



SCALE **AQ**

Pen accessories



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ScaleAQ is a leading global technology provider that supplies and manufactures complete sites for aquaculture industry in more than 40 countries. The company has approximately 900 employees and offices in Norway, Scotland, Poland, Iceland, Chile, Canada, Tasmania and Vietnam. Through focus on sustainability and biology, ScaleAQ has taken a clear role in ensuring the development of technology on the terms of biology and the environment. We do this by producing and delivering technology, infrastructure and services in a solid, sustainable and innovative way.

Pen accessories

Our range of accessories and extra equipment for pens ensure that our already hardy solutions are even more secure and efficient.

Over the years, we have developed a selection of products that streamline operations by the edge of the pen and improve the safety of all personnel, fish and equipment. Extra equipment completes your aquaculture facility and ensures it is safe.

Please get in touch if you have an idea or a need that is not covered.



Fixed tamp holder

- Safe, efficient and easily accessible boat moorings.
- Ensures safety of aquaculture personnel during daily operations at the edge of the pen.
- The fixed tamp holder means that aquaculture personnel do not have to leave the boat when it is being moored.



Our fixed tamp holder has been designed to ensure the safety of aquaculture personnel during mooring of boats to pens. The fixed tamp holder is design in the shape of a hanger, and is positioned to hold fiberglass rods. It is recommended that the fixed tamp holder is used in places where personnel ordinarily moor boats.

Equipment

302251

Fixed tamp holder complete (customized for use with ScaleAQ floating collars with steel fixtures)

Mooring bracket fender

- Protects boats from wear and tear, as well as damage, when arriving at the pen.
- The color of the fender means that the mooring bracket and crowfoot are also visible during operations after the fall of darkness.
- The fender can be fitted during production of the pen, but can also be added once the floating collar is at sea.



Mooring bracket fender for the protection of mooring ears on brackets. The fender protects the attachment to the crowfoot, and is marked with bright colors that ensure aquaculture personnel know where the crowfoot is at all times. The mooring bracket fender can be retrofitted.

Suitable for:

- FR450
- FR500
- FR560
- FR630

Equipment

302249	Mooring bracket fender FR450, FR500, FR560, FR630
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Feed pipe holders

- Our feed pipe holders ensure the safe and efficient passing of pipes from the feed barge into the spreader in the pen.
- Our feed pipe holders are supplied to be fitted to both bracket poles and along the walkway.
- The feed pipe holders are designed for use with feed pipes with diameters ranging from 75 to 110mm.



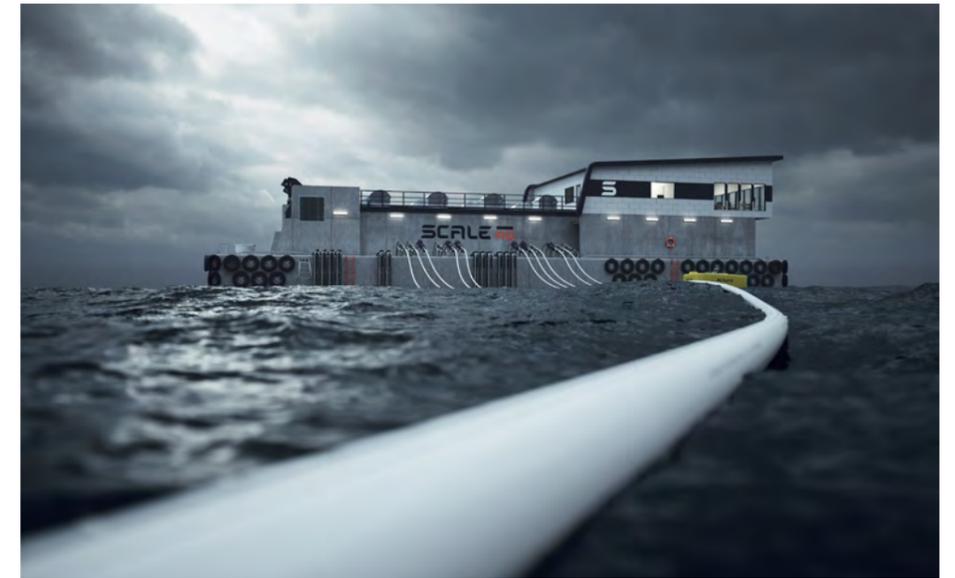
We supply two different types of holders for our feed pipes. The first type is fitted to a bracket on the walkway, with the feed pipe being led through the jump net. The second type is fitted to the handrail, with the feed pipe being led over the jump net.

Equipment

301416	Feed pipe holder by walkway
302265	Feed pipe holder by handrail

Feed pipes

- Our anti-static feed pipes are produced from solid PE material customized to aquaculture operator's standards and patterns of use.
- The feed pipes are supplied in a transparent design to enable the detection of any blockages and to ensure the efficient feeding of the fish.
- The feed pipes have been developed and tested in close collaboration with our supplier Hallingplast and SINTEF in order to find the optimum design that guarantees the requirements pertaining to quality and efficient feeding.



ScaleAQ supplies plastic pipes made from PE (polyethylene) for the transportation of fish feed. These have been developed in close collaboration with Hallingplast and SINTEF Energi. The pipes are solid, high quality products that resist the ordinary forces encountered during shipping, fitting and use. A transparent feed pipe makes it easier to discover and prevent any blockages, wear or dust build-ups. A transparent pipe also warms up less in the sun.

We supply the following dimensions: 32, 63, 75, 90 and 110mm in PE80 quality. We also supply screwed and electromagnetic joints for joined pipes.

Equipment	
301965	Feed pipe PE80 SDR13.6. Anti-static. Transparent
300974	Screwed joint
300768	Electromagnetic joint

Net quick coupling

- Our duplex steel quick release ensures quick and easy installation of bag nets to floating collars.
- The fiber strap connecting the net to the floating collar ensures a standardized distance between the net and all fixing points.
- The quick coupling reduces the use of ropes traditionally used when installing bag nets.
- The quick coupling requires aquaculture personnel to use pens with steel brackets and internal fenders. The use of internal fenders will also reduce wear and tear to the net.



ScaleAQ's quick coupling for nets has been designed to standardize the installation method, the distance between the rail support and net ears, and to reduce the unnecessary use of ropes and time. The quick coupling consists of an upper and lower steel component adapted to the rail support and secured using a custom ear pin. The net is fixed by running a circular strap through the net ear and back to the lower part of the quick coupling before it is locked using an ear pin. In order to avoid the quick coupling falling into the sea, it is tied to the rail support using two custom 3mm aquaneema ropes.

ScaleAQ's quick couplings are suitable for pens in these ranges: FR450, FR500, FR560 and FR630.

Equipment

302065	Net quick coupling
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Mooring lug insert

- The insert reduces wear and tear on the mooring lug and substantially extends the lifespan of the mooring bracket.
- The mooring lug insert can be retrofitted to operational pens, and is a cost-efficient option compared with replace a full mooring bracket.



The insert is fitted to the welded mooring lug on the mooring bracket, and acts as a replaceable lining that can be worn out. The mooring lug insert can be retrofitted at sea, or supplied pre-fitted to floating collars during production. This fitting means that aquaculture operators avoid the need to replace the full mooring bracket when wear and tear exceeds the set limits.

Equipment

302648	Mooring lug insert for 400/450/500 brackets
302739	Mooring lug insert for 560/630 brackets

Pen sign holder

- The pen sign holder provides aquaculture personnel with a good, statutory overview of their pens.
- The pen sign holder can be customized to feature the aquaculture operator's logo and pen numbers.
- The holders are fitted directly to the handrail, and can easily be moved around the pen to ensure the best possible position in terms of visibility.



Our pen sign holder is supplied complete with a custom frame made from PE, in addition to the customer's self-designed aluminum sign. The holder itself is easy to fit, and is customized to the customer's handrails. The sign ensures the pen is visible and clear to both aquaculture personnel and passing boats.

Equipment

302409	Pen sign holder, complete with sign
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Moduler til universalholder

- Developed in partnership with aquaculture operators
- Customized to fit different types of modules.
- The bracket, along with various modules, is fitted appropriately to the bracket post, taking into account position and accessibility.



The universal bracket has been developed in partnership with aquaculture operators in order to compliment the extra equipment found among their own resources and those of their subcontractors. ScaleAQ offers several different modules that fit the universal bracket for extra equipment. These modules offer solutions that make it possible to fit extra equipment such as camera winches, electrical cabinets and tools for drying cleaner fish shelters.

Equipment	
302732	Electrical cabinet module
302619	Boom for drying cleaner fish shelter
302609	Modular bracket angle plate

HDPE net hook protector

- The ScaleAQ net hook protector is an essential and unique tool for service vessels and aquaculture personnel that ensures the safe and efficient changing of nets.
- The net hook protector prevents netting and ropes from catching on net hooks when changing nets and linings.



The ScaleAQ net hook protector/HSE fitting prevents nets and ropes from catching on net hooks on the inside of the handrail when the net is pulled over the edge. The net hook protector also prevents crushing injuries.

Equipment

301744	Plastic hook protector, HSE fittings
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Complete rescue ladder for floating collars

- Helps to ensure a safe and secure working day for your operatives.
- Easy to deploy if the worst should happen, and we recommend a minimum of four per floating collar.
- Can be easily fitted to our pens both during installation and operation.



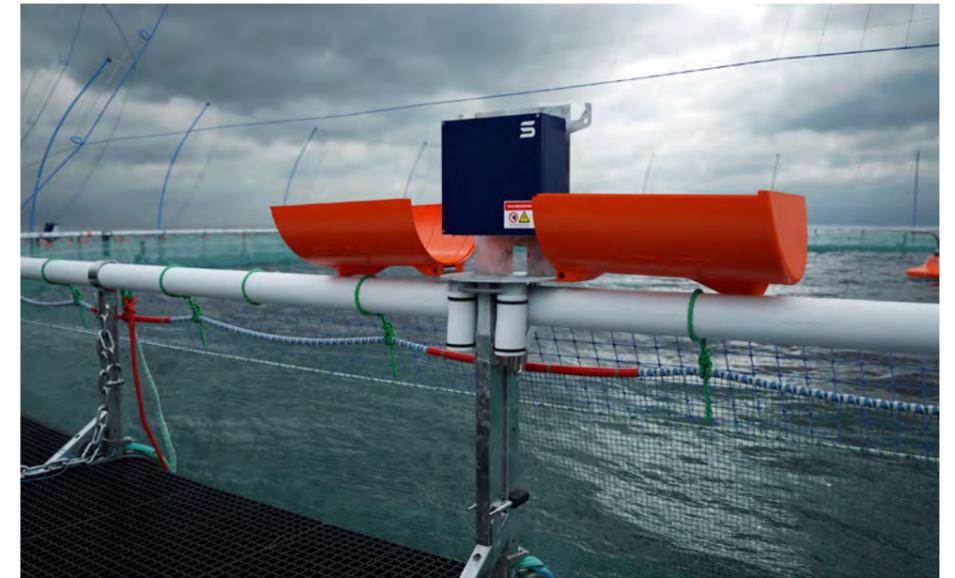
Our rescue ladders are non-slip and suit all types of floating collar. The ladder can be easily fitted to the walkway on the pen, and it is equipped with a colorful, non-slip cover that is easy to spot both at sea and onshore. ScaleAQ's rescue ladder is easy to deploy if the worst should happen, and is jointed to ensure easy use. We recommend four rescue ladders per pen.

Equipment

300124	Complete ScaleAQ rescue ladder for floating collars FR400-FR630
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Electrical cabinet module

- Protects the electrical cabinet from sea breezes, and prevents water penetration into the electrical cabinet.
- The color of the cabinet module makes it highly visible to aquaculture personnel.
- Designed to suit electrical cabinets supplied by us and solutions from other providers that are used by the aquaculture operator.



ScaleAQ's electrical cabinet module protects electrical cabinets on both our own pens and those from other suppliers. The cabinet provides protection from the elements, and ensures that the cabinet is securely fitted to the pen. The module is compatible with ScaleAQ's universal bracket for extra equipment.

Equipment

302732	Electrical cabinet module
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Bird net with fiberglass rod

- Specially adapted to suit all pens with both steel clamps and plastic clamps.
- Reduces the use of towers and hamster wheels.
- Can be adapted according to the customer's requirements in terms of mesh size and material.



ScaleAQ's bird net is made to enable easier access to the pen, with the sides of the net being designed to be raised and lowered like a Roman blind. By using PE (polyethylene), we can go down to 1.2 mm threads. This ensures the bird net is lightweight, which means that the top hangs at the same height above the pen. The use of 1.2mm thread results in less air resistance when it is windy, and the bird net remains taut and insitu no matter the weather. ScaleAQ supplies bird nets for all pen solutions.

ScaleAQ's bird net rods are made using glass fiber reinforced polymer (GRFP) and are developed on the basis of analyses and testing. Along with the rods, we also supply dedicated fasteners, casters and ropes for attachment to the clips and bird net.

Equipment	
302067	Complete ScaleAQ fiberglass rod with holder, pulley and rope
301641	Bird net PE1.2mm x250/100mmsq
302772	Bird net PE1.2mm x150/100mmsq

Universal bracket for accessories

- The universal bracket for extra equipment provides the aquaculture operator with the ability to use all extra equipment modules using the same bracket.
- Easily fitted to our steel brackets on posts.
- Developed in partnership with aquaculture operators and subcontractors to provide a customized solution.



ScaleAQ supplies universal brackets that make it easier to fit extra equipment to our floating collars. The modular brackets are designed to fit the following ScaleAQ floating collars: FR400, FR450, FR500, FR560 and FR630. The bracket is designed to be used for the safe fitting of extra equipment to the pen.

Equipment

302595	Bracket module 81x61x4mm complete with u-hoop
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Hinged net hook

- Our hinged net hook makes changing nets safer for aquaculture personnel.
- It reduces the risk of netting and ropes catching on net hooks during operation.



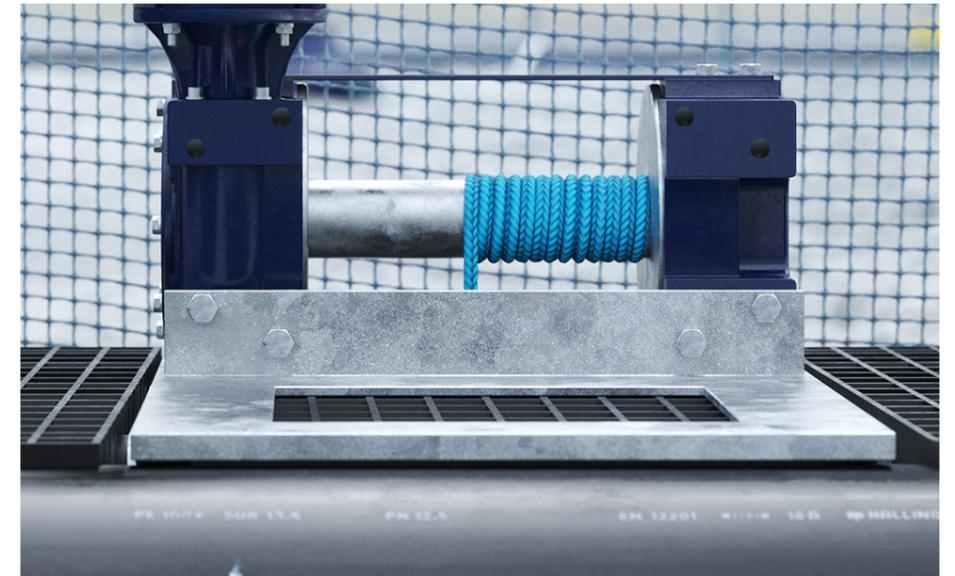
ScaleAQ's hinged net hooks can be extended when needed for fitting nets, and folded away when not in use. This reduces the contact with the net, and wear on the net when there is no need for hooks.

Equipment

302765	Hinged net hook
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Winch system for sinker tube

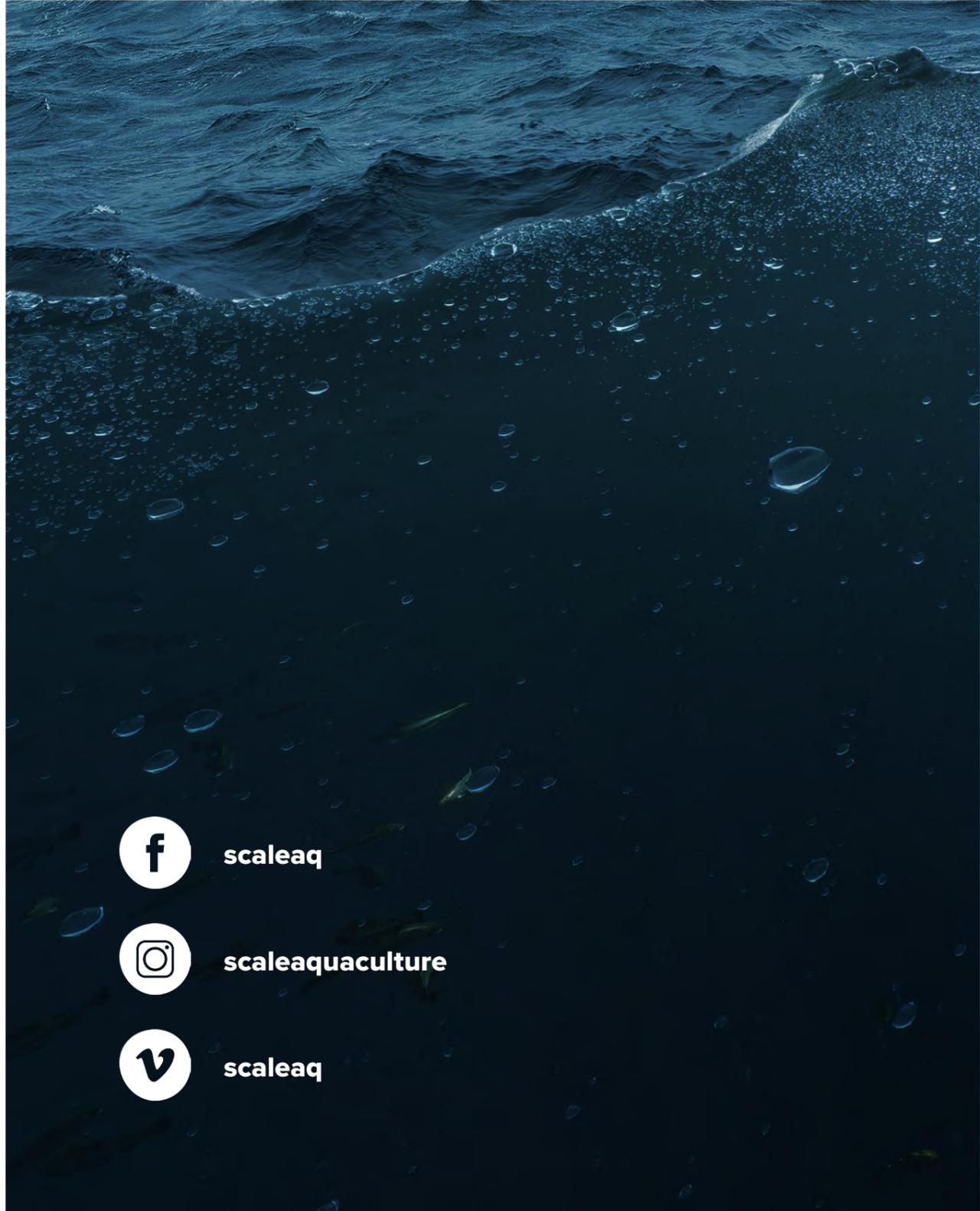
- Our winch system streamlines operations relating to the raising and lowering of the bottom ring.
- Focus more on HSE and fish welfare.
- Our winch system reduces the use of cranes on board boats and thereby the risk of injury to personnel.



ScaleAQ's winch system is equipped with aquaneema ropes that raise and lower the bottom ring while ensuring even lift under fully controlled conditions. The use of integrated winches instead of cranes is labor-saving and reduces the risk of accidents. The net is subjected to a minimal load, personnel are exposed to less risk, and the likelihood of making mistakes is reduced. This ensures safer, easier and quicker handling of the net, and work can also be carried out in poor weather conditions. When using a crane boat, the net may be subjected to skewed loads and the risk of accidents is increased. The winch makes the entire operation easier, quicker and safer.

Equipment

301533	ScaleAQ winch system
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