The multitalent in harvester technology

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 harvesting.

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 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.

 Superior durability and performance

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.

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 forwards
- harvester accessories for excavators

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

EUGAPRO
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 trees, 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 30RH/RHS models.

COLOR MARKING 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.

STUMP TREATMENT DEVICE
RH and RHS models.

STUMP TREATMENT DEVICES
RH and RHS models.

WIDE RANGE OF CONTROL AND MEASURING SYSTEMS
The Kesla harvester heads are compatible with the common control- and measuring systems at the market.
The Kesla 18RH and 18RHS are genuine powerhouses when it comes to thinning. The feeding and sawing forces are exceptionally high compared to the head’s weight. 18RH and 18RHS are at their best in thinning where the trees’ average diameter is less than 25 cm. The head’s maximum opening is 40 cm.

Kesla 16RH is the market’s lightest professional harvester head equipped with four delimbing knives and multi-stem functions. It’s specially designed for integrated harvesting of timber and biomass. Professional multi-stem functions and the unique ProAX-cutting systems are unequalled features in this size- and weight class. The 16RH and 16RHS are real powerhouses for thinning, suited to 6-10 tons wheeled harvesters and tractors.

Kesla 16RHS is the market’s lightest professional harvester head equipped with four delimbing knives and multi-stem functions. It’s specially designed for integrated harvesting of timber and biomass. Professional multi-stem functions and the unique ProAX-cutting systems are unequalled features in this size- and weight class. The 16RH and 16RHS are real powerhouses for thinning, suited to 6-10 tons wheeled harvesters and tractors.

TECHNICAL SPEC. 16RH 16RHS

<table>
<thead>
<tr>
<th>Width, head open</th>
<th>1,040 mm</th>
<th>41&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width, head closed</td>
<td>830 mm</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Length</td>
<td>1,110 mm</td>
<td>44 1/2&quot;</td>
</tr>
<tr>
<td>Height (without rotator)</td>
<td>1,110 mm</td>
<td>44 1/2&quot;</td>
</tr>
<tr>
<td>Weight (without rotator)</td>
<td>445 kg</td>
<td>980 lbs</td>
</tr>
</tbody>
</table>

Chain saw

- Max cutting diameter: 450 mm 18" 450 mm 18"
- Guide bar length: 18" 18" 18" 18"
- Saw motor displacement: 19 cc 19 cc 10 cc 10 cc
- Max. opening of rollers: 350 mm 13.7" 350 mm 13.7"
- Feed force: 16 kN 3,600 lbs 13 kN 3,600 lbs

Delimbing

- Knives: 4 moving+ 1 fixed 4 moving+ 1 fixed 4 moving+ 1 fixed 4 moving+ 1 fixed
- Diameter tip-to-tip: 330 mm 13" 330 mm 13"
- Front knives max. opening: 480 mm 19" 480 mm 19"
- Rear knives max. opening: 500 mm 20" 500 mm 20"

Sawing functions

- Flow required: 150-170 l/min 40-45 gpm (US) 120-150 l/min 32-40 gpm (US)
- Power required: 65-80 kW 87-115 hp 50-65 kW 67-87 hp

Crane recommendation: Kesla 671H parallel crane

The values provided by the manufacturer are indicative. Kesla reserves the right to make changes.

The harvesters shown may have additional accessories.
The harvesters shown may have additional accessories. The values provided by the manufacturer are indicative. Kesla reserves the right to make changes.

### Tech Spec

#### 20RH-II
- **Width, head open**: 1,150 mm<br> 45 1/3"  1,150 mm 45 1/3"
- **Width, head closed**: 900 mm<br> 35 1/2"  900 mm 35 1/2"
- **Length**: 1,290 mm<br> 50"  1,290 mm 50"
- **Height (without rotor)**: 1,220 mm<br> 48"  1,220 mm 48"
- **Weight (without rotor)**: 610 kg<br> 1,345 lbs 610 kg 1,345 lbs

#### 20RHS-II
- **Front knives max. opening**: 600 mm<br> 23 3/4"  600 mm 23 3/4"
- **Rear knives max. opening**: 680 mm<br> 26 3/4"  680 mm 26 3/4"

#### Hydraulic requirements
- **Operating pressure**: 210-240 bar<br> 3,045-3,540 psi  210-240 bar 3,045-3,540 psi
- **Flow required**: 170-200 l/min<br> (gpm) 45-53 gpm (US)  135-160 gpm  36-42 gpm 5-0 psi
- **Power required**: 60-80 kW<br> 80-115 hp 60-80 kW 80-115 hp

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**Features**
- **Color marking device**
- **Automatic chain tightener**
- **Stump treatment device**
- **Color marking device**
- **Automatic chain tightener**

---

Kesla 20RH-II and 20RHS-II are fast and agile heads for thinning and final felling 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 delimbing knives, the picking properties and delimbing quality are excellent. Additional accessories include the ProCon, HydCon and EucaPro features as well as color marking device, automatic chain tightener as well as stump treatment device. The 20RH-II and 20RHS-II can be equipped also for productive biomass harvesting with the unique Kesla ProAX cutting system and multi-stem functions. Kesla 25RH-II and 25RHS-II are best suited to 12-20 ton base machines. The 25RHS-II has been designed especially for use with excavators.

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### Tech Spec

#### 25RH-II
- **Width, head open**: 1,350 mm<br> 53"  1,350 mm 53"
- **Width, head closed**: 980 mm<br> 38 1/2"  980 mm 38 1/2"
- **Length**: 1,400 mm<br> 55"  1,400 mm 55"
- **Height (without rotor)**: 1,350 mm<br> 53 1/2"  1,350 mm 53 1/2"
- **Weight (without rotor)**: 840 kg<br> 1,850 lbs 840 kg 1,850 lbs

#### 25RHS-II
- **Max. cutting diameter**: 670 mm<br> 26 1/4"  670 mm 26 1/4"
- **Guide bar length**: 22 1/2"  22 1/2"  22 1/2"  22 1/2"
- **Saw motor displacement**: 19 (30) cc<br> 19 (30) cc 19 cc 30 cc

#### Hydraulic requirements
- **Operating pressure**: 210-240 bar<br> 3,045-3,675 psi  210-240 bar 3,045-3,675 psi
- **Flow required**: 200-250 l/min<br> (gpm) 53-65 gpm (US)  170-210 gpm  45-55 gpm (US)
- **Power required**: 75-100 kW<br> 100-135 hp 75-100 kW 100-135 hp

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**Features**
- **Color marking device**
- **Automatic chain tightener**
- **Stump treatment device**
- **Color marking device**
- **Automatic chain tightener**

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The Kesla 20RH-II and 20RHS-II are fast and agile heads for thinning and final felling 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 delimbing knives, the picking properties and delimbing quality are excellent. Additional accessories include the ProCon, HydCon and EucaPro features as well as color marking device, automatic chain tightener as well as stump treatment device. The 20RH-II and 20RHS-II can be equipped also for productive biomass harvesting with the unique Kesla ProAX cutting system and multi-stem functions. Kesla 25RH-II and 25RHS-II are best suited to 12-20 ton base machines. The 25RHS-II has been designed especially for use with excavators.

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**Features**
- **Color marking device**
- **Automatic chain tightener**
- **Stump treatment device**
- **Color marking device**
- **Automatic chain tightener**
Kesla 28RH is based on experiences of 30RH, well-known as strong and reliable head for most demanding conditions. The 28RH and 30RH heads are sturdily constructed for heavy-duty final felling where trees' average diameter can be as large as 50 cm. These heads suit perfectly also to processing on landing as well as debarking of eucalyptus. The mechanically synchronized 4-motor drive of the 30RH and 30RHS provides plenty of power for processing of even the most robustly branched trees. The 2-motor driven 28RH and 28RHS are equipped with totally new hydraulic anti-slip system, providing feeding power and speed at incredible operating efficiency and fuel economy. The heads can be equipped with ProCon-hydraulics, HydCon-measuring wheel and EucaPro-package as well as color marking, stump treatment and automatic chain tighter among others. The 30RH and 30RHS are made for 18 - 25 tons excavators, while the lighter 28RH and 28RHS fit to heavy wheeled harvesters and 17 - 22 tons excavators. 

<table>
<thead>
<tr>
<th>TECHNICAL SPEC.</th>
<th>28RH</th>
<th>28RHS</th>
<th>30RH</th>
<th>30RHS</th>
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<tr>
<td>Width, head open</td>
<td>1,725 mm</td>
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<td>Width, head closed</td>
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<tr>
<td>Height (without rotator)</td>
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<tr>
<td>Chain saw</td>
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<td>670 (750) mm</td>
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<tr>
<td>Guide bar length</td>
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<td>25 (28&quot;)</td>
<td>25 (28&quot;)</td>
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<td>Saw motor displacement</td>
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<td>25 (28&quot;)</td>
<td>25 (28&quot;)</td>
<td>25 (28&quot;)</td>
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<td>Max. opening of rollers</td>
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<tr>
<td>Feed force</td>
<td>30 kN</td>
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<td>25 kN</td>
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<tr>
<td>Delimbing</td>
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<td>480 mm</td>
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<tr>
<td>Diameter tip-to-tip</td>
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<td>281 mm</td>
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<td>240-270 bar</td>
<td>240-270 bar</td>
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<td>Flow required</td>
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<td>250-300 l/min</td>
<td>250-300 l/min</td>
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<tr>
<td>Power required</td>
<td>120-150 kW</td>
<td>120-150 kW</td>
<td>120-150 kW</td>
<td>120-150 kW</td>
</tr>
</tbody>
</table>

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Optional Equipment

- Standard equipment
- Optional equipment
- Not available

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Leading stroke harvester technology

As the leader of stroke harvester market, Kesla has brought the technology of stroke heads to totally new level. The Kesla SH-stroke heads include lots of features and components previously known from the roller heads. For example the control- and measuring system are similar.

The stroke technology results in substantial delimbing force achieved with minimum hydraulic requirements. Kesla stroke harvesters particularly suit excavator bases. At their best they supply the raw delimbing power required for the harvesting of trees with robust branches; on the other hand are also able to process valuable special trees gently. Thanks to the huge delimbing power reversing feed is never needed, making actual delimbing speed unbeatable when processing robustly branched trees.

The unique prostroke partial stroke feed facilitates the delimbing of even crooked trees. Thanks to their excellent features for picking of trees and very wide movement angle of the tilt, the Kesla stroke harvesters excellently suit the cut-to-length harvesting of standing trees as well as the processing on landing as a part of tree length logging chain.

The Kesla 25SH stroke harvester is at its best when processing robustly branched trees – standing or in piles - requiring substantial delimbing force. The stroke technology ensures that the tree’s surface is not damaged, facilitating the gentle handling of valuable timber. The 25SH suits cut-to-length harvesting of standing trees as well as the processing on landing. The optimum tree diameter is 40 cm.

The unique, combined middle feeding jaws and delimbing knives give even more force to handle heavy trees and improve delimbing quality. Thanks to the prostroke partial stroke function, even delimbing of crooked trees is efficient. The Kesla 25SH suits 10-15 ton base machines.

The Kesla 20SH stroke harvester is particularly well suited to the effective processing of robustly branched trees, either standing or in piles. Processing of valuable special trees without damaging timber surface is also easy with this harvester head. Thanks to the prostroke partial stroke function, even the delimbing of crooked trees is efficient. The optimum diameter of trees is 25 cm. The Kesla 20SH suits 7-13 ton base machines.

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