and optional GPS
- **Joystick Module**
  - Interface for joystick communication
- **SureGrip or Danfoss Joysticks**
  - For comfortable control of harvester head functions
- **CrossFire Module**
  - CrossFire controls base machine pumps
- **Harvester Head Module (HHM)**
  - Processes and conveys control signals to the harvester and measuring data from the harvester head
- **USB Stick**
  - Conveniently transfer files
## H400 Series Harvester Heads technical data

<table>
<thead>
<tr>
<th></th>
<th>H412</th>
<th>HTH460</th>
<th>H413</th>
<th>H414</th>
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<tbody>
<tr>
<td><strong>DIMENSIONS [mm]</strong></td>
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<tr>
<td>Width, head open</td>
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<td>1140</td>
<td>1300</td>
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<td>Height without rotator and link</td>
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<td>1330</td>
<td>1345</td>
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<tr>
<td><strong>WEIGHT [kg]</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Without rotator and link, from</td>
<td>735</td>
<td>890</td>
<td>940</td>
<td>1100</td>
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<tr>
<td><strong>FELLING/CUTTING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SuperCut 100 saw unit, automatic chain tensioning</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Maximum cut diameter [mm]</td>
<td>470</td>
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<td>580</td>
<td>620</td>
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<tr>
<td>Length of saw bar [mm]</td>
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<td>640/750</td>
<td>750</td>
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<td>Chain type</td>
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<td>.404</td>
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<td>40</td>
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<td><strong>FEEDING, FOUR-WHEEL-DRIVE with steel feed rollers</strong></td>
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<tr>
<td>Gross feed force [kN]</td>
<td>450 / 200-cc</td>
<td>400 / 250-cc</td>
<td>400 / 250-cc</td>
<td>620 / 400-cc</td>
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<td>17</td>
<td>18</td>
<td>19</td>
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</tr>
<tr>
<td></td>
<td>500 / 315-cc</td>
<td>500 / 315-cc</td>
<td>23</td>
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<td>Maximum feed speed [m/s]</td>
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<td>4.8–5.6</td>
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<td>Maximum roller opening [mm]</td>
<td>530</td>
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<td><strong>DELMIBING [mm]</strong></td>
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<td>Delimbing knives</td>
<td>3 moving, 2 fixed</td>
<td>4 moving, 1 fixed</td>
<td>4 moving, 2 fixed</td>
<td>4 moving, 2 fixed</td>
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<td>Delimbing diameter tip to tip</td>
<td>400</td>
<td>400</td>
<td>420</td>
<td>430</td>
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<tr>
<td>Maximum opening upper knives</td>
<td>550</td>
<td>560</td>
<td>560</td>
<td>610</td>
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<tr>
<td>Maximum opening lower knives</td>
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<td>560</td>
<td>570</td>
<td>660</td>
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<td><strong>HYDRAULIC SYSTEM</strong></td>
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<td><strong>CONTROL AND MEASURING SYSTEM</strong></td>
<td>For adaptation, contact your local Waratah dealer.</td>
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<td><strong>OPTIONAL EQUIPMENT</strong></td>
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<td>Color marking</td>
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<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Stump treatment</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Multi-tree-handling (MTH)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>MenSe feed rollers</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Moipu feed rollers</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Steel thumbnail feed rollers</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Steel V-profile feed rollers</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Steel ribbed feed rollers</td>
<td>No</td>
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<td>Yes</td>
<td>No</td>
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<td>Chain and saw bar kits</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Hydraulic hose kit</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Top saw</td>
<td>No</td>
<td>No</td>
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<td><strong>OTHER ACCESSORIES</strong></td>
<td>For more information, please contact your dealer.</td>
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</table>

*Please note: Measurements are guidelines only and may vary depending on production tolerances. The manufacturer reserves the right to make changes.

This brochure/literature has been compiled with care for worldwide circulation. While general information, pictures, and descriptions are provided, some illustrations and text may include options and accessories not available in all regions. Please contact your local dealer for details. Waratah reserves the right to change specifications and design for products described in this brochure without notice. No liability for errors and omissions.
### Dimensions [mm]

<table>
<thead>
<tr>
<th>Model</th>
<th>Width, head open</th>
<th>Width, head closed</th>
<th>Height without rotator and link</th>
</tr>
</thead>
<tbody>
<tr>
<td>H480C</td>
<td>1320</td>
<td>1070</td>
<td>1155</td>
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<td>H414</td>
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<tr>
<td>H415</td>
<td></td>
<td></td>
<td>1880</td>
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</tbody>
</table>

### Weight [kg]

- Without rotator and link: 735–1350 kg
- From 890 to 1330 kg

### Felling/Cutting

- SuperCut 100 saw unit, automatic chain tensioning

### Maximum Cut Diameter [mm]

- Standard: 470
- 620 / 400-cc: 620
- 780 / 500-cc: 780
- 630 / 400-cc: 630

### Maximum Length of Saw Bar [mm]

- Standard: 540
- 620 / 400-cc: 620
- 780 / 500-cc: 780

### Chain Type

- Standard: .404
- 620 / 400-cc: .404
- 780 / 500-cc: .404

### Chain Speed [m/s]

- Standard: 40
- 620 / 400-cc: 40
- 780 / 500-cc: 40

### Feeding, Four-Wheel-Drive with steel feed rollers

- Gross feed force: 450 / 200-cc 450-500 N
- Maximum feed speed: 17 / 4.9–5.8 m/s
- Maximum roller opening: 530

### Deliming

- Tip to tip: 3 moving, 2 fixed
- Upper knives: 400
- Lower knives: 550

### Hydraulic System

- Maximum operating pressure: 28 MPa
- Recommended pump capacity: 200–260 l/min.

### Control and Measuring System

- Contact your local Waratah dealer.

### Optional Equipment

- Color marking: Yes
- Stump treatment: Yes
- Multi-tree-handling (MTH): Yes
- MenSe feed rollers: No
- Moipu feed rollers: No
- Steel thumbnail feed rollers: Yes
- Steel V-profile feed rollers: Yes
- Steel ribbed feed rollers: No
- Chain and saw bar kits: Yes
- Hydraulic hose kit: Yes
- Top saw: No

### Other Accessories

For more information, please contact your dealer.