

Smart feeding systems for aquaculture

FOR ALL FEEDING STAGES
OF FINFISH AND SHRIMP



Feeding technology at the service of global aquaculture.

**At FishFarmFeeder, we have been designing
and manufacturing automated feeding
systems for fish and shrimp
since 2008.**



Spain - Portugal - Italy - Poland - Germany - Netherlands - Denmark - Scotland - Cyprus
Switzerland - France - Croatia - Greece - Malta - England - Austria - Ireland - Lithuania - Russia
Belarus - United States - Canada - Mexico - Chile - Ecuador - El Salvador - Brasil - Honduras
Saudi Arabia - Indonesia - Singapore - South Korea - China - Oman - Qatar - Tunisia

+35

Countries with
active project

+18

Distributors

+65

International fairs
since 2016

Headquarters
O Porriño, Pontevedra
Spain



Key Advantages

Benefits of centralized smart feeders



FEED SAVINGS



LABOR SAVINGS



INCREASE IN BIOSECURITY



REDUCTION OF MORTALITY



SAVINGS IN OXYGEN CONSUMPTION



SAVINGS IN FILTRATION



LESS POLLUTION



FASTER GROWTH: SGR optimization

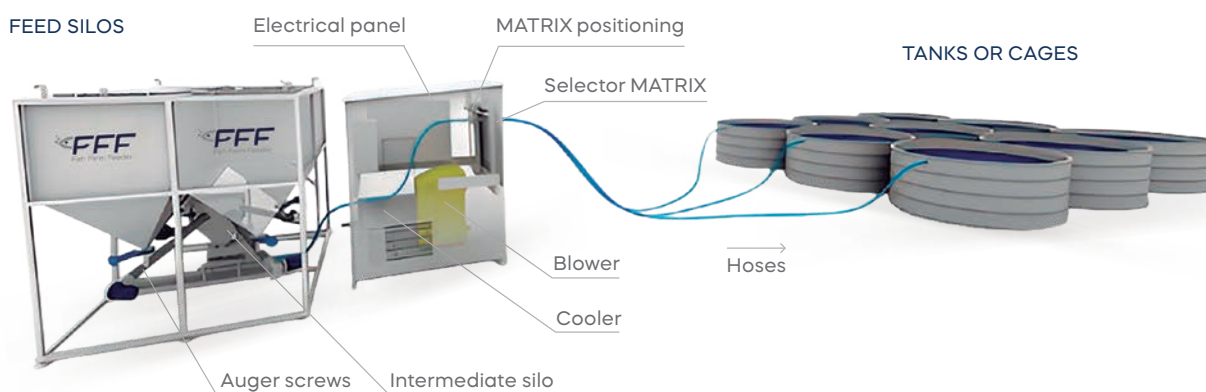


INCREASE IN ANIMAL WELFARE



EASIER AND LESS COSTLY SUPERVISION

Central feeders by FFF



For all feeding stages

Hatchery

1



Tailored feeding for optimal early-stage development.

Pre-grow

2



Maximize efficiency in the intermediate growth stage.

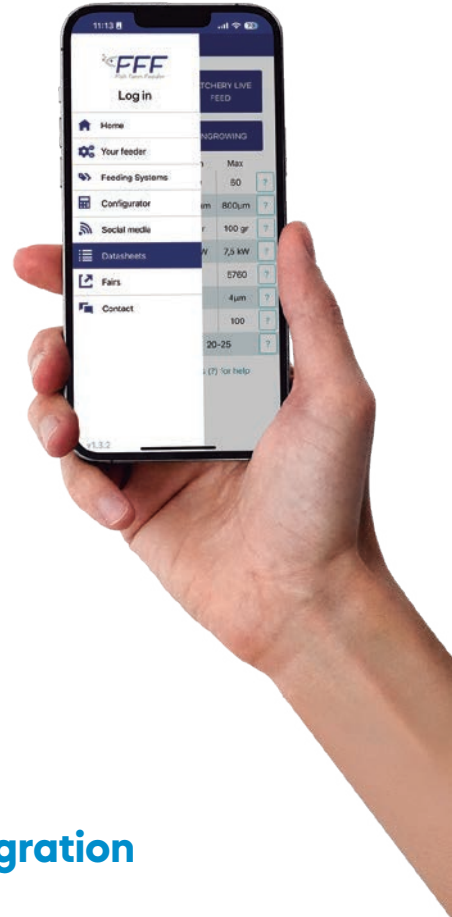
On-growing

3



Ensure efficient grow-out with automated feeding.

Real-time Control



Aqua3F Software

FishFarmFeeder includes in all its feeders a powerful and complete software for feeding and production control.

Parameterizable for any species of fish or shrimp

- Feeding tables
- FCR tables
- Feeding distribution tables
- Standard reports
- Storage of the food history

Individual configuration of each tank with:

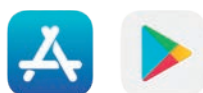
- Tank status
- Feed, FCR and distribution
- Number of fish and biomass
- Custom feeding program
- Tank temperature
- Percentage of total feed to be given
- Types of feeding
- Feeding plan simulator

Control App

The FishFarmFeeder app allows real-time monitoring of the FFF feeders. It is accessible from any smartphone or tablet, both for iOS and android systems.

- Real time monitoring
- Warning and alarm system
- Know the state of the feeder
- Accessible through smartphone or tablet

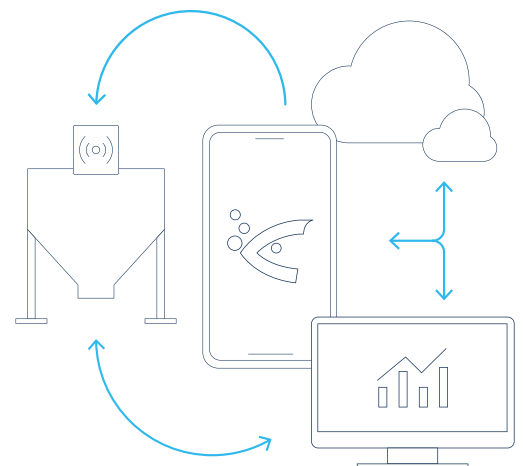
Available on:



Integration

Integrable with any production or management software

- Exportable SCADA information
- Real time reading of all manufacturers of temperature and oxygen sensors
- Fish and food traceability



Hatcheries

Live Feed

- For Medium and Big-Scale Hatcheries

Automatic feeding system of artemia, rofiter and microalgae.

DOSING SYSTEM: Independent manifolds (one for each type of feed) and dosing by peristaltic pumps.

REFRIGERATION AND CONSERVATION SYSTEM: Refrigerated tanks with separate cooling systems and temperature maintenance at around 6° C.

CLEANING SYSTEM: Automated daily cleaning of the system.

CONTROL SYSTEM: Software for control and management of the feeder.



	Minimum	Maximum
Peristaltic Pumps	4	24
Tanks	1	4
Capacity Tanks [l]	250	500
Pipe Length [m]	10	100

- For Labs and Small-Scale Hatcheries

Connection to one tank supplied by customer.

Simple and user-friendly installation.



Hatcheries



Dry Feed

■ **For Medium and Big-Scale Hatcheries**

Dosing of micro diets from 200 up to 800 microns.



	Minimum	Maximum
Tanks	10	100
Pellet Size	300 µm	1 mm
Doses [day]	250	2500
Dose [gr]	10	200
Pipe Length [m]	10	150
Silos	1	4
Pipe Diameter	20	20
KW Compressor	5,5	7,5

■ **For Labs and Small-Scale Hatcheries**



Nursery

■ Centralized feeding systems for nurseries in land-based fish farms and/or RAS.

This is a phase in which the feed must normally be distributed to satiety in a high number of intakes. In addition, the size dispersion in the fry is significant.

Such conditions require the use of an agile feeding system designed to send a large number of doses with the possibility of making mixtures of feed of different sizes in the doses.



Nursery



Pregrowth

Modular

■ Centralized feeding systems for pre-growing in land-based fish farms and/or RAS.

Maximize efficiency in the intermediate growth stage.

At FishFarmFeeder, we create feeding systems for the pre-grow aquaculture phase, promoting healthy growth and efficient feed conversion.



Pregrowth

Cabinet



	Minimum	Maximum
Tanks	10	200
Pellet Size	1 mm	4 mm
Doses [day]	250	4000
Dose [gr]	>100 gr	>5 Kg
Pipe Length [m]	10	>800
Silos	1	8
Pipe Diameter	25	40
KW Compressor	5,5	7,5

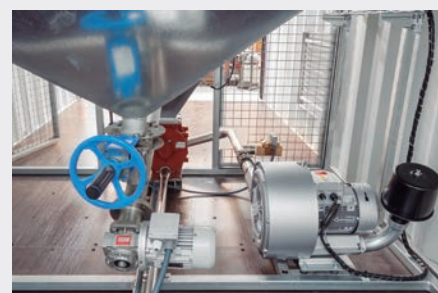
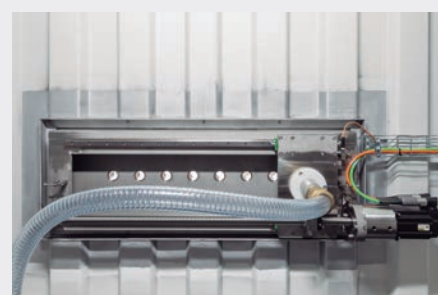
Pregrowth and Ongrowing

Container Feeding Systems



■ 20-foot Container Feeding System

20 feet (6.06 m) long, 8 feet (2.44 m) wide, and 8.5 feet (2.59 m) high, 2,300 kg (5,070 lbs).



Pregrowth and Ongrowing

Container Feeding Systems



■ 40-foot Container Feeding System

40 feet (12,2m) long, 8 feet (2.44 m) wide, and 8.5 feet (2.59 m) high, 3.750 kg (8.267 lbs)



On-growing

Modular



■ Feeding systems for on-growing in land-based fish farms.

Ensure efficient grow-out with automated feeding.

At FishFarmFeeder, we provide grow-out aquaculture feeding systems designed to optimize growth and maximize feed conversion during the final development stage.



SELECTOR

INTERMEDIATE HOPPER

BLOWER & COOLER

On-growing

Cabinet



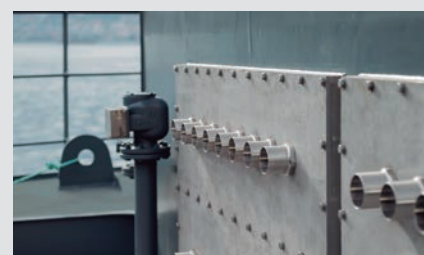
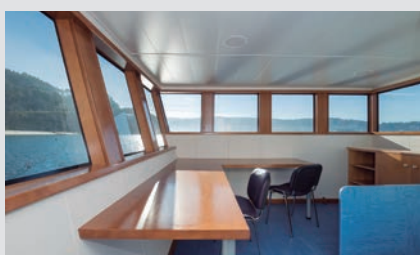
	Minimum	Maximum
Tanks	10	100
Pellet Size	5 mm	>20 mm
Doses [day]	250	2500
Dose [gr]	10	200
Pipe Length [m]	10	>800
Silos	1	4
Pipe Diameter	63	110
KW Compressor	7,5	>30

On-growing

Off-shore Feed Barge

■ Feeding systems for fish on-growing on offshore feed barges.

At FishFarmFeeder, we develop feeding systems for offshore aquaculture designed to optimize productivity in demanding marine environments. Our solutions provide efficient and precise feeding, tailored to the specific needs of each species, ensuring healthy growth and maximizing feed conversion.



On-growing



Off-shore Feed Barge



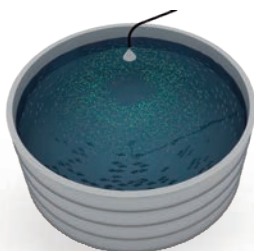
MEASURES	50 T	200 T	400 T
Length - Total (LOA)	16.5 m	22.10 m	26.65 m
Beam - Total (BOA)	8.22 m	10.00 m	13.00 m
Minimum Freeboard	2.35 m	2.65 m	3.07 m
Weight	80T	120T	160T

FEEDING CAPACITY	50 T	200 T	400 T
Number of Silos	6	4	8
Total Silo Capacity	50 T	200 T	400T
Total Silo Volume	72 m ³	200 m ³	460 m ³
Dosers	12	16	16
Feeding Lines	4	6	8
Diameter	>63 mm	>75 mm	>90 mm

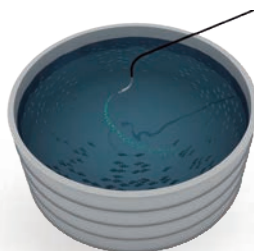
Spreaders

For Circular Tanks

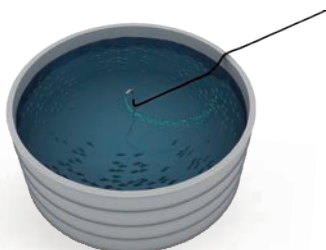
Inverted Cone



Spreader Rotator Down



Spreader Rotator Up



Cyclone



Inverted Cone



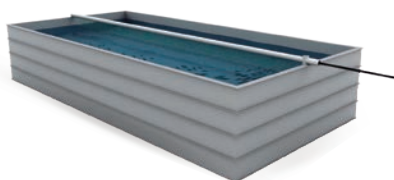
Rotator



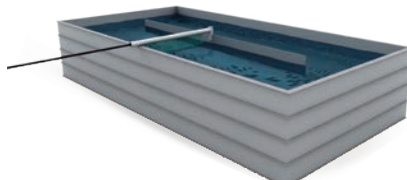
Cyclone

For Rectangular Tank

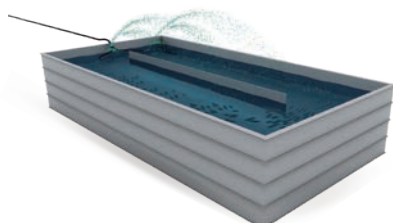
Lengthwise



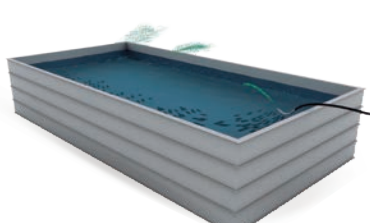
Breadthwise



Bifurcator



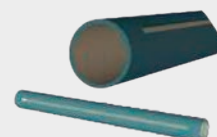
Parabole



Bifurcator



Splitter

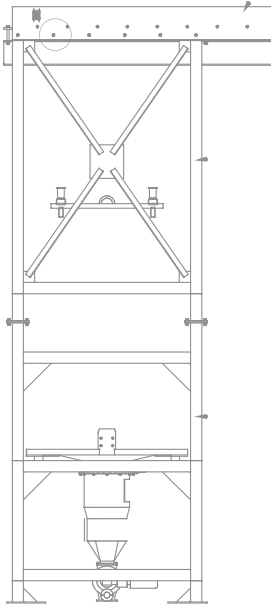
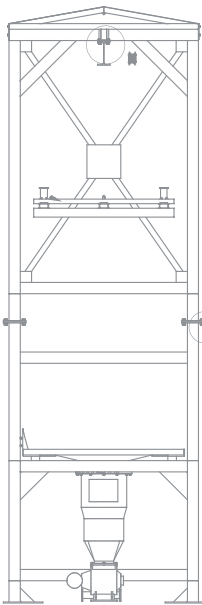


Perforated Pipe

Loaders

Big Bag Loader

- If the pellets are delivered to a fish farm in big bag format, it is necessary to have a system that allows to move the pellets to silos before its distribution to tanks.
- The bag with pellets is raised with the help of a loader to a height that allows its opening in its bottom part and guide the pellets through a pipe and distribute to the desired silo.



TECHNICAL SPECIFICATIONS	
Diameter	75 mm
Side Channel Blower	7.5 kW
Hoist	1500 kg
Structure	AISI 316 stainless steel
Protections	Polycarbonate

Silos Loader

- This type of silos is manufactured in stainless steel (for salt water) or galvanized treatment (for aquaculture production in fresh water).
- The volume of the silo is defined by the fish farm, reflecting the feeding needs. The main advantages of custom-made silos are:
- Adaptation to the available space at the farm.
 - Designed and manufactured to optimal pellet consumption capacity and thus contributing to reduce its unwanted deterioration.



PORTFOLIO

Centralized Feeding Systems

1

HATCHERY

Tailored feeding for optimal early-stage development.



2

PREGROW

Maximize efficiency in the intermediate growth stage.



3

ONGROWING

Ensure efficient grow-out with automated feeding.



Specialized Equipment

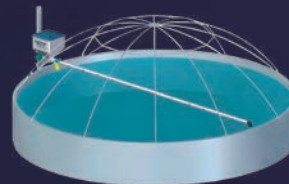
LABS



CAGE FEEDERS



SCREW FEEDERS



LOADERS

