HARVESTING/PROCESSING HEADS

waratah

200 SERIES

It's no coincidence that Waratah has been an industry-leader for over 40 years. Because we've always listened to you to design durable, more productive and efficient harvesting and processing heads proven for your application.

At our facilities in Finland and New Zealand, each head is made to order, so you get exactly what you need. Our heads are built to work with advanced technology providing precise control with accurate diameter and length measuring. With on-site facility testing, each product is proven on our time to be profitable on yours.

Our commitment to your success goes beyond product quality. When you put our heads to work, our global support network goes to work for you – from helping you choose the right head, to installation and startup, to being on site when you need us.

We offer the widest range of harvester/processor heads on the market. So whether you're harvesting at the stump, processing at the landing or somewhere in between, Waratah is built to work for you all over the world.

"I think Waratahs are the toughest out there. We put a lot of demand on them."

Ben Reed, Wayne Stone Logging

270
es II

200 SERIES

Proven in hardwood, softwood and debarking applications, Waratah 200 Series harvesters balance productivity with accuracy.

Several junction box configurations available to suit many applications
Rotator options to suit many carriers
Multi-tree harvesting options for some models
Advanced on-board controller and diagnostics
Highly efficient, high performance valves provide responsiveness and speed
Optional top saw on some models increases productivity
Fixed and floating front knife options provide optimum delimbing coverage
Extreme measuring accuracy with the latest sensor technology and many wheel options
Specialized guarding packages for snow and harsh applications
Dual-diameter sensors for accurate log volumes, assortments and optimum head performance
High-torque high-performance feed motor options, some models with optional dual-speed feeding
Drive wheel options for optimum wood quality, debarking or maximum traction in crooked wood
Delimb knives provide the best possible delimbing for large- and small-diameter wood
Large knife and feed roller openings for fast stem catching and productive tree harvesting.
waratah
H290

H270

Whether you're in softwood, hardwood or debarking, the agile H270 Series-II is perfectly equipped to handle the task. Its simple design with excellent stem visibility and wide-opening rollers provides quick and easy tree harvesting.

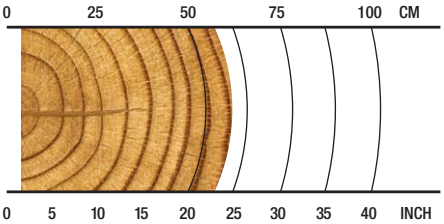
OVERVIEW

Harvesting in late thinnings or regeneration harvesting; productive in crooked or straight wood.

APPLICATIONS

Softwood harvesting
Hardwood harvesting
Multi-tree harvesting

RECOMMENDED RANGE



4-60 cm / 1.5-23.6 in.

SPECS

1350 kg / 2,976 lb.
Weight (Without Rotator & Link)

28 MPa / 4,061 psi
Maximum Hydraulic Requirements

740 mm / 29.1 in.
Max Upper Delimb Opening

620 mm / 24.4 in.
Max Feed Roller Opening

650 mm / 25.6 in.
Maximum Cutting Capacity

18-25 metric ton
Carrier Size

16-25 metric ton
Carrier Size

H290

Optimized for performance, the recently updated H290 is a robust and powerful harvester head built for exceptional feeding and delimbing performance. The extra-efficient top saw option enables easy topping for increased stem utilization, boosting operational productivity.

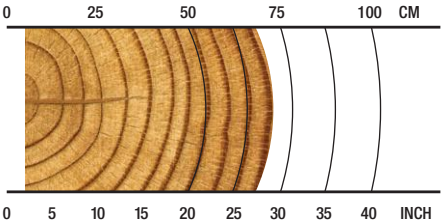
OVERVIEW

Harvesting in late thinnings or regeneration harvesting; productive in crooked or straight wood.

APPLICATIONS

Softwood harvesting
Hardwood harvesting
Debarking

RECOMMENDED RANGE



5-70 cm / 2-27.6 in.

SPECS

1970 kg / 4,343 lb.
Weight (Without Rotator & Link)

28 MPa / 4,061 psi
Maximum Hydraulic Requirements

800 mm / 31.5 in.
Max Upper Delimb Opening

760 mm / 29.9 in.
Max Feed Roller Opening

750 mm / 29.5 in.
Maximum Cutting Capacity

20-30 metric ton
Carrier Size

25-35 metric ton
Carrier Size

H215E

Eucalyptus is no match for the purpose-built H215E. Specifically designed for debarking, this powerful, high-capacity next-generation harvester head productively dominates in the harsh application.

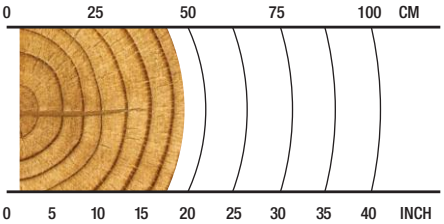
OVERVIEW

Eucalyptus debarking in late or final thinnings or regeneration harvesting.

APPLICATIONS

Debarking

RECOMMENDED RANGE



3-45cm / 1.2-17.7 in.

SPECS

1690 kg / 3,726 lb.
Weight (Without Rotator & Link)

28 MPa / 4,061 psi
Maximum Hydraulic Requirements

580 mm / 22.8 in.
Max Upper Delimb Opening

550 mm / 21.7 in.
Max Feed Roller Opening

550 mm / 21.7 in.
Maximum Cutting Capacity

18-22 metric ton
Carrier Size

20-25 metric ton
Carrier Size

MEASURING AND CONTROL SYSTEMS

We focus on providing you with accurate diameter and length measuring systems for profitable precision. Simplify operations and boost productivity with real-time statistics and measuring information, and wireless data transfer.

TIMBERRITE™ H-16

Imagine a fast, powerful control system that manages your workload and links your office to the forest.

The productive TimberRite measuring and control system uses a powerful Windows PC, providing accurate measuring technology and responsive head control for efficient operational productivity.

It records production information, tracks productivity, and packages all files in the latest StanForD 2010 format to ensure data interchanges with virtually any professional system in the forest industry.

Additionally, this user-friendly system has email capabilities, and can utilize our WaratahMate™ smartphone app for the efficient and timely transfer of production information and other important files regardless of your location. Configurable as standard with Pre-Selection priority, or optionally with Value Optimization it can manage your output to keep step with market demands. TimberRite keeps you productive and informed to manage your workload for whatever your market requires.

KEY FEATURES

- **Pre-Selection Priority** - (standard) - sequential optimization by cutting list instruction, and alternate log assignments.
- **Value Optimization** - (optional) - value-based optimization, intuitive prognosis through intelligent assessment of advanced matrices.
- **Touch-screen display**, or wireless keyboard and touch pad mouse.
- **Windows™ 7 PC**-based controller integrates the harvester head measuring and control system with the high processing power of a personal computer.
- **StanForD 2010** file structure ensures data interchanges with other professional systems in the forest industry.
- **Automatic file sending** - production reports, worksite instructions, repair follow-ups, calibration history, log tables, machine settings and harvesting instructions.
- **WaratahMate™ smartphone app** - Easily transfer data wirelessly regardless of location, or through email or USB stick.
- **Work & repair statistics** - Monitor uptime, productivity and operating costs.
- **Species specific calibration and soft-clamping** settings for delimb and drive arms.
- **Operator specific settings** and configurable menus for quick navigation and adjustments.
- **Extensive site documentation** – expanded site, contractor, and machine information.
- **Simplified diagnostics** - input and output tests with built-in diagnostic troubleshooting assistance.

OPTIONS

Waratah heads are congurable to your application.
Consult your dealer for option availability.

Configurability
Waratah has a wide range of focused options for harvesting and processing applications including single- and multi-stem processing, multi-tree handling, and all models include options for softwood, crooked hardwood and debarking.

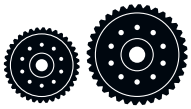
Color Marking
Waratah offers nozzle-applied color marking systems to simplify log identification. Three colors provide many assortment combinations, improving sorting and yard safety.

Main Saws, Saw Motors, Top Saws
The 200 series have high-cutting capacity main saws with saw boxes designed for quick, cross cutting. All saw units have auto tensioning 10 mm/0.404 pitch chain driven by efficient, high torque motors. Additionally, the H290 has an optional top saw for extra efficiency in crooked wood applications.

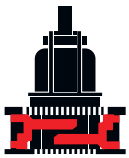
Measuring Wheels
Application-specific measuring wheels are engineered for accurate and consistent measuring in all tree species with enhancements for log quality. Selections include wide and narrow models, coarse and fine teeth options, and multi-stem, debarking configurations.

Delimb Arms
Delimb arms are engineered for fast stem catching and durability in the toughest applications. Knife profiles ensure quality delimbing throughout the recommended diameter range.

Rotators
Waratah offers high torque and productive rotator motor and hose bulkhead options on all of the 200 series models.



Feed Rollers
Many feed roller options are available for a variety of applications, offering improved traction and reducing fiber damage. Wheel options include eucalyptus debarking, rib, v-type, MTH, Moipu, MenSe, thumbnail, aggressive and many combination styles.



Multi-tree Harvesting
Select models have multi-tree harvesting (MTH) capabilities, providing superior accumulating and precise bundle feeding with the option. MTH ability increases productivity and can easily be installed between the rotator and hanging bracket – even on existing heads.

Front Knives
Waratah offers heavy-duty floating or fixed front knife options with specialized profiles and cutting edges for superior delimbing in any application.

Stump Treatment
Waratah has nozzle or bar-applied stump treatment kits.

Talk to your Waratah dealer about more available options.

TECHNICAL DATA 200 SERIES

	H270 Series-II	H290	H215E
DIMENSIONS			
Width, head open [mm/in.]	1660 / 65.4	1900 / 74.8	1650 / 65.0
Width, head closed	1075 / 42.3	1190 / 46.8	1200 / 47.2
Height without rotator and link	1585 / 62.4	1970 / 77.6	1900 / 74.8
WEIGHT			
Excluding rotator, link and some options [kg/lb.]	1350 / 2976	1970 / 4343	1690 / 3276
DELIMBING [mm]			
Delimbing knives	4 moving, 1 floating, 1 fixed rear	4 moving, 2 fixed	4 moving, 1 fixed, 2 fixed debarking tools
Delimbing diameter, tip to tip [mm/in.]	460 / 18.1	510 / 20.1	430 / 16.9
Maximum opening, upper knives [mm/in.]	740 / 29.1	800 / 31.5	580 / 22.8
Maximum opening, lower knives [mm/in.]	670 / 26.4	870 / 34.3	610 / 24.0
DRIVE			
Quantity of drive rollers	2	2	2
Motor cc - option 1	780-cc motors	1295 / 944-cc motors	702-cc motors
Gross feed force [kN] (steel feed wheels)	28.1	37.7 / 28.1	25
Motor cc - option 2	857-cc motors	1404 / 1050-cc motors	
Gross feed force [kN] (steel feed wheels)	31.1	41.6 / 31.2	
Motor cc - option 3	934-cc motors		
Gross feed force [kN] (steel feed wheels)	33.9		
Maximum feed speed [m/s]	4.5–6.0	4.5–6.0	5
Maximum roller opening [mm/in.]	620 / 24.4	760 / 29.9	550 / 21.7
Minimum diameter [mm/in.]	40 / 1.6	50 / 2.0	30 / 1.2
TOP SAW			
Maximum cut diameter [mm/in.]		400 / 15.7	
Length of saw bar [mm]		600	
Chain type [mm/in.]		10/0.404	
Top saw motor displacement [cc]		14cc	
BUTT / FELLING SAW			
Standard Saw	SuperCut 100 with auto chain tensioning	SuperCut 100 with auto chain tensioning	SuperCut 100 with auto chain tensioning
Maximum cut diameter [mm/in.]	650 / 25.6	750 / 29.5	550 / 21.7
Length of saw bar [mm]	825	900	670
Chain type [mm/in.]	10/0.404	10/0.404	10/0.404
Saw motor	19 or 20cc	19 or 20cc	20cc
Bar oil tank capacity	4.8 l	7.2 l	10 l
CARRIER RANGE			
Wheeled [metric ton]	18-25	20-30	18-22
Tracked [metric ton]	16-25	25-30	20-25
HYDRAULIC SYSTEM			
Maximum operating pressure [Mpa/PSI]	28 / 4061	28 / 4061	28 / 4061
Recommended pump capacity [l/min.,gal/min.]	260–380	320–380	260–340
CONTROL AND MEASURING SYSTEM	**TimberRite H-16***	**TimberRite H-16***	**TimberRite H-16***
OPTIONAL EQUIPMENT			
Color marking	Yes	Yes	No
Stump treatment	Yes	Yes	No
Multi-tree-harvesting (MTH)	Yes	No	No
MenSe feed rollers	Yes	Yes	No
Debarking feed rollers	No	Yes	Yes
Steel thumbnail feed rollers	Yes	Yes	No
Steel ribbed feed rollers	Yes	Yes	No
Tireco chain	Yes	Yes	No
Chain and saw-bar kits	Yes	Yes	Yes
Hydraulic hose kit	No	Yes	No
Top saw	No	Yes	No

This brochure 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 specications and design for products described in this brochure without notice. No liability for errors and omissions.

*Other adaptations may be available. Please contact your local Waratah dealer.

waratah
BUILT TO WORK

FORESTRY EQUIPMENT

www.Waratah.com

DKA200WA Litho in U.S.A. (16-09)