

2019 / Eng

# Helland Silosystem



# **Norwegian silo manufacturer for over 50 years**

**Helland Mekaniske produces its own feed handling system which includes:**

- Silos**
- Different filling methods**
- Feed transport systems**
- Levelcontrol**
- Electrical control systems**

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

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







## Correct silo for the right use:

### **Combined Filling:**

- Bulk car
- Bulk boat
- Blowing system
- Bigbag

### **Type:**

- Outdoor/stainless
- Indoor / modul
- Low build
- Bigbagsilo



***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 / Mobile
- Statistics
- Alarm
- Info for bulk car MCD

**Silos from  
2 – 35 m3**

## **Center refill provides smooth filling in silo.**

Bends and pipes with smooth transitions are gentle on refill.

**Level glass / light**

## **Fresh feed provides fresh fish!**

Steady loading and unloading of silos provides stable feed quality. Better weighing accuracy and transport system accuracy.

**Service spjeld**

## **Helland Utmatingskule!**

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



## **First in, first out.!**

With the UNIPRO feeding screw in Helland Feeding Ball, the feed is evenly emptied by the silo and provides uniform feed quality.



# Gentle filling

## 99 Filling Pipe

**Self-made pipe system for filling silo.**

**The tubes come with bends that have a good radius and are available in several degrees which makes it easy to install.**

**The joints are seamless which makes the filling gentle.**







## Small / bigbag hopper.

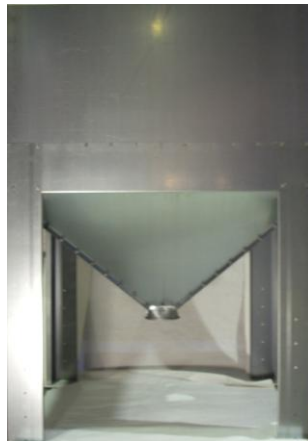
**Baghopper for filling from small sacks or large sacks  
Our large extracts are available in different sizes with many possibilities:**

- Knife cross and grate
- Damper and tapping below
- Connection of different feed conveyors

**S – 2300**



**S – 1500**



**S – 550**





# Blowers

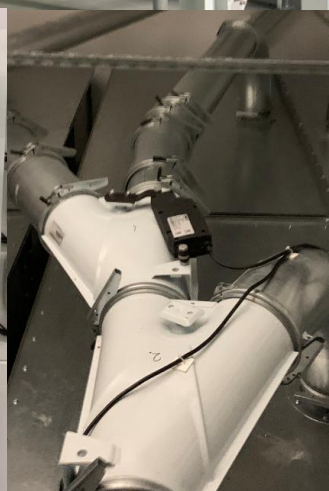
**Blowers are an effective way to fill silos.**

**Capacity from 5 - 15Tonnes / hour**

**The large bag is lowered into a bigbag 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.**

**Provides solutions for control and selection of silos.**



**Electric 2 way branch for choice of hopper to be filled**

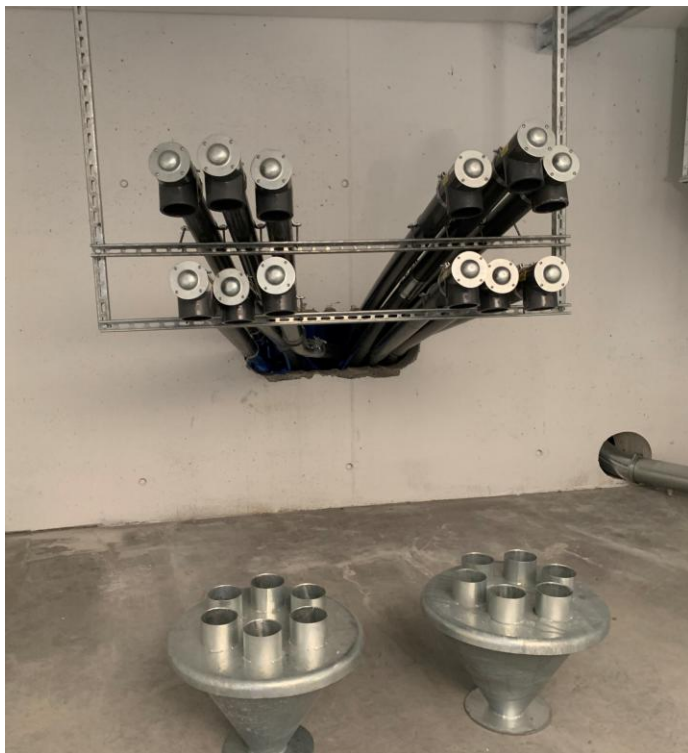




# Feed conveyors for fish

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

- **Flexi Auger 125, 90 or 75. 1,5 t/h**
  - **Robust auger, 10% thicker**
  - **Gentle feed transport**
  - **Easy installation**
- **4` og 6` solid auger 3/12 t/h**
  - **galv steel**
  - **High capacity and durable**
- **Feeding conveyor 1,2 - 2t/h**
  - **Stainless pipe with pull-out to feed-machine**





# Full control with weight systems

**Feeding system with weighing container, gives accurate weighing to selected feeders and good control of feed quantity for each vessel. Feeding system with PC software, silos, feed screw, weighing container, conveyor, and feeders.**



## **Feedingsystem**

- Automatic feeding system.
- Preset from silo to weigh container.
- Total registration silo / feed machine.
- Control of feed conveyors

**Filling for feeders**

**Dosage rate from feeders**

**El. Steering**

**Operation: PC, mobile, tablet..**





**There are several reasons for controlling the level of the silo:**

- level registration
- info for bulk driver when filling
- feed supplier information
- predictable order
- log and trends on consumption

**We have several solutions for controlling the level as needed:**

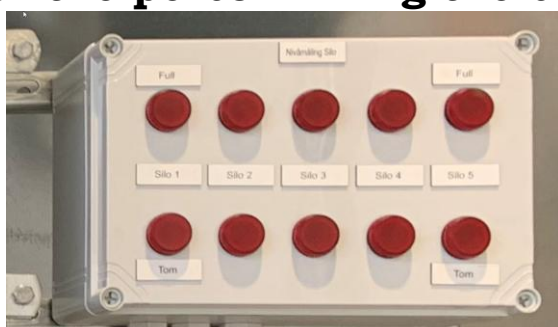
### Load cells:

**Most accurate reading where you get the level expressed in kilos. Can get reading on display 1 or 2 places, but and possibility to read level on PC. Can set alarm at low level**



### Capacitive sensors:

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





## Laser measure:

**Affordable and easy way to install. Wireless unit mounted on top of silo. Readings can be viewed anywhere on PC / tel where you get the level, trends, location and content information.**

**Can set alarm alert at low level.**

**Max height: 20m**

**Battery life: 8years. Recommend to change every 5 years**



# Quality for Aquaculture



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