FFF
FishFarmFeeder

Hatcheries

LAND BASED

Pellet 50-800 µ
Ø Pipe 20 mm

Live feed

Dry feed

Pre-grow

LAND BASED

Pellet 1-4 mm
Ø Pipe 25-40 mm

Ongrowing

LAND BASED **SEA BASED**

Pellet 4-20 mm
Ø Pipe 50-90 mm

The only manufacturer worldwide that covers all feeding stages of **fin fish and shrimp, for land or sea based systems**
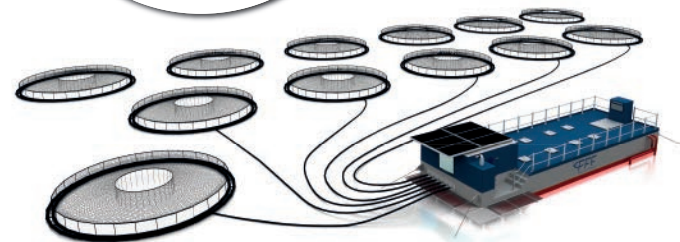
For Medium and Big-Scale Hatcheries

Automatic Feeding System of Artemia, Rofiter and Microalgae.

	Minimum	Maximum	
Selector Matrix	6	24	Number of outlets per selector
Feed Type			Live Feed, Microalgae
Number of Silos	1	4	Number of silos per feeder
Length of pipes	1	100	Length of pipes in meters

For Labs and Small-Scale Hatcheries

For Medium and Big-Scale Hatcheries

Dosing of micro diets from 200 up to 800 microns

	Minimum	Maximum	
Selector Matrix	20	60	Number of outlets per selector
Size Pellet	200 μm	800 μm	Size of pellet to use
Feeding pipe size	20	20	Diameter of HDPE pipe
Individual Dose	> 10 gr	100 gr	Size of each individual dose
Compressor	5,5 kW	7,5 kW	kW of power consumption
Doses per day	1	> 4000	Number of doses per day
Number of Silos	1	4	Number of silos per feeder
Length of pipes	1	100	Length of pipes in meters

For Labs and Small-Scale Hatcheries

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

	Minimum	Maximum	
Selector Matrix	20	200	Number of outlets per selector
Size Pellet	1 mm	4 mm	Size of pellet to use
Feeding pipe size	25	40	Diameter of HDPE pipe
Individual Dose	> 10 gr	25 Kg	Size of each individual dose
Blower | Compressor	5,5	7,5	kW of power consumption
Doses per day	1	> 4000	Number of doses per day
Number of Silos	1	8	Number of silos per feeder
Length of pipes	1	400	Length of pipes in meters

Selector

Silos-Dosing

Blower
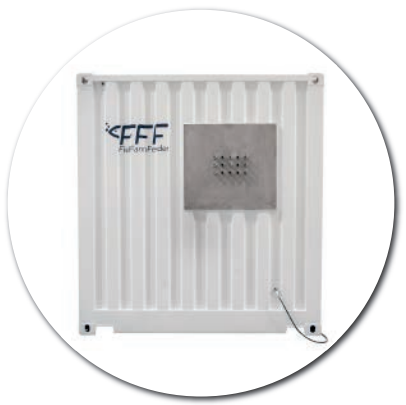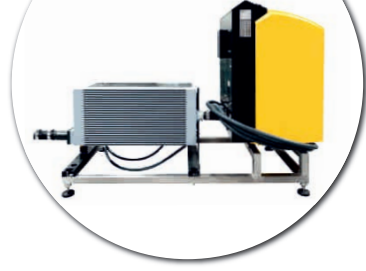
Feeding systems for ongrowing in land-based fish farms.

|	Minimum	Maximum	
Selector Matrix	10	100	Number of outlets per selector
Size Pellet	4 mm	> 20 mm	Size of pellet to use
Feeding pipe size	50	100	Diameter of HDPE pipe
Individual Dose	> 5 Kg	> 400 Kg	Size of each individual dose
Blower | Compressor	7,5	> 30	kW of power consumption
Doses per day	1	1440	Number of doses per day
Number of Silos	1	8	Number of silos per feeder
Length of pipes	1	800	Length of pipes meters

Selector

Intermediate Hopper

Blower+Cooler

Feeding Capacity

	50 T	200T	400T
Number silos:	6	4	8
Silo Capacity	9 T	50 T	50 T
Total Silo Capacity	50 T	200 T	400 T
Silo Volume	12 m³	45 m³	70 m³
Total Silo Volume	72 m³	280 m³	460 m³
Dosers (Auger Screws)	12	16	16
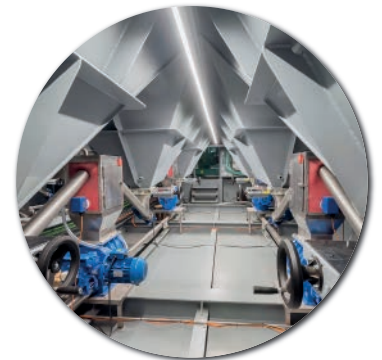
Selector

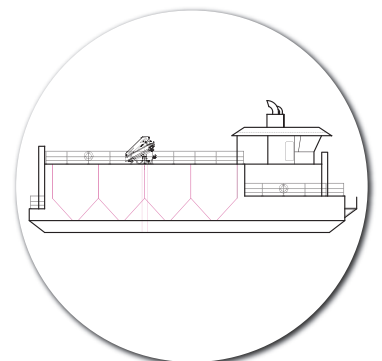|	50 T	200 T	400 T
Feeding Lines	4	3	4
Selector Matrix	4x8	3x6	4x6
Diameter	63 mm	75 mm	90 mm
Max. Pellet Size	8 mm	15 mm	25 mm
Blower	4x15 kW	3x15 kW	4x22/30 kW
Feeding Rate	40 Kg/m	50 Kg/m	100 Kg/m
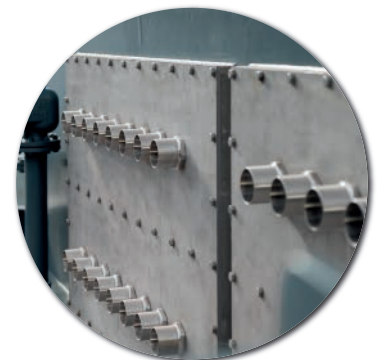
Barge Specifications

	50 T	200 T	400 T
Generators	2x100 kW	2x100 kW	65+180 kW
Diesel tank	2x1 m³	2x11 m³	2x13 m³
Freshwater tank	1 m³	2x3 m³	2x5 m³
Sewage	0,5 m³	3 m³	5 m³

Measures and Components

	50 T	200 T	400 T
Length - total (LOA)	16,50 m	22,10 m	26,65 m
Beam - total (BOA)	8,22 m	10,00 m	13,00 m
Minimum freeboard	2,35 m	1,65 m	3,07 m
Weight	80 T	120 T	160 T
Cranes	Optional	Optional	Optional
Waves	4 m	2 m	2 m

Advantages

Pre-Growth of fingerlings in cages

Increase your SGR

Homogeneous growth

Pre-grow Feeding

Pellets Size	**1,5 mm - 3 mm**
Dispersion Radius	**4,5 m**
Feeding Rate	**50 Kg/hour**

Silo

Capacity	**250 Kg**
Top Loading	**Pipe + Cyclone**
Silo Recharge	**5 min at 50 kg/hour**
Ø pipe	**50 mm**

Solar Panel

Solar Panel Size	**1 m²**
Battery Autonomy	**2-3 hours**

Spreaders

For circular tanks

Inverted Cone

Spreader Rotator Down

Spreader Rotator Up
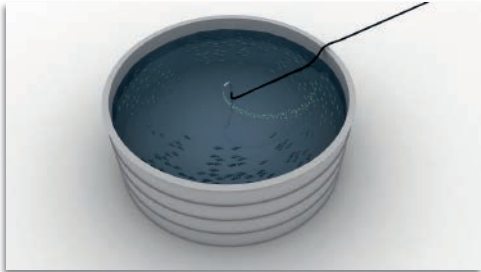
Cyclone

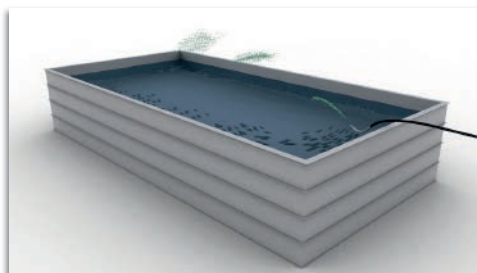## For rectangular tank

Lengthwise
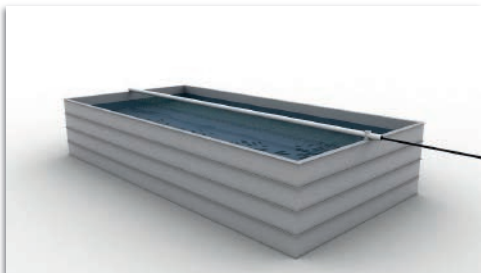
Breadthwise
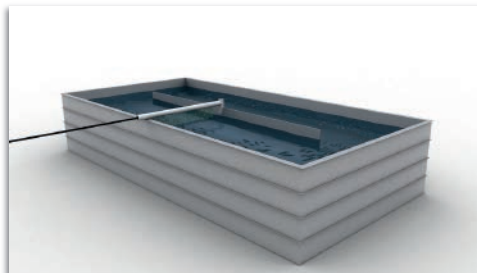
Bifurcator
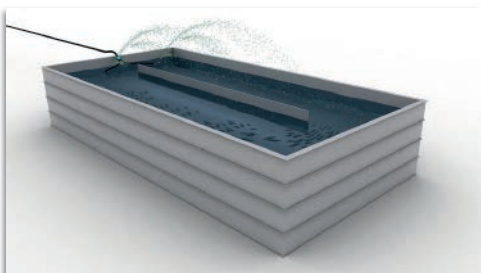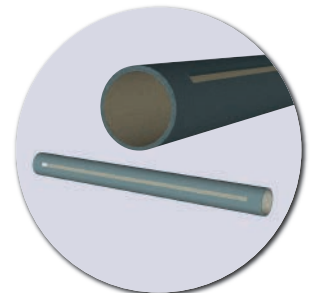
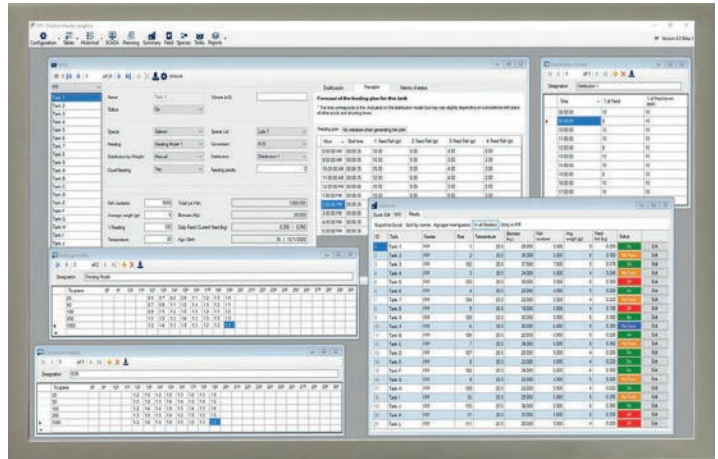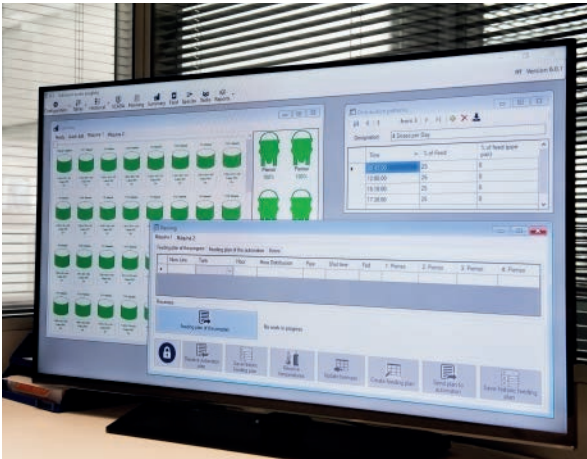**Parabole**

FishFarmFeeder includes in all its feeders a powerfull and complete software for feeding and production control. You can program the feeder to send multiple doses of small quantities throughout the day or schedule larger quantities to be distributed in a few doses in a few hours.

Parameterizable for any species of fish or shrimp

- **Feeding tables** valid for all feed manufacturers
- **FCR tables** valid for all feed manufacturers
- **Feeding Distribution Tables** with customizable **Doses at any time** of the day
- **Standard reports** and possibility to export **Information to Excel**
- Storage of the food history

Individual configuration of each tank with

- **Tank status** (ON, OFF, Stand-by)
- **Feed, FCR and distribution** tables per tank
- Number of fish and biomass
- Custom feeding program
- **Tank temperature**
- **Percentage of total feed to be given**, more or less, at the discretion of the fish farmer
- **Types of feeding** to be used in feed, being able to mix different feeds in the same dose
- **Feeding plan simulator** with time and quantity

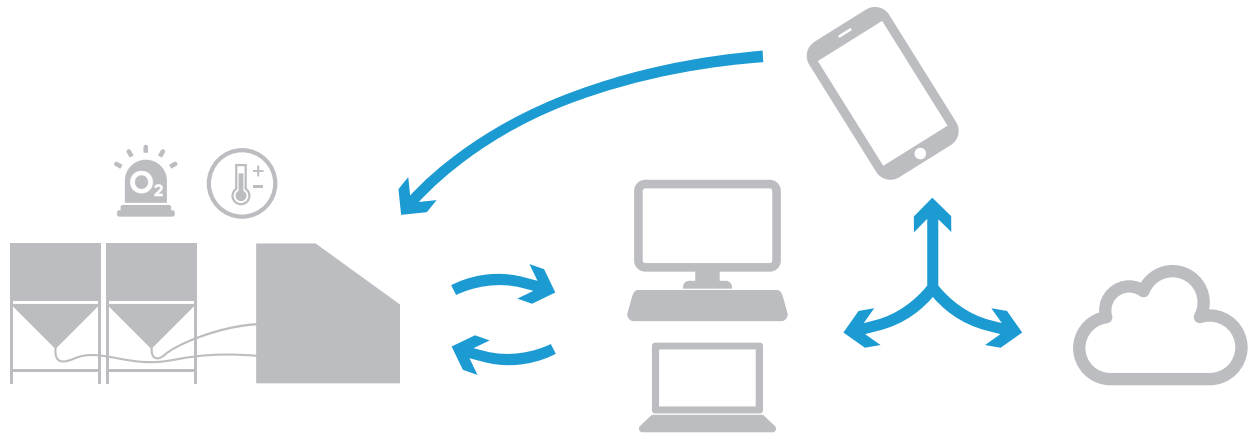| SETUP | SCADA | CREATE | FISHFARM | DOSING | PLANNING | PELLETS | SPECIES | SENSORS | HISTORICAL | REPORTS |

Software - 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**

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.**

Connect with your feeder in real time from anywhere and at any time.

Download our App and you can easily interact remotely with the feeder.

Real Time Monitoring

Warning and Alarm System

Know the State of the Feeder

Accessible through Smartphone or Tablet
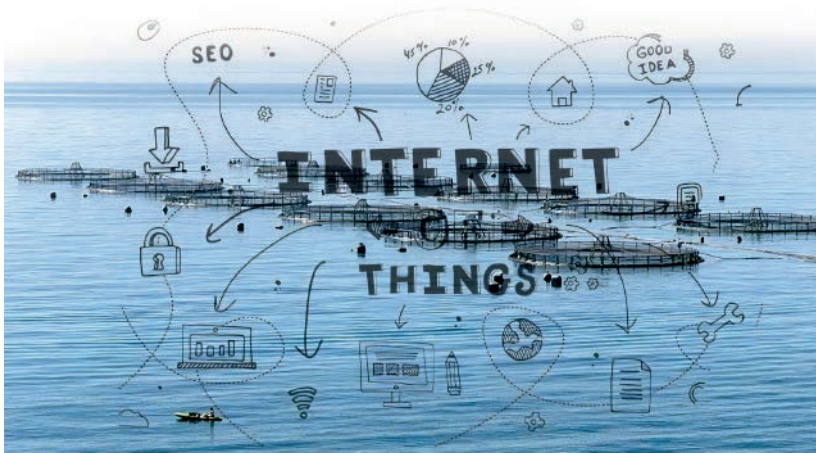
Loaders

Big bag Loader


Silos Loader

Software Cloud - AI - Machine Learning

FFF works on AI integration. Under the project Connected Aquaculture the goal is to have a global and continuous information of the production environment based on the Big-Data and Artificial Intelligence.

Our complete hardware-software solution allows the centralized acquisition of multiparameter data to generate "data-lakes" that through Big Data techniques and Artificial Intelligence (AI) allows the sector to have a tool to predict and anticipate risks, advancing towards the concept of precision aquaculture. This AI real-time monitoring is designed to reduce operational cost and improve sustainability.
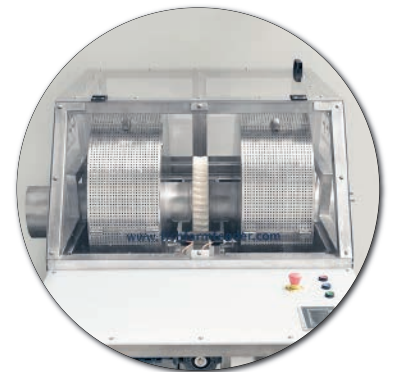
Features

Can hold **up to 50 liters of Vaccine** solution at standard dilution (expandable to 150 liters using an optional kit).

Vaccination time configurable **from 33 to 85 secs** by the operator.

Fed by a fish pump, the Vaccinator can work with variable **water flows up to 15 m³/hr.**

Can be equipped with oxygenation of the Vaccine solution.

Connectable to a 2,5" fish pump. Adaptive to a 4" fish pump.

Can also be used for anesthetic bath or other therapeutics.

Low energy input (0,55 kW).

Requires an additional external flow of clean water of around 1-1,5 m³/hr to carry the fish post-vaccination.

Capacity of the vaccinator: **1.000 to 1.500 Kg/day** @ around **2 gr average** body **weight**.

Labour Savings

The FFF Vaccinator remains under the control of a single operator for the whole process when vaccination at hatcheries often requires a team of 5 or 6 people to reach the same vaccination rhythm.

Tough construction

The Vaccinator is built from carefully chosen material and equipment. It is seawater resistant and highly reliable.

Commissioning

Very easy and shall not require specific assistance. However, FFF is keen to support any new user if needed.
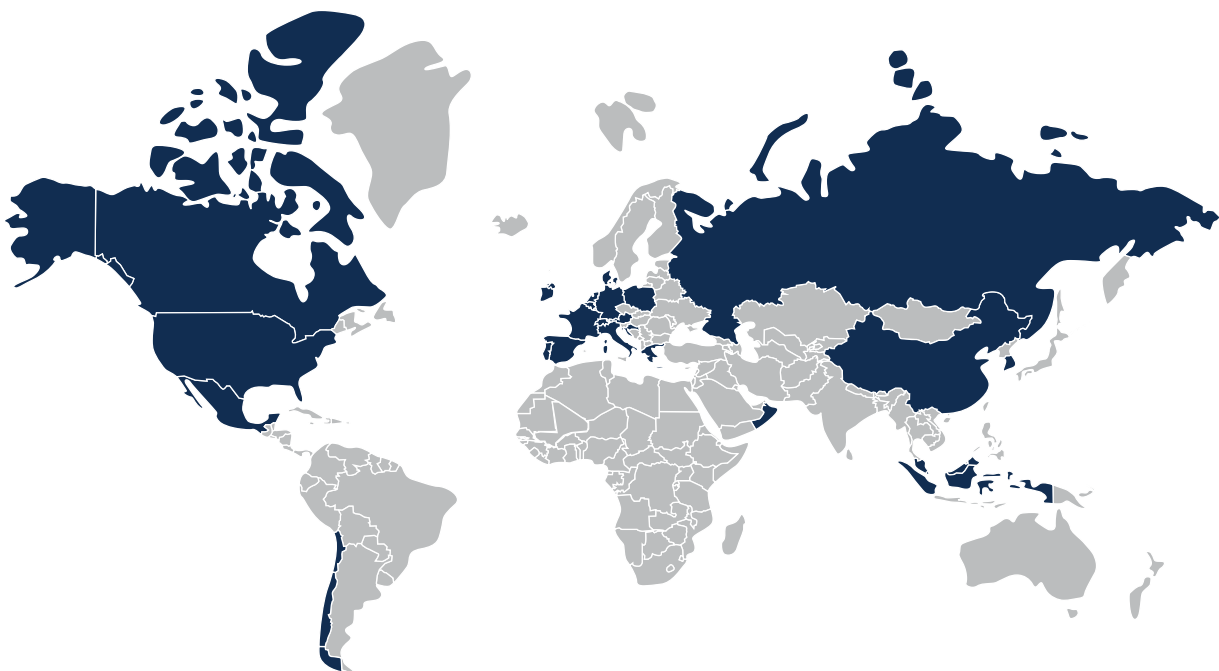
FFF
FishFarmFeeder

Aquaculture Feeding Systems
LANDBASED • SEABASED • RAS

Why a Feeder?
FCR optimization • Feed saving • Labor saving
Faster growth • Feed traceability • Fish traceability
Less pollution • Improved fish welfare • Amortization 3 years

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European Union