

# ELHO swathers and tedders



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## Putting customers at the centre of our service

**In 1968, the young farmer Arne Löfvik realised that in order to develop agriculture, there must be better machines and equipment. That moment saw the creation of ELHO's business idea that is still the same: manufacturing durable work machines for better quality fodder production and environmental management.**



The quality of fodder is the main concern in all work machines designed by ELHO. Work machines have to be high-quality, durable and easy care for their users. Therefore ELHO's machines have many special features that make them extremely durable. The machines have been successful in international comparison tests. ELHO is known globally as a producer of high-quality machines. ELHO takes care of its customers and aims to build long and confidential co-operation relationships with customers and other co-partners. Spare part and aftersale network is effective, and customer feedback is listened to very carefully. ELHO produces quality you can trust. Machines are manufactured with high-skilled workforce and high motivation for work. The manufacturing process is carefully controlled, all machines are tested and test-driven before coming out from the production line, and development work is conducted continuously. It is now wonder that ELHO machines are acquired already in the third generation. ELHO is always ahead!

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## Clean harvesting is a prerequisite for producing good-quality silage

Fodder will be of good quality if the cutting is done at the right time and the drying process is done in swaths that are wide enough.

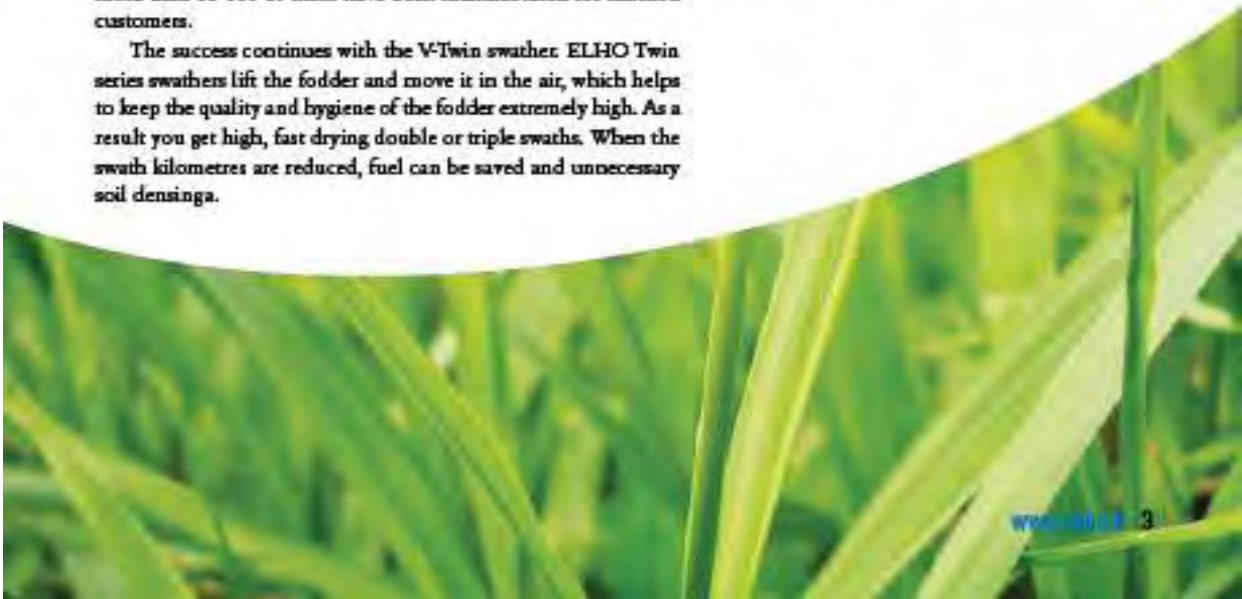
There is a danger of contaminating the silage with residues of manure and microbes if the manure is spread straight on the growing field. The soil in areas with extensive milk production is often organic and humid, which increases the contamination risk even more. The risk of impurities ending up in the swath is reduced significantly when the swaths are not dragged on the ground. The best way is to make the swath so wide that there is no need to drive on the fodder, and do the swathing with a lifting swather.

There are several critical stages in producing silage. That is why a lifting tedder or swather is the safest option.

## All ELHO's tedders and swathers lift the fodder mass

We at ELHO think that the fodder mass must be picked up and moved in the air. Our company has a long experience in this; ELHO's famous rotor tedder came to market in 1975. Afterwards, more than 15 000 of them have been manufactured for satisfied customers.

The success continues with the V-Twin swather. ELHO Twin series swathers lift the fodder and move it in the air, which helps to keep the quality and hygiene of the fodder extremely high. As a result you get high, fast drying double or triple swaths. When the swath kilometres are reduced, fuel can be saved and unnecessary soil densing.



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## **ELHO V-TWIN 750**

**ELHO V-Twin swather does not drag the fodder on the ground, it throws it diagonally up and in with continuous throwing movements. The fodder is not contaminated with impurities on the ground; the fodder mass stays clean and its quality remains high. V-Twin 750 swather has Hydro Balance suspension and central pivoted fitting of the basket frames. Together they ensure that the contours of the ground are followed closely and lightly.**



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V-Twin 750 Super is equipped with side shift. Driving cross-wise over the left, dried swath, and turning the swath onto the dry area the more humid side up. This ensures even drying.

Thanks to the throwing movement of the tines of the V-Twin swather, the risk of stones in the swaths will be reduced, which can present a problem with the traditional swathers that roll on the ground. This also reduces the risk of breakage for the harvester following the swather.

Double baskets with seven rake tine bars and 322 pcs of rubber-mounted tines lift the fodder. The raking speed can be adjusted and also the width of swath can be optimised to the level that fits the harvester following the swather.

There are less kilometres to drive to pick up the swaths, harvesting is more effective, and fuel consumption is reduced. Flexible working width, 3-8 metres, adjustable from the cabin, which makes the V-Twin an ideal machine to use even in the less-than-perfect shaped fields. The maximum working width is dependent on the swath width.

The swather can be easily adjusted for different mower widths. The size of the harvesting machine makes no difference: The wings of V-Twin are spread as needed, and the result is an airy, easy-to-pick swath.

Thanks to the multi-tine baskets, the swath is even, and there is little risk for blockages of the harvester.



Force steered rear wheels, low centre of gravity, as well as low and narrow structure make the V-Twin 750 extremely easy to drive on the road. Changing from the transport position to the working position and vice versa is very fast. There is no need to come out of the cabin during the position change.



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## ELHO V-Twin 600 is cost-effective!

In harvesting, the full capacity of the harvester has to be used to a maximum - this is possible with ELHO V-Twin 600.

V-Twin 600 is designed to handle all kinds of fodder gently and effectively. With V-Twin 600, the fodder is let to dry until the harvesting machine comes. This saves time and fuel and reduces pressure on the field. Work efficiency gets better when the amount of fodder in the swath increases.

### V-Twin is really flexible!

The machine is very versatile in use; it can be mounted to the front lift as a standard, but also straight to a tractor equipped with reverse drive control or to a front loader with an optional adapter (sold separately). The machine can be connected to the back lift equipment with a boom and an A-frame (sold separately).

### Transporting V-Twin 600 on the road

When transported, the baskets of the V-Twin 600 are turned in an upright position. Front view out of the cabin remains good despite the large working width: the machine fulfils even the strict German road regulations. The V-Twin 600 is compact in the transport position both at the front and at the back of the tractor.

### ELHO V-Twin 600 fact file:

- Can be mounted at the front or at the back of the tractor
- Clean and high-quality fodder
- Fast harvesting
- Rear mounted with 6 m working width
- One drive on the field can be omitted
- Strong and sturdy frame
- Easy to use
- Powerful and inexpensive



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## MORE EFFECTIVITY with Twin 460

Twin 460 is a front-mounted swather and the newest addition to the Twin family. This one-rotor swather that is mounted to the front of a tractor features all the benefits familiar from the other Twin models: it lifts and moves the fodder in the air; there is no need to drive on the fodder. Driving on the field reduces by half and minimises pressure applied on the field. By combining the swaths onto the forage harvester the fodder can be harvested faster, more effectively and with savings on fuel costs.

The swather unit is floating on the attachment frame to ensure the hygiene of the fodder.

The machine is fully hydraulic and the required oil flow is only 25 l/min.

When the Twin 460 is used as a regular swather, combining two or three swaths is made effectively.

Twin 460 is perfectly suitable for use with a trailed forage harvester. An even swath has double the amount of fodder, which ensures that the driving speed of the forage harvester can be kept moderate, thus making it easier to control.

As it is hydraulic-driven, the Twin 460 can be coupled either to a front lift equipment or to a front loader as a standard. With front lift attachment, the swather can be mounted closer to the tractor. Euro-quick coupling to the front loader gives greater freedom in choosing the type of tractor.



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## ELHO TR 220 and TR 480 SideFlow

The versatile TR tedders and swathers are suitable for many different uses, such as producing silage and hay, as well as swathing straw. Additionally, TR-machines can be used for turning, spreading, moving and combining swaths. The rotor has a large diameter and throughput; when it lifts and turns the swath, it becomes airy and of uniform height, and dries up quickly.

ELHO TR 480 SideFlow is equipped with a horizontal elevator. Thanks to the horizontal elevator, both swathing and combining swaths are possible. SideFlow horizontal elevator has self-centering mat with high throwing power. Additionally, the elevator has an adjustable tilt angle and spring-loaded deflector roll, which greatly reduces the need for tightening the mat.

In TR tedders, the double tines are backed up with wires. If they get cut, they will not end up in the harvester's shredder rotor.

### ELHO TR tedders in a nutshell

- spacious rotor lifts the feed – no pushing on the ground
- the wax coating of the straws are rubbed – this aids the drying process
- the fodder is turned upside down and guided to an airy swath
- TR 220 tedder can be equipped with a SideFlow elevator
- More than 15,000 produced TR machines since 1975.



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## ELHO TR 300 tedder / swather

This machine has a large rotor equipped with six axes and double tines, which lift the fodder to the chamber. The rotor's pick-up process is precise even at low speeds. The slow speed of rotor during swathing reduces crop losses. When using high rpm, the fodder is rubbed against the upper side of the rotor chamber, which makes the fodder dry quickly. The long back side of the

chamber forms an airy, quick-drying swath. Thanks to the smooth side plates the swath becomes even and easy to pick up. The fodder can be mowed sideways with the help of adjustable wheels and turning draw bar.

**The fastest possible drying is very important - ELHO TR 300 makes it happen!**

### Technical specifications

ELHO	V-TWIN 750	V-TWIN 600	TWIN 460	ELHO	TR 220	TR 480 SF	TR 300
Working width, m	*1) 3,0 - 3,0	6,0	4,6	Working width, m	2,2	4,1	3,0
Swath width, m	1,2 - 1,5	1,2 - 1,3	(acc. to drive)	Transport width, m	2,8	2,8	3,2
Transport width, m	2,6	2,4	3,5	Length, m	2,0	2,8	2,2
Length, m	6,3	2,1	2,1	Rotor diameter, cm	100	100	98
Rake tines, pcs	322	240	150	Rotor blades, pcs	6	6	6
Hydraulic motor	2	2	1	Double spring tines, pcs	75	75	63
Required oil flow l/min	25	25	25	Hydraulic coupling, pcs	-	2 single act.	-
Hydraulic coupling, pcs	*1) 1 dual action, 2 single action free return	1 dual action, 1 single action free return	1 single action free return	Wheel size	18X7,5-8 550	18X8,5-8 800	18X8,5-8 550
Front lift connection	-	standard	standard	Weight, ca. kg			
Front loader (Euro) coupling	-	optional stand.	standard				
Weight, ca. kg	2170	860	540				

\*1) optional: 2 pcs dual action and free return.

\*2) maximum working width depending on the swath width.

Technical specifications present no obligation to the publisher and they can be changed any time without a prior notice. We reserve the right to construction changes. For prices and additional equipments, please see the price list valid at the time of sale. For more information, contact your local ELHO dealer.

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## Durable work machines for agriculture and contracting

### Mowers

ELHO provides an extensive range of mower conditioners and mowers in different sizes. Many of our ELHO machines feature a HydroBalance suspension system, which allows the machine to follow the contours of the ground smoothly and avoid obstructions. We produce double, front lift, back lift and roller mower conditioners, trailed mower conditioners, trailed mower conditioners with side flow, and disc mowers.

### Feeding machines

ELHO bale shredders make feeding easier and save several stages in the work flow. The feed can be distributed straight to the feeding table (to the right or left) or be blown to a distance of up to 15 metres. Bale shredders work well even if the fodder is frozen.



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**Bale wrappers**

ELHO has got a bale wrapper to suit every need. They come as manual, half automatic and fully automatic versions. There are both front lift wrappers and trailed wrappers available. ELHO also manufactures combination machines, in which the baler/wrapper is mounted on the same frame. We also manufacture bale markers and pump units.

**Machines for landscape care**

ELHO has designed mulchers for landscape care. They are suitable for thicket clearing, roadside pruning, and field cutting. These machines are extremely strong and powerful, and they have an excellent working range. The cutting head can be tilted 90 degrees up and 35-45 degrees down, depending on the model. Our selection of machines includes both rotor and chain mulchers.



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- Founded in 1968, still owned by the family who founded it
- Located in Pännäinen, 10 km from Pietarsaari in western Finland
- Approx. 90 employees
- Proportion of export approx. 60 %
- Manufactures approx. 1500 units/year
- Has its own manufacturing premises approx. 7200 m<sup>2</sup>



Sales:

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