



**HAARSLEV™**

Processing Technology

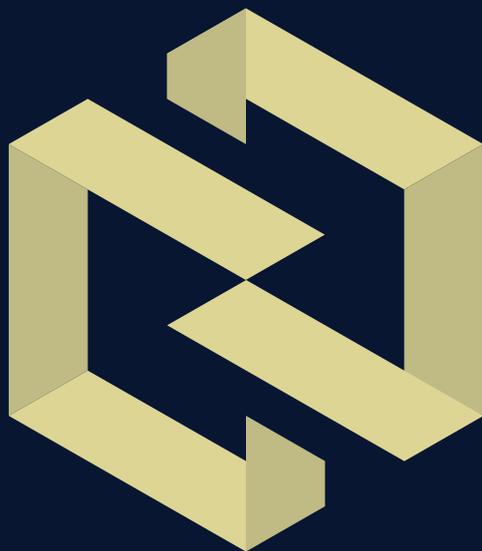
# The best gets better

For moving material between your processes

Energy-efficient, ultra-reliable, high-capacity pumps for hygienically transferring meat, fish or poultry material featuring large particles and chunks



**ECO LAMELLA PUMP**  
PRODUCT BROCHURE



## The Haarslev Eco lamella pump



### **Effortless material transfer with exceptional hygiene**

Haarslev Eco lamella pumps are the ideal solution for moving material and by-products from one place to another and from process to another within your operations.

These versatile, ultra-reliable, energy-efficient pumps enable you to quickly and efficiently transfer organic material with minimal liquid content over distances of up to 200 metres.

This is all accomplished within a closed system, ensuring easy maintenance of high hygiene standards throughout your process.

## Main uses

Haarslev Eco lamella pumps are ideal for closed-pipe material handling and transport in:

Wet and dry rendering

Fish processing

Processing poultry offal

Pet food production

They enable you to quickly and efficiently transfer pre-broken by-products and other inputs with minimal liquid content to the next stage of your particular processing operations.

## Drives your process forward, better

Haarslev Eco lamella pumps feature patented rotor technology that significantly reduces friction and wear. This significantly extends the service life of your material transport pumps, which constitute a key part of the "infrastructure" that underpins many main processes. This brings operational stability, easier production planning and robust budgeting to an intensely practical function that's probably critical for your different processes.

These positive-displacement sliding vane pumps are specifically designed for use in demanding environments in which the pumped product can vary in consistency – often featuring big lumps and articles – and be abrasive or corrosive. They're ideal for filling all types of cookers and the accurate, reliable feeding of downstream coagulation and dewatering processes, in closed systems that limit odour issues and help ensure good hygiene conditions.

The slicing action at the pump's inlet – where the lamella meets the sharp, curved edge of the liner – effectively reduces the size of any large particles passing through, thus ensuring better, smoother flows. The patented rotor design reduces friction between lamellas and rotors still further, resulting in even greater durability, quieter running and smooth operation.

These pumps have only four moving parts, with a mechanical sealing gasket. All replaceable wearing parts are made of wear-resistant steel.

These pump units also help you boost energy efficiency in your material transfer operations, as a result of a breakthrough drivetrain design that uses a direct-drive shaft to transmit power from the motor in a straight line.

The smooth, rounded surfaces of the pump casing and the integrated pipe connections also help make the whole pump installation easy to keep clean, helping your staff deal with any cleanliness and hygiene concerns.

A special "easy-to-clean" version is also available for installations with special hygienic requirements.

# Value at a glance

1. Innovative design of how the rotor and the lamella unit work together significantly reduces the friction that's inevitable while the pump is running. Less friction results in lower energy costs, as well as consistently less wear throughout the service life of these units
2. Breakthrough drivetrain design transmits power from the motor in a straight line, using a direct-drive shaft – providing efficiency that helps reduce your energy bills
3. New pump housing design features an integrated pipe transition cone that makes it much quicker, easier and cheaper to install these material transport pumps
4. Exceptionally durable mechanical sealing gaskets help you keep interruptions to your material transfer operations to a minimum – and limit any unexpected processing downtime that might result
5. Inspection hatch makes it easy for your operators to check for blockages and inspect pump internals
6. An existing (older) Lamella Pump can be upgraded with new ECO spare parts, such as the patented rotor, enabling it to gain the advantages.

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## Financial advantages and benefits

Haarslev Eco lamella pumps are specially designed to reduce the wear and tear that's simply unavoidable with such units, and to be more resilient and durable.

For the customer, one of the big advantages of this is that there can now be as much as 30% longer between any pump swaps or refurbishment that may be needed. This helps reduce total cost of ownership (TCO).

## ESG-related advantages

Thanks to the new drivetrain design and other significant friction-reducing improvements, these Haarslev Eco lamella pumps use up to 10% less energy than their previous-generation counterparts.

The combination of these energy savings and using less material in product and spare parts reduces the CO2 impacts associated with these pumps, and is good for your energy bills as well as for overall ESG reporting by your operation.

The Haarslev service exchange programme for these pumps, emphasising refurbishment and re-use that prolong the service life of key items of processing equipment – with as much as 30% longer between any pump swaps or refurbishment that may be needed – is also a plus for your company's ESG reporting.

# Customer advantages and benefits

Using fully enclosed material handling and transport systems rather than various traditional open systems – such as conveyor belts, etc. – enables your operations to move material around more cost-effectively, as well as to achieve significantly better odour control and a generally more hygienic facility and working environment.

**For your operations, particular cost-saving benefits can include:**

- Consumes up to 10% less energy for equivalent transfer rates – good for your company's energy bills and ESG reporting
- As much as 30% longer between any pump swaps or refurbishment that may be needed
- Fewer breakdowns and therefore more uptime, because these pumps are extremely reliable
- Exceptional durability, quiet running and smooth operation
- Copes well with even coarse inputs featuring large particles and chunks of material
- Good hygiene because of smooth, well-rounded, easy-to-clean surfaces and fully enclosed material transfer
- Takes up very little space – you can mount these pumps almost anywhere
- You can use the same type of pumps in many different places in your processing setup – which reduces your overall costs for monitoring, maintenance, spare parts, training, etc.
- Innovative pump housing design features a standardised, integrated pipe transition cone that makes these units quicker, easier and cheaper to install and connect up
- Low maintenance costs, backed by a Haarslev service exchange programme that boosts the reliability and prolongs the service life of your Eco lamella pumps.

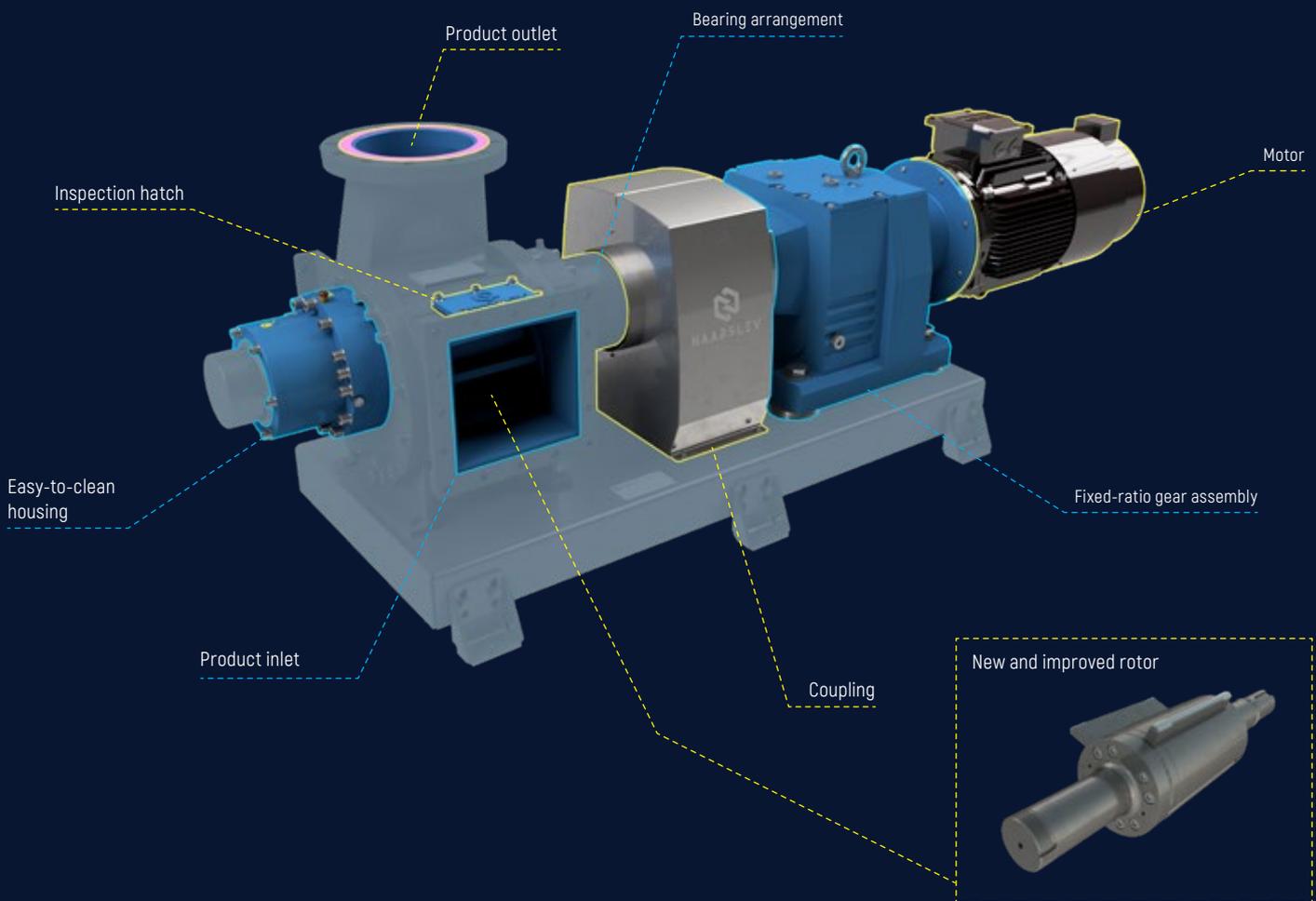
## Setting new standards

Maintaining continuity and good hygiene in your processing operations is crucial for the operating costs and profit margins you want to achieve.

Over the years, Haarslev lamella pumps have become renowned for their durability, reliability and efficiency for quickly, reliably and hygienically moving non-homogeneous, high-viscosity fluids and semi-solid materials from one place or process to another. Haarslev has supplied more than 30% of the lamella pumps installed worldwide, and these units are now widely accepted as the technical solution of choice for these kinds of duty.

Haarslev Eco lamella pumps are the next generation of this redoubtable “gold standard” engineering, designed to set new standards and raise the customer benefits bar even higher.

Haarslev Eco lamella pumps feature a patented rotor design that significantly reduces friction and wear rates. This prolongs the service life of your pumping setup, and helps you ensure stable, reliable, hygienic closed-pipe material transfer throughout your operations.



## Possible inputs

Haarslev Eco lamella pumps are ideal for moving around many different kinds of relatively coarse, high-viscosity material inside processing plants. Typical inputs include crushed, pre-cooked or hydrolysed material.

You can use these ultra-reliable pumps to move your designated material over distances of as much as 200 metres, to fill a wide range of the processing equipment used in processing traditional inputs – such as pre-broken and pre-cooked livestock, animal by-products, fish, poultry and pet food ingredients.

## Possible outputs

Haarslev Eco Lamella Pumps are designed to handle a variety of relatively coarse, high-viscosity outputs efficiently and reliably. Typical outputs include processed material that has been coagulated, dried, or partially separated during rendering or production processes.

These pumps can effortlessly transport processed materials over distances of up to 200 meters, ensuring consistent flow to downstream equipment such as separators, dryers, or packaging units. Whether it's partially rendered animal by-products, dewatered fish waste, cooked poultry residues, or pet food mixes, Haarslev Eco Lamella Pumps ensure smooth, hygienic transfer to the next stage of production, maintaining the highest operational standards.

# Three different models are available



**HM 25**



**HM 35**



**HM 45**

	<b>HM 25</b>	<b>HM 35</b>	<b>HM 45</b>
Typical transport capacity	1,5-20 tons/hour	5-50 tons/hour	30-230 tons/hour
Material throughput (theoretical )	10 litres per revolution	25 litres per revolution	75 litres per revolution
Handling capabilities for solid particles	Up to 65 mm	Up to 85 mm	Up to 135 mm
Bare shaft pump	418 kg	687 kg	1466 kg
Complete pump unit (including motor and gearbox)	800 kg	1950 kg	2900 kg
Outlet DN	150	250	350
Outlet ANSI	6"	10"	14"
Most used kW (or equivalent in hp)	7.5 and 15 kW	15 and 30 kW	45 and 75 kW
Maximum available torque	6,000 Nm	10,500 Nm	15,000 Nm
Eco lamella pump footprint	2438 x 760 x 821 mm	3032 x 920 x 1019 mm	3621 x 1200 x 1201 mm
Bare shaft dimensions	965 x 540 x 667 mm	1172 x 604 x 813 mm	1402 x 750 x 990 mm

Dimensions and connections of the new bare shaft pumps allow easy exchange with previous generation HM Lamella pumps.

## Technical overview

Haarslev Eco lamella pumps feature patented rotor technology that significantly reduces friction and wear, along with a new bare-shaft design that helps make these units even more sturdy and reliable.

A breakthrough drivetrain design transmits power from the motor in a straight line, using a direct-drive shaft that passes through a heavy-duty clutch of Haarslev design, featuring plates made of vulcanised rubber.

This latest generation of Haarslev lamella pumps also feature a specially designed pump housing featuring a pipe transition cone that makes these units much quicker, easier and cheaper to connect up in any given processing setup.

### Knifegate valve

The manual version of this type of valve (made of carbon steel/stainless steel) can be mounted on the pump, to close off upstream or downstream processes so it's easy for your operators to carry out any maintenance or service-related work needed.

The automatic version (made of stainless steel only) provides important extra opportunities for cleaning-in-place procedures.

Outlet sizes follow the measurements of the pipe transition cone.

### Steam injection

Inlets for injecting steam into the pipes for moving the material around are mounted on the outlet side of Haarslev Eco lamella pumps. This helps you make sure all the material transport aspects of your processing operations keep running as planned, with no downtime or cost surprises.

Two options are available, featuring either single or triple steam inlets.

### Disclaimer

The performance, durability, and efficiency presented in this brochure, including energy savings, extended service life, and reduced costs, are based on optimal operating conditions.

Actual results may vary depending on factors such as organic material properties, equipment maintenance practices, and operational usage.

For specific performance expectations, consult with Haarslev experts or technical support.

## Extend your pump's life with ease

### Swap Smart

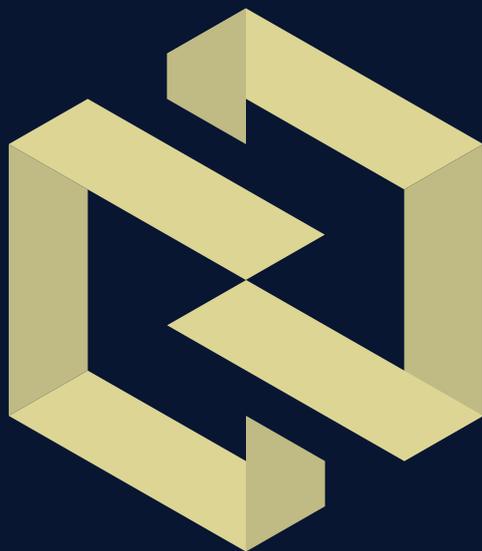
Discover the hassle-free way to refurbish your Lamella Pumps. Reduce downtime and costs with our Service Exchange Programme—your solution for peak performance.



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**Read about:**  
Haarslev service  
exchange programme



# About Haarslev Industries

Haarslev Industries is the world market leader in the design, manufacture, delivery, service and optimisation of durable, high-quality process equipment that companies use for recovering and upcycling by-products, co-products, leftovers, residue and waste from processing meat, poultry, fish and various kinds of industrial waste into valuable, sustainable feed and food ingredients, proteins, minerals and biofuels.

We provide energy-efficient engineering solutions configured to process more as well as to achieve designated sustainability goals, enabling our customers to set new standards for operating efficiency and environmental responsibility, and to build ESG-compliant frameworks for future business.

Haarslev has approximately 800 employees all over the world, with manufacturing facilities in Europe, America and Asia, and offices/support facilities in 15 countries.



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