

Flexible Feeding

Distribute feed from all silos to all cages - without manual handling. Flexible Feeding is the feeding concept of the future.

Flexible Feeding is a new and smart add-on concept to the CCS Akvasmart feeding system that enables you to distribute feed from all silos to all cages on the facility.

In a traditional feeding system, each silo is connected to one specific feed line. With Flexible Feeding you will no longer have this restriction. Thus, the feed logistics and planning becomes a whole lot easier. Combine various feed types, pellet sizes etc with just a few keystrokes!

How it works



We install one buffer tank for each feed line inside the barge. A conveyor system lets you move feed from any silo to any buffer tank. With the help of load cells and the AKVAconnect control system you will have full control of how much feed each buffer tank contains. Next, the traditional feed system will bring the feed from the buffer tanks to the cages

SYSTEM OVERVIEW

AKVAGROUP™

Buffer tanks

- Designed according to client specifications.
- To be placed between the Inlet valves and the Brush box, directly underneath the outlet valves.

Straight pipe

- The conveyor line should be as short as possible.

Inspection pipe

- Allows easy access for viewing the fill rate.
- To be placed after the Inlet valves.

Sweeps

- One should use as few sweeps as possible.

Inlet valves

- Transfers pellets to the conveyor / feed pipe with minimum pellet damage.

Outlet valves

- Fills up to two buffer tanks.
- Inspection lid on top enables easy inspection/cleaning.
- To be placed between the Inlet valves and Brush box.

Brush box

- Handles excessive conveyed material, which will either be dropped back into the conveyor line or dropped into a recycle bin.
- Inspection lid on top enables easy inspection/cleaning.
- To be placed between the Outlet valves and the Drive unit

Drive unit

- Preferrably placed above the tension unit.
- Standard version 90° turn. 180° turn also available.
- Possible to rotate in Z-Axis.
- No conveyed material will enter the drive unit.

Tension unit

- To be placed at an easy accessible location.
- Possible to rotate in Z-Axis.
- No conveyed material will enter the tension unit.

Inlet return

- To be placed underneath the Brush box in the system.

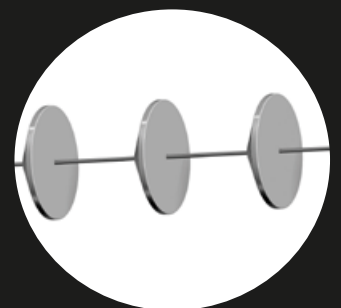
Flexible Feeding is designed and developed by AKVA group. The system can be installed in both new and existing feed barges, according to client specifications.

FLEXIBLE FEEDING

SPECIFICATIONS

Flexible Feeding system

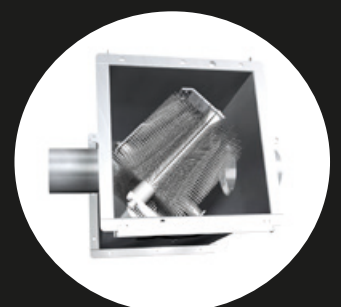
Wire	5/8" SS, max total length 80 m
Diverter outlet	3-way Selector, SS and Aluminum
Pipe	6" SS
Drive unit	400 Vac, 3ph, 4 kW, SS enclosure with Nylon Sprocket
Brush box	Dual brushes in SS enclosure with funnel for overflow
Wire discs	Nylon discs
Tension unit	Manual tension adjustment, SS enclosure with Nylon Sprocket. Includes sensors for : <ul style="list-style-type: none"> ■ Machine Safety ■ Tension ■ Wire Speed & Dosage ■ Home Function
Load Cells	Digital SS Sensors, triplet configuration for each Buffer tank. Capacity of 1 or 3 tons.
Buffer tanks	Capacity of up to 9 tons
Control cabinet	400 Vac, 3ph. Typical (8 silos, 8 lines) consumption of 6 kW for single conveyor
Control Software	AKVAconnect version 2.16 or later



Discs and wire



Diverter outlet



Brush box