



STARAQ

FISH CAGE



CATALOG

Turnkey Aquaculture Service Partner

www.staraq.com



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Introduction

Deep water cages, also called offshore cages. It is deployed in the water at 15m deep at least. Deep water cages have large aquaculture capacity and strong resistance to wind and waves.

Deep water cages have shown obvious advantages in expanding the waters, reducing coastal environmental pressures, and improving the quality and efficiency of fish.

At present, there are floating cages, lift cages, sunken cages, and semi-submerged cages depending on the type of operation.

Depending on the structure of the cage, there are circles, squares, polygons, and cones.

The materials of the frame are also plastic, metal, and concrete. In recent years, HDPE (High-Density Polyethylene) has been used as a raw material in cages worldwide.

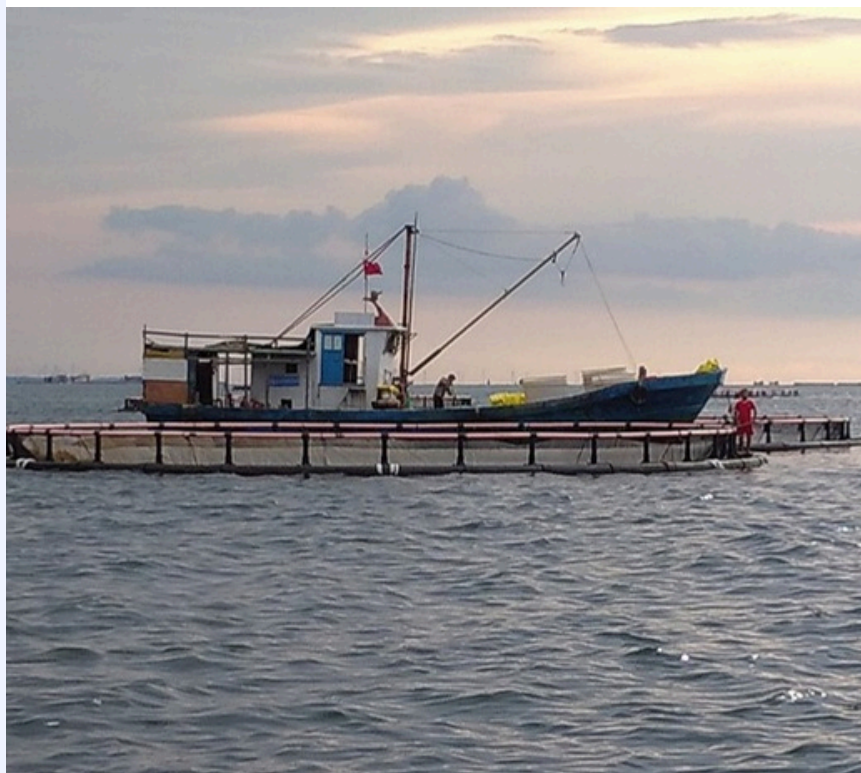


Modules

A cage is mainly composed of three parts. The frames, netting and the mooring system.

At present, most of the fish cage frame materials in the world use HDPE (High-Density Polyethylene), which has good heat and cold resistance. It has stable chemical properties, high rigidity, and flexibility.

Meanwhile, high mechanical strength can resist strong shock. With Good rigidity, frame security can be guaranteed. The frame has sufficient tension and high toughness to ensure that the frame has good wind and wave resistance.





Frames

STARAQ has the professional capability to design and manufacture every component for cage frames, including pipe, bracket, tee, pin, stopper and walkway. All raw materials applied are 100% new to ensure the best performance.

We can design and produce all kinds and sizes of HDPE cages with our excellent manufacturing capacity. From 4*4 to 20*20 meters square cages and from 10 meters to 50 meters diameter circular cages.

Any cooperation is highly welcome. We could provide turnkey services, or we could manufacture any HDPE items according to your requirements.



Circular Cages

Circumferences	40 - 70m	70 - 90m	90 - 120m	110 - 140m	140 - 180m
Diameters	13 - 22m	20 - 30m	30 - 38m	35 - 45m	45 - 56m
Floating Pipe diameter	250mm	315mm	355mm	400mm	450mm
Handrail Pipe Diameter	110mm	110mm	110mm	125mm	125mm
Stand Pipe Diameter	125mm	125mm	125mm	160mm	160mm
Stanchion separation	2m	2m	2m	2.5m	2.5m



Square Cages

Sizes	6m × 6m	10m × 10m	15m × 15m	20m × 20m
Floating Pipe diameter	250mm	315mm	355mm	450mm
Handrail Pipe Diameter	110mm	110mm	110mm	125mm
Stand Pipe Diameter	125mm	125mm	125mm	160mm
Stanchion separation	≤2m	≤2m	≤2m	≤2.5m

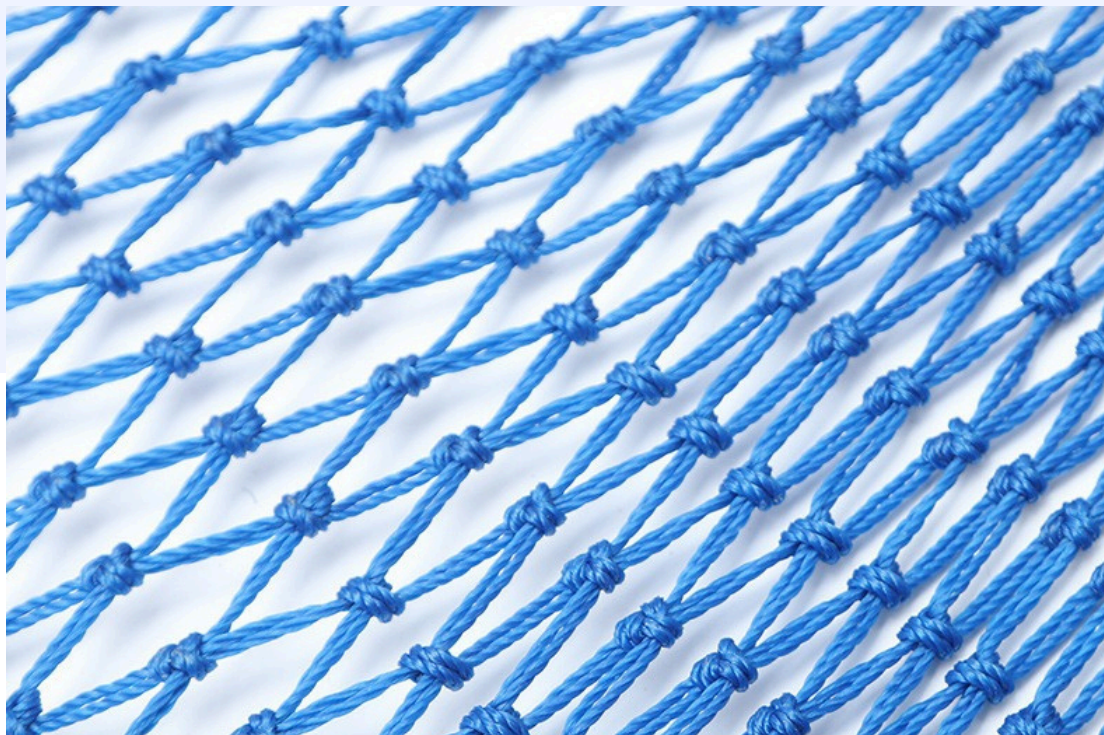


Nets

To gain the most success in aquaculture, one must choose the most suitable nets to hold the fish to cost time and money. Now the synthetic materials available include polyethylene (PE), polyamide (Nylon) and Dyneema (UHMWPE), ranging from 5mm to 30cm.

In our workshop, we could provide both raw nettings, which are produced by our machines, and finished cage nets, which our workers rework the raw nettings produced by ourselves.

Your applications are important to us. If you have requirements for nettings, we could manufacture them according to your specifications. If you are looking for turnkey solutions, we could advise, design, produce and rework the finished sets, that are proper for your frames.



Knotted Nettings

Twine size: 230D/2PLY & up

Mesh size: 3/8" & up

Depth: 5 to 800MD

Length: 10M & up

Type of knot: S/K or D/K

Type of selvage: SSTB/DSTB/Thicker

Type of stretch: LWSF/DWSF

Color: Customized



Twisted Nettings

Twine size: 380D/20 – 100PLY

Mesh size: 1" & up

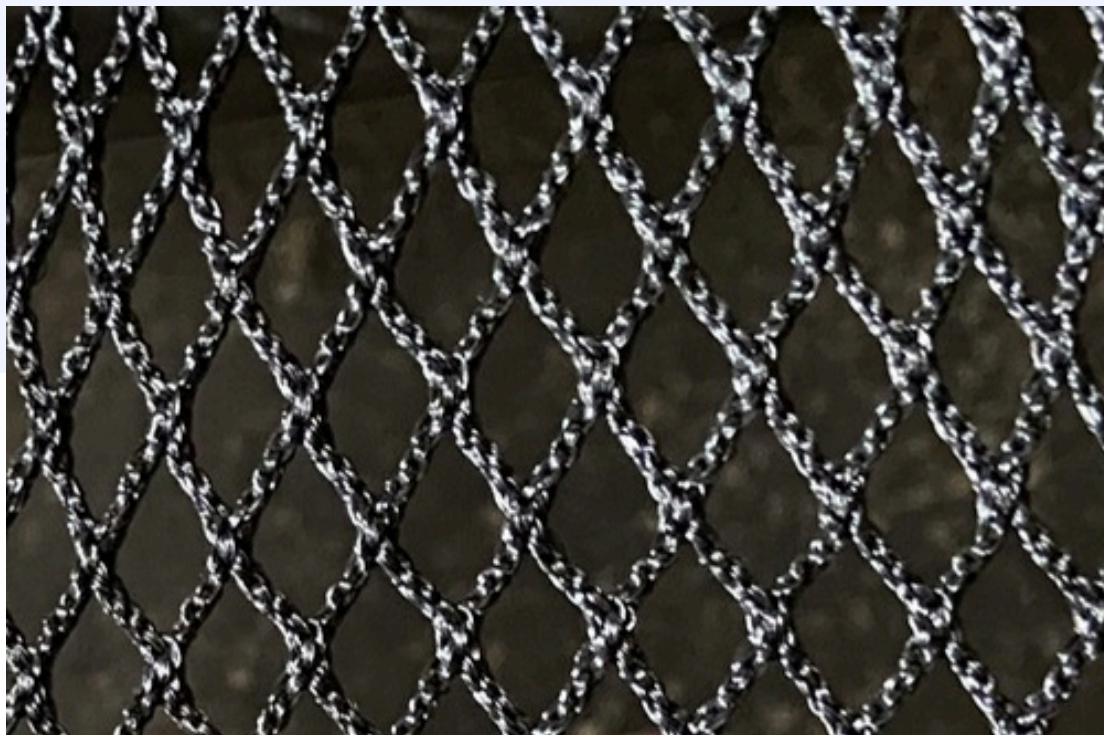
Depth: 100 to 200MD

Length: 10M & up

Type of selvage: SSTB/DSTB

Type of stretch: LWSF/DWSF

Color: Customized



Raschel Nettings

Twine size: 230D/4PLY & up

Mesh size: 1/4 – 12"

Depth: 10 – 2400MD

Length: 10M & up

Type of selvage: SSTB/Thicker

Color: Custimized



Mooring System

The crucial module for aquaculture farms to facilitate the practice is the mooring system.

There are many components applied to build a complete mooring system, including but not limited to anchors, chains, shackles, thimbles, buoys, and mooring plates. Each component requires the most professional expertise, the best quality, and well proven experience. One failure of the components will lead to the failure of entire mooring system.

We have well-designed solutions based on your water location, no matter in the fresh lake or in the sea. The solutions have been well-tested under the roughest conditions. Meanwhile, we could provide the individual items according to your checklist for mooring system.





Optional

For the entire cage system, there are optional modules to enhance the aquaculture performance. These modules include but are not limited to surveillance systems, water monitoring systems, boats and navigational marks. They facilitate the individual functions.



Camera Systems



Environmental Sensors



Navigation Buoy



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