

## Central feeders



### Central feeder for fish production

Automatic and accurate central feeding systems give you big savings in the production of fish.

Automatic central feeding results in less feed waste due to better control of feeding volumes. This decreased feed waste also decreases the pollution of the site. The system gives a very good spread of feed in the tank or cage and 60-80 % of the water surface is covered. The system will give a low feed conversion ratio in production, which also results in lower costs and makes you more competitive.

Newly developed PC-software based on Windows enables individual and accurate feeding in each outlet. The software is very flexible and user-friendly, so that all changes in tank numbers, channel selection and changes in feeding outlets can be made directly. It is very simple to create your own feed plans in addition to the different models incorporated in the software, allowing to feed the fish in your preferred method.



The control of the feeder is divided into two steps. The core of the feeder is an industrial PLS, which allows access to the most important setting and data. In the computer the software allows for control of all settings and analysing the data. The feeder is designed to function even without the PC attached, enabling normal operation even in case of a PC failure. Exchange of data between the software and different farm management software is also possible.





## Central feeders

### Construction

The Ocea feedstation Feeder is built as a compact unit on a common framework. This provides flexibility, as the feeder is easily transportable. The total silo capacity in the compact unit is approximately four tons of feed and is suited for filling from big bags. The standard feeder has two silos. The software has a capacity to handle up to eighth feedlines with max sixteen silos, if needed. Each silo has its own auger, which accurately dispenses the correct amount of feed. With the aid of a low temperature air blower the feed will be transported, via a self cleaning sluice, through 75 and 90 mm pipes to the fish cages in lengths up to 800 meters from the feeder (20 or 50 mm for hatchery/nursery application in lengths up to 600 m).

### Economy

The Ocea feedstation Feeder has a high feeding capacity and is specially adapted to modern operation systems with cages in exposed sites or with a low cycle time. The system is adapted to modern operation systems with a large number of tanks, sites not easily serviced by road, increased amount of feeding. Dependable feeding and full exploitation of feeding periods give maximum growth. The system requires low labour involvement so operators can spend time on other important tasks, such as checking and caring for fish, inspections and maintenance.



### Technical specifications per feedline:

	Hatchery/nursery	Ongrowing
Feeding capacity:	0-300 kg/hr	100-3.000 kg/hr
Feeding accuracy:	97-100 %	97-100 %
Distribution length:	up to 600 m	up to 900 m
Silo volume:	as per request	
Number of outlets:	depending on system	
Power consumption:	4-10 kW	7.5-18 kW
other models on request		

## Feeding barges

### New complete turn key feeding barge designed for all locations

Years of research and development at Ocea, led to this robust practical system designed to perform in harsh marine environments associated with the fish farming industry today.

Trials and practical experience based on many operational systems in a number of exposed locations have enabled Ocea to develop a high quality, user friendly system capable of supporting fish farms not easily serviced by road etc.

We offer 4 purpose built models to choose from.



### Technical specifications:

Feed storage:	Depending on system
Automatic feeder:	Ocea single, Ocea twin and Ocea quattro feedstationfeeders, or special designs.
Feeding capacity:	0-25.000 kg/hr., or special designs
Accommodation/control room:	Insulated restroom/control room, wardrobe/washroom, lounge/cabins below deck as a special option.
Watersystem:	1.000-2.000 liter acid proof steel watertank pressurized water system, hot and cold. 1.000 liter wastetank, watercloset, shower/washroom.
Electrical:	230/380 V generator/shore connection, all rooms with light. Searchlight or floodlight and blinking marking light.
Diesel:	3.000-6.000 liter diesel tank.
Ensilage system can be added to the gear.	
Special models on request.	



## Feed spreader

The Ocea RotoFeeder is a modern spreader with a long life-span and solid construction. The ballast-based construction ensures an extremely stable floating position in the water, even in rough sea. Its capacity is compatible with modern feeding installations, with adjustable throwing length. Feeding hose diameter: 90 mm.

**Little breakage:** The pipes and joints have been specially adapted to ensure minimal feed breakage.

**Extremely stable floating position:** This is achieved by a stabiliser that penetrates deep into the water and a pipe formation that is designed to prevent interference from waves, wind and currents.

**Stainless steel pipes:** Avoidance of the wear and tear of pipe parts and associated feed breakage problems often encountered when using aluminium pipes. A very solid ball-bearing ensures minimal rotational friction and a long life span



Throwing Radius	Material	Out Ø	Width	Length	Weight
5 -10 meter	Stainles steel + HDPE	90 mm	280 mm	3800 mm	55 kg

## Feed cannons

### Norfab Water Blitz feed cannon

With some of the latest feeding regimes comes the requirement for a method of quickly distributing feed into the cage. Norfab's Blitz feed cannon is capable of doing the job, and has been developed from the successful Wet Jet feed cannon.

The feeder can distribute 80 kg of feed per minute, spread over the whole cage surface up to 20 m distance. This gives complete coverage and ensures all the fish to be fed to satiation, without crowding and stress.

Not everyone wants to feed at 80 kg per minute, though. Feeding rates can be varied by use of a slide valve, to restrict feed flow, so that 25 kg per minute or 50 kg per minute is easily obtained.

There are two models available: the wheeled chassis and the skid chassis. Operating the feeder is very simple.

The Blitz feed cannon for fast-track feeding and all other feeding needs.



### The Water Blitz

- Variable feeding rate: up to 80 kg per minute.
- Feed is distributed in a wide spread-pattern, over 20 meters. This makes it easy to cover the whole cage surface, ensuring uncrowded and unstressed feeding.
- Easy operation makes feeding less of a chore.
- 50 kg hopper allows continuous feeding.
- Portable and compact, skid or wheel mounted and durable and strong.
- Simple, reliable, durable or strong feeder for long, trouble-free service.

### Technical specifications:

- Stainless steel construction on a galvanized steel chassis.
- Petrol or diesel driven pump.
- 50 kg hopper (35 kg option).
- 75 mm diameter barrel for feeding up to 12 mm pellets.
- Wheeled, manoeuvrable chassis, incorporating low ground pressure tires (Not on skid model).
- Feeding rate : up to 80 kg per minute.  
Range : up to 20 meters.

