



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 930 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.

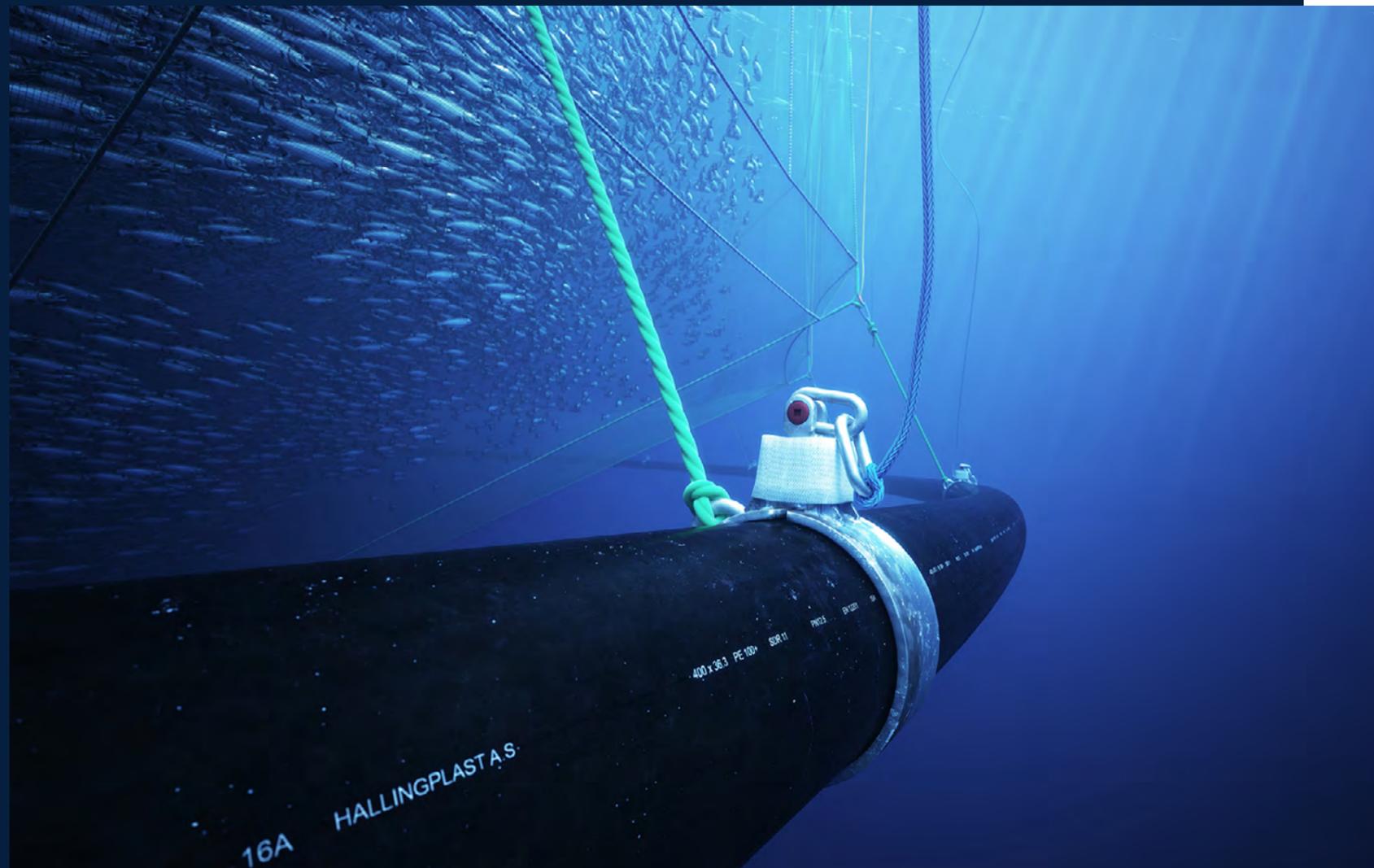
Over the years, we have developed a selection of products that streamline operations by the edge of the pen and improve the safety of all personnel, fish and equipment. Extra equipment completes your aquaculture facility and ensures it is safe.

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



Sinker Tube System

- Increased safety: Reduces point load, provides full control during net lining, and minimizes the risk of propeller damage.
- Environmental benefits and animal welfare: Open meshes ensure good water flow, reduce fouling, and minimize stress and injuries.
- Easier cleaning: Simple washing, rinsing, and drying without significant shape changes.



A sinker tube helps prevent the shape and thus the net volume from changing in locations subject to many storms. The sinker tube is designed to make the handling of the net easier.

The sinker tube is lifted in "phases" using a crane on a boat, or winches mounted on the floating collar. This allows you to remove fouling while the fish is almost undisturbed in the lower part. Delicing can also be performed safely and controlled because you have good control over the volume of the net.

The weight of the sinker tube varies from 15-140 kg / m. The local conditions determine what weight the sinker tube should have.

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.

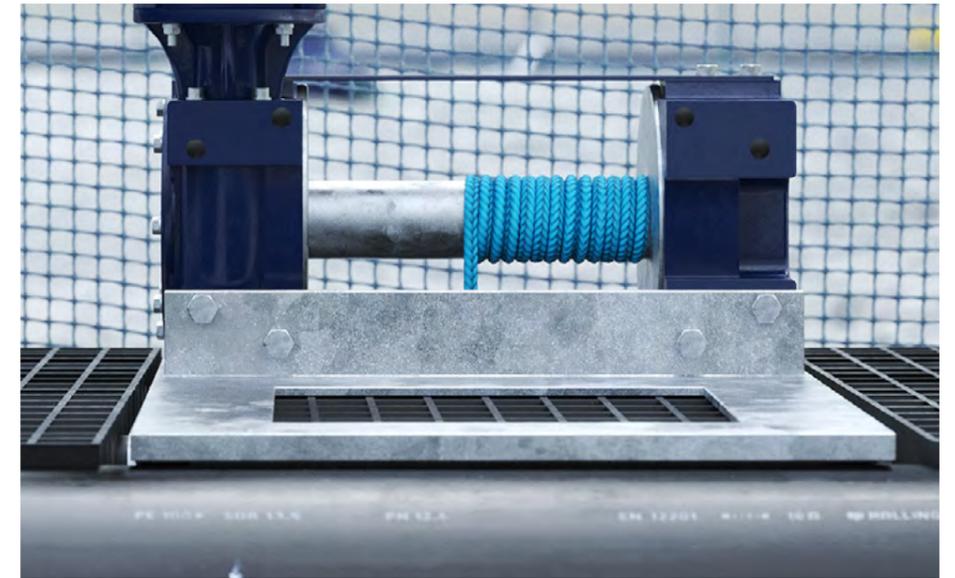
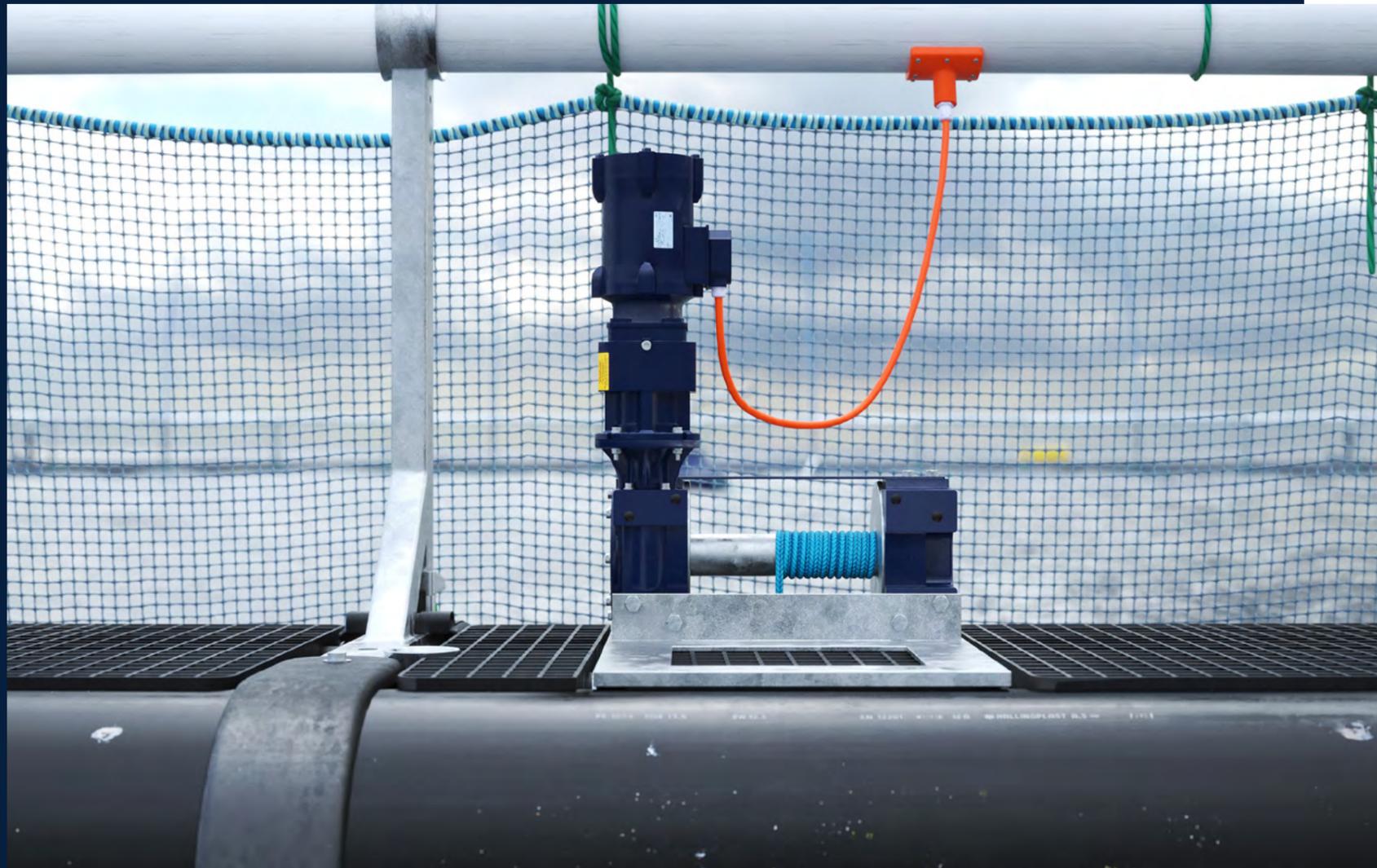
ScaleAQ's bird net rods are made using glass fiber reinforced polymer (GRFP) and are developed on the basis of analyses and testing. Along with the rods, we also supply dedicated fasteners, casters and ropes for attachment to the clips and bird net.

Varenummer	Varenavn
302067	Complete ScaleAQ fiberglass rod with holder. ø51mm, 5.8m
505736	Complete ScaleAQ fiberglass rod with holder. ø51mm, 7m
302004	Bird net 135m x250/100mmsq, for fiberglass rod
301641	Bird net 157m x250/100mmsq, for fiberglass rod
302626	Bird net 157m x250/100mmsq, for fiberglass rod, with extra jumping net
301990	Bird net 160m x250/100mmsq, for fiberglass rod
502633	Bird net 160m x250/100mmsq, for fiberglass rod, with extra jumping net
302013	Bird net 200m x250/100mmsq, for fiberglass rod
303012	Bird net 200mm x250/100mmsq, for fiberglass rod, with extra jumping net

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products. We have options with smaller mesh, and also the option to tailor our bird nets to your wishes.

Midgard® Winch System

- 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.



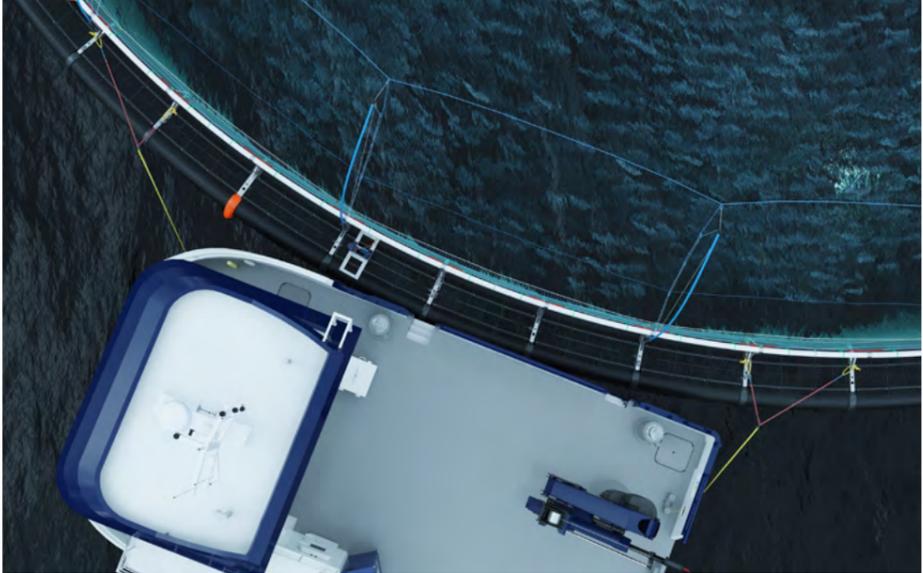
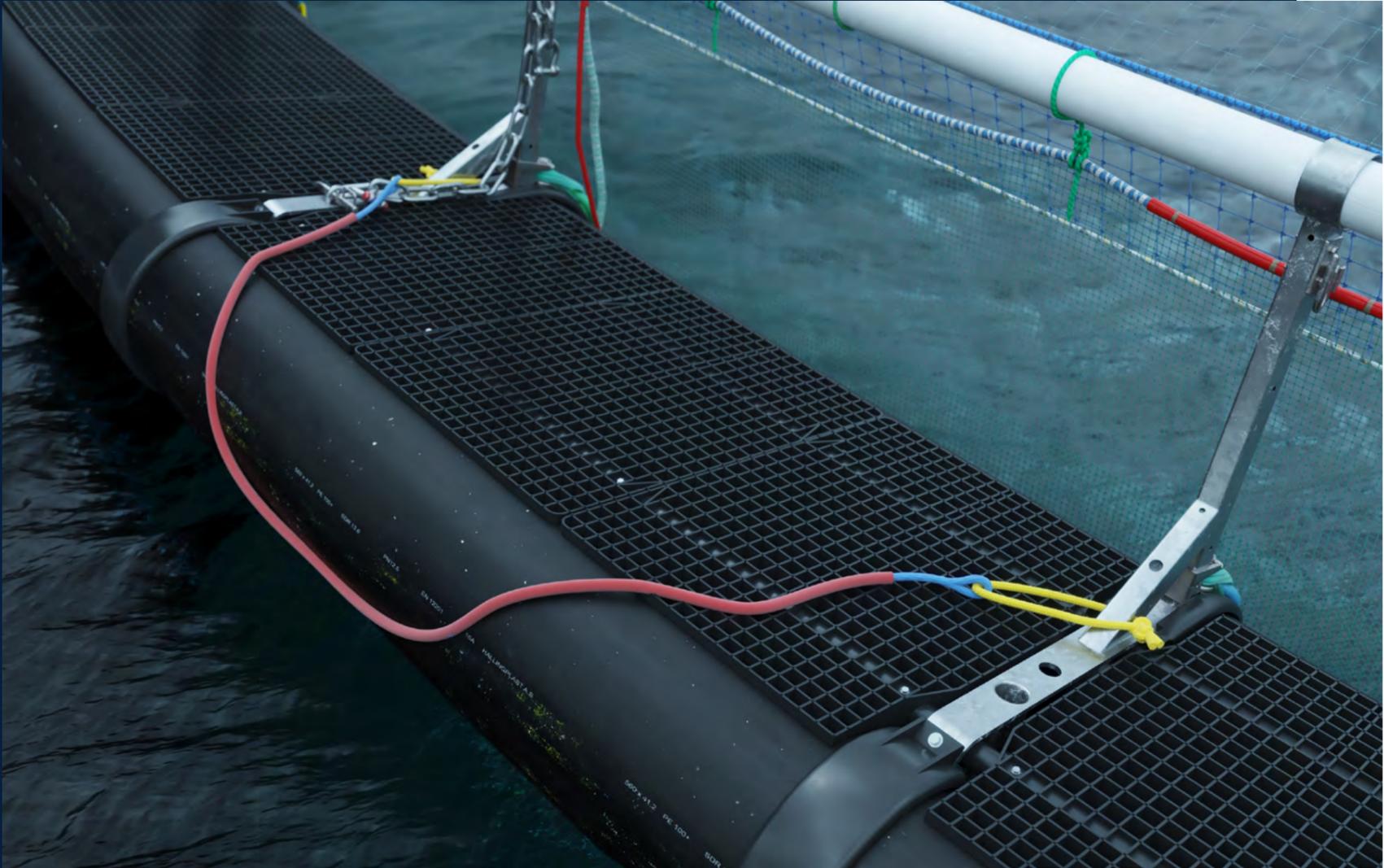
ScaleAQ's winch system is equipped with aquaneema ropes that raise and lower the bottom ring while ensuring even lift under fully controlled conditions. The use of integrated winches instead of cranes is labor-saving and reduces the risk of accidents. The net is subjected to a minimal load, personnel 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.

Item Number	Item Name
504000	ScaleAQ Midgard® Winch 1.1
505737	Winch rope 12mm, for 15m net, for smetting. With storage loop
505738	Winch rope 12mm, for 20m net, for smetting. With storage loop
505482	Loop for winch rope, for intermediate storage of bottom ring and winch
504140	Handrail lock 160mm, with mounting hardware
505528	Handrail 140mm, with mounting hardware
502187	Control cabinet Winch V2 (230V eller 400V)
502852	Adapter Type 2
502605	Adapter Type 1
505666	Rope guides for winch bracket

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

Large Boat Mooring

- Highly recommended for prolonging the lifespan of the floating collar
- Safer mooring for wellboats and large vessels
- Prevents damage and fatigue in mooring brackets, designed for use on two standard brackets.



Large Boat Mooring ensures safe and gentle mooring of wellboats and larger vessels while extending the lifespan of the floating collar and reducing stress on the mooring brackets. With easy installation and efficient load distribution, this solution enhances operational reliability and minimizes unexpected maintenance needs.

The Large Boat Mooring is designed to shift the load from the mooring lugs and brackets to the knee braces on standard brackets. This reduces the risk of mooring bracket failure, which could otherwise lead to an expensive and time-consuming bracket replacement during operations.

By using the knee brace as an attachment point, the standard bracket may still experience some load, but it will not be classified as a critical incident. Any necessary bracket replacement can be carried out during the next scheduled maintenance inspection, increasing operational reliability.

The Large Boat Mooring is easily installed using a round sling and rope shackle solution. Between the rope shackles, an 18 mm Aquaneema splice ensures optimal torque distribution, regardless of the approach angle from the vessel.

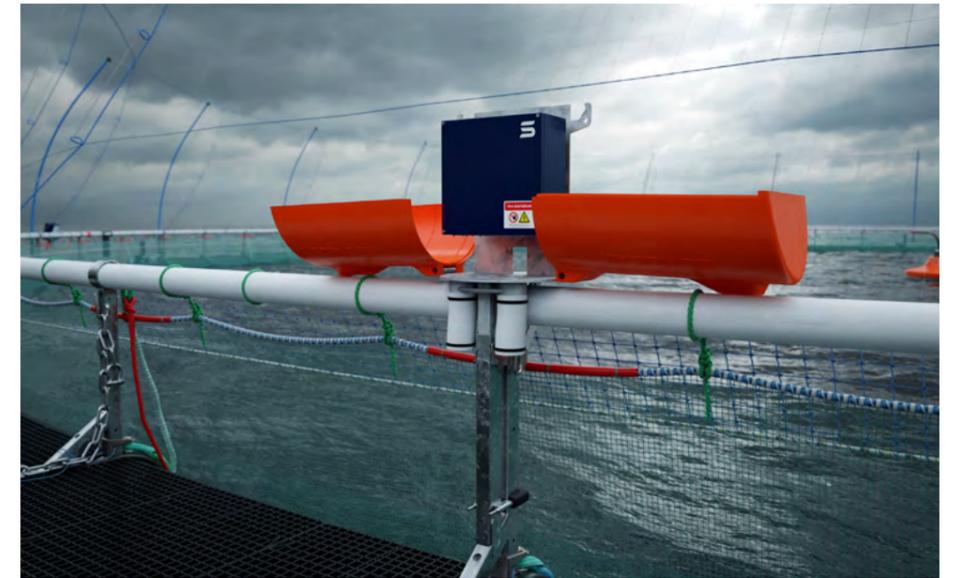
In calm conditions, two Large Boat Moorings may be sufficient. In rough weather or under increased loads, additional units are recommended to maintain a safe and stable mooring setup.

Item Number	Item Name
502109	Complete Large Boat Mooring

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
302732	Electrical cabinet module with holder
448711	Complete Universal Mount for Power and Camera Cabinets

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

Anti-Static 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.

Item Number	Item Name
301965	Feed pipe SDR13,6, 90mm, Anti-static, White
300759	Feed pipe SDR13,6, 90mm, No anti-static stripes, Black
502269	Water feeding pipe SDR13,6, 90mm, No anti-static stripes, Green, w/ recycled materials
300974	Screwed joint 90mm
300768	Electromagnetic joint 90mm

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
301416	Feed pipe holder by walkway
302265	Feed pipe holder by handrail

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

Rescue Ladder

- 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.



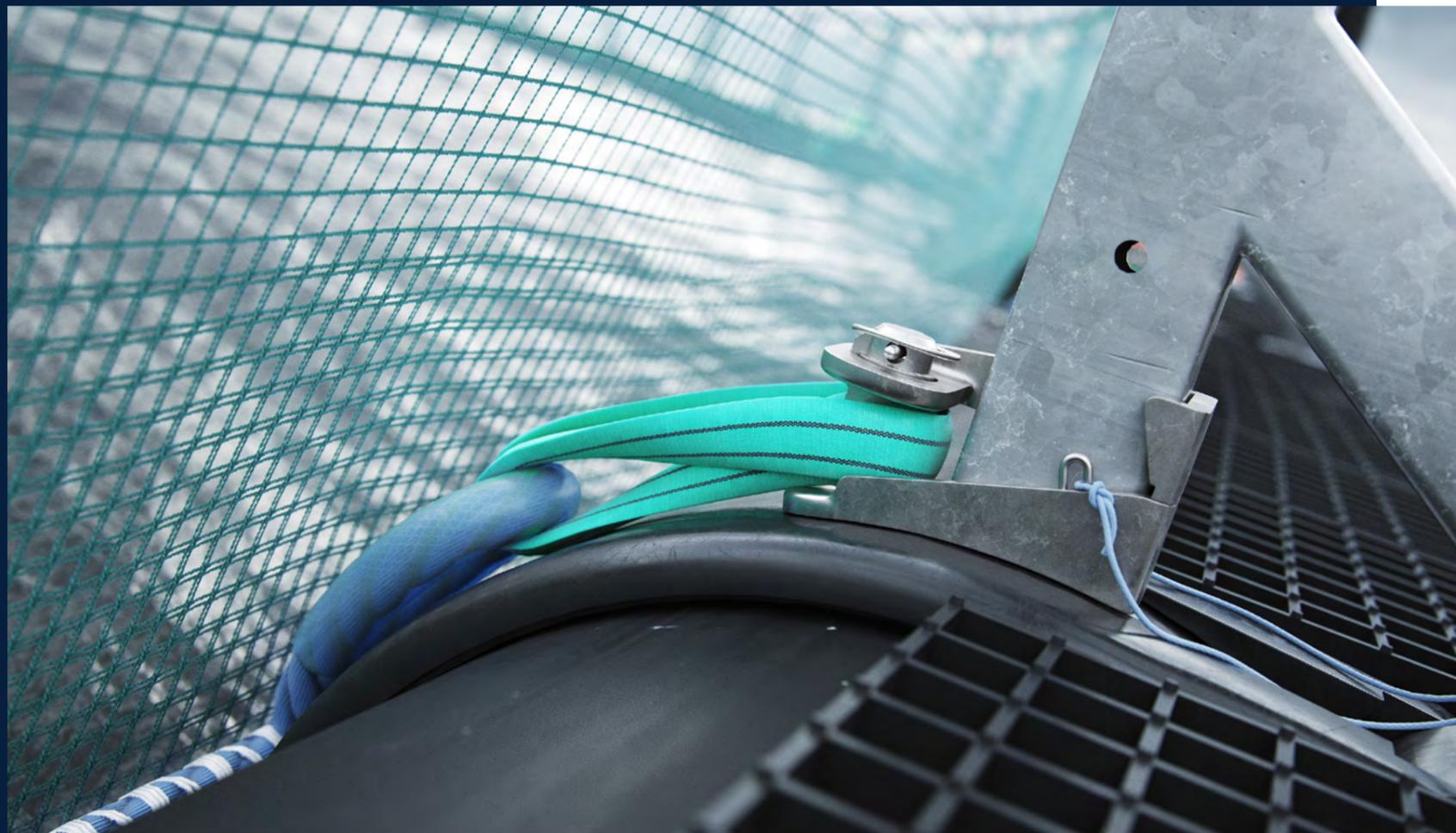
Our rescue ladders are non-slip and suit all types of floating collar. The ladder can be easily fitted to the walkway on the pen, and it is equipped with a colorful, non-slip cover that is easy to spot both at sea and onshore. ScaleAQ's rescue ladder is easy to deploy if the worst should happen, and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

Item Number	Item Name
300124	Complete ScaleAQ rescue ladder for floating collars FR400-FR630

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
303120	Net quick coupling, complete with round sling and locking pin. For FR450-500-560
301403	Round sling WLL 2T, 0.5m effective length
302215	Split pin

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
302251	Fixed tamp holder with holder set for FR400-560
303531	Fixed tamp holder for plastic brackets, FRPL500-560
502264	Fixed tamp holder with holder set for FR630

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
302648	Mooring lug insert for FR450-500
302739	Mooring lug insert for FR560-630

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
302409	Pen sign holder, complete with sign
302408	Sign for pen sign holder
302407	Pen sign holder PE

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

Universal Bracket and Accessories

- The universal bracket for accessories provides the aquaculture operator with the ability to use all accessory 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 accessories 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 accessories to the pen.

Item Number	Item Name
302595	Universal bracket for accessories with mounting hardware, FR450-560
302824	Universal bracket for accessories with mounting hardware, FR630
303489	Universal bracket for accessories, for plastic brackets, FRPL500mm
303583	Universal bracket for accessories, for plastic brackets, FRPL560mm
504217	Universal bracket for accessories, for plastic brackets, FRPL630mm
504929	Angled module bracket, with mounting hardware, FR450-560
505755	Angled module bracket, with mounting hardware, FR630
302748	Boom for drying cleaner fish shelter, with mounting hardware, FR450-560

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
504417	Hinged net hook with mounting hardware, FR450-560
505485	Hinged net hook with mounting hardware, FR630
505756	Fixed net hook with mounting hardware, FR450-560
505757	Fixed net hook with mounting hardware, FR630
302269	Net hook for plastic brackets

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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.

Item Number	Item Name
301744	Plastic hook protector, HSE fittings

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.

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

Item Number	Item Name
302639	Fender for FR450 mooring bracket
302249	Fender for FR500 mooring bracket
303066	Fender for FR560 mooring bracket

Contact your advisor or our customer service center for information about additional options or any other questions regarding the products.





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