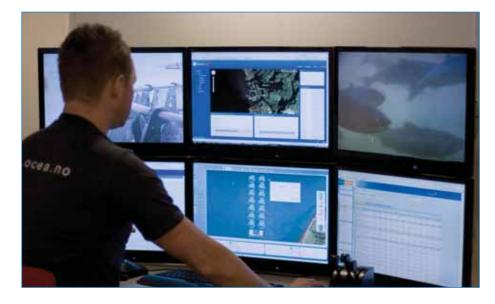
# **Offshore Farming**

# Catvis

# -eeding/heec

# 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 controll 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 eight 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 reques	t	

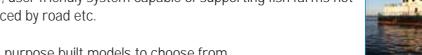
# Feeding barges

# 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/	Insulated restroom/control room, wardrobe/
control room:	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 re	

Catvis B.V. - Tel.: + 31 73 621 33 23

# Offshore Farming

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# 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



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

# 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.



# **Offshore Farming**



# Feed cannons



### Air feed cannon

The air feed cannon is an easy to use, effective and mobile feeder. It has a hot dipped galvanised steel chassis and plastic parts, ensuring a long lifetime even in the harshest conditions.

The Air feed cannon is suitable for all cage and tank farms. Without the need for suction hoses. The wheeled model can be moved along a steel cage walkway, or around a pond or tank farm, and set up to feed anywhere, with ease. Stationary systems can be placed on a boat/car or else. The feed is distributed in a wide spread-pattern, over a range of about 10-15 meters.

This makes it easy to cover the whole cage, pond or tank surface and makes sure that fish do not crowd to where the last feed fell. There is always a plentiful and continuous supply of feed. Stress among the fish can therefore be reduced, which will result in improved performance and less waste

The maximum feeding rate is from 25 kg up to 80 kg per minute depending on the model, with adjustments to the rate being made by means of a simple slide valve. The range can be altered using the engine throttle controls.

# **Technical specifications:**

Engine type	Hopper	Out Ø	Feed	Weight
	kg		capacity	kg
			kg/min	
Honda GX 160-5,5 HP	100	3"	25	55
Honda GX 270-9 HP	150	3"	40	85
Honda GX 390-13HP	150	4"	80	95
Honda GX 390-13 HP	500	4"	80	215
	Honda GX 160-5,5 HP Honda GX 270-9 HP Honda GX 390-13HP	kg  Honda GX 160-5,5 HP 100  Honda GX 270-9 HP 150  Honda GX 390-13HP 150	kg  Honda GX 160-5,5 HP 100 3"  Honda GX 270-9 HP 150 3"  Honda GX 390-13HP 150 4"	kg         capacity kg/min           Honda GX 160-5,5 HP         100         3"         25           Honda GX 270-9 HP         150         3"         40           Honda GX 390-13HP         150         4"         80

# Notes
