HARVESTER HEADS

20 RHS


PT. ARKADIYA FORHAKA INDONESIA
Plasa Oleos Building Lt. 5 unit d
Jl. TB Simatupang Kav. 53a, Jakarta. Indonesia
M. +6221 - 7883 9333 - F. +6221 - 781 596 6
E. info@arkadiya.com - W. www.arkadiya.com
Kesla's extensive experience in forest technology has given it superior expertise as a developer of harvesters. Kesla's harvester family offers the market's most comprehensive line of both roller and stroke harvester heads. The product family also includes excavator harvester packages as well as special harvesters for eucalyptus handling.

When developing the harvester head range, special attention has been paid on requirements of biomass harvesting. With optional accessories the KESLA harvester heads can be equipped for effective biomass logging in addition to conventional timber harvesting, without compromises.

Kesla is a pioneer in the outfitting of excavators for harvester use. Kesla has an in-depth knowledge of almost all the excavator brands and their special requirements. When it comes to stroke harvesters, is Kesla is also the world's market and technology leader. An extensive selection of cranes designed specifically for harvesting use supplements the range of harvester products. As a testimony to Kesla's quality, several harvester manufacturers around the world have chosen KESLA as their original equipment.

The design and manufacturing of Kesla's forest machines complies with all applicable international quality criteria. All products pass through a rigorous quality assurance program as well as practical performance and safety tests; the principles of sustainable development guide every aspect of Kesla's operations.

COMPREHENSIVE SOLUTIONS:
- cut-to-length thinning and final felling
- gentle processing of valuable special timber
- harvesting of hardwoods and trees with robust branches
- cutting and debarking of eucalyptus trees
- processing as a part of a tree-length harvesting chain
- effective biomass harvesting
- cranes for harvesters and forwarders
- harvester accessories for excavators

Superior durability and performance

Besides bringing power and fluency to delimbing, the stepless adjustable feeding speed results in unprecedentedly accurate feed to the correct cutting length. The computer controlled pressure adjustment is based on tree diameter ensuring optimal clamping force throughout the feeding; the feed rollers' grip and delimbing power is maximized without wasting energy on unnecessary clamping. For RH and RHS models.

UNIQUE GEOMETRY OF FEEDING ROLLERS
Low friction and excellent traction of feeding rollers in all working conditions saves energy and maximizes performance.

The computer-controlled hydCON length measuring wheel follows the timber surface precisely in all conditions which significantly improves measuring accuracy. When gripping on a new tree the measuring wheel is retracted, substantially facilitating and speeding up picking of trees. For 18, 20, 25, 28 and 30 RH/RHS models.

AUTOMATIC CHAIN TIGHTENER
RH and RHS models.

JPS RS500 SAW
for 18-25RH/RHS models.

STUMP TREATMENT DEVICE
RH and RHS models.

EXCELLENT SERVICEABILITY
Special attention has been paid for ease and convenience of daily maintenance. Thanks to the spacious structure of the KESLA heads, for example lubrication and change of hoses are easy to do.
KESLA harvesters have been designed to withstand extreme conditions. The market’s best materials and components, combined with high quality and superior design, ensure the harvesters’ reliability and ease of servicing.

The standard equipment of KESLA harvesters have been carefully thought out. For example the proportional feed control that is already standard in all RH and RHS models makes the delimbing efficient and fluent, and feeding stops precisely to the desired cutting length. The proCON and hydCON features, as well as a broad range of other additional accessories, can be added to further enhance the harvesters’ efficiency and suitability to the customer’s needs and working conditions.

The range of accessories also includes a comprehensive range of rotators as well as feed rollers designed for different conditions.

**EXEMPLARY MEASURING ACCURACY**
Diameter measuring carried out with front knives is accurate in all working conditions. Sensors of the system are well protected against twigs, snow, ice etc.

**EUCApro**
The EUCApro has been developed specifically for the efficient cutting and debarking of eucalyptus trees. The accessory package includes feeding rollers and delimbing knives specifically designed for eucalyptus tree, as well as special software for measuring computer. For 25, 28 and 30 RH/RHS models.

**MULTI-STEM PROCESSING**
Effective multi-stem functions carried out with intelligent control logics, without expensive and heavy hardware.

**TOPPING SAW**
For 20, 25, 28 and 30 RH/RHS models.

**COLOR MARKING DEVICE**
RH and RHS models.

The most ingenious double cutting system at the market combines maintenance-free cutting knife for small trees and unbeatable performance of chain saw for larger trees. For 16, 20 and 25 RH/RHS models.

**WIDELY RANGE OF CONTROL AND MEASURING SYSTEMS**
The KESLA harvester heads are compatible with the common control- and measuring systems at the market.
The KESLA 20RH-II and 20RHS-II are fast and agile heads for thinning and final fellings where the trees’ average diameter is less than 30 cm. The head’s maximum opening is 45 cm. Considering their size class, these lightweight yet sturdily constructed harvester heads provide exceptionally powerful feeding and sawing forces. Thanks to the 4 deliming knives, the picking properties and delimming quality are excellent. Additional accessories include the proCON and hydCON features as well as color marking device, automatic chain tightener and stump treatment device. The KESLA 20RH-II and 20RHS-II heads can be equipped also for productive biomass harvesting with the unique KESLA proAX-cutting system and multi-stem functions.

The KESLA 20RH-II and 20RHS-II suit 8-13 ton wheeled harvesters and excavators.

<table>
<thead>
<tr>
<th>TECHNICAL SPEC. 20RH-II</th>
<th>20RHS-II</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width, head open</strong></td>
<td>1150 mm 45 1/3&quot;</td>
</tr>
<tr>
<td><strong>Width, head closed</strong></td>
<td>900 mm 35 1/29&quot;</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>1290 mm5 4&quot;</td>
</tr>
<tr>
<td><strong>Height (without rotator)</strong></td>
<td>1220 mm 8&quot;</td>
</tr>
<tr>
<td><strong>Weight (without rotator)</strong></td>
<td>610 kg 345 lbs</td>
</tr>
<tr>
<td><strong>Chain saw</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. cutting diameter</strong></td>
<td>520 mm 35 1/2&quot;</td>
</tr>
<tr>
<td><strong>Guide bar length</strong></td>
<td>20&quot;</td>
</tr>
<tr>
<td><strong>Saw motor displacement</strong></td>
<td>19 cc</td>
</tr>
<tr>
<td><strong>Feeding</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2 rollers synch.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2 rollers synch.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2 rollers synch.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2 rollers synch.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. opening of rollers</strong></td>
<td>50 mm 18&quot;</td>
</tr>
<tr>
<td><strong>Feed force</strong></td>
<td>19 kN 4,270 lb s</td>
</tr>
<tr>
<td><strong>Deliming</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Knives</strong></td>
<td>4 moving+ 1 fixed</td>
</tr>
<tr>
<td><strong>Diameter tip-to-tip</strong></td>
<td>330 mm 13&quot;</td>
</tr>
<tr>
<td><strong>Front knives max. opening</strong></td>
<td>480 mm 9&quot;</td>
</tr>
<tr>
<td><strong>Rear knives max. opening</strong></td>
<td>520 mm 20&quot;</td>
</tr>
<tr>
<td><strong>Hydraulic requirements</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operating pressure</strong></td>
<td>210-240 bar</td>
</tr>
<tr>
<td><strong>Flow required</strong></td>
<td>170-200 l/min 45-53 gpm (US)</td>
</tr>
<tr>
<td><strong>Power required</strong></td>
<td>60-80 kW 80-107 hp</td>
</tr>
<tr>
<td><strong>Crane recommendation</strong></td>
<td>KESLA 13H and 16H-series parallel crane s</td>
</tr>
</tbody>
</table>

The values provided by the manufacturer are indicative. Kesla reserves the right to make changes. The harvesters shown may have additional accessories.
Control system with a state of the art control and measurement accuracy

- 7" wide screen
- Clear production reports, easy to save in the internal SD memory or USB memory stick in the form of a PDF file
- Easy to use user interface, controlled by six control buttons, with a standard USB keyboard or a mouse
- StandforD 2010-compliant (with limitations):
  - Import of the data on timber species and the work site from the APT file
  - Storage of production and calibration files into standard files (PRD, PRI, HPR)
- Thanks to comprehensive adjustment possibilities, high output in all conditions. All adjustment values and settings can be downloaded and saved to a file.
- Fully localized user interface in most languages (incl. English, German, Russian, Spanish, Japanese)

Great computing power enables precise control of the grapple functions:
- Fast and instantaneous operations
- Quick dimensional search and bucking
- Higher productivity
- A more detailed measurement

The all-new innovative bucking optimization (length class prioritization)
- Higher productivity
- Higher value of the timber

Optional
- Elegant and finished mounting kit for easy installation
- Various joystick options (e.g., SureGrip and KESLaGrip)
- Electronic measuring calliper for calibration
- Printer

xLogger is in addition to the above also fully StandforD 2010-compatible and equipped with a 12 "touch screen and a value and distribution bucking.

KESLa-harvester heads are also compatible with Motomit-, Epec- and Dasa measuring devices. Fitting is also possible, under certain conditions, with Optical, TimberMatic and Komatsu Maxi measuring devices.