

Helland Silosystem Aquaculture



Helland is a Norwegian silo manufacturer for over 60 years.

Helland Silosystem produces its own feed handling system at their factory in Ålgård, Norway which includes:

- Silos
- Feed Dosing Units
- Weighing Units
- Different filling methods
- Feed transport systems
- Level control
- Electrical control systems

Our system is carefully tested and covers the different needs whilst we constantly focus on:

- Quality
- Gentle feed transport from filling to fish
- Smooth hopper filling
- Smooth hopper emptying



Silo

Helland is manufacturing the correct silo for the required use:

Combined Filling:

- Bulk car
- Bulk boat
- Blowing system
- Big bag

Type:

- Outdoor/stainless
- Indoor / modul
- Low build
- Big bag Silo



Fresh feed provides fresh fish!

Smooth hopper emptying with function.

“First in – First out!”

provides consistent feed quality!

Gentle center refill in silo!



Helland 300 S Silo

Gentle filling and smooth emptying!



Level measurement

- Level control
- Common web base
- PC / obile
- Statistics
- Alarm
- Info for bul car

C

Silos from
2 – 41,5 m3

Center refill provides
smooth filling in silo.
Bends and pipes with smooth transitions are gentle on refill.

Level glass / Level light

Fresh feed provides fresh
fish!
Steady loading and unloading of silos provide stable feed quality. Better weighing accuracy and transport system accuracy. Applies to the use of UNIPRO feed.

Service shutter

Helland Spherical Auger Box!

- Universal and user friendly.
- Adjustable feed screw direction 360°
- Increase of feed screw from 0 - 45°
- Inspection hatch



“First in – first out!”

With the UNIPRO feeding screw in the Helland Spherical Auger Box, the feed is evenly emptied by the silo and provides uniform feed quality.

Feed Dosing Units

For economical and optimal growth of fish, it is important to feed correctly. Helland Silosystems self-developed feed dosing units are designed to be:

- Gentle – preserves the feed
- Precise – doses the specified amount
- Even dosing – good utilization of the tank

Dosing pipes are adapted to the feed type and tank size, whether it is to be small doses, or to distribute larger pellets over a bigger tank.

50L



150L – 300L



1000L



The cone is round and without internal bolts so that it provides a good emptying of the dosing unit.

With a transparent hopper, there is good visual control of the feed inside the day tank.

The dosing units are customised to be mounted on a walkway, tank edge or on a stand mounted from the floor.

Can be delivered according to required tank size or colour.

It can be easily connected to various control systems and has many options that provide a good starting point for optimal growth.

Gentle filling

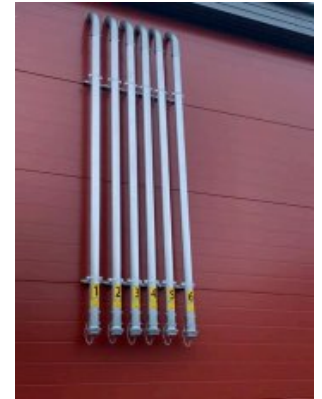
For filling silos, it is important to choose a conveyor that has the capacity as needed and is gentle on the feed.

Helland Aquaculture supplies various conveyors.

99 Filling pipe for bulk car / blower

Own-produced pipe system for filling silos.

The pipes are delivered with bends that have a good radius and can have several different angles that makes it easy to assemble. The joints are seamless to make the filling gentle.



Conveyor belt / Elevator:

More capacity is required when the facilities get bigger, and the feed comes from the feed boats. A reliable and gentle transport of the feed is ensured with a conveyor belt system.

Conveyors are customised to the various facilities according to requirements and building conditions. The receiving silo is delivered with a hatch on the top, and with selection valves on the conveyor, you can choose which silo is to be filled.



Small bag/ Big bag Hopper

Bag-hopper for filling from small bags or big bags.

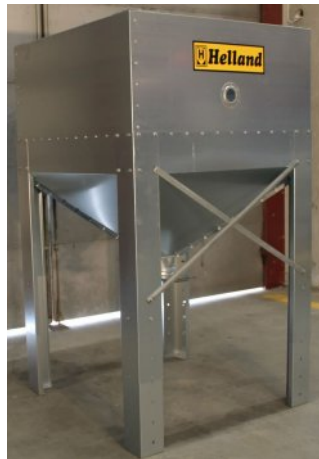
Our big bag hoppers are available in different sizes with many possibilities:

- Knife cross and grid
- Shutter and tapping under
- Connection of different feed conveyors

S – 2300



S – 1500



S – 550



Blowers for feed transport

Blowers are an effective way to fill silos.

Capacity from 5 – 15 tonnes / hour

The big bag is lowered into a big bag hopper, and the blower blows the feed into the specified silo.

Pipe system built in OK 160 system with bends that have a good radius for gentle filling.

We supply solutions for control and selection of silos.



Feed Conveyors

Helland provides various feed transport solutions that cover several applications. When choosing a feed transport solution, the amount and size of pellets to be transported must be considered to ensure gentle transport. We supply solutions that transport a pellet size from 0,1mm to 12mm.

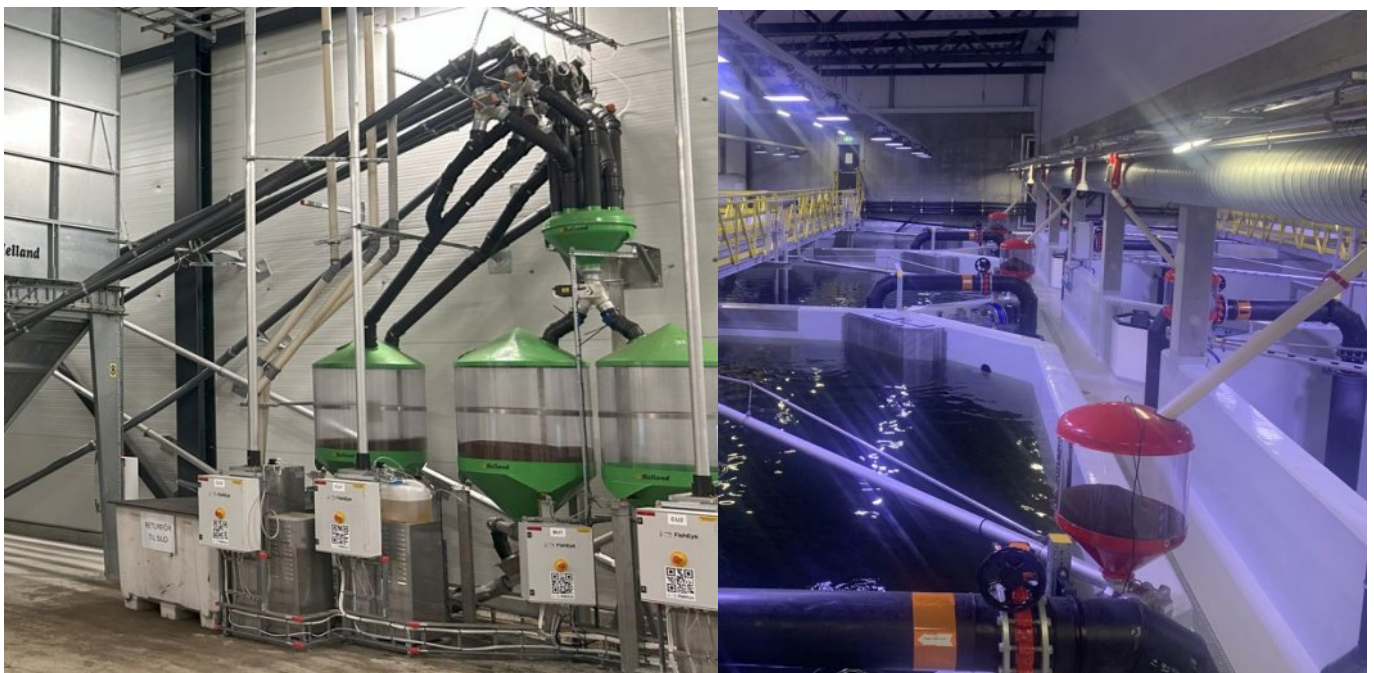
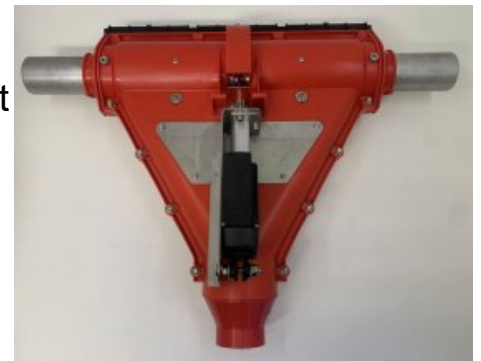
Flexi flexible auger 125, 90 or 75. 0,5 t/h – 5 t/h

- Robust auger, 10% thicker
- Gentle transport of the feed
- Easy installation



Tube conveyor 1,2 t/h – 5 t/h

- Stainless steel pipe from drive unit to dosing unit
- Oblong bends instead of corner wheels
- Rotating outlet with no edges inside



Weighing Units

Our customers get full control with weighing units in feeding systems and level controls in silos.

Feeding systems with weighing units provide precise control of the amount of feed for each tank. Weight unit can be delivered out of the silos, or it is an option on the feed dosing units. This is connected to a software and put into a system together with silos, conveyors, load cells and feed dosing units.



Control system

Our system can be customised to different control systems and integrated to existing facilities and control systems.

We cooperate with suppliers who deliver control systems to our feeding systems. Please contact us for more information.

Helland Silosystem, Aquaculture has several solutions for controlling the level as required.

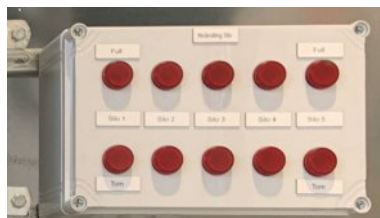
Load cells

Most accurate reading where the level is shown in kilos. You can get the reading on displays in 1 or 2 places, but there is also the possibility to read the level on a PC. An alarm at low level can be set.



Capacitive sensors:

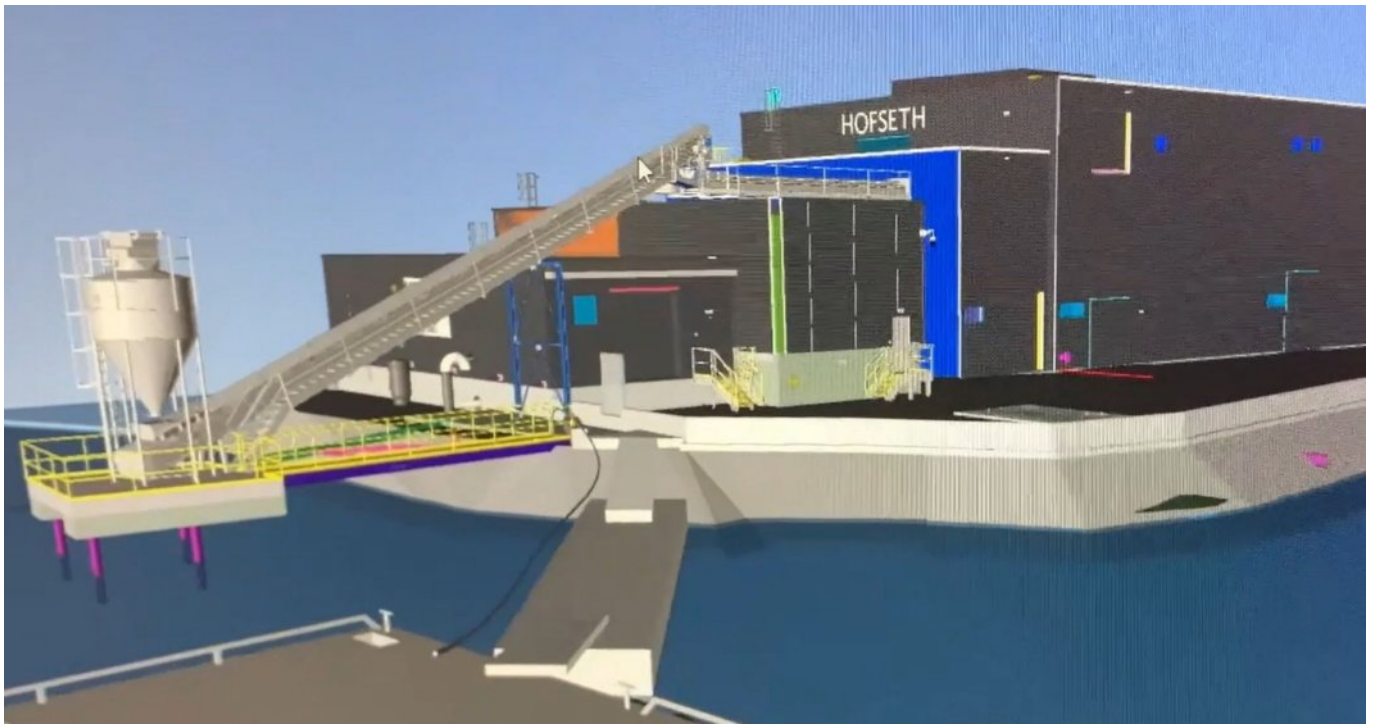
Sensors mounted at the bottom and top of the silo, connected to a level box showing the level at empty and full. Convenient for the person filling the silo.



Engineering

Helland Silosystem works closely together with customers to find the best possible solution of efficient feeding systems.

We use our experience in 3D-modelling early in the project to define layouts, interfaces and customise solutions according to given requirements.



Reference List of Projects

- Salmon Evolution
- Laxey
- Hima Rjukan
- Salmar Tjuin
- Mowi Haukå
- Årdal Aqua
- Tytlandsvik Aqua
- Grieg Seafood Adamselv
- Salten Smolt
- Gaia Salmon

Do not hesitate to contact us for your next project.

Norwegian quality through generations.



Helland Silosystem Aquaculture

Visit our website for more information



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