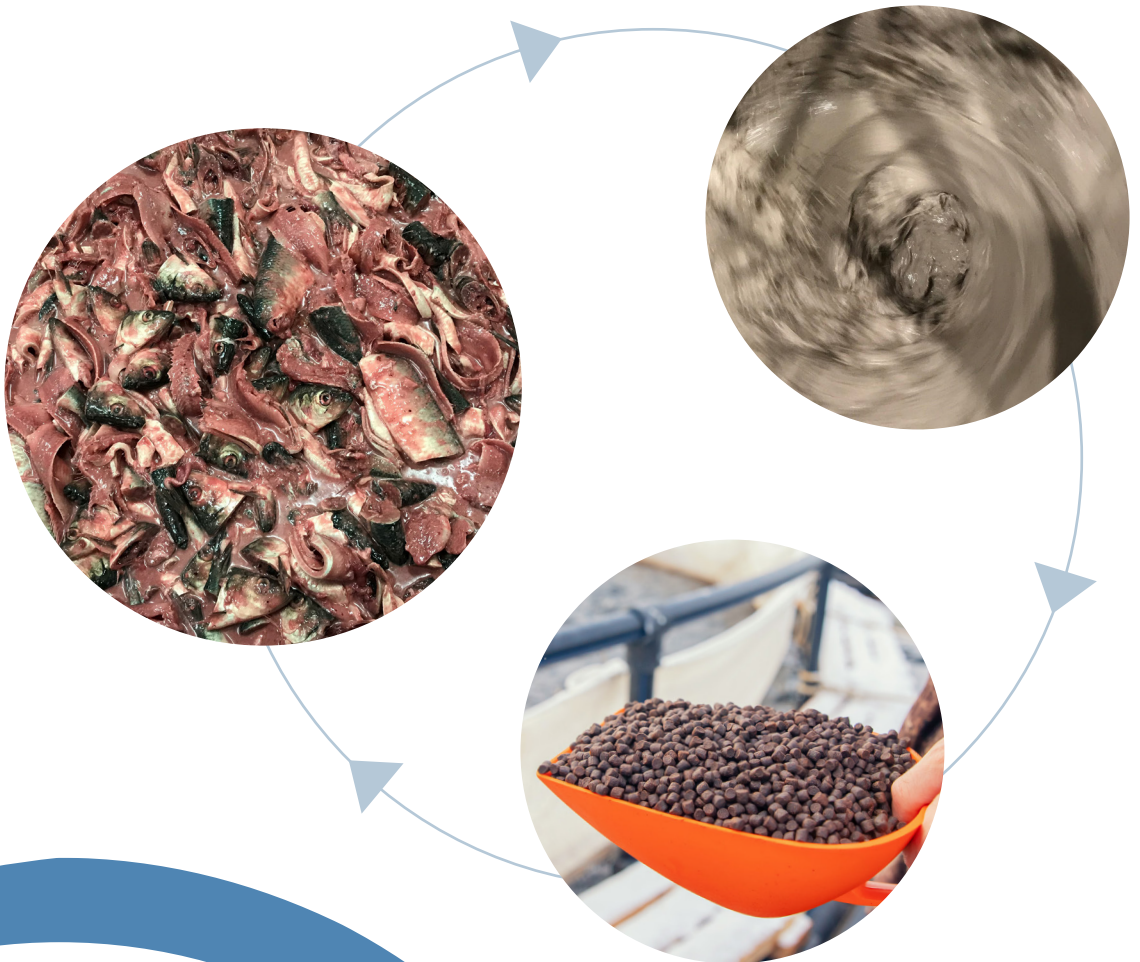


SILAGEMASTER

Effective handling and storage of your By-product



- Optimal solution for by-products
- Minimal maintenance
- Designed for your plant and needs
- Get value out of your waste

TECHNICAL DATA:

Capacity:
Dimensioned to your requirement

Operators:
1

Supply:
3x400V, 16/32/64A

Materials:
AISI 316 or composite

Finish:
Pickled

Dimensions:
Depending on your requirement

Options:
Automatic pumping
to storage tank

SILAGEMASTER

SILAGEMASTER from Kroma A/S is an equipment designed to utilize by-products from the processing line or dead fish from the aquaculture sites.

This equipment is made to hydrolyze the by-products which turns the by-products into a storable liquid (silage). Silage processing is a sustainable and efficient solution to turn waste into a valuable product which afterwards can be refined and used for various purposes

The fish silage is a liquid product made from the whole fish or parts of it that are liquefied by the action of natural enzymes in the fish, in the presence of an added acid. These enzymes break down fish proteins into smaller soluble units. The acid helps speed up the activity of these proteins, at the same time it prevents the liquid to be spoiled by bacterial action.

- 1 The by-products are transported to the silage processing tank. A vacuum system can deliver byproducts directly into the container, or by a conveyor or a forklift.

Your by-products can be gut, head and frame from your filleting process or leftover from another part of the alternative process.

When the by-products are in the silage processing tank the chopper pump will recirculate the by-products into smaller pieces, so it is turned into a pulp.
- 2 An indicator in the silage processing tank will register the level change when input is received. Afterwards, the chopper pump and the acid dosing pump will be activated. Acid is dosed according to the volume of by-products. The chopper pump recirculates and chop the by-products and thereby activate the hydrolysis process together with the added acid.

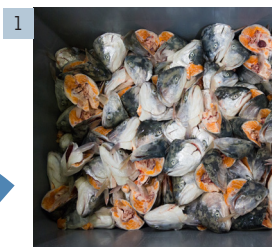
The sensors send information to the control system and activate the pumps according to the received information to get the optimum product. At the same time, it secures a minimum of energy consumption during the silage production.
- 3 When the hydrolyzing process is finished, and the pH value is correct, then the silage is ready for storage. Pumping from the silage processing tank to the storage tank can be both manual and automated. It depends on individual requirement for the system.

Kroma A/S can deliver different kind of storage tanks for this purpose The size of a storage container can be made to fit the size of the load of a truck. If you have access to a port, we can also deliver bigger tanks so you can pump the silage directly into a ship.

The tank can be produced in both stainless steel and a composite material.

In the storage tank pH value of the silage must be controlled regularly and kept homogenic by mixing frequently with mixer or pump depending on size and design of the tank.

The silage can be stored for years but may variate according to the end users' requirements.



Please contact Kroma A/S for more information.

KROMA

Master of fish processing

Rævevej 22 · DK-7800 Skive · Tel. +45 9752 2099
www.kroma.dk · kroma@kroma.dk