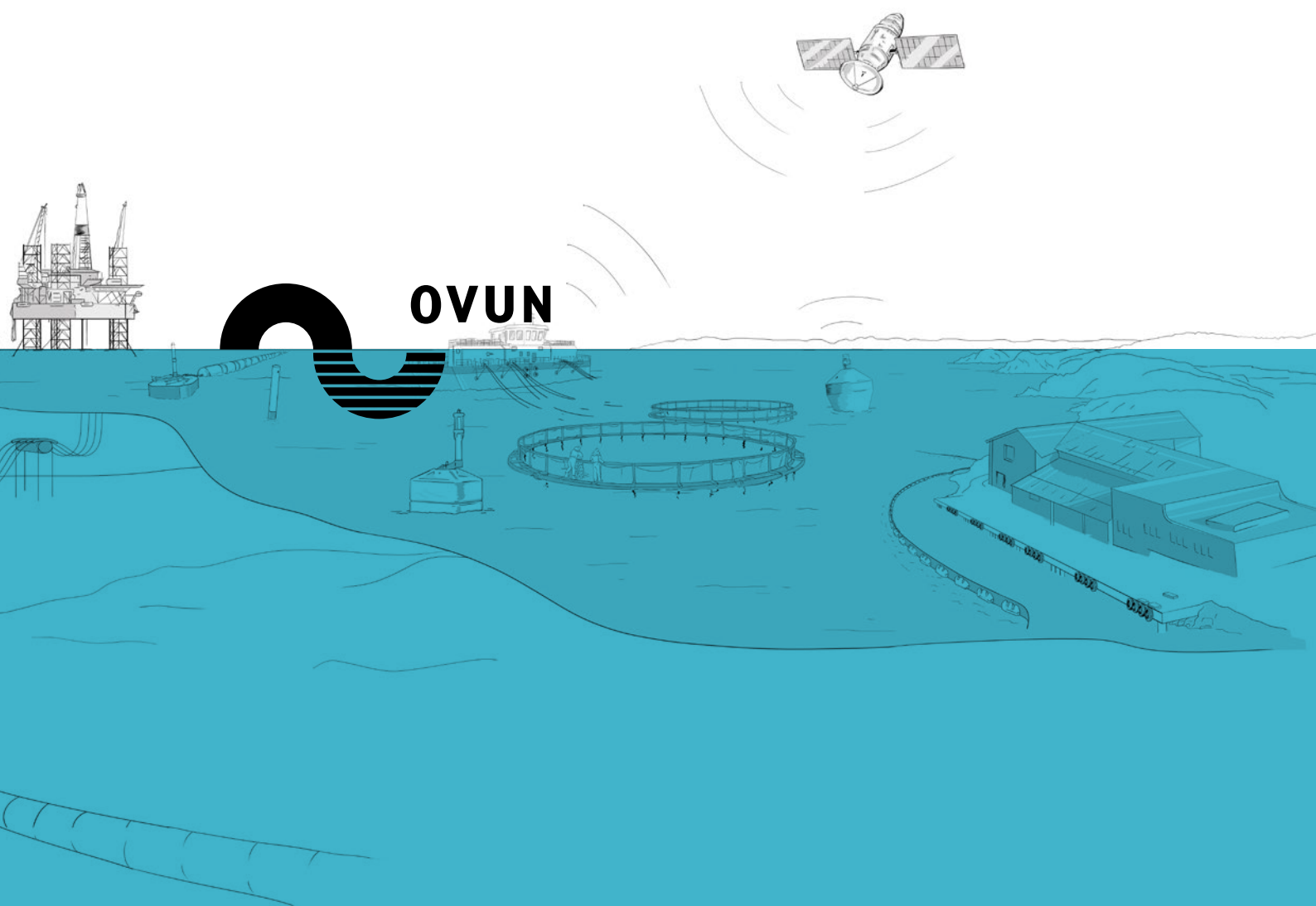




Activa

Aquaculture buoys and accessories

Activa Aquaculture buoys

Activa is our complete product range of buoys, lights and equipment for aquaculture.

Our Activa FFB range is developed based on our long experience with producing buoyancy products for some of the harshest environments in the world. Activa buoys are a complete series of buoys ranging from 800 to 12 000 liters. The outer shell is made of impact-resistant, rotationally moulded polyethylene (PE), and filled with expanded polystyrene foam (EPS) providing excellent buoyancy properties.

The buoyancy properties for our products have been developed and tested over several years. Activa Aquaculture Buoys are designed and produced according to the Norwegian Standard for Floating aquaculture farms (NS 9415).

If marker lights are needed, all of our Activa buoys are compatible with the Activa 1800 marker light.



	Activa FFB 700	Activa FFB 1000	Activa FFB 1500
Volume	831 liters	1141 liters	1638 liters
Buoyancy	755 kg	1064 kg	1549 kg
Weight	97 kg	106 kg	130 kg
L x W x H	111 x 111 x 108 cm	120 x 120 x 124 cm	130 x 130 x 144 cm
MBL	22 t	22 t	22 t
Product ID	174893	175563	175566
Product ID centered mast	179210	179089	179085



	Activa FFB 2 000	Activa FFB 3 300	Activa FFB 4 400
Volume	2 180 liters	3 580 liters	4 840 liters
Buoyancy	2 040 kg	3 330 kg	4 400 kg
Weight	210 kg	340 kg	590 kg
L x W x H	162 x 162 x 122 cm	162 x 162 x 177 cm	180 x 180 x 194 cm
MBL	44,9 t	44,9 t	63,2 t
Product ID	174895	174912	174969

Sustainability

We accept old buoys for recycling, and give new life to used plastic products.



Activa FFB 4 900

Volume	5 140 liters
Buoyancy	4 850 kg
Weight	420 kg
L x W x H	162 x 162 x 237 cm
MBL	44,9 t
Product ID	174917



Activa FFB 6 300

Volume	6 900 liters
Buoyancy	6 300 kg
Weight	800 kg
L x W x H	180 x 180 x 263 cm
MBL	63,2 t
Product ID	174976



Activa FFB 7 800

Volume	8 300 liters
Buoyancy	7 770 kg
Weight	760 kg
L x W x H	234 x 134 x 217 cm
MBL	63,2 t
Product ID	174920



Activa FFB 8 200

Volume	8 950 liters
Buoyancy	8 200 kg
Weight	1 000 kg
L x W x H	180 x 180 x 331 cm
MBL	63,2 t
Product ID	174977



Activa FFB 11 300

Volume	12 070 liters
Buoyancy	11 310 kg
Weight	1 090 kg
L x W x H	234 x 234 x 294 cm
MBL	63,2 t
Product ID	174932

Activa SmartTop Steel free buoys

Activa SmartTop aquaculture buoys is our steel free product line.

With its unique fitting, using polyurethane and fiber rope to replace traditional steel armature and chain, corrosion is eliminated, and the buoy is considerably lighter.

Activa Smart Top buoys have been designed according to Norsok R002 and can be certified as a lifting appliance if required. The fitting consists of top and bottom systems made from polyurethane and fibre rope.



	SmartTop 700	SmartTop 1000	SmartTop 1500
Volume	841 liters	1150 liters	1650 liters
Buoyancy	777 kg	1080 kg	1574 kg
Weight	86 kg	93 kg	116 kg
L x W x H	111 x 111 x 130 cm	120 x 120 x 140 cm	130 x 130 x 160 cm
SWL	6 t	6 t	6 t
Product ID	175712	176721	176722



	SmartTop 2000	SmartTop 3300	SmartTop 4900
Volume	2221 liters	3615 liters	5174 liters
Buoyancy	2097 kg	3418 kg	4936 kg
Weight	179 kg	288 kg	367 kg
L x W x H	162 x 162 x 170 cm	162 x 162 x 225 cm	162 x 162 x 285 cm
SWL	14 t	14 t	14 t
Product ID	175713	175714	175715

Activa SmartTop Buoys

20 years expected lifespan and suited for steel free mooring. Can be delivered in recycled materials.



	SmartTop 4 400	SmartTop 6 300
Volume	4 937 liters	6 997 liters
Buoyancy	4 585 kg	6 535 kg
Weight	475 kg	637 kg
L x W x H	180 x 180 x 249 cm	180 x 180 x 318 cm
SWL	23 t	23 t
Product ID	175673	175691



	SmartTop 7 800	SmartTop 8 200	SmartTop 11 300
Volume	8 426 liters	9 057 liters	12 199 liters
Buoyancy	7 957 kg	8 484 kg	11 264 kg
Weight	680 kg	799 kg	1 240 kg
L x W x H	234 x 234 x 272 cm	180 x 180 x 387 cm	234 x 234 x 349 cm
SWL	23 t	23 t	23 t
Product ID	175693	175697	175695



Activa 1800 Marking Light

The Activa 1800 LED light mast is great for marking aquaculture installations, and has been designed to meet all industry demands. We have a strong focus on useability, sustainability and durability. Therefore our marking light is available in the following varieties:

Product ID 178578	Activa 1800 PWX GPS	with replaceable alkaline battery
Product ID 179144	Activa 1800 RECHARGE	with rechargeable battery
Product ID 179094	Activa 1800 SOLAR	with solar cells, rechargeable battery and integrated charger
Product ID 179274	Activa 1800 AIS	with integrated AIS

All our light masts can be split in the middle for easy access and battery change. They are equipped with lanterns, top protection, bird spike, reflex and a radar reflector. Mastfoot and brackets for safe installation on buoys are available for different buoy types. Monitoring is an available add-on for all of our light masts via LTE-M.



Strømkilde

We offer several different types of batteries. Choose between our alkaline battery with a lifespan of more than 2 years, or our rechargeable battery with a lifespan of more than 10 years and year-round operation when combined with our solar panel, Activa SOLAR. Without solar cells, you should expect to charge the battery once or twice per year. Recharging an empty battery only takes 12 hours with our charger.

Product ID 176635	Battery - Alkaline
Product ID 178789	Battery - Rechargeable (Lithium)
Product ID 178706	Charger for rechargeable battery
Product ID 179212	Adapter - To use Ovun battery with a third party light mast



Solar panels and battery monitoring

Activa 1800 SOLAR has 4 solar panels covering the lower part of the mast, where the rechargeable battery is located. This is a good solution for facilities with a lot of sunlight, as you won't need to replace the batteries. A facility located in the shade for longer periods (typically the south end of a fjord with tall mountains) would not be very applicable for solar panels. Activa 1800 RECHARGE is a good alternative in these cases, as the empty battery can be replaced and recharged in a separate battery charger.

Combined with monitoring either by 4G or by using the Low Battery Indicator, you stay up to date on the condition of the battery, and can easily take measures to replace disposable batteries or charge rechargeable batteries.



Brackets for assembly

By using adapted brackets, Activa marker lights are easy to assemble on all of our Activa buoys. Of course, we also have brackets for mounting on buoys from other suppliers.

Product ID 177190	Bracket for FFB
Product ID 175722	Bracket for Smart Top
Product ID 178969	Bracket for flat mounting



Activa Seaweed Buoys

These buoys are designed as mooring buoys for seaweed farming, where it is necessary to adjust the depth of the growth ropes in accordance with the seasons and the presence of sunlight. The Activa Seaweed buoys are available in three different sizes. They consist of a buoy in rotationally moulded polyethylene (PE), and filled with expanded polystyrene foam (EPS).

The fixture is galvanized steel. The top and bottom fixture are connected with a M24 threaded rod. The top fixture is prepared a long link chain to be installed onto it with a M24 bolt. The chain is only attached to the top of the buoy. This enables adjustment of the growth ropes depth. The two largest buoys have flat tops so that one can stand safely on top of the buoy.



Flat top

This buoy gives maximum stability and has little movement in the sea.



	Activa FFB 2100	Activa FFB 3 800
Volume	2 420 liters	4 160 liters
Buoyancy	2100 kg	3 800 kg
Weight	373 kg	429 kg
L x W x H	180 x 180 x 97 cm	234 x 234 x 108 cm
MBL	70 t	70 t
Product ID	175115	175117



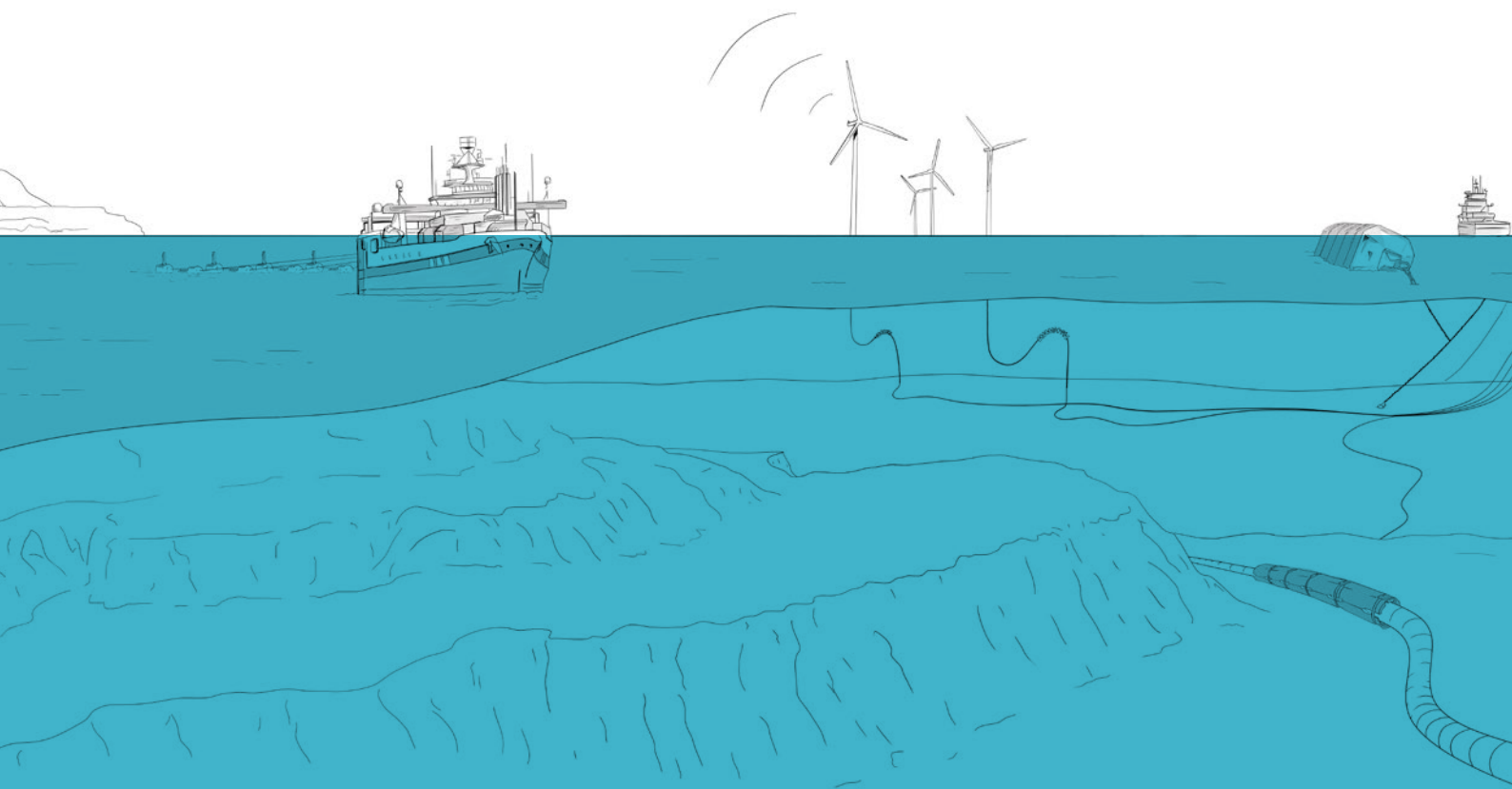
AIS Automatic Identification System

Aquaculture facilities that are especially exposed to surrounding boats and vessels can be equipped with our AIS transmitter. This ensures that the facility is visible on AIS systems onboard boats and vessels nearby in cases where light signals, reflex and radar reflectors are considered insufficient.

We deliver light masts with integrated AIS, and in combination with lights, radar reflectors and reflex, this mast meets the requirements for marking of aquaculture facilities – also in cases where AIS is a requirement.

The end user must obtain special permission from the Norwegian Coastal Administration to be able to mark a facility with AIS. Ovun can help configure the AIS unit with naming and MMSI number in accordance with this permission.





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