CONVERSION OF A TRACTOR FOR FORESTRY WORK
A SENSIBLY EQUIPPED TRACTOR IS VERSATILE, COST-EFFECTIVE AND CONVERTIBLE.

CONSIDERATIONS IN EQUIPPING A TRACTOR FOR FOREST WORK:

1. Use of the base machine outside forestry work: Required power, type of the transmission system and required equipment
2. Size of the harvester head: Small wood harvesting (first thinning) or thinning from first thinning to improvement felling
3. Control system of the harvester head

= FUNCTIONAL COMBINATION IN WHICH THE ROUND-THE-YEAR USE OF THE TRACTOR IS AT THE OPTIMUM LEVEL.

WATCH THE VIDEO, NISULA 325H
https://www.youtube.com/watch?v=0kcFat-Frz0

HEAD ALTERNATIVES

<table>
<thead>
<tr>
<th>NISULA 325H</th>
<th>NISULA 425H</th>
<th>NISULA 425C</th>
<th>NISULA 285E+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. outreach of the crane: 10,0m</td>
<td>Max. outreach of the crane: 9,0m</td>
<td>Max. outreach of the crane: 9,0m</td>
<td>Head change facility and accumulating energy wood head as accessories</td>
</tr>
</tbody>
</table>
Nisula 425C is a multi-purpose harvester head equipped with grapple arms that make handling and sorting timber effortless. The NCU3 control system adjusts the grip force of the grapple arms to the tree stem being handled, enabling a firm grip of the stem during felling, feeding and moving operations. In combined use, the separate grapple arms also allow loading without changing the head.

When larger and heavier trees are felled and moved, the grapple arms apply a strong grip on the stem. When feeding starts, the grip force is reduced to minimise friction. The control system has a diameter limit set for the utilization of the grapple arms during processing. If necessary, the settings can be adjusted via the control system, but usually the harvester head works best with the standard settings.

New stronger driver motors increase the feeding capacity by 20% compared with the previous model. New machined front knives offer improved delimbing efficiency and durability as well as a larger delimbing diameter compared with the C model. 425C offers additional features for thinning.

**NEW GENERATION EASY-TO-USE CONTROL SYSTEMS**

**NISULA NCU3** WITH CUBIC VOLUME MEASURING

Nisula's new NCU3 measuring device is a result of four decades of experience. The new electronics generation has increased the computing capacity of the system; NCU3 controls the head accurately. The simple menu structure makes it easy for the operators to find the settings they need.

The hydraulics control has been taken to a new level, allowing fast and accurate positioning in the sawing window. Accuracy is excellent in all conditions. There is a separate fuse for the sensors to reduce the risk of damage to them.

**NISULA NCU3X** WITH VALUE AND QUALITY SCALING

NCU3X is equipped with a larger 12.1" touch screen. The X Model has value and quality scaling and data transfer facilities. Thanks to the new electronics generation and increased computing capacity, value and quality scaling is accurate. The new advanced algorithm also adds to the maximisation of production.

As the PC used for reading mapping software and data transfer is a separate system, the embedded solution guarantees reliability. Possible Windows/PC problems do not stop harvesting operations. The harvesting operations do not depend on the PC's computing capacity, either. Therefore forestry companies' software may contain extensive maps and other heavy-duty features.
Can equipping a tractor for timber harvesting be easier? The forestry work equipment of a tractor usually consists of a harvester head and crane control system, front axle locking, pedal and lever control system, levers with pre-selection switches and a voltage converter. Nisula’s new Easy2 package has all the necessary components and controls in one neat package. When forestry work is over in the spring, you just take the package out of the tractor and no extra modules are left in the cabin when you switch to other operations. In the autumn, you simply mount the package in the cabin of the tractor again, and everything is ready for forestry work. Easy, isn’t it?

**THE EASY2 PACKAGE CONSIST OF THE FOLLOWING**

- Harvester head control system alternatives:
  - NCU2 length measuring device
  - NCU3LITE with length and thickness measurement facility
  - NCU3 cube volume measurement facility
  - NCU3X with cube volume measurement facility, value scaling facility and data transfer facility
  - Nisula NCC crane’s control system (Parker L90 or Danfoss PVG32)
  - Motion-specific adjustment via the display screen of the control system (NCU1LITE, NCU, NCU3X)
  - Potentiometer for adjusting the motion speed of the crane
  - Mini levers + necessary pre-selection switches for controlling the harvester head
  - The levers are mounted on Easy2 in the rear
  - The levers can also be mounted on the driver’s seat (NCU3 and NCU3X)
  - Printer (NCU3 and NCU3X)
  - Voltage converter (12V-24V)
  - Necessary valve harness
  - Drive direction lever
  - Front axle stabiliser control
  - Lever control of the front wheels
  - All the necessary components in one package and not spread around the cabin.
  - Easy maintenance
  - The levers can be mounted on the Easy2 package in the rear or on the armrests of the driver’s seat

**BENEFITS TO THE CUSTOMER**

- Fast switch from forestry work to other operations and vice versa. The Easy2 package is fast to dismantle from and mount on the cabin
- All the necessary components in one package and not spread around the cabin.
- Easy maintenance
- The levers can be mounted on the Easy2 package in the rear or on the armrests of the driver’s seat

**EASY2 IS COMPATIBLE WITH**

- Valtra/Valmet 6000, 8000, A, X, XM, M, N and T series tractors

---

**HARVESTER HEADS FOR TRACTORS**

The suitability of the Nisula harvester heads for use with tractors is superb. Typical features of Nisula harvester heads include an extremely strong frame and high-quality materials and components.

**NISULA 325H**

Nisula 325H is a harvester head that is especially suitable for first thinning and delimbed energy wood harvesting. It is light and easy to use, making work fast and easy.

The head is equipped with one fixed and three moving delimbing knives. Its straightforward structure and high-quality materials and components ensure a long useful life. This harvester head is extremely easy to maintain.

**NISULA 425H**

The new 425-sarja offers additional features for thinning. The harvester head processes the stem in a controlled manner. The new type of head control improves the speed and accuracy of the process.

Stronger drive motors increase the feeding capacity by 20% compared with the previous model. New machined front knives ensure wear resistance and a larger clean delimbing diameter.

**NISULA 425C**

The new 425C offers additional features that enhance thinning operations. The new type of head control improves the speed and accuracy of the process. Stronger drive motors increase the feeding capacity by 20% compared with the previous model. Nisula 425C is a multi-purpose model in which the control system utilises the grapple arms also in felling. This allows a sturdy grip of the stem during felling, feeding and moving operations. Separate grapple arms make the moving, loading and sorting of timber easy.

---

**NISULA EASY2 – ALL NECESSARY CONTROLS IN THE SAME PACKAGE**

**HARVESTER HEADS FOR TRACTORS**

The suitability of the Nisula harvester heads for use with tractors is superb. Typical features of Nisula harvester heads include an extremely strong frame and high-quality materials and components.

**NISULA 325H**

Nisula 325H is a harvester head that is especially suitable for first thinning and delimbed energy wood harvesting. It is light and easy to use, making work fast and easy.

The head is equipped with one fixed and three moving delimbing knives. Its straightforward structure and high-quality materials and components ensure a long useful life. This harvester head is extremely easy to maintain.

**NISULA 425H**

The new 425-sarja offers additional features for thinning. The harvester head processes the stem in a controlled manner. The new type of head control improves the speed and accuracy of the process.

Stronger drive motors increase the feeding capacity by 20% compared with the previous model. New machined front knives ensure wear resistance and a larger clean delimbing diameter.

**NISULA 425C**

The new 425C offers additional features that enhance thinning operations. The new type of head control improves the speed and accuracy of the process. Stronger drive motors increase the feeding capacity by 20% compared with the previous model. Nisula 425C is a multi-purpose model in which the control system utilises the grapple arms also in felling. This allows a sturdy grip of the stem during felling, feeding and moving operations. Separate grapple arms make the moving, loading and sorting of timber easy.

---

**HARVESTER HEADS FOR TRACTORS**

The suitability of the Nisula harvester heads for use with tractors is superb. Typical features of Nisula harvester heads include an extremely strong frame and high-quality materials and components.

**NISULA 325H**

Nisula 325H is a harvester head that is especially suitable for first thinning and delimbed energy wood harvesting. It is light and easy to use, making work fast and easy.

The head is equipped with one fixed and three moving delimbing knives. Its straightforward structure and high-quality materials and components ensure a long useful life. This harvester head is extremely easy to maintain.

**NISULA 425H**

The new 425-sarja offers additional features for thinning. The harvester head processes the stem in a controlled manner. The new type of head control improves the speed and accuracy of the process.

Stronger drive motors increase the feeding capacity by 20% compared with the previous model. New machined front knives ensure wear resistance and a larger clean delimbing diameter.

**NISULA 425C**

The new 425C offers additional features that enhance thinning operations. The new type of head control improves the speed and accuracy of the process. Stronger drive motors increase the feeding capacity by 20% compared with the previous model. Nisula 425C is a multi-purpose model in which the control system utilises the grapple arms also in felling. This allows a sturdy grip of the stem during felling, feeding and moving operations. Separate grapple arms make the moving, loading and sorting of timber easy.

---

**HARVESTER HEADS FOR TRACTORS**

The suitability of the Nisula harvester heads for use with tractors is superb. Typical features of Nisula harvester heads include an extremely strong frame and high-quality materials and components.

**NISULA 325H**

Nisula 325H is a harvester head that is especially suitable for first thinning and delimbed energy wood harvesting. It is light and easy to use, making work fast and easy.

The head is equipped with one fixed and three moving delimbing knives. Its straightforward structure and high-quality materials and components ensure a long useful life. This harvester head is extremely easy to maintain.

**NISULA 425H**

The new 425-sarja offers additional features for thinning. The harvester head processes the stem in a controlled manner. The new type of head control improves the speed and accuracy of the process.

Stronger drive motors increase the feeding capacity by 20% compared with the previous model. New machined front knives ensure wear resistance and a larger clean delimbing diameter.

**NISULA 425C**

The new 425C offers additional features that enhance thinning operations. The new type of head control improves the speed and accuracy of the process. Stronger drive motors increase the feeding capacity by 20% compared with the previous model. Nisula 425C is a multi-purpose model in which the control system utilises the grapple arms also in felling. This allows a sturdy grip of the stem during felling, feeding and moving operations. Separate grapple arms make the moving, loading and sorting of timber easy.