Superior forest machinery expertise

Kesla Oyj is a strong forest technology innovator with more than 55 years of experience in manufacturing high-quality Finnish forest machinery. The KESLA product family covers all work stages in timber harvesting and handling. In addition to timber harvesting and forestry, KESLA products are also used in energy production and the recycling industry along with ports and ships. KESLA products are exported to over 35 countries worldwide.

For over 35 years, Kesla has been a global pioneer in providing forest equipment for tractors. Kesla products sold under the PATU trademark have been the global market leader since the early 1980s. Kesla has developed a large selection of timber loaders, timber trailers and accessories that make it easy to equip a tractor for efficient timber harvesting. Kesla has great solutions for both heavy professional users and forest owners harvesting their own timber.

Kesla is the only manufacturer in the world that can bring its experience in heavy-duty timber truck cranes, forest machine cranes and industrial cranes to the world of tractor-mounted loaders and trailers. This experience shows in the superior features and durability of the products and in the manufacturer’s ability to listen to and serve the customer over the product’s entire service life.

KESLA products are a combination of cutting-edge technology and the highest quality of components and materials. During manufacture, each KESLA product passes through a rigorous international quality assurance programme as well as practical performance and safety tests. Product details are carefully considered and designed for the needs of customers, raising efficiency and reliability to a league of its own. The large product selection and comprehensive range of optional accessories, makes it possible to provide customers with customised solutions that are sure to meet their needs. Since durability and a long service life are focal points in Kesla’s design work, customers are guaranteed uninterrupted working and superior resale value.

Kesla is a pioneer in tractor-mounted timber loaders and timber trailers and a global leader with over 30 years of experience.
Solid strength and reach

All KESLA loaders are designed for efficiency and usability as well as working safety. Each loader is a combination of solid strength, reach and agility. In practice, this is demonstrated in the precision, comfort and power of the work: the loader responds to the controls almost like it is reading the driver’s mind. Many of the structural solutions used in the loaders are based on heavy-duty professional cranes used in trucks and forest machines, which makes KESLA an extraordinarily durable and reliable partner for forest work.

THE WIDEST RANGE OF LOADERS
KESLA’s loader range has a solution for every purpose and for all conditions. The carefully designed standard equipment can be further enhanced with the widest range of accessories on the market.

SUPERIOR CONTROLLABILITY
The usability of loaders is the key to efficiency. The controllability of KESLA loaders can be further enhanced with a large selection of control valves ranging from mechanical to hydraulic electro-hydraulic control systems equipped with driver-specific adjustment options.
CAREFULLY CONSIDERED SOLUTIONS
Kesla’s strong expertise is based on decades of experience all around the world with both tractor equipment and heavy-duty truck cranes and forest machine cranes. One example of solid structural solutions is the cast, oil-bath slew mechanism used in all models that forms the foundation for the loaders’ long service life.

PROFESSIONAL GRAPPLES
Kesla’s new ProG grapple line now covers the entire KESLA loader range from the smallest tractor-mounted loader to the most powerful truck crane models. Only KESLA can also bring true professional expertise to the tractor loader size class.
The KESLA 200 Series offers a wide and practical range of loaders equipped with advanced features that take the needs of users into account. The models in the series are sturdy and reliable loaders that enable ergonomic and smooth productiveness.

The loaders can be fitted with hydraulic stabiliser legs. The installation can be made to tractors’ rear platform, above the trailer or with 3-point attachment. KESLA 200 Series loaders can be fitted with a wide range of accessories, such as hydraulic or electric pilot control, a radio-controlled winch and excavation accessories.

The 200 Series for reliable timber harvesting
<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th>211</th>
<th>202</th>
<th>202T</th>
<th>203</th>
<th>203T</th>
<th>204T</th>
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<tr>
<td>Outreach</td>
<td>5,00 m</td>
<td>5,00 m</td>
<td>6,15 m</td>
<td>5,30 m</td>
<td>6,70 m</td>
<td>6,80 m</td>
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<tr>
<td>Boom extension</td>
<td>-</td>
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<td>1,20 m</td>
<td>-</td>
<td>1,40 m</td>
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<td>Lifting torque (net, 4 m)</td>
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<td>Slewing torque</td>
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<td>8,0 kNm</td>
<td>8,0 kNm</td>
</tr>
<tr>
<td>Grapple</td>
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<td>proG20</td>
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<td>proG20</td>
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<tr>
<td>-area</td>
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<td>124 cm</td>
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<tr>
<td>Rotator</td>
<td>CR300 / 750 Nm</td>
<td>CR300 / 750 Nm</td>
<td>CR300 / 750 Nm</td>
<td>CR300 / 750 Nm</td>
<td>CR300 / 750 Nm</td>
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<tr>
<td>Working pressure</td>
<td>175 bar</td>
<td>175 bar</td>
<td>175 bar</td>
<td>175 bar</td>
<td>175 bar</td>
<td>190 bar</td>
</tr>
<tr>
<td>Recommended oil flow **</td>
<td>25-40 l/min</td>
<td>25-40 l/min</td>
<td>30-50 l/min</td>
<td>30-50 l/min</td>
<td>30-50 l/min</td>
<td>30-60 l/min</td>
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<tr>
<td>Weight ***</td>
<td>810 kg</td>
<td>835 kg</td>
<td>900 kg</td>
<td>950 kg</td>
<td>1 030 kg</td>
<td>1 095 kg</td>
</tr>
</tbody>
</table>

* Lifting capacity without grapple or rotator. The loader's lifting capacity depends on the boom's elevation and reach.
** Recommended oil flow depends on valve choice.
*** The weight of machines in the 200 series includes the grapple, rotator, link, mechanical valve and A-frame.
The 300 Series is the professional’s choice

The design of the heavy-duty 300 Series has taken the efficiency and reach requirements of professional timber harvesting into account. The loaders are equipped with a wide-angle joint that improves loading in the immediate vicinity of the trailer and maintains the power of the transfer boom evenly over its entire working range. All 300 Series loaders come with a durable, cast and oil-bath 4-cylinder slew mechanism that gives plenty of slewing power.

KESLA 300 Series loaders can be installed on the tractor’s rear axle or on the trailer. The loaders come with extensive standard features and can be fitted with a wide range of accessories, such as hydraulic or electric pilot control, working lights, special colours and several options for stabiliser legs and grapples.
FOR HYDRAULIC PUMP

Standard 670 cm²
With optional plate 2000 cm²

TOLEROIMATTOMAT MITAT: Lastuava työstö ISO 2768-m,  Hitsatut rakenteet EN ISO 13920-B

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24.11.2014 JKO

303, 304, 305, 316

TUKIJALKA

TELESCOPE

339.8

29.05.2015 JKO

Pois lisäanturat ja kulmanipat. Asennuskorkeus ja maavara muuttuneet. A

4792

300

2019

1726

2134

3812

1405

410

10 x 24.5

350

350

175

175

60

60

2 x 24.5

175

175

60

60

2 x 24.5

175

175
Loaders for demanding conditions

Kesla’s powerful forest machine cranes are suited to diverse professional use. These cranes can be used anywhere in the world, even in the most demanding conditions and at the most challenging sites. Installation options include rear axle of heavy-duty tractors, chipper feeds, forest machines and fixed installations at industrial facilities. KESLA 500 and 500T models can be installed on the beam of 12-tonne KESLA timber trailers.

KESLA 500Z is the smallest member of the Z crane family and ideal for tractor installation. The transport position of the Z model gives freedom for installation and its space requirements are minimal. 500Z can be installed on the beam of KESLA trailers starting from the 92, and its transport position makes it ideal for installation on the beam of various tipper trailers.

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>500</th>
<th>500T</th>
<th>600</th>
<th>600T</th>
<th>700</th>
<th>700T</th>
<th>500Z</th>
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<tbody>
<tr>
<td>Outreach</td>
<td>6,50 m</td>
<td>8,80 m</td>
<td>8,20 m</td>
<td>10,30 m</td>
<td>8,20 m</td>
<td>10,30 m</td>
<td>5,70 m</td>
</tr>
<tr>
<td>Boom extension</td>
<td>1,20 m</td>
<td>2 x 1,70 m</td>
<td>2,05 m</td>
<td>2 x 2,05 m</td>
<td>2,05 m</td>
<td>2 x 2,05 m</td>
<td>1,20 m</td>
</tr>
<tr>
<td>Lifting torque (net, 4 m)</td>
<td>47 kNm</td>
<td>41 kNm</td>
<td>60 kNm</td>
<td>53 kNm</td>
<td>70 kNm</td>
<td>64 kNm</td>
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<td>Lifting torque (max, 4 m)</td>
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<td>80 kNm</td>
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<td>95 kNm</td>
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<td>Lifting capacity at max outreach*</td>
<td>1,75 kg</td>
<td>1,050 kg</td>
<td>1,600 kg</td>
<td>1,350 kg</td>
<td>1,800 kg</td>
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<td>705 kg</td>
</tr>
<tr>
<td>Boom torque</td>
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<td>16 kNm</td>
<td>24 kNm</td>
<td>24 kNm</td>
<td>24 kNm</td>
<td>24 kNm</td>
<td>7,1 kNm</td>
</tr>
<tr>
<td>Grapple proG26</td>
<td>proG26</td>
<td>proG26</td>
<td>proG26</td>
<td>proG26</td>
<td>proG26</td>
<td>proG26</td>
<td>proG26</td>
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<tr>
<td>Grapple proG26</td>
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<td>0,24 m²</td>
<td>0,24 m²</td>
<td>0,24 m²</td>
<td>0,18 m²</td>
</tr>
<tr>
<td>Grapple proG26</td>
<td>132 cm</td>
<td>132 cm</td>
<td>132 cm</td>
<td>132 cm</td>
<td>132 cm</td>
<td>132 cm</td>
<td>132 cm</td>
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<tr>
<td>Working pressure</td>
<td>190</td>
<td>190</td>
<td>220</td>
<td>220</td>
<td>190</td>
<td>190</td>
<td>210</td>
</tr>
<tr>
<td>Recommended oil flow** constant volume:</td>
<td>60-80 l/min</td>
<td>60-80 l/min</td>
<td>70-90 l/min</td>
<td>70-90 l/min</td>
<td>80-100 l/min</td>
<td>80-100 l/min</td>
<td>30-50 l/min</td>
</tr>
<tr>
<td>Load-sensing system</td>
<td>140-160 l/min</td>
<td>140-160 l/min</td>
<td>140-160 l/min</td>
<td>140-160 l/min</td>
<td>150-170 l/min</td>
<td>150-170 l/min</td>
<td>-</td>
</tr>
<tr>
<td>Weight ***</td>
<td>970 kg</td>
<td>1,150 kg</td>
<td>1,425 kg</td>
<td>1,610 kg</td>
<td>1,445 kg</td>
<td>1,630 kg</td>
<td>960 kg</td>
</tr>
<tr>
<td>Trailer recommendation</td>
<td>KESLA 122H/HD/ND 12MD/MDH</td>
<td>On the rear platform of heavy-duty tractors, forest tractors, fixed installations</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Lifting capacity without grapple or rotator. The loader’s lifting capacity depends on the boom’s elevation and reach.
** Recommended oil flow depends on valve choice.
*** Weight of booms of 500-800 Series machines

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KESLA 500-800 Series loaders are designed for demanding conditions. They are suitable for professional use and can be used in various environments, from heavy-duty tractors to forest machines and fixed installations at industrial facilities. KESLA 500 and 500T models can be installed on the beam of 12-tonne KESLA timber trailers, while KESLA 500Z is the smallest member of the Z crane family and ideal for tractor installation. The transport position of the Z model gives freedom for installation and minimizes space requirements. 500Z can be installed on the beam of KESLA trailers starting from the 92, and its transport position makes it ideal for installation on the beam of various tipper trailers.

---

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Kesla also offers a comprehensive range of products for fitting tractors for efficient chipping

KESLA C645 and C1060 are effective drum chippers for professional chipping. Due to their modular structure, they can be equipped with appropriate features to satisfy the user's requirements (depending on model): one- or two-axle base, drive, 16 m³ container, various crane options. For more detailed information, see the chipper brochure.

Kesla's selection of grapples and harvester heads includes solutions for equipping a tractor as an effective harvester. For more detailed information, see the harvester brochure.
Kesla equips tractors with effective and versatile solutions. In addition to the comprehensive and carefully considered standard equipment, Kesla also offers a wide range of accessories that provides a productive solution for all requirements.

**KESLA WOOD GRAPPLES proG20/25/26/28/30**
Kesla’s grapples collect industrial and energy wood effectively regardless of location, whether it be the northern coniferous forest zone or a eucalyptus plantation in the south. The grapple jaws effortlessly penetrate woodpiles and straighten out crossed logs. Picking up individual logs without soil is easy.

**ENERGY WOOD GRAPPLE KESLA PROG 25E/26E/25P/30E**
Kesla’s energy wood grapples have been designed to handle mixed wood mass. Their broad and sturdy structure makes for smooth working, and extraneous materials do not get mixed in with wood mass. The grapples are excellent for energy wood handling and chipper feeding.

**KESLA MATERIAL GRIPPER**
Mounted on KESLA timber grapples, the material gripper is well suited to the handling of chopped firewood, rocks, tree stumps, fresh feed, dry hay and other similar materials.

**KESLA GRAVEL BUCKET**
Mounted on KESLA timber grapples, the gravel bucket is suitable for loading soil or clearing ditches. Connecting and disconnecting the bucket is quick and easy.

**KESLA BALE CLAWS**
KESLA bale claws suit KESLA proG25 and proG26 wood grapplers. They allow the moving of round bales without breaking the protective plastic covering.

**FELLING HEAD KESLA 19GX**
The KESLA 19GX felling head is designed for felling and loading energy wood. Its straightforward structure and operating principle make it extremely dependable. Switching the felling head in the loader is quick since no additional hosing or wiring is required. An ingenious tilt function is integrated into the device, letting the operator decide when the tree falls. The felling head’s blade is easy to switch off, after which the head can be used for loading just like a normal grapple. KESLA 19GX is used with the KESLA 200–500 Series loaders.
WORKING LIGHTS
KESLA loader’s boom or pillar can be fitted with working lights. Thanks to the powerful working lights, working without daylight is not a problem.

KESLA EXCAVATION ACCESSORIES (FOR MODELS 211–203T)
Excavation accessories turn a KESLA loader into a versatile and effective excavator, expanding a tractor’s functional capabilities in agriculture as well as forestry. No special tools are required when attaching the excavation accessories. Options include a V bucket and drain bucket.

KESLA 300X -grapple is suitable for loaders with lifting torque of 10-45 kNm (KESLA 211-305T). It is excellent grapple for handling firewood, soil, hay, bales, branches - just to mention few possibilities. The wide jaw takes e.g. 0.3 m³ of firewood.

TECHNICAL SPECIFICATIONS 300X
Max opening 1 370 mm
Jaw force 80 kN
Max operating pressure 210 bar
Recommended oil flow 30–60 l/min
Max. load/jaw 300 kg
Weight 120 kg

KESLA WINCH K1400
KESLA winch significantly increases a loader’s reach. A radio-controlled control system facilitates, for example, the dragging of tree trunks at distances of up to 40 metres. Precise radio-control ensures that working the winch is safe. The KESLA winch is also extremely useful in felling trees at difficult and dangerous places. All KESLA 200 and 300 Series loaders are prepared for winch installation as part of the standard delivery.

TECHNICAL SPECIFICATIONS K1400
Weight 45 kg
Pulling force 1400 kg/175 bar
Pulling speed 27 m/min
Wire diameter/length 6 mm/40 m

STROKE DELIMITER KESLA 40LF AND 40 LF e
The KESLA 40 LF/e stroke delimber combined with a KESLA loader is an efficient and reliable tool for delimbing, cutting and stacking timber. KESLA 40 LF/e can be installed on the A support leg of KESLA 200 series loaders, KESLA forest trailers, or a three-point lifting device on a tractor. The control valve of the 40 LF/e is integrated into the stroke delimber, and the controls can be handled from the tractor cabin using a single joystick. This facilitates installation and provides a significant improvement to work ergonomics.

TECHNICAL SPECIFICATIONS 40LF/e
Delimbing diameter 350 mm
Cutting diameter 400 mm
Feed cylinder stroke 1000/1250 mm
Delimbing power, pressure 210 bar
Cylinder diameter 40 mm 25.8 kN
Cylinder diameter 50 mm 40.8 kN
Delimbing speed, cylinder out (50 l/min) 0.66 m/s
Cylinder diameter 50 mm 0.44 m/s
Delimbing speed, cylinder in (50 l/min) 1.20 m/s
Slewing angle 260 °
Slewing torque 1100-2200 Nm

Hydraulic saw
Saw chain 404 4"
Saw plate length 16 "
Feed speed (50 l/min) 38 m/s
Power, pressure 175 bar 12 kW
Weight kg 540 kg

Pump recommendation
Output 50-60 l/min
Working pressure 175-210 bar
Power requirement 16-18 kW

ADDITIONAL HYDRAULIC UNIT
An additional hydraulic unit can be installed on the KESLA forestry trailer or loader that will enable more efficient work, even without the hydraulics of the tractor. The additional hydraulics unit gives power both to the loader as well as to the traction of the forest trailer. Also available is an additional hydraulic, LS, which is installed inside the support legs on the drawbar of the 102 or 122 trailers.

TOP SEAT EQUIPMENT
Installed on the loader’s pillar, top control equipment gives the driver an open field of vision for demanding work.

STABILISER LEG OPTIONS
Kesla offers a range of stabiliser legs that will provide your combination with real stability. Durable stabiliser legs offer reliable operation.

A-telecopic HD-Flapdown Flapdown
The right control system increases effectiveness and comfort of use

Selecting the right control system ensures that the loader and trailer will work together effectively and reliably. Components made by the sector’s leading valve manufacturers form the basis for Kesla’s control systems. From KESLA’s extensive range, you can choose the mechanical, hydraulic or electrohydraulic control valves that best satisfy the requirements set by the nature of the work, the output and pressure of the tractor’s hydraulics, and the loader-trailer combination. Connecting and disconnecting a loader equipped with a pilot control valve and a tractor is easy and effortless.

KESLA proC CONTROL SYSTEM
The new KESLA proC control system is suitable for controlling loaders and cranes with most electronic control valves. Any current controlled electric control valve, such as Parker or Walvoil can be used as the control valve. The new control system is very convenient to use due to its individually adjustable operating speeds and quick response time. Individual settings can be saved for several people. A new type of joystick is ergonomically designed and the control system itself has many user-friendly features.

MECHANICAL CONTROL VALVE RS-217, RS-218
KESLA loaders can be fitted with mechanical control valves. The valve structure and the smooth movements of the twin-joystick system enhance the controls’ effectiveness, precision and sensitivity.

MECHANICAL CONTROL VALVE WALVOIL ON/OFF
The mechanical twin-joystick control valve is also available with an electric on/off control for grapple and extender.

HYDRAULIC PILOT CONTROL WALVOIL
Hydraulic pilot control facilitates the hydraulic control of main functions such as the lifting and outer boom, rotator and slew mechanism. The control of the grapple, extender boom and stabiliser legs are electrohydraulic. The solution achieves excellent ergonomics as well as smoothness and precision for the controls.

ELECTROHYDRAULIC PILOT CONTROL WALVOIL, DANFOSS PVG32 AND PARKER L90LS
Electrohydraulic pilot control facilitates the effective simultaneous utilisation of separate control functions. Control independent of the loading brings precision and power to individual functions. Electrohydraulic pilot control enables diverse function-specific adjustment settings and, depending on the system, also saves driver-specific control and adjustment settings. Installing the pilot control joysticks in the tractor seat arm rests improves ergonomics and productivity.
### After-sales service and support

Kesla strongly invests in the continuous development of spare parts and maintenance services and the service level of authorised sales locations and service centres worldwide. The eKESLA online after-sales service facilitates easy ordering of spare parts and quick handling of warranty claims.

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### KESLA LOADER ACCESSORIES AND OPTIONAL EQUIPMENT

<table>
<thead>
<tr>
<th>Installation options</th>
<th>LOADERS</th>
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<th>304T</th>
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<th>305T</th>
<th>316/T</th>
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<th>500T</th>
<th>500Z</th>
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<td>on the rear axle of a tractor</td>
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<tr>
<td>on a tractor’s 3-point hitch device</td>
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</tbody>
</table>

### Valve options

- Mechanical twin-joystick control, RS-217/218
- Mechanical twin-joystick control, electr. on/off for grapple and extender
- Hydraulic pilot control
- Electric pilot control
- ProC control system

### Stabiliser leg options

- Telescopic legs
- Flapdown legs

### Rotators

- CR300
- CR400
- CR500
- Finnrotor CR 600FW
- Indexator GV6F
- Brake link

### Grapple

- KESLA proG20
- KESLA proG25
- KESLA proG26
- KESLA proG28
- KESLA proG25P
- KESLA proG26E

### Accessories

- KESLA hydraulic winch, radio-controlled
- KESLA 19GX energy grapple
- 1/2" hoses for double extender
- Roller guide hose for electric cable
- Working lights
- Material gripper
- Gravel bucket
- Bale claws
- Excavator boom equipment, V bucket and drain bucket
- KESLA K60 additional hydraulic unit
- KESLA LS hydraulic unit
- Specialty colour for loader
- Lift cylinder guard
- Compatible with KESLA 40 LF/e stroke delimber

The values provided by the manufacturer are indicative. Kesla reserves the right to make changes. The products shown may have additional accessories.
KESLA timber trailers are known for their durability

Kesla is the world’s leading manufacturer of timber trailers with over 30 years of experience. Kesla has the largest selection of timber trailers for use with tractors for timber harvesting and transport. The comprehensive selection has a perfect solution for every user.

KESLA timber trailers are made to withstand heavy year-round use, which is why they undergo rigorous quality and safety testing. The stability, load-carrying capacities, drive and terrain handling characteristics of KESLA timber trailers are superb. The trailer’s drive path remains steady and it readily obeys the driver. In demanding timber harvesting, Kesla is the best partner, one famous for its durability.

NEW BUNK STRUCTURE
The new bunk structure of the trailers keeps the posts in the correct position and prevents them from moving up and out of place.

STRONG STRUCTURE
KESLA trailers have a sturdy single-beam frame and strong articulated tow bar, which make the trailer agile and easy to control. The strong stabilizer legs bring added stability to loading, with a choice between telescopic and flap-down legs. Everything you need comes in a compact and easy-to-service package. The load space has been maximised and has good visibility.

DIVERSE TRANSMISSION OPTIONS
KESLA trailers have several transmission options available depending on the model, ranging from simple roller drive to fully mechanical or hydrostatic-mechanical drive and wheel motor drive. KESLA ND, MD and MDH timber trailers can also be fitted with chains or tracks to improve traction and carrying capacity. The combination’s productivity rises to whole new spheres.
VERSATILE BRAKE SYSTEMS
Effective two- and four-wheel brakes increase safety in traffic and challenging terrains. The brakes are hydraulic or pneumatic control.

ARTICULATED TOW BAR
A strong articulated tow bar makes the trailer agile and easy to control.

SCREEN SUPPORTS
The screen supports hold the front posts of the trailer in the correct position and provide good extra support for the front screen.

ROAD-TRAFFIC EQUIPMENT
Road-traffic equipment will get noticed on the roads, and the lights and warning triangle can be easily folded away to protect them from damage in the forest. Safety and comfort of use for the road.
Kesla has the largest selection of timber trailers with 15 models with 8–12 tonne net loadings. KESLA timber trailers offer genuine load-carrying capacity in all conditions. The wide-motion tandem axle, single-beam frame and diverse tyre selection provide excellent handling characteristics in difficult terrain in the summer and winter.

All KESLA timber trailers are equipped with a hydraulic articulated tow bar that improves agility and productivity. In addition to models without drives, Kesla’s selection also includes two- or four-wheel driven timber trailers that are also equipped with hydraulic roller drive or wheel motor drive. Models equipped with mechanical or hydrostatic-mechanical drives are also part of Kesla’s selection. Of course, all KESLA timber trailers can be fitted with brakes.
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<th>82</th>
<th>92</th>
<th>92L</th>
<th>92HD</th>
<th>92LHD</th>
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<th>102H</th>
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<td>1,3-6,3 km/h*</td>
<td>1,3-6,3 km/h*</td>
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</table>

* Drive power depends on the drive method (2/4WD). Drive speed depends on the drive method and oil flow.
Heavy-duty timber trailers

Kesla’s 12-tonne timber trailers have been designed for professional use with even the largest tractors. Their terrain-operating characteristics are exceptional, and the line includes timber trailers with traction capacity of up to 5 tonnes. In difficult conditions, the terrain ability can be improved with chains or tracks. Drive release facilitates faster driving speeds in highway traffic. The mechanical 12MD/MDH trailer can be fitted with hydraulically controlled head rack, frame lock and a rear-axle mounted tow bar.
# Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>122H</th>
<th>122HD</th>
<th>122ND</th>
<th>12MD</th>
<th>12MDH</th>
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<td>± 40 °</td>
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<tr>
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<td>550/45x22.5; 600/50x22.5</td>
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<tr>
<td><strong>Drive power</strong></td>
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<td>1,3-3,0 ton*</td>
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<td><strong>- pressure</strong></td>
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<td><strong>Loader recommendation</strong></td>
<td>KESLA 300 and 500-series loaders</td>
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<td></td>
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</tr>
</tbody>
</table>

* Drive power depends on the drive method (2/4WD). Drive speed depends on the drive method and oil flow.
**Efficient transport with accessories**

**HEAD RACK SUPPORT**
Head rack support ties the front beams and the front screen into one bundle. The head rack firms up when timber bundles are piled against it.

**MOBILE HEAD RACK**
In the most powerful trailer models (12MD/12MDH), the trailer is also available with a hydraulically controlled head rack. The ability to move the head rack enables moving the load’s centre of gravity. The head rack’s travel is 500 mm.

**FRAME EXTENSION**
The frame extension can extend the load space length by 500–1,000 mm. The extension can be fitted with a bunk and posts. The frame extension is extremely useful for energy wood handling.

**EXTRA BUNKS**
An extra bunk and posts increase the sturdiness of the load space and facilitate tidy loads. Extra bunks can be freely added to the frame.

**LOAD SPACE+**
Enlarged load space makes it easier to transport branches and energy wood. The load space increases e.g. in the 92-series with 0.5 m³. Notice that increase of load space does not increase the carrying capacity of the trailer.

**BIOMASS BOX**
Biomassa box converts the forest trailer suitable for transportation of other materials, such as branches, energy-wood or firewood. Available also for load space+.

**LOAD DIVIDERS**
Load dividers facilitate partitioning the load space for different types of timber. Collect all timber along the same skid road.

**DRIVE**
The drive selection is extensive. Hydraulic roller drive, hydraulic wheel motor drive, mechanical and hydrotatic-mechanical drives. There are drives for every purpose. Trailers with wheel motor drive or mechanical or hydrotatic-mechanical drive can also be fitted with anti-ski chains and tracks.

**BRAKES**
KESLA timber trailers can be fitted with an extensive range of brakes, such as two- and four-wheel brakes operating hydraulically or pneumatically.

**TYRE OPTIONS**
KESLA timber trailers can be fitted with a wide range of tyres that has the right tyre for every purpose.

**TOOL BOX**
Tools needed at the site travel handily in the tool box. Available in two versions, mounting either to the head rack or to the loader’s A-frame.

**LIGHT SET**
The light set provides easy lighting on the road. The lights are easy to retract when moving off the road. KESLA-trailer will get noticed also on the road.

**SLOW-MOVING VEHICLE SIGN**
The slow-moving vehicle sign combined with lights provides visibility and safety in traffic.

**RACK FOR GRAPPLE**
KESLA 102- and 122-series trailers can now be equipped with a handy rack for the grapple.

**FRAME EXTENSION**
The frame extension can extend the load space length by 500–1,000 mm. The extension can be fitted with a bunk and posts. The frame extension is extremely useful for energy wood handling.

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An extra bunk and posts increase the sturdiness of the load space and facilitate tidy loads. Extra bunks can be freely added to the frame.

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**BIOMASS BOX**
Biomassa box converts the forest trailer suitable for transportation of other materials, such as branches, energy-wood or firewood. Available also for load space+.

**LOAD DIVIDERS**
Load dividers facilitate partitioning the load space for different types of timber. Collect all timber along the same skid road.
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<thead>
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<th>TIMBER TRAILERS</th>
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<th>102HD</th>
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The values provided by the manufacturer are indicative. Kesla reserves the right to make changes. The cranes and trailers shown may have additional accessories. Standard equipment and options may vary by country.

*Only for models 92 and 92HD.