

# Polarcirkel Cages



Cage Models:	225/250/280	315	400	450	500	Comments
Cage sizes – Floating pipe diameter:	225/250/280mm (9"/10"/11")	315mm (12")	400mm (16")	450mm (18")	500mm (20")	Imperial sizes to be confirmed.
Cage sizes – Standard circumferences:	40 - 90m (130 - 300')	60 - 100m (200 - 330')	90 - 160m (300 - 530')	120 - 160m (400 - 530')	130 - 200m (430 - 660')	At centre of inner floating pipe.
Cage sizes – Standard diameters:	13 - 29m (42 - 94')	19 - 32m (63 - 104')	29 - 51m (94 - 167')	38 - 51m (125 - 167')	41 - 64m (136 - 209')	At centre of inner floating pipe.
Bracket – HDPE Injection Moulded (new PIM Type):	-	-	Yes	Yes	Yes	New 2007: PIM Bracket (Plastic Injection Moulded Bracket) with plastic uprights.
Bracket – HDPE Welded (original "Nova" type):	-	Yes	Yes	-	-	Original welded NOVA bracket.
Bracket – HDPE Injection Moulded (original type):	Yes	Yes	-	-	-	Original injection moulded bracket.
Standard distance between brackets:	2m (6' 7")	2m (6' 7")	2.5m (8' 2")	2.5m (8' 2")	2.5m (8' 2")	Can be customized to fit nets.
Dimension – HDPE Handrail Upright:	125mm	125mm	160mm	160mm	180mm	Not applicable for steel brackets.
Dimension – Handrail Pipe:	110mm	110mm	140mm	140mm	160mm	Applies for both HDPE and steel brackets.
Net hook on uprights:	HDPE (SS opt.)	HDPE (SS opt.)	Stainless Steel (12mm)	Stainless Steel (12mm)	Stainless Steel (12mm)	One single hook per upright included. Custom hooks available
Polystyrene Safety Flootation added:	Only inner pipe	Only inner pipe	Only inner pipe	Only inner pipe	Only inner pipe	Available in all floating pipes on request.
Available with – Secondary Safety Chain (redundancy):	Inside outer pipe	Inside outer pipe	Inside outer pipe	Inside outer pipe	Inside outer pipe	Continuous internal safety chain welded inside the outer floating pipe as an extra safety feature.
Materials used – HDPE80 & HDPE100:	Yes	Yes	Yes	Yes	Yes	Applies to plastic components.
NS-EN ISO 9001:2000 Certification:	Yes	Yes	Yes	Yes	Yes	The Polarcirkel factory is ISO certified.
Norwegian Standard – NS9415 Certified:	-	Yes	Yes	Yes	Yes	Mandatory for Norway only.
Available as Two-Ring Cage:	Yes	Yes	Yes	Yes	Yes	Standard Cage
Available as Three-Ring Cage:	Yes	Yes	-	-	-	With original injection moulded bracket only.
Avail. with Walkway Decking:	Yes	Yes	Yes	Yes	Yes	
Available with Sinker Tube:	Yes	Yes	Yes	Yes	Yes	Mainly used for 400 model and up.
Avail. as Submergable Cage:	Yes	Yes	Not yet	Not yet	Not yet	Ask for specific details.
Avail. with Mooring Analysis:	Yes	Yes	Yes	Yes	Yes	Available in most markets.
Polarcirkel Square Cages - Standard sizes available:	3x3m (10x10') / 5x5m (17x17') / 7x7m (23x23') / 9x9m (30x30') / 11x11m (37x37') 13x13m (43x43')					Available outside Norway only – as individual cages or cage systems.

NOTE: WE ARE NOT RESPONSIBLE FOR ERRORS IN THIS TABLE – ALL DATA MUST BE CHECKED CAREFULLY BEFORE ORDERING

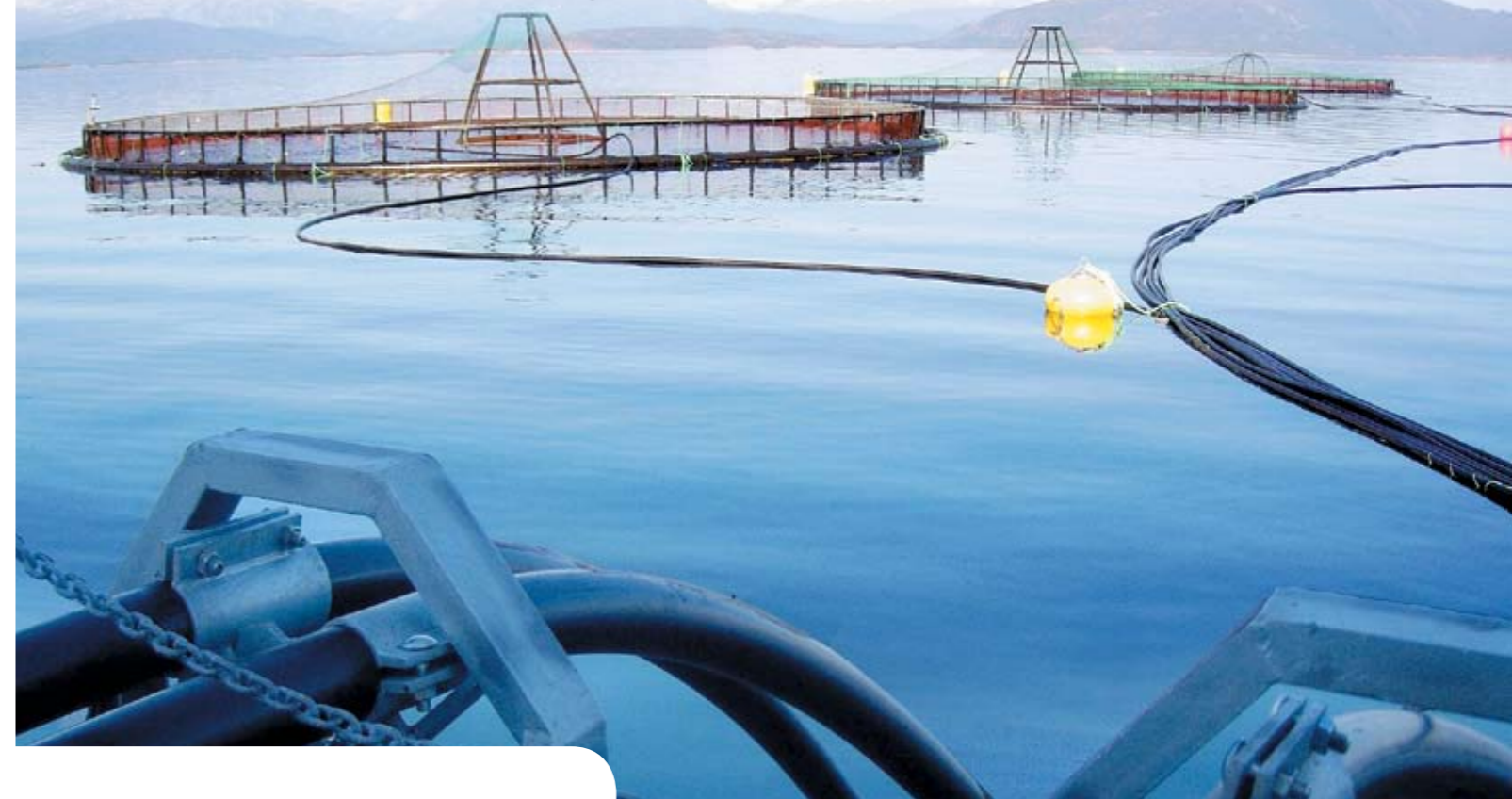
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EN-Polarcirkel-Cages-Plastic-20081010

# Polarcirkel Cages



The Polarcirkel Cages have a proven track record for use in rough weather, such as here on Norway's stormy coastline at 70° North.



The Polarcirkel Cages are known for their high reserve buoyancy, which is crucial in case of sudden excessive net loads or icing.

[www.akvagroup.com](http://www.akvagroup.com)

## Flexible cage construction for extreme weather conditions ...

Polarcirkel is the world's leading supplier of plastic cages, and more than 30.000 cages have been delivered since we invented the plastic cage in 1974! The cages are made from raw materials especially suited for the dynamic loads of the sea and are based on decades of experience world wide. The Polarcirkel Cages are available in a wide range of models, shapes and sizes to suit individual needs.

The Polarcirkel Cages are certified under Norwegian Standards NS-EN ISO-9001:2000 and NS9415 (certain models only).

The Polarcirkel cages include smart solutions for fully integrated walkways, sinker tube systems, safety flootation and system redundancies.





A wide range of integrated accessories are available for the Polarcirkel Cages, including feed systems, cameras, pellet sensors and networks.



The Polarcirkel Cages provide a safe and secure floating collar for your nets and are known for their high reserve buoyancy, which is crucial in case of sudden excessive net loads or icing.



The Polarcirkel Submersible Cages are designed for locations with occasional extreme weather conditions, temperature changes, algae growth or sites requiring low visual impact.



All Polarcirkel Cages are available with safe and sturdy walkway sections as well as strong built-in suspension system for sinker tubes.



Polarcirkel also supplies robust Cabin Workboats from 25-28 feet and Open Workboats from 18-27 feet with both inboard and outboard engines up to 435hp.

## Polarcirkel Cages - a well proven concept ...

Long experience means more than anything else in the fish farming business. Polarcirkel has supplied more than 30.000 cages and 1.000 boats in HDPE plastic since 1974. Many have tried to copy these products, but none come close to the genuine Polarcirkel designs and quality builds. Cages started out as small single pipe circles but now our largest models approach 200m circumference and with floating pipes of 500mm diam. Both circular and square cages and cage systems are available. For offshore farms we also supply our patented submersible cages. Combined with a global sales and service network, the Polarcirkel Cages are a well proven concept indeed!



### Polarcirkel PIM-500 Bracket

This new HDPE Plastic Injection Moulded (PIM) bracket is our latest design heavy-duty bracket for our all-plastic Polarcirkel Cage with 400-500mm floating pipes. This bracket has a very robust design with built-in features to secure safe and sturdy walkway sections as well as strong built-in suspension system for sinker tubes.



### Polarcirkel Nova-315/Nova-400 Bracket

This is the original handmade Welded HDPE Bracket for Polarcirkel Cages with 315 and 400mm floating pipes, known as the Nova Bracket. It also includes built-in features for fastening walkways and supporting sinker tubes. New in 2007 is the optional secondary redundancy safety chain placed inside the outer floating pipe. Together with Polarcirkel's primary system of welded guide-blocks keeping each bracket in place on the floating pipe, this makes Polarcirkel the safest HDPE cage in the industry.



### Polarcirkel Two-Ring Cages

The Polarcirkel Two-Ring Cages are supplied in all pipe dimensions and from 40m circumference and up.



### Polarcirkel Feeding Pipes

A wide range of high quality and durable Polarcirkel Feeding Pipes are also available in various dimensions, wall thicknesses and coil lengths.



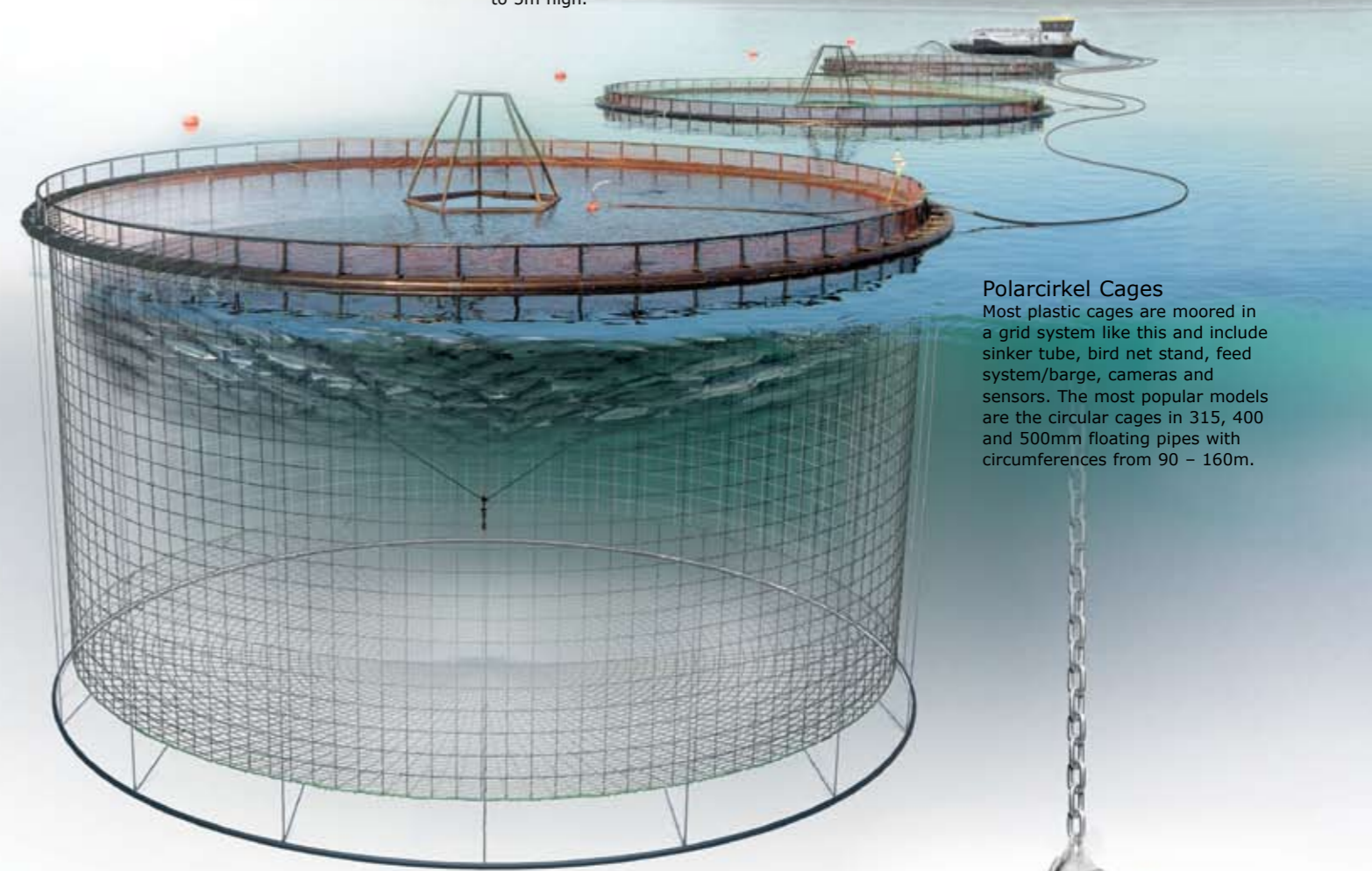
### Polarcirkel Bird Net Stands

Two different types of Polarcirkel Bird Net Stands are available. These are placed in the center of the cage to keep the bird nets high off the water. Standard sizes from 1.5m to 5m high.



### Polarcirkel Net Hooks

Various types of Polarcirkel Net Hooks are available to meet specific needs. These systems simplify net handling on the cages and provide a secure attachment point for your nets.



### Polarcirkel Cages

Most plastic cages are moored in a grid system like this and include sinker tube, bird net stand, feed system/barge, cameras and sensors. The most popular models are the circular cages in 315, 400 and 500mm floating pipes with circumferences from 90 - 160m.



### Polarcirkel Three-Ring Cages

Some farms prefer Three-Ring cages for added buoyancy and stability. These are only available in the Polarcirkel 315 models and smaller, including 315 cages with steel uprights.



### Polarcirkel Sinker Tubes

The Polarcirkel Sinker Tube system is a well proven system using HDPE pipe filled with steel wire as weight. The tube is suspended by chain through the custom made cage linking brackets

on the surface in order to simplify installation and ensure good stability. This system maintains good net shape in strong ocean currents.